Welcome to the 63rd ASMS Conference on Mass Spectrometry and Allied Topics. Conference program activities and exhibit booths are in America's Center. Corporate Member hospitality suites are located in the Renaissance Grand Hotel.

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Titles in the following sections are provided by authors. The complete abstracts are available online: www.asms.org

The PDF document of proceedings submissions for orals and posters may be viewed online one day after presentation at the conference.

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REGISTRATION is open 10:00 am - 8:00 pm on Sunday and 7:30 am - 5:00 pm on Monday through Thursday.

ATTENTION UNDERGRADUATE STUDENTS AND FIRST TIME (AT ASMS) GRADUATE STUDENTS

4:00 - 4:45 pm. Sunday, Ballroom 220/221

Plan Your Strategy: What to See and Do at ASMS

SUNDAY TUTORIAL SESSION, 5:00 - 6:30 PM Hall 5, level 1



5:00 - 5:45 pm Statistical Experimental Design: The Building Blocks of a Good Experiment

Ann L. Oberg Mayo Clinic



5:45 - 6:30 pm

Metabolite Profiling at the 'Omic' Scale: Untargeted Does not Mean Unplanned

Gary PattiWashington University, St Louis

SUNDAY CONFERENCE OPENING, 6:45 - 7:45 PM Hall 5, level 1



Welcome Vicki H. Wysocki The Ohio State University ASMS Vice President for Programs



The Human Gut Microbiome and Healthy Growth

Jeffrey L. GordonWashington University, St. Louis School of Medicine

SUNDAY WELCOME RECEPTION, 7:45 - 9:00 PMPoster/Exhibit Hall. Conference name badge is required.

PLENARY SESSIONS

Monday, 4:45 - 5:30 PM Award Lecture Hall 5, level 1



Award for a Distinguished Contribution in Mass Spectrometry

Brian T. Chait
The Rockefeller University

Tuesday, 4:45 - 5:30 pm Award Lecture

Hall 5, level 1



Biemann Medal

Michael J. MacCoss University of Washington

THURSDAY, 4:45 - 5:30 PM PLENARY LECTURE

Hall 5, level 1



The Evolution of Modern Neurosurgery: A History of Trial and Error, Success and Failure

G. Michael Lemole, Jr.The University of Arizona College of Medicine

Don't MISS

• ASMS MEETING, WEDNESDAY, 4:45 - 5:30 PM Ballroom 222/224, level 2

Enjoy a beverage while you applaud awards, hear about new initiatives, and more!

 CLOSING EVENT, THURSDAY, 6:30 - 9:00 PM City Museum

Let's celebrate! Your adventure begins with a maze of turrets and open "tunnels" that lead to views of fantastic structures and sculptures. Try your skills of balance and courage, through caves and impossible slides. End with a surprise "artist" and St. Louis buffet. Buses will depart from the convention center, Washington Avenue entrance.

Ticket is required, \$30.





ORAL SESSIONS are 8:30 - 10:30 am and 2:30 - 4:30 pm Monday through Thursday.

Level 1

Session A (MOA, TOA, WOA, ThOA)	. Hall 5
Session B (MOB, TOB, WOB, ThOB)Room 1	30/132
Session C (MOC, TOC, WOC, ThOC) Room 1	
Session D (MOD, TOD, WOD, ThOD) Room 1	20/127
Session E (MOE, TOE, WOE, ThOE)	Theater
Session F (MOF, TOF, WOF, ThOF)Roo	om 106
Level 2	

Session G (MOG, TOG, WOG, ThOG). Ballroom 222/224 Session H (MOH, TOH, WOH, ThOH).. Ballroom 220/221

ORAL PRESENTATIONS are projected from ASMS computers running Microsoft Office 2010. Speakers are required to use the ASMS computers for their presentations.

SPEAKERS must load presentations at least one day prior to their talks. The speaker room is 116, level 1 between Hall 4 and 5. The room is open with a technician according to this schedule:

Sunday: 10:00 am - 8:00 pm

Monday through Thursday: 7:30 am - 2:00 pm

POSTERS AND EXHIBIT BOOTHS are in the Poster/Exhibit Hall.

The Hall is open:

Sunday Reception	7:45 pm - 9:00 pm
Monday - Wednesday	7:30 am - 8:00 pm
Thursday	7:30 am - 3:00 pm

POSTER SET-UP is 7:30 am on the day scheduled. **Refer to the poster numbers in this final program for board assignments.** A counter for poster supplies is near the main entrance to the Hall.

Poster Sessions are 10:30 am - 2:30 pm, Monday through Thursday.

POSTER AUTHORS must be present at posters on scheduled days at these times.

10:30 am - 1:00 pmOdd-numbered posters 12:00 - 2:30 pmEven-numbered posters

Presenters who must leave a poster unattended should post a return time. Presenters should wear "Poster Presenter" badges which are available at the poster supply counter.

Posters should not be removed before 7:30 pm on Monday, Tuesday and Wednesday. Thursday posters should be removed at 2:30 pm.

LUNCH CONCESSIONS in the Poster/Exhibit hall offer a variety of options to dine and network while taking a break from posters. Concessions are open 11:00 am - 2:00 pm, Monday through Thursday.

EXHIBITORS must staff exhibit booths as follows:

Sunday Reception	7:45	pm -	9:00	pm
Monday - Thursday	10:30	am -	2:30	bm

Workshops are 5:45 - 7:00 pm on Monday, Tuesday, and Wednesday. Light refreshments are provided in the pre-function areas on level 1 and outside ballroom on level 2.

DINNER BREAK, 7:00 - 8:00 PM is time for a breath of fresh air before the opening of hospitality suites at 8:00 pm.

SPECIAL PROGRAM FOR UNDERGRADUATE STUDENTS

- Sunday, 7:30 9:00 pm, Poster competition, Poster/ Exhibit Hall
- Monday, 11:30 am 1:00 pm, Meet the Experts. lunch tables reserved for undergraduate students in the Poster/ Exhibit Hall, Free vouchers for lunch will be provided at the tables. Arrive promptly at 11:30 am to obtain your voucher.
- Wednesday, 5:45 7:00 pm, Workshop: Getting the Most out of Undergraduate Research in Mass Spectrometry, Room 230

FREE WIFI Access is provided in the Poster/Exhibit Hall. Computers are provided at stations throughout the convention center.

CONFERENCE PROCEEDINGS will be published online. Visit www.asms.org after July 6 to view or download the Proceedings. Submission to the Proceedings does not constitute publication and does not jeopardize the rights of authors to publish contents of their submissions. **Speaker web casting slides will be printed to PDF and used for speakers who fail to submit.**

WEB CASTING includes tutorial lectures, plenary lectures, and oral sessions. Web casting will be available to conference attendees for three months after the conference. ASMS does not retain rights to material included in web castings. To access the presentations, go to www.asms.org and log in. After login, go to annual conference page and select "web casting." Web casting button is visible only to conference registrants.

CORPORATE HOSPITALITY SUITES may be open 8:00 - 11:00 pm, Monday through Wednesday. Suites are located in the Renaissance Grand Hotel.

CAREER CENTER is located near the Washington Avenue entrance. The Career Center is open to all conference attendees. Applicants and employers must enter resumes and employment opportunities online. There are computers in the center for searching the database of candidates and positions. Interview rooms must be reserved one day in advance.

Sunday	7:45 - 9:00 pm
Monday - Wednesday	7:30 am - 5:00 pm
Thursday	7:30 am - 2:30 pm

GUEST REGISTRATION (\$10) includes designated name badge and entrance to the Sunday evening reception. The badge does not gain entrance to oral sessions or the Poster/Exhibit Hall.

CONCIERGE DESK in the conference registration area offers information on transportation, attractions and restaurants.

GENERAL INFORMATION



CORPORATE BREAKFAST SEMINARS are hosted by some Corporate Members. Breakfast seminars are located on level 2 of the convention center and seats must be reserved in advance. **Please reserve at company exhibit booths.**

MONDAY		
MONDAY	.	
Company	Convention Contar Boom	
	Center Room	
Advanced Chemistry Development (ACD)	Room 242	
Agilent Technologies	Room 276	
Bruker Daltonics	Room 263/264	
LECO	Room 241	
SCIEX	Room 265/266	
SCIEX	Room 275	
Shimadzu	Room 274	
Thermo Scientific (in Renaissance Hotel)	Landmark 4-7	
Waters	Room 230	
Waters	Room 231	
TUESDAY		
Company	Convention	
Company	Center Room	
Agilent Technologies	Room 276	
Biotage	Room 231	
Bruker Daltonics	Room 263/264	
EMD Millipore	Room 240	
GL Sciences	Room 265/266	
LECO	Room 241	
New Objective	Room 242	
Phenomenex	Room 230	
Promega Room 261/262		
Prosolia Room 232		
SCIEX	Room 275	
SCIEX (in Renaissance Hotel)	Majestic D	
Shimadzu	Room 274	
Thermo Scientifc (in Renaissance Hotel)	Landmark 4-7	
Waters	Room 260/267	
WEDNESDAY	1100111 2007201	
	Convention	
Company	Center Room	
A sile at Tacky ale sie s		
Agilent Technologies	Room 276	
Bruker Daltonics	Room 263/264	
LECO	Room 241	
New Objective	Room 242	
Promega	Room 261/262	
SCIEX	Room 265/266	
SCIEX	Room 275	
Shimadzu	Room 274	
Thermo Scientifc (in Renaissance Hotel)	Landmark 4-7	
Waters	Room 230	
Waters	Room 231	
THURSDAY		
Company	Convention	
	Center Room	
Shimadzu	Room 274	
Thermo Scientific	Room 276	

CORPORATE MEDIA EVENTS are for members of the press and financial institutions. All will be held in the Renaissance Grand Hotel.

Company	Monday	Renaissance Hotel Location
Shimadzu	8:00-9:00 am	Majestic F-H
Bruker	9:30-10:30 am	Majestic A-C
SCIEX	11:00 -12:00 pm	Majestic D
Agilent Technologies	1:30-2:30 pm	Landmark 1-3
Thermo Scientific	3:00-4:00 pm	Landmark 4-7
Waters Corporation	4:30-5:30 pm	Majestic E

CONFERENCE REGULATIONS

- Name badge is required for all conference sessions, including the Poster/Exhibit Hall and the employment center.
- No smoking is permitted in the convention center.
- Cell phones must be turned off in oral sessions.
- No photography or recording is allowed in oral sessions or in the poster/exhibit Hall.
- Material presented or displayed at the ASMS Conference, including but not limited to orals, posters, workshops, exhibit booths and hospitality suites, is the intellectual property of the presenter and may not be recorded, photographed, quoted, disseminated or transmitted by summary in any form without the express written authority of the author of the material presented. Such materials that are published in print or online must contain appropriate credits for all quotations and photographs.
- The placement of advertising in the meeting area is prohibited. There are poster boards and tables in the Poster/Exhibit Hall for approved announcements. No signs on easels are permitted.
- Hardware, accessories or any items for sale may be displayed only in corporate exhibit booths and hospitality suites.
- No organized activities (even off-site) other than those approved by ASMS are allowed during the conference week (5:00 pm on Sunday through 6:00 pm on Thursday).
- Corporate or institutional logos on slides or posters may appear only one time in the presentation.



CONFERENCE HOTELS

Hotel	Telephone	Hotel	Telephone
*Crowne Plaza Downtown	314-621-8200	Holiday Inn (formerly Ramada	314-421-5974
*Drury Plaza at the Arch	314-231-3003	Plaza	044.055.400
Drury Inn & Suites Conv Ctr	314-231-8100	*Hyatt Regency	314 655 1234
Embassy Suites	314-269-5900	Magnolia	314-436-9000
*Hampton Inn Gateway Arch	314-621-7900	*Union Station St. Louis - A Doubletree by Hilton Hotel	314-621-5262
*Hilton Ballpark	314-421-1776	Renaissance Grand	314-621-9600
*Hilton Downtown	314-436-0002	*Shuttle service to/from the convention center an hospitality suites will be provided from these hot	



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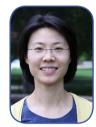
to these members who were elected to the ASMS Board

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Flavor, Fragrance and Timothy Croley

Foodstuff Walter Hammock

Forensics & Glen Jackson
Homeland Security Guido Verbeck

FTMS Nathan Kaiser

Don Smith

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Jos Oomens

H/D Exchange, Covalent Joshua Sharp

Labeling & Cross Linking David Weis

Imaging MS Vilmos Kertesz

Zoltan Takats

Ion Mobility MS Erin Baker

Stephen Valentine

Ion Trap MS Daniel E. Austin

Lipids & Lipodomics Stephen Blanksby

LC/MS Related Topics Michael Bereman Helene Cardasis

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Chemistry Alex Shvartsburg

Pharmaceuticals Christine Gu

Shawna Hengel

Photoionization MS Jack Syage

Ralf Zimmerman

Polymeric Materials Stephen Rumbelow

Gyorgy Vas

Regulated Bioanalysis Jian Wang

Undergraduate Elaine Marzluff Research in MS J.C. Poutsma

Young Mass Olga Friese
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Michael Grayson



AWARD FOR A DISTINGUISHED CONTRIBUTION IN MASS SPECTROMETRY

2015 RECIPIENT: BRIAN T. CHAIT AWARD LECTURE: 4:45 PM, MONDAY, HALL 5, LEVEL 1



Dr. Brian T. Chait is awarded the 2015 ASMS Award for a Distinguished Contribution in Mass Spectrometry for the recognition and demonstration of the link between protein structure and conformation and electrospray ionization mass spectra. His discovery that a protein's solution phase conformation impacts its electrospray ionization mass spectrometry (ESI-MS) charge state distribution (CSD) blasted away the barriers isolating mass spectrometry from its ability to probe higher order macromolecular structures and fostered a continuing deluge of applications of MS to noncovalent assemblies, hydrogen/deuterium exchange, probes of gas-phase protein structure, and ultimately "native mass spectrometry."

Today, interpreting ESI-MS and MS/MS data for proteins examined from native solutions often begins from NMR or crystal structures, based on assumptions that the gas-phase structure will not be too distant. But 24 years ago there was no expectation that relationships from higher order solution structure could be retained in the gas phase and any such assumption would have been foolhardy. The Chait laboratory opened the world to this possibility, first by demonstrating that electrosprayed cytochrome *c* molecules assumed about twice as much charge when

sprayed from pH 2.6 than from pH 5.2 H₂O (*J. Am. Chem. Soc.* 112, 9012 (1990)), by probing conformational changes in proteins via hydrogen/deuterium exchange (*Rapid Commun. Mass Spectrom.* 5, 214 (1991)), and by monitoring solution-phase thermal denaturation processes by ESI-MS (*Anal. Chem.* 65, 1, (1993)).

Dr. Chait's achievement must be viewed from the perspective of mass spectrometry in 1990 when few of us were capable of spraying 100% aqueous solutions, or did we see a need for it. For some of us an organic sheath solvent (or make-up flow) reduced surface tension enough to complete our analyses; others simply added methanol directly. However, Chowdhury and Chait (*Anal. Chem.* 63, 1660 (1991)) demonstrated that electropolished needles could electrospray water at voltages sufficiently below those inducing dielectric breakdown. That ability to electrospray 100% H₂O was key to observing the charge state distribution differences associated with natively folded proteins. Equally important was Dr. Chait's ability to rationalize and prove that the source of the observed CSD difference had to be solution-phase structure.

We know so little about electrospray ionization today; we knew even less 25 years ago, yet the ideas that Dr. Chait precisely articulated about the electrospray CSD/conformation relationship were a turning point for biological mass spectrometry.

Dr. Brian T. Chait is the Head of the Laboratory of Mass Spectrometry and Gaseous Ion Chemistry and a Camille and Henry Dreyfus Professor at The Rockefeller University, New York, NY.

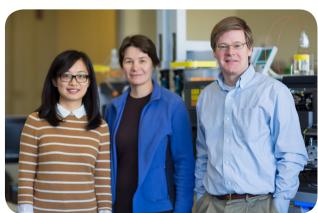
RON A. HITES AWARD OUTSTANDING RESEARCH PUBLICATION IN JASMS AWARD PRESENTATION: ASMS MEETING, 4:45 pm, Wednesday, Ballroom 222/224



The Ron Hites Award recognizes an outstanding publication of original research, based on a paper's innovative aspects, technical and presentation quality, likely stimulation of future research and impact on future applications. The award is named to honor Professor Ron Hites of Indiana University, who led the creation of *JASMS* in 1988 while president of ASMS. The award includes \$2,000 and a certificate for each author.

The 2015 award recognizes **John Klassen**, University of Alberta, and, coauthors Lan Liu, Alyson Baergen, Klaus Michelsen, Elena N. Kitova, and Paul D. Schnier; for their paper Energetics of Intermolecular Hydrogen Bonds in a Hydrophobic Cavity: *JASMS*, **2014**, 25, 742-750.

Left to right: Lan Liu, Elena Kitova, and John Klassen



ASMS AWARDS



BIEMANN MEDAL

2015 RECIPIENT: MICHAEL J. MACCOSS AWARD LECTURE: 4:45 PM, TUESDAY, HALL 5, LEVEL 1



Dr. Michael J. MacCoss has made a number of contributions of serious and long lasting impact to the field of proteomics. Chief among these is software development that has greatly facilitated proteomics. Dr. MacCoss' philosophy on making software freely available and continually supporting this software so that it enables others has greatly benefitted the proteomic sciences.

Bioinformatics tools developed by the MacCoss laboratory facilitate many different aspects of mass spectrometry data analysis. This includes tools for liquid chromatography mass spectrometry (LC-MS) feature finding, spectrum library searching, peak detection, post-processors for peptide database searching, and more. An important early contribution from his lab, the Percolator algorithm, improved peptide identifications from proteomic analyses through semi-supervised machine learning (Käll et al. "Semi-supervised learning for peptide identification from shotgun proteomics datasets," Nature Methods, 2007). Percolator became widely adopted partially because of its use of a liberal open source license that encouraged companies to build on Percolator and incorporate into commercial packages (e.g. Mascot and Proteome Discoverer). Another high-impact contribution from the MacCoss laboratory is the development and continued support of an integrated set of software

tools called Skyline (MacLean *et al.* "Skyline: an open source document editor for creating and analyzing targeted proteomics experiments" *Bioinformatics*, 2010; available from http://skyline.maccosslab.org). Critically, Skyline is a vendor-neutral toolset, thus enabling methods to be easily transferred and tested across labs, even those that utilize different instrument platforms. Dr. MacCoss has also substantially advanced the new area of data-independent MS analyses. His key contribution in this area has been to develop a multiplexed strategy to better isolate noise and improve signal detection and therefore sensitivity through observational coherence (Egertson *et al.*, *Nature Methods* 2013).

One of the most recent projects championed by Dr. MacCoss is a nonprofit to provide a cost effective mechanism for labs to backup, share, visualize, and analyze data on the cloud called The Chorus Project (http://chorusproject.org). They are working with developers in academic labs and companies to offer tools to our community that can process mass spectrometry data stored within Chorus. The hope is to provide a platform where all labs have access to the latest analysis tools and published data can be easily reanalyzed.

Dr. MacCoss is professor in the Department of Genome Sciences, University of Washington, Seattle.

2015 RESEARCH AWARDS Award Presentation: 4:45 pm, Tuesday, Hall 5

The Research Awards are fully funded by Thermo Scientific and Waters Corporation in the amount of \$35,000 each.

Sponsored by THERMO SCIENTIFIC



Michael Bereman North Carolina State University

Sponsored by
Waters Corporation



Alexander Ivanov
Northeastern University

ASMS AWARDS



2015 POSTDOCTORAL AWARDS

AWARD PRESENTATION: ASMS MEETING, 4:45 PM, WEDNESDAY, BALLROOM 222/224

Three awards in the amount of \$10,000 each are intended to promote the professional career development of postdoctoral fellows in the field of mass spectrometry. Activities funded by these awards include conference and workshop attendance, travel to other mass spectrometry laboratories, purchase of books and/or software. The awards are open to ASMS members who are postdoctoral fellows within three years of completing a Ph.D. or equivalent degree. Applicants must be currently appointed as a postdoctoral fellow in North America (e.g., in academia, industry, a government or national laboratory or at a research institute). Details and an application are posted to asms.org.



Martin Paine
Georgia Institute of Technology



Valentina Pirro
Purdue University



Gloria Sheynkman Harvard Medical School

STUDENT AWARDS

AWARD PRESENTATION: ASMS MEETING, 4:45 PM, WEDNESDAY, BALLROOM 222/224

2015 inaugurates two student conference travel awards. There are seven awards of \$1,000 for graduate students and ten awards of \$500 for undergraduates. Applications and details for these awards are posted to asms.org. The deadline for submission is January 15.

GRADUATE STUDENT AWARDS

Benjamin Diner Princeton University

Albert Konijnenberg University of Antwerp

Xin Liu University of Notre Dame

Mandy Phelps University of North Texas

Nicholas Riley University of Wisconsin-Madison

Vincent Sica University of North Carolina-Greensboro

Chih-Chiang Tsou University of Michigan

UNDERGRADUATE STUDENT AWARDS

Quintin FerrarisKean University

Joshua Fischer Wayne State University

James Keating University of Michigan

James Matilla James Madison University

Danielle McDougall University of Florida

Haley Miller Bowdoin College

Sydney Morris George Washington University

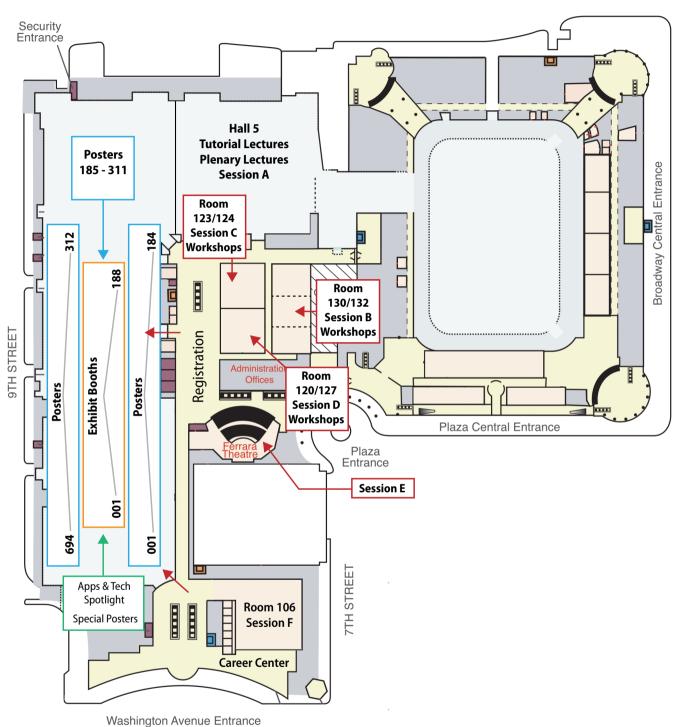
Alexandra Plaviak Duquesne University

Cheylene Tanimoto Stanford University

Nick van Huizen Erasmus MC

BROADWAY AVENUE

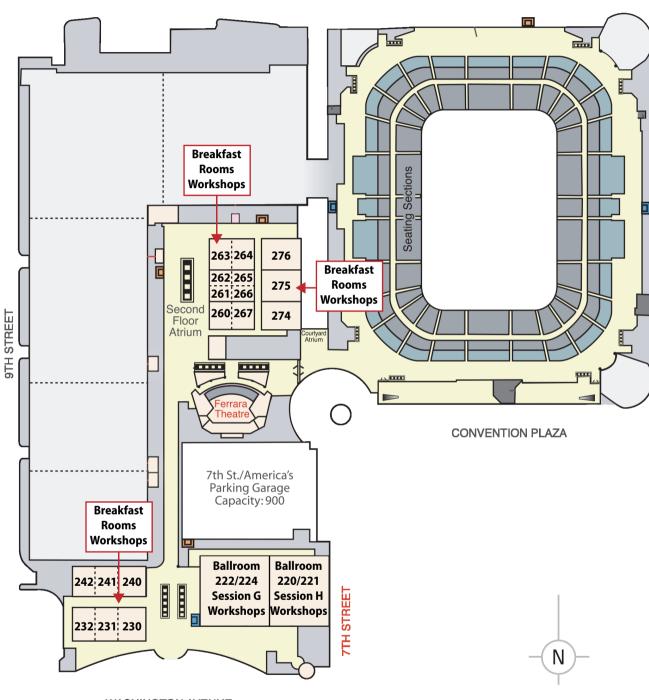
COLE STREET



WASHINGTON AVENUE



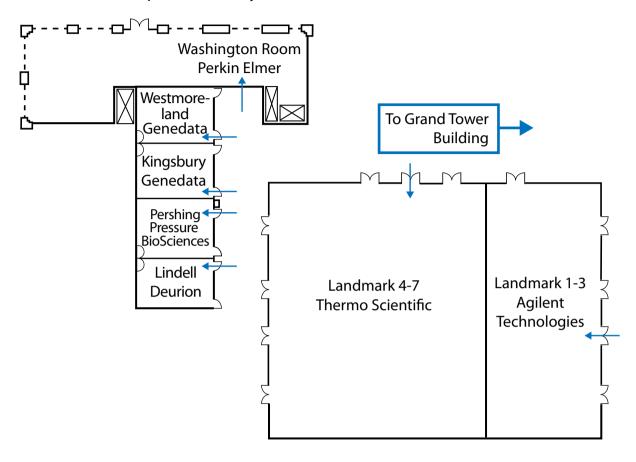
COLE STREET



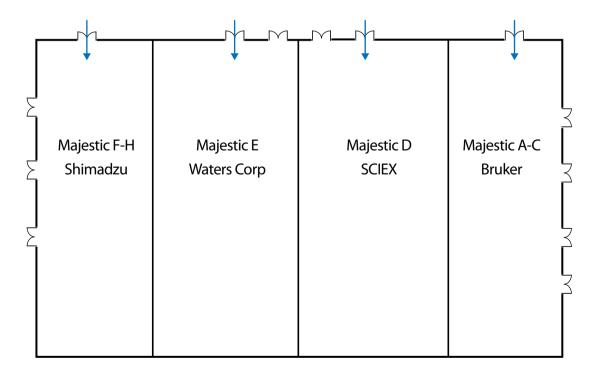
WASHINGTON AVENUE



Ballroom Complex - Lobby Level



Ballroom Complex - Second Floor





COMPANY	POSTER / LIBRARY	воотн	SUITE IN RENAISSANCE HOTEL	BREAKFAST
ACS Publications	Library			
Advanced Chemistry Development (ACD/Labs)	Poster	83		Room 242, Monday (6/1)
Advanced Chromatography Technologies Ltd		52		
Advanced Energy		19		
Advion Inc.		171		
Agilent Technologies	Poster	141	Landmark 1-3	Room 276, Mon - Wed (6/1 - 6/3)
AIM Research Company		106		
American Pharmaceutical Review	Library			
Amsterdam Scientific Instruments		36		
Analytical Sales and Services, Inc.		22		
Anasys Instruments		32		
Antec	Poster	61		
Apricot Designs, Inc.		155		
Ardara Technologies LP	Poster	103		
Atlas Antibodies AB		107		
Avanti Polar Lipids, Inc.		79		
BaySpec, Inc.		97		
BIOCRATES Life Sciences AG		102		
Biognosys		132		
Bioinformatics Solutions Inc.	Poster	151		
BioPharma Services, Inc.		54		
Biotage		121		Room 231, Tuesday (6/2)
Biotech Support Group		73		
Bruker Daltonics		40	Majestic A-C	Room 263/264, Mon - Wed (6/1 - 6/3)
Busch Vacuum Pumps and Systems		48		
CAMAG Scientific, Inc.		145		
Cambridge Isotope Labs		179		
Canadian Life Science	Poster	162		
CAS		55		
Cayman Chemical Company		175		
Cell Signaling Technology		51		
Cerilliant	Poster	33		
Cerno Bioscience		178		
CovalX		81		
CSS Analytical Co. Inc.		11		
CTC Analytics AG		117		
Denator AB		146		
Detector Technology, Inc.		27		



COMPANY	POSTER / LIBRARY	воотн	SUITE IN RENAISSANCE HOTEL	BREAKFAST
Deurion			Lindell	
Dikma Technologies, Inc		68		
Drummond Scientific		105		
Edwards Vacuum		114		
Elforlight Ltd.		12		
EMD Millipore		84		Room 240, Tuesday (6/2)
EPREP		62		
ES Industries		136		
ESI Source Solutions		50		
ETP Electron Multipliers		44		
Excellims Corporation	Poster	59		
Exelis	Poster	87		
Expedeon		126		
Extrel		38		
FLIR Systems, Inc.	Poster	37		
Fluid Management Systems	Poster	10		
Fortis Technologies Ltd	Poster	177		
GAA Custom Engineering	Poster	3		
Genedata		119	Westmoreland/ Kingsbury	
Genetic Engineering & Biotechnology News	Library			
Genovis	Poster	90		
GenTech Scientific, Inc.		17		
GERSTEL, Inc.	Poster	94		
GL Sciences Inc.		39		Room 265/266, Tuesday (6/2)
Glygen Corp.		99		
Golden West Biologicals, Inc.		158		
Hamamatsu Corporation	Poster	148		
Hamilton Robotics		71		
Harvard Apparatus				
Hecate Software, Inc.		3		
Horizon Technology, Inc.		77		
HTX Technologies, LLC		78		
Hudson Surface Tech	Poster	35		
iChrom Solutions		9		
IDEX Health & Science	Poster	180		
iLab Solutions		6		
Imtakt USA		159		
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PROGRAM ACKNOWLEDGEMENTS





Vicki H. Wysocki
The Ohio State University
Vice President for Programs

STUDENT ASSISTANTS

Graduate students and postdoctoral fellows assist with many aspects of the conference, including registration, oral and poster sessions, and the employment center. The students each receive a stipend to help with their conference travel expenses.

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SATURDAY

9:00 AM - 4:30 PM	SHORT COURSES
2:00 - 5:00 РМ	REGISTRATION

2:00 - 5:00 рм	REGISTRATION		
	Sunday		
9:00 ам - 4:30 рм	SHORT COURSES		
10:00 ам - 8:00 рм	REGISTRATION		
4:00 - 4:45 PM	ATTENTION: FIRST-TIME GRADUATE STUDENTS AND UNDERGRADUATE STUDENTS Plan your Strategy: What to See and Do at ASMS		
5:00 - 6:30 рм	Tutorial Lectures, Hall 5, level 1		
	5:00 - 5:45 pm Statistical Experimental Design: The Building Blocks of a Good Experiment Ann L. Oberg Mayo Clinic		
	5:45 - 6:30 pm Metabolite Profiling at the 'Omic' Scale: Untargeted Does not Mean Unplanned Gary Patti Washington University, St Louis		
6:45 - 7:45 РМ	Conference Opening, Hall 5, level 1 Vicki Wysocki, ASMS Vice President for Programs		
	7:00 - 7:45 pm The Human Gut Microbiome and Healthy Growth Jeffrey L. Gordon Washington University St. Louis School of Medicine		
7:45 - 9:00 PM	RECEPTION IN THE POSTER/EXHIBIT HALL		

Undergraduate Student Poster Competition

7:45 - 9:00 PM



MONDAY

7:30 ам - 5:00 рм	REGISTRATION
8:30 - 10:30 ам	 ORAL SESSIONS MOA am: Instrumentation: New Developments in Ionization & Sampling, Hall 5 MOB am: Informatics: Algorithmic and Statistical Advances, Room 130/132 MOC am: Protein Complexes: Activation & Dissociation, Room 123/124 MOD am: Glycopeptides and Glycoproteins, Room 120/127 MOE am: Metabolomics: New MS Technologies and Applications, Theater MOF am: Quantitative Proteomics in Systems Biology/Cellular Pathway Analysis, Room 106 MOG am: Energy, Petroleum, & Biofuels: Advances in MS Design & Informatics, Ballroom 222/224 MOH am: Advances in Software and Hardware to Improve DMPK Workflows, Ballroom 220/221
10:30 ам - 2:30 рм	Poster Session and Exhibits, Poster/Exhibit Hall, level 1 Monday posters 11:30 – 1:00 pm: Undergraduate students – look for reserved tables and free lunch vouchers to Meet the Experts
2:30 - 4:30 рм	 ORAL SESSIONS MOA pm: Ion Mobility, FAIMS & DMS: New Developments & Applications, Hall 5 MOB pm: Informatics: Metabolomics, Room 130/132 MOC pm: Top-Down Protein Analysis, Room 123/124 MOD pm: Plant-omics, Room 120/127 MOE pm: Clinical Diagnostics, Theater MOF pm: PTMs: Advances in Isolation, Enrichment, Derivatization & Separation, Room 106 MOG pm: Imaging: Biomedical Applications, Ballroom 222/224 MOH pm: Quantitative Analysis in Drug Discovery for Small Molecules, Ballroom 220/221
4:45 - 5:30 рм	Award Lecture, Hall 5, level 1 Award for a Distinguished Contribution in Mass Spectrometry Brian T. Chait The Rockefeller University
5:45 - 7:00 рм	Workshops There are light refreshments in common areas. 01. Has Photoionization Reached its Potential? Focus on APPI, Room 130 02. Enabling Proteomics Informatics on the Amazon Cloud, Room 131 03. Advanced MS and Separation Approaches for Biofuels and Petroleum, Room 132 04. The Galaxy Framework for MS-based Informatics, Room 123/124 05. Defining Resolution in Imaging MS - A Quest for Solid Ground, Room 120/127 06. Ion Traps: New Experiments and Old Tricks, Room 260/267 07. Metal Cationization of Biomolecules and its Analytical Applications, Room 274 08. Methods and Tools for Intra- and Inter-Experiment LC MS Performance Tracking, Room 275 09. Challenges and progress towards the Site-Specific Characterization of Glycoprotein Heterogeneity, Room 230 10. Mass Spectrometry Applications in Art, Cultural Heritage, and Natural History, Room 231 11. More DMPK Knowledge from Less Sample: Leveraging Modern LC-MS Instruments for Small Sample Amounts, Room 232 12. Metabolomics: Emerging Technologies for Continued Innovation, Ballroom 222/224 13. Which Career Path is Right for Me? Ballroom 220/221
7:00 - 8:00 PM	DINNER BREAK



TUESDAY

	TUESDAY
7:30 AM - 5:00 PM	REGISTRATION
8:30 - 10:30 AM	 ORAL SESSIONS TOA am: Instrumentation: Time-of-Flight and QTOF, Hall 5 TOB am: Informatics: Multi-omics Integration, Room 130/132 TOC am: Imaging: Instrumentation & Method Development, Room 123/124 TOD am: Membrane Proteins, Room 120/127 TOE am: Lipidomics: New MS Technologies and Applications, Theater TOF am: Phosphoproteomics in Disease, Room 106 TOG am: Emerging Environmental Contaminants, Ballroom 222/224 TOH am: LC-MS Approaches to Combine Translational PK/PD Biomarkers with Small Molecule ADME Workflows, Ballroom 220/221
10:30 ам - 2:30 рм	Poster Session and Exhibits, Poster/Exhibit Hall Tuesday posters
2:30 - 4:30 рм	 ORAL SESSIONS TOA pm: New Developments in High Resolution and Mass Accuracy, Hall 5 TOB pm: Data Independent Acquisition: Innovative Methods and Applications, Room 130/132 TOC pm: Ion Spectroscopy, Room 123/124 TOD pm: Proteomics: Infectious Disease, Room 120/127 TOE pm: Lipids and Profiling, Theater TOF pm: Protein-Protein and Protein-Ligand Interactions, Room 106 TOG pm: Environmental MS: Instrumental Challenges and Solutions, Ballroom 222/224 TOH pm: Imaging: Pharmaceuticals and Metabolites, Ballroom 220/221
4:45 - 5:30 рм	Award Lecture, Hall 5, level 1 Biemann Medal Michael J. MacCoss University of Washington
5:45 - 7:00 рм	 Workshops There are light refreshments in common areas 01. Laboratory Developed Test Guidance and Mass Spectrometric Diagnostics: Impact and Expectations, Room 130 02. Current Trends, Gaps, and Needs in Workflows for Targeted Protein Quantitation by LC/MS, Room 131 03. ProteomicsDB, Room 132 04. FTMS: MS/MS at High Resolution, Room 123/124 05. Identifying Tandem Mass Spectra of Lipids and Carbohydrates, Room 120/127 06. MS Analysis of Antibody-Drug Conjugates, Room 260/267 07. Measuring the Exposome: Strategies and Preliminary Results, Room 274 08. Advancements and Discussion of Mass Spectrometry Technology and Challenges within the Polymer and Material Fields, Room 275 09. The ABCs of Being a Great Reviewer for Scientific Journals, Room 230 10. How to Network without Really Trying, Room 231 11. Room 232 12. Invalidating your Cores Data: Examples on How to Check your Data and Report Results and Communicate Invalid or Bad Results to your Customers, Room 222/224 13. How Can Ion Mobility Spectrometry Separations Help your Research? Room 220/221
7:00 - 8:00 рм	DINNER BREAK
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, Renaissance Grand Hotel



WEDNESDAY

	WEDNESDAY
7:30 ам - 5:00 рм	REGISTRATION
8:30 - 10:30 ам	 ORAL SESSIONS WOA am: Ambient and Atmospheric Pressure Generation of Multiply-Charged Ionic Species, Hall 5 WOB am: Informatics: PRM & DIA, Room 130/132 WOC am: Ion Mobility: Structures, Room 123/124 WOD am: Carbohydrates, Room 120/127 WOE am: FT, Ion Traps, and Hybrid Instruments, Theater WOF am: Mass Spectrometry in Structural Biology, Room 106 WOG am: Epigenetic Modifications and Mechanisms, Ballroom 222/224 WOH am: Application of Stable Isotope Labeling in MS Analysis of Small Molecules and Proteins, Ballroom 220/221
10:30 ам - 2:30 рм	Poster Session and Exhibits, Poster/Exhibit Hall Wednesday posters
2:30 - 4:30 рм	 ORAL SESSIONS WOA pm: Ambient Ionization: Instrumentation & Applications, Hall 5 WOB pm: Informatics: Protein Identification and Quantification, Room 130/132 WOC pm: Reactions, Dynamics & Theory of Gas Phase Ions, Room 123/124 WOD pm: Nucleic Acids, Room 120/127 WOE pm: Food Chemistry and Safety, Theater WOF pm: H/D Exchange: Technologies and Applications, Room 106 WOG pm: Energy, Petroleum, & Biofuels: Sample Preparation & MS Interface Design, Ballroom 222/224 WOH pm: Antibodies and Anti-body Drug Conjugates, Ballroom 220/221
4:45 - 5:30 рм	ASMS MEETING, Ballroom 222/224, level 2 Awards, board reports, wine, beer, soft drinks - and more!
5:45 - 7:00 рм	 Workshops There are light refreshments in common areas. 01. The Role of High Resolution Mass Spectrometry in the Regulatory Environment, Room 130 02. Emerging Contaminants for Emerging Scientists, Room 131 03. Mass Spectrometry Instrumentation at the Forefront of Technology as Miscible Tools for Forensic and Security Evidence, Room 132 04. Gas-Phase Ion Chemistry: Thermodynamics, Kinetics, Structures and Spectroscopy, Room 123/124 05. Emerging Technologies Advancing Mass Spectrometry Research: 3D Printing, Room 120/127 06. CHORUS - A Community Solution for the Storage Visualization, Sharing, and Analysis of Mass Spectrometry Data on the Cloud, Room 260/267 07. The Big Fat Questions: The Future for Lipidomics in Cell Biology and Clinical Diagnostics? Room 274 08. Characterization of Protein Therapeutics by Mass Spectrometry, Room 275 09. Getting the Most out of Undergraduate Research in Mass Spectrometry, Room 230 10. Working with Federal Agencies to Obtain Research Support: Mock NIH Study Section and Q&A with Agency Staff, Room 231 11. Room 232 12. Ligand Binding Assays (LBA) and LC-MS/MS Integrated Antibody-Drug Conjugate (ADC) Bioanalysis -Immuno-capture LC-MS/MS Hybrid Assays: Challenges, Solutions, and Complementarity with LBA, Ballroom 222/224 13. Hydrogen-Deuterium Exchange, Covalent Labeling and Crosslinking, Ballroom 220/221
7:00 - 8:00 рм	DINNER BREAK
AFTER 8:00 PM	CORPORATE HOSPITALITY SUITES, Renaissance Grand Hotel



THURSDAY

7:30 AM - 5:00 PM	REGISTRATION
8:30 - 10:30 AM	 ORAL SESSIONS ThOA am: Mini/Portable/Fieldable MS, Hall 5 ThOB am: Informatics: Peptide Identification and Quantification, Room 130/132 ThOC am: New and Developing Ion Activation Methods, Room 123/124 ThOD am: Nano-Scale & Microfluidic Separations & MS, Room 120/127 ThOE am: Structure/Reactivity and Energetics of Gas-Phase Ions and Complexes, Theater ThOF am: MS in Protein Footprinting: Michael Gross 75th Birthday, Room 106 ThOG am: Targeted Quantification of Proteins & Post-Translational Modifications, Ballroom 222/224 ThOH am: Ion Mobility: Small Molecules, Pharmaceuticals, and DMPK, Ballroom 220/221
10:30 ам - 2:30 рм	Poster Session and Exhibits, Poster/Exhibit Hall Thursday posters
2:30 - 4:30 рм	 ORAL SESSIONS ThOA pm: MS in Surgery, Hall 5 ThOB pm: Mulit-PTMs: Comprehensive Analysis, Room 130/132 ThOC pm: Peptide Fragmentation and Peptidomics, Room 123/124 ThOD pm: Forensic Applications, Room 120/127 ThOE pm: Synthetic Polymers, Theater ThOF pm: Chemical Cross-linking and Covalent Labeling, Room 106 ThOG pm: Ecological and Human Health Environmental Chemistry and Toxicology, Ballroom 222/224 ThOH pm: Applying New LC/MS Techniques to Solve Challenging Drug Metabolism Problems, Ballroom 220/221
4:45 - 5:30 рм	PLENARY LECTURE, Hall 5, level 1 The Evolution of Modern Neurosurgery: A History of Trial and Error, Success and Failure G. Michael Lemole, Jr. The University of Arizona College of Medicine
6:30 - 9:00 рм	CLOSING EVENT, City Museum. Ticket required



There are light refreshments in common areas.

MONDAY WORKSHOPS, 5:45 - 7:00 PM

01. Has Photoionization Reached its Potential? Focus on APPI Photoionization Interest Group Ralf Zimmerman and Jack Syage presiding Room 130

This will be the third year for a Photoionization (PI) workshop. Previous ones were very successful with strong turnout and varied and vigorous discussions. There are two flavors of photoionization currently being practiced today: (1) atmospheric pressure photoionization (APPI) is a commercial technology and practiced mostly on LC/MS instrumentation though there are vibrant growing new applications in direct ambient analysis, GC/MS and direct vapor (or vaporized) sample analysis. (2) Vacuum photoionization more commonly referred to as single-photon ionization (SPI) involves VUV light sources including lasers that ionize sample inside the vacuum chamber and is more of a research tool for studying spectroscopic properties of molecules, but also finding powerful applications in air monitoring particularly pollutant monitoring such as vehicle or flue exhaust.

In this third year we will focus on the topic of whether PI has reached its potential. This is an important topic because there are strong opinions that it is not used as much as its benefits warrant due to the entrenched use of common commercial ionization sources such as ESI and APCI. One can say that PI is late to the game. On the other hand PI and APPI are finding unique uses in high volume applications, most specifically explosives detection in security environments for its unique benefits that are not provided by competing ionization methods.

We have gotten some feedback discouraging us from trying to include both APPI and SPI topics because they are practiced by very different groups of users. So Ralf and I have decided to emphasize one or the other on alternate years. Not totally exclusive, but a strong emphasis and this year the emphasis will be on APPI.

02. Enabling Proteomics Informatics on the Amazon Cloud Eric Deutsch, Luis Mendoza, David Shteynberg presiding Room 131

The workshop will begin with a basic overview of the Trans-Proteomic Pipeline (TPP) and its newest features including new compute cloud concepts and services, primarily those offered by Amazon Web Services (AWS). We will describe the amztpp platform, which facilitates the usage of AWS in the context of database searching using open-source engines as well as validation and analysis via the TPP; we will also conduct a live demo of the software. During the evening, we will conduct an open discussion on what other software tools and pipelines the community feels should be integrated into the amztpp infrastructure (e.g. RNA-Seq analysis, SWATH data processing), and how to best provide an API and framework for others to incorporate their own tools that they wish to launch on the cloud.

03. Advanced MS and Separation Approaches for Biofuels and Petroleum Energy, Petroleum & Biofuels Interest Group Patrick Hatcher presiding Room 132

04. The Galaxy Framework for MS-based Informatics Tim Griffin presiding Room 123/124

The Galaxy framework for informatic workflow management has emerged as a useful tool for informatics and analysis of biological MS data. Originally focused on genomic informatics, Galaxy enables deployment of disparate software programs into a user-friendly environment, where software tools can be integrated into useful workflows. Once developed, the complete workflows and software tools can be easily shared with other Galaxy users. Given these advantages, Galaxy has great potential to solve a variety of informatics challenges in biological MS.

This workshop will provide attendees a look at some emerging applications in biological MS that are challenging to researchers, and where Galaxy offers an informatics solution. Informal presentations will be given by experts on these applications, with a focus on providing useful details on how these software and workflows can be accessed and used immediately. Audience questions and discussion on usability and other issues will be fielded and facilitated. An informal panel discussion with the presenters will follow the presentations.

Presenters and expected topics will include:

- Gerben Menschaert (Ghent University) "The Proteoformer Pipeline for RiboProfiling and MS-based Proteomics"
- Ira Cooke (La Trobe University)/Pratik Jagtap (University of Minnesota) - "Galaxy-based PeptideShaker tools and applications, with a focus on downstream applications"
- Shyamasree Saha (Queen Mary University of London) -"Targeted Proteomics tools in Galaxy"

Ample time will be offered for questions from attendees and discussion. Presenters will be available for an informal panel discussion in the final part of the workshop.

05. Defining Resolution in Imaging MS: A Quest for Solid Ground Imaging MS Interest Group Zoltan Takats and Vilmos Kertesz presiding Room 120/127

The central envisioned topic of the workshop will be "Spatial Resolution in Mass Spectrometry". Due to the recent introduction of a number of new technologies into Mass Spectrometric Imaging, a 'War of Numbers' broke out on the field, where individual research groups keep claiming better and better spatial resolution for their techniques or experimental setups. In order to establish a solid ground, the workshop makes an attempt to come up with a widely acceptable definition (and associated method of determining it!) for spatial resolution claimed in a scientific publication. Furthermore, we are planning to discuss the limitations on spatial resolution (and the associated relationship between sensitivity and resolution) in case of commercially available techniques. We are also planning to include a structural biology expert and end the workshop with a discussion on the concept of 'Necessary Resolution', i.e. the spatial resolution required to answer certain biological questions.

WORKSHOPS



MONDAY WORKSHOPS, 5:45 - 7:00 PM continued

Structure of the workshop is planned to follow these topics:

- Which resolution? the variety of definitions and protocols
- Discussion coming to a commonly acceptable definition
- Resolution of commercially available techniques trends and limitations
- The Necessary Resolution what feature resolution and sensitivity is needed for answering biological questions?
- Discussion Do MSI techniques meet these criteria?

06. Ion Traps: New Experiments and Old Tricks Ion Trap MS Interest Group Dan Austin presiding Room 260/267

Short talks and group discussion will focus on two topics:

- 1. exciting new experiments
- tutorial/perspective talks about challenging aspects of trap design and operation.

07. Metal Cationization of Biomolecules and its Analytical Applications Metal Ion Coordination Chemistry Interest Group Benjamin Bythell and Alex Shvartsburg presiding Room 274

Mass spectrometry has been revolutionized since the 1980-s by the invention of soft sources such as electrospray ionization (ESI) and matrix-assisted laser desorption ionization (MALDI) that enabled intact ionization of increasingly large macromolecules. While ionization via attachment or withdrawal of one or more protons has been typical, addition of other charged groups (such as metal cations) is equally possible. Metalated biomolecules differ substantially from their protonated analogs in terms of isotopic distribution and thus MS spectral pattern, conformation, and hence ion mobility separation properties, and/or dissociation chemistry and consequently the products in MS/MS, which may have important analytical benefits. In particular, electron-transfer dissociation and similar direct mechanisms may fragment biomolecules cationized by a multiply-charged metal in a different manner than their polyprotonated analogs of same total charge. This workshop will encourage the discussion and adoption of novel analytical strategies that leverage metal cationization as an alternative to protonation in biological mass spectrometry.

08. Methods and Tools for Intra- and Inter-Experiment LC MS Performance Tracking LC/MS & Related Topics Interest Group Michael S. Bereman and Brent Dixon presiding Room 275

The liquid chromatography mass spectrometry interest group aims to provide a collaborative atmosphere for research scientists, applications chemists, biologists and mass spectrometrists to share/discuss concepts for successful technology application. A major effort in the LC MS/MS community is harmonization and application of quality control metrics to provide confidence and reproducibility in published laboratory results. The chair and co-chair will provide an interactive workshop with insights from experience while engaging the audience. Performance tracking is a key component of transferable science which is strengthened through quality metrics. Confidence in results both within and across experiments lends itself to further application of discoveries to current and future work.

With active input from the audience, the chair and co-chair will discuss methods for monitoring LC MS/MS performance including: acquisition method type (targeted vs. DDA), metrics monitored (fundamental ID free vs. ID metrics), frequency of evaluation, and type of standard employed (simple vs. complex). In addition, an emphasis will be placed on available tools and software for tracking LC MS/MS performance in a longitudinal fashion.

09. Challenges and Progress towards the Site-Specific Characterization of Glycoprotein Heterogeneity Ron Orlando presiding Room 230

An early step typically employed in the characterization of glycoprotein glycans involves the liberation of the glycans from the peptide backbone. While this process facilitates the characterization of the glycans, information on the glycan distribution at each site is lost. This workshop focuses on approaches that are used to characterize intact glycoproteins/glycopeptides so that information on the attachment points of each glycan is obtained. The discussion will include: "top down" approaches and enzymatic digestion(s) followed by gas-phase or solution phase separations both condensed and gas phase separations. The use of targeted SRM approaches will also be presented and discussed, as these allow site-specific heterogeneity to be determined in complex mixtures. Methods that permit isomeric structural determination, such as MSⁿ. will also be discussed.

10. Mass Spectrometry Applications in Art, Cultural Heritage, and Natural History Mehdi Moini presiding Room 231

The purpose of this workshop is to discuss the application of mass spectrometry (MS) to art and cultural heritage objects, as well as natural history specimens. This will be an interactive workshop in which various subjects relevant to the application of MS to art and natural history specimens will be discussed in a casual, dialog format. A preliminary list of topics include: 1) Analysis of proteinaceous and organic specimens such as silk and wool textiles, leather and animal guts objects, bone and tissues, ink, paper, paint, coatings, binders, and wood. 2) Analysis of the fundamental factors that cause degradation and aging of natural history and art objects; identification of their deterioration markers, using degradation markers as clocks for dating objects, and studying environmental factors that affect deterioration. 3) Application of MS to paleoorganic matter such as fossilomics, amino acid racemization, and ancient DNA. 4) Forensic archeology. 5) Determination of the authenticity of art objects.

11. More DMPK Knowledge from Less Sample: Leveraging Modern LC-MS Instruments for Small Sample Amounts DMPK Interest Group Mustafa Varoglu and Kevin Bateman presiding Room 232

Mass spectrometer performance has dramatically improved over the past several years, however sampling techniques for bioanalytical and drug metabolism studies have remained much the same. This DMPK-IG workshop will explore combining mass spectrometer improvements with microsampling of plasma, tissues and miniaturized assays to create better workflows to increase the quality of the DMPK data, and advance drug discovery and development projects. Topics to be explored by panel members and the workshop participants include microsampling blood for



MONDAY WORKSHOPS, 5:45 - 7:00 PM continued

plasma or dried blood spot analysis, the translational advantages of serial microsampling vs. traditional sampling methods and the ability to miniaturize assays. In addition, the opportunities for obtaining early tissue distribution data from low amounts of tissue either by homogenization or microdialysis in discovery vs. waiting for comprehensive imaging via MS-imaging or QWBA techniques will be examined. This workshop will explore the opportunities and barriers of leveraging the full abilities of our modern mass spectrometers to take advantage of limited sample amounts.

12. Metabolomics: Emerging Technologies for Continued Innovation Metabolomics Interest Group Sunia Trauger and Andrew Patterson presiding Ballroom 222/224

The workshop will begin with brief presentations to stimulate discussion among the workshop participants. Emerging tools to facilitate metabolomics research and new technologies will be discussed. The moderators will highlight 2-3 recent developments in the field and survey the audience for their opinions. A panel of

invited scientists with expertise in field will be available to answer questions posed by the moderators and attendees. The workshop will close with a discussion where attendees can ask questions of the panelists. Some of the topics addressed will be: (i) new software tools for post-processing of untargeted metabolomics data, (ii) innovative experimental designs (iii) shotgun approaches with ion mobility, and (iv) metabolite identification by *in silico* fragmentation.

13. Which Career Path is Right for Me? Young Mass Spectrometrists Interest Group Olga Friese and Dian Su presiding Ballroom 220/221

The workshop features a panel discussion on professional development. Topics will be focused on career planning and management, fundamental training, industrial internship, job search tools and interview strategies. The panel, consisting of representatives from government, industrial and academic organizations, will share their knowledge and practices on career prospects.

There are light refreshments in common areas.

TUESDAY WORKSHOPS, 5:45 - 7:00 PM

01. Laboratory Developed Test Guidance and Mass Spectrometric Diagnostics: Impact and Expectations Clinical Chemistry Interest Group Brain Rappold presiding Room 130

In July 2014, the Food and Drug Administration released draft guidance on the use of laboratory developed tests (LDT's). With few exceptions, the use of mass spectrometry testing in patient care is performed by LDT's. The guidance requirements will impact all aspects of mass spectrometric testing in the clinic, from therapeutic drug monitoring to companion diagnostics. Additionally, the proposed guidance will affect the evolution of new biomarkers and new testing, particularly that of multi-index analyte tests. Representatives from manufacturing, industry, regulatory bodies and advocacy groups will deliver brief presentations on their considerations of the proposed directives, followed by an open forum in which the expectations for the industry to deliver on the submission of analytical platforms and assays to the agency will be discussed.

02. Current Trends, Gaps, and Needs in Workflows for Targeted Protein Quantitation by LC/MS Nalini Sadagopan, Sue Abbatiello, and Dawn Dufield presiding Room 131

With increase in focus on biologic/biotherapeutic drugs by the pharmaceutical industry and also an increase in need for biomarkers (efficacy and safety) the deployment of LC-MS based techniques is on the rise primarily due to the speed in method development, and specificity of the technique. Scientists are finding new ways of doing sample prep to increase sensitivity/specificity, address reproducibility issues associated with enzymatic digestion and mass spectrometric methods to address specificity. The forum will provide a platform to share common themes, issues on these fronts and perhaps to surface newer needs in software, mass spec design, and automation.

We conducted this workshop at ASMS 2014 in Baltimore for the first time and was very successful. We sent out a survey with the participants prior to ASMS and the summary of the survey results were presented. We had about 150 attendees. Panel discussion with industry experts and thought leaders with the audience engagement was valuable. There was interest in continuing this workshop for 2015.

03. ProeomicsDB Bernhard Kuster and Mathias Wilhelm presiding Room 132

There is a growing landscape of various databases and repositories for MS and proteomics. In this workshop, we would like to present recent and future developments ProteomicsDB, a free, professionally developed solution to store and analyze mass spectrometry-based proteomics data. ProteomicsDB has a strong focus on functionality and secondary use of proteomics and mass spectrometry data. Following up on a successful workshop at ASMS 2014, we would like to encourage the involvement from the ASMS community, demonstrate typical use-cases for the web interface and API and describe our short and long-term plans.

04. FTMS: MS/MS at High Resolution FTMS Interest Group Nathan Kaiser and Don Smith presiding Room 123/124

The workshop will focus on the practical aspects of tandem MS coupled to high resolution FTMS instruments. FTMS enables tandem MS experiments that are only capable on high resolution instruments. Applications that highlight these unique advantages will be discussed, such as top-down mass spectrometry by electron based methods (ETD/ECD), photo dissociation (UVPD), and collisional based methods (CID/CAD). The workshop will be open for discussion on applications, instrumentation, method development, and data analysis for high resolution tandem MS.

WORKSHOPS



TUESDAY WORKSHOPS, 5:45 - 7:00 PM continued

05. Identifying Tandem Mass Spectra of Lipids and Carbohydrates Bioinformatics Interest Group Sangtae Kim and David Tabb presiding Room 120/127

In shotgun proteomics, the identification of tandem mass spectra is taken as a given, and database search algorithms have occupied center stage for two decades. Tandem mass spectra from lipids and carbohydrates, on the other hand, have enjoyed considerably less bioinformatics support. In this panel, the Bioinformatics Interest Group features an introduction to these classes of data from two researchers who have recently published algorithms to automate identification. Dr. Haixu Tang will discuss his efforts to recognize the structures of glycans and glycopeptides. Tomas Cajka will discuss the creation of the LipidBlast spectral library as a tool for recognizing lipids from LC-MS/MS experiments in multiple instrument platforms.

06. MS Analysis of Antibody-Drug Conjugates Pharmaceuticals Interest Group Shawna Hengel and Christine Gu presiding Room 260/267

Due to the success and of the 2013 and 2014 pharmaceutical interest group workshops, and continued interest in MS analysis of antibody-drug conjugates (ADCs), we propose a similar workshop for 2015. After a short informal presentation, less than ten minutes, the majority of the workshop would include an audience driven discussion with the opportunity to ask questions to a panel of experts. The organizers will have backup questions prepared for the panel to start or prompt the discussion if needed. The short presentation will provide an update on current workflows for ADC MS analysis and discuss details of the large range of characterization required for ADCs from initial MAb assessment to bioanalytical assay development. To identify potential panelists, gauge the level of interest of the ASMS community, and tailor the discussion we will send out a survey of open ended questions in April.

07. Measuring the Exposome: Strategies and Preliminary Results The Exposomic Interest Group Anthony Macherone and Skip Kingston presiding Room 274

Genome-wide association studies (GWAS) rarely report relative risks greater than 1.2 for significant SNPs and estimates determined via mining of published data reveal overall genetic risks of about 5% for cancer and 12% for heart disease. These data suggest that the majority of causative factors for chronic human disease is not genetic but rather exposures or some combination of exposures and the genome (G). The exposome (E) is defined as the lifetime sum of these external and internal exposures. Accordingly, 80% - 90% of chronic human diseases is determined by E and GxE (including epigenetics).

The exposome encompasses the other "omes." For example, when one measures the transcriptome, proteome, or metabolome, they are measuring a slice of the exposome. Moreover, the exposome seeks the causative factors of disease to mitigate and prevent disease from occurring. The exposome is therefore a quantity of critical interest if we are to discover the non-genetic causative factors of chronic human diseases in a comprehensive manner. Mass spectrometric and other technologies such as spectroscopy and remote ("smart") sensors will characterize the exposome in large, prospective cohorts and provide reliable information on

exposure-risk relationships. The exposome paradigm will facilitate the translation of applied research into educational, behavioral and policy-based, risk mitigating interventions.

This workshop will review mass spectrometric based assays designed to measure the exposome both from a discovery and from a targeted perspective and present real data from case / control studies for discussion.

08. Advancements and Discussion of Mass Spectrometry Technology and Challenges within the Polymer and Material Fields Polymer and Material MS Interest Group

Polymer and Material MS Interest Group Stephen Rumbelow and Gyorgy Vas presiding Room 275

This workshop will focus on updating the group on recent work and challenges faced in the various fields such as academic, government, and industry. The focus of this group is polymer and material analysis utilizing various mass spectrometric techniques for both characterization and quantitation of oligomeric species. This workshop will explore the various ways that polymers and materials are not only analyzed themselves but also how they interact with other materials such as patients, and different type of products such as packaging and medical devices.

09. The ABCs of Being a Great Reviewer for Scientific Journals Jenny Brodbelt presiding Room 230

The peer review process is a critical step in the evaluation of original scientific manuscripts. This workshop will cover the nutsand-bolts of the publication workflow with an emphasis on the peer review process. A panel of Editors will provide an inside look at how manuscripts are handled after submission, how reviewers are selected, and the role of the both authors and reviewers in the process. Tips for being a top reviewer will be covered, as well as how to become involved as a new reviewer.

10. How to Network without Really Trying: A Forum for Current (and Future) Mass Spectrometrists in Industry Lucinda Cohen presiding Room 231

Building on last year's successful "How to Succeed in Pharma without Really Trying" this workshop is designed to bring together mass spectrometrists from all environments including, but not limited to, mass spectrometry vendors, chemical, pharmaceutical, forensic and academic scientists. Attendees will be divided into small groups for break-out discussions on topics such as career transitions, work-life balance and mentoring. Participants will have the opportunity to rotate through these small group sessions in a "speed dating" format to discuss as many topics of interest as possible and enhance networking. Each small group will have an experienced scientist and facilitator. All are welcome. Attendees should bring business cards for distribution if possible.



TUESDAY WORKSHOPS, 5:45 - 7:00 PM continued

12. Invalidating your Cores Data: Examples on How to Check your Data and Report Results and Communicate Invalid or Bad Results to your Customers Analytical Laboratory Managers Interest Group Brett Phinney and Chris Colangelo presiding Ballroom 222/224

One of Richard Feynman's more famous quotes involved integrity of scientific data: "If you're doing an experiment, you should report everything that you think might make it invalid — not only what you think is right about it; other causes that could possibly explain your results; and things you thought of that you've eliminated by some other experiment, and how they worked — to make sure the other fellow can tell they have been eliminated."

This workshop will present strategies, examples (both good and bad) and discussion on how to report data from analytical core facilities to customers and collaborators including potential problems and caveats that might make the data invalid. Often this challenging aspect is overlooked and under appreciated. Collaborators often have only a cursory understanding of what you did and communicating what may be wrong with the data you generated can be daunting.

Examples presented during this workshop may include

Examples on communicating potential problems with your data

- How to temper expectations of collaborators when they get excited over initial results
- How to report inconclusive or odd results
- Examples on when your data was wrong and how you fixed it (or did not fix it)
- Examples where initial results conflict with subsequent results, and how you handled it

13. How Can Ion Mobility Spectrometry Separations Help Your Research? Ion Mobility Interest Group Stephen Valentine, Matthew Bush and Erin Baker presiding Ballroom 220/221

Over the last 20 years, ion mobility spectrometry (IMS) separations have been incorporated in many different instrument technologies such as DMA, FAIMS, drift tube IMS, traveling wave IMS, TIMS, SLIM, etc. With all of these different variations, many people have found confusion as to when to apply each technology. This workshop will focus on explaining several of the currently available IMS technologies and delve into the present applications being performed by each such as standalone IMS measurements and MS coupled metabolomic analyses, proteomic studies, and ion/ion reactions

There are light refreshments in common areas.

WEDNESDAY WORKSHOPS, 5:45 - 7:00 PM

01. The Role of High Resolution Mass Spectrometry in the Regulatory Environment Flavor Fragrance and Foodstuff Interest Group Walter Hammack and Tim Croley presiding Room 130

Last year the discussion centered around GC/MS, specifically high resolution options for GC/MS, which remains a staple of the food and food-related laboratories. This year, we propose to continue where we left off last year and focus on the role that high resolution mass spectrometry will play in the regulatory environment. The FDA has issued a guidance document for the use of high resolution data and a number of state and local labs are also beginning to look at HR data as a possible tool. In addition, a number of people are using the term, "non-targeted screening" and we would like to address this term, and, hopefully, come to a consensus on the use of this language. As in the past two years we intend to invite researchers from local, state, academic and government to share their experiences and then have a group discussion.

02. Emerging Contaminants for Emerging Scientists Environmental Interest Group Chris Gill and Marc Engel presiding Room 131

This workshop will consist of up to 5 brief presentations from undergraduates, graduates and first-time post-doc researchers from industry, government and academia. The workshop will provide a forum to discuss their work, goals and any problems (up to 5 slides maximum). The forum is aimed at providing positive mentoring and feedback from the working group for the new generation of environmental mass spectrometrists.

03. Mass Spectrometry Instrumentation at the Forefront of Technology as Miscible Tools for Forensic and Security Evidence Forensics and Homeland Security Interest Group Guido Verbeck and Glen Jackson presiding Room 132

Mass Spectrometry is arguably one of the most definitive techniques used to confirm the constituents of illicit drugs, energetic materials, urine, blood and other forensic evidence. It is because of the high sensitivity, high peak capacity, and low identification error that mass spectrometry has exploded into portable and imaging applications, as well as shotgun databasing of potential new illicit chemistries. The recent introduction of ambient ionization techniques—which differ somewhat from traditional GC/MS—has raised questions about the admissibility of different MS methods in courtroom battles. For example, are forensic and security applications of ambient ionization held to a different standard than GC/MS or LC/MS counterparts? When developing these instruments and applications. is there sufficient method validation conducted to provide sufficient confidence in analyses? In the proposed workshop, we offer a panel discussion of new mass spectrometric methods and technologies for forensics and security applications, and how we can satisfy the scientific and legal requirements in this important and rapidly developing area. We will also discuss the developments of mass spectrometric standards and recommendations in the various NIST-OSAC forensic science subcommittees.



WEDNESDAY WORKSHOPS, 5:45 - 7:00 PM continued

04. Gas-Phase Ion Chemistry: Thermodynamics, Kinetics, Structures and Spectroscopy Fundamentals Interest Group Jos Oomens and Alessandra Ferzoco presiding Room 123/124

The Fundamentals Interest Group has a long tradition of organizing the Fundamentals of Ion chemistry Workshop, which is well attended each year. We gladly extend this tradition at the upcoming ASMS conference.

As was commonly done at workshops in the recent past, we intend to invite several especially junior researchers to give a brief and informal presentation on their recent work (5 slides max). These short presentations should address unpublished work, work in progress and focus on aspects of the work such as unsolved questions, difficulties, mysteries, etc. The last slide should not so much contain conclusions, but rather open questions, which serve as introduction to a discussion on the subject. From previous experience, this usually leads to interesting, thoughtful and entertaining discussions, often providing novel insights to the presenter.

05. Emerging Technologies Advancing Mass Spectrometry Research: 3D Printing Vincent Sica and Vilmos Kertesz presiding Room 120/127

This workshop series concerns the use of technologies that support advancements in the field of mass spectrometry. With 3D printers becoming more accurate, reliable, and affordable, they are quickly finding their way into laboratories. This year's discussion will focus on the implementation of 3D printing to support mass spectrometry research.

A couple of 5-minute presentations showcasing applications of this technology will be followed by the discussion of the following topics:

- 1. Choice of hardware (Cost, Precision, Ease of use)
- 2. Choice of software (Design & Slicing)
- 3. Choice of material (Chemical compatibility, Durability, etc.)
- 4. Micro or macro applications (Are your prints designed for your lab or the MS community?)
- 5. Tips and tricks (Software or hardware related)
- What improvements to 3D printing are necessary to further impact MS (New filament types? Higher resolution? etc.)

These discussions aim to not only educate on how to improve their research through 3D printing, but also to spark ideas on what the future may bring to the growing technologies of both 3D printing and mass spectrometry.

06. CHORUS - A Community Solution for the Storage Visualization, Sharing, and Analysis of Mass Spectrometry Data on the Cloud Andrey Bondarenko, Michael MacCoss, Christine Wu, and Nathan Yates presiding

Room 260/267

The sharing, public dissemination, and analysis of mass spectrometry data has become a major challenge. We would like to present a community effort to provide a sustainable and professionally developed solution to the mass spectrometry field's needs. The application provides an intuitive graphical user interface specifically developed to organize and visualize mass spectrometry data. Data can be uploaded and kept private, shared with a group of collaborators, or made entirely public. Over the

last two years CHORUS has gained almost 1000 users and these users have placed >55,000 data files into the service. We are now in the process of releasing new tools that will enable the analysis of data stored within CHORUS and improving the interaction of our data with existing client and server tools.

We have received a lot of feedback from our users and we have used this feedback to alter our development efforts. We would like to discuss improvements made to CHORUS over the last year and what new analysis capabilities have and are being added. We will discuss our goals and get feedback from the community on our current and long-term priories.

07. The Big Fat Questions: The Future for Lipidomics in Cell Biology and Clinical Diagnostics? Lipids and Lipidomics Interest Group Stephen Blanksby and Christer Ejsing presiding Room 274

Innovation in mass spectrometry has fueled the rapid expansion of lipidomics research over the last decade. Increasingly powerful instrumentation and accompanying software tools are now available to wide range of researchers around the world. This workshop will reflect on some of the big research questions in cell biology, biotechnology and clinical medicine and ask whether current mass spectrometry-based lipidomics can underpin future breakthroughs in these disciplines. The discussion will be led by a panel of experts who will opine on current impediments to development in their respective fields. Panellists will challenge participants to consider how lipid mass spectrometry can breakthrough such roadblocks and drive innovation in biochemical understanding, clinical diagnosis or novel therapeutics. Conceptual discussion will then be facilitated on whether currently available lipid mass spectrometry approaches can provide these answers or whether new technology is required.

08. Characterization of Protein Therapeutics by Mass Spectrometry Biotherapeutics Interest Group Damian Houde, Alain Balland, and Jason Hogan presiding Room 275

This workshop will be a forum to discuss the current technical challenges and solutions for the characterization of protein therapeutics by mass spectrometry. Mass spectrometry is now used for protein characterization from discovery through product development. The workshop will lead off with a short background overview of a few topics ranging from protein modifications, higher-order structure characterization, protein batch comparability and biosimilarity, or protein production lot release to initiate a discussion. Recent advancements in instrumentation and software for data analysis and reporting may also be discussed.

09. Getting the Most out of Undergraduate Research in Mass Spectrometry Undergraduate Research in MS Interest Group Elaine Marzluff presiding Room 230

This panel discussion, aimed at undergraduate students and their mentors, will focus on helping undergraduate students leverage their undergraduate research in mass spectrometry into successful experiences in graduate school and industry.



WEDNESDAY WORKSHOPS, 5:45 - 7:00 PM continued

10. Working with Federal Agencies to Obtain Research
Support: Mock NIH Study Section and Q&A with Agency Staff
Charles G. Edmonds and Douglas M. Sheeley presiding
Room 231

12. Ligand Binding Assays (LBA) and LC-MS/MS
Integrated Antibody-Drug Conjugate (ADC)
Bioanalysis -Immuno-capture LC-MS/MS Hybrid Assays:
Challenges, Solutions, and Complementarity with LBA
Regulated Bioanalysis Interest Group
Jian Wang presiding
Ballroom 222/224

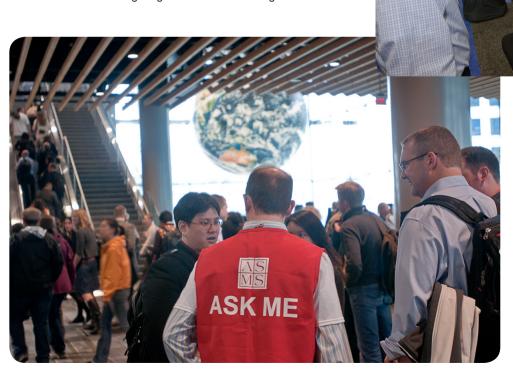
Antibody-drug conjugates (ADCs) consist of a cytotoxic drug covalently bound to an antibody (mAb) via a linker. The complex structure of ADCs presents unique bioanalytical challenges and requires novel strategies. Multiple analytes in the heterogeneous mixture may contribute to the efficacy and safety of ADCs. Four quantitative assays are considered essential, industry-wide, in ADC PK bioanalysis, (1) total-antibody, (2) conjugated-antibody, (3) conjugated-payload, and (4) unconjugated-payload. Immunocapture LC-MS/MS hybrid assays are required for the analysis of conjugated-payload and are viable alternatives or complementary to ligand binding assays (LBA) for the analysis of total-antibody and conjugated-antibody.

Each hybrid assay involves three essential experimental steps: capture, enzymatic cleavage or digestion, and LC-MS/MS detection. After the initial immuno-capture of the ADC, the conjugated-payload assays proceed with the cleavage of the payload using Cathepsin B enzyme and LC-MS measurement of the released payload, while the conjugated-antibody and total-antibody assays measure the signature peptides generated by trypsin digestion of the mAb. Immuno-capture with either anti-id or anti-payload capture reagents could be conducted using magnetic beads or cartridges formats.

This workshop will focus on current hybrid assay strategies, applications, and their complementarity to ligand binding assays. Technical details of hybrid assay development and validation will be discussed. The capability of hybrid assays to appropriately quantify mixtures of analytes with different Drug to Analyte Ratio (DAR) will be addressed as well.

13. Hydrogen-Deuterium Exchange, Covalent Labeling and Crosslinking Interest Group Joshua Sharp and David Weis presiding Ballroom 220/221

The workshop will provide a forum for discussing the latest HDX, covalent labeling and crosslinking methods for protein analysis. The program will provide an opportunity to discuss MS-based methods, data analysis routines and applications with the attendees. The goal of the program will be to stimulate discussion and convey useful experimental detail you can take back to your lab.



MOA am 09:30

MOB am 08:50



4:00 – 4:45 PM, SUNDAY

Attention First-time Graduate Students and Undergrads

Plan your Strategy: What to See and Do at ASMS

Elaine Marzluff and JC Poutsma, presiding

Ballroom 220/221

5:00 – 6:30 PM, SUNDAY TUTORIAL SESSION Vicki Wysocki (The Ohio State University) presiding Hall 5



5:00 – 5:45 pm Statistical Experimental Design: The Building Blocks of a Good Experiment

Ann L. Oberg Mayo Clinic



5:45 – 6:30 pm Metabolite Profiling at the 'Omic' Scale: Untargeted Does not Mean Unplanned

Gary PattiWashington University, St Louis

6:45 – 7:45 PM, SUNDAY
Conference Opening
Vicki Wysocki (The Ohio State University) presiding
Hall 5

Welcome, Vicki Wysocki ASMS Vice President for Programs



The Human Gut Microbiome and Healthy Growth

Jeffrey L. Gordon Washington University, St. Louis School of Medicine

7:45 – 9:00 PM, SUNDAY
WELCOME RECEPTION
Poster/Exhibit Hall
Conference name badge is required

8:30 – 10:30 AM, MONDAY MORNING INSTRUMENTATION: NEW DEVELOPMENTS IN IONIZATION AND SAMPLING

Peter Nemes (George Washington University) presiding Hall 5

Matrix Assisted Ionization: Enhancing Mass MOA am 08:30 Spectrometry through Proper Sampling Conditions on Small Portable to High Performance Mass Spectrometers; Sarah Trimpin^{1, 2}; Christian Reynolds^{1, 2}; Casey Foley¹; Shubhashis Chakrabarty^{1, 3}; Daniel Woodall¹; Jessica DeLeeuw¹; Joshua Fischer¹; Shameemah Thawoos¹; Zachary Devereaux¹; Bryan Harless¹; Claudio Verani¹: Mathew Allen¹: Thomas Sanderson²; Karin Przyklenk²; Paul Stemmer⁴; ¹Department of Chemistry, Wayne State University, Detroit, MI; 2Cardiovascular Research Institute. Wayne State Uni, Detroit, MI; 3MSTM LLC, Wayne State University, Detroit, MI; 4Institute of Environmental Health Science, WSU, Detroit, MI

MOA am 08:50 Infrared, Visible, and and Ultraviolet Laser
Ablation for High Spatial Resolution Sampling
Mass Spectrometry; Chinthaka A. Seneviratne;
Suman Ghorai; Kermit K. Murray; Louisiana State
University, Baton Rouge, LA

MOA am 09:10 Hybrid Optical Microscope/Laser Ablation
Liquid Capture Mass Spectrometry System
Providing Co-Registered Optical Bright Field,
Fluorescence and Mass Spectral Images; Gary
J. Van Berkel¹; John Cahill¹; Vilmos Kertesz¹;
Thomas Covey²; Julian Burke³; ¹Oak Ridge
National Laboratory, Oak Ridge, TN; ²ABSciex,
Concord, Ontario, Canada; ³Leica Microsystems
Group, Cambridge, UK

T-probe: a Novel Device to Implement Online

in situ single Cell Analysis Using Mass
Spectrometry; Renmeng Liu; Ning Pan; Zhibo
Yang; University of Oklahoma, Norman, OK
MOA am 09:50
Fabrication of Silica Multi-nozzle Emitters for
Multiple Electrospray Ionization by Selective
Etching of a Microstructured Fiber with Doped
Regions; Yueqiao Fu¹; Timothy Hutama¹; Graham
Gibson¹; Steeve Morency²; Jean-Francois Viens²;
Younes Messaddeq²; Richard Oleschuk¹; ¹Queen's
University, Kingston, Canada; ²COPL at Université

MOA am 10:10 Square-Wave Facilitated Electroosmosis in a Theta Glass nESI Emitter: Improved Turbulent Mixing on the Milliseconds Timescale; Christine Fisher; Ryan T. Hilger; Feifei Zhao; Scott A. McLuckey; Purdue University, West Lafayette, IN

Laval, Quebec City, Canada

8:30 – 10:30 AM, MONDAY MORNING
INFORMATICS: ALGORITHMIC AND STATISTICAL ADVANCES
Oliver Serang (Thermo Fisher Scientific) presiding
Room 130/132

MOB am 08:30 The Midpoint Mixed Model with a Missingness Mechanism: A Likelihood Based Framework for Relative Quantification of Mass Spectrometry Data; Jonathon O'Brien; Harsha P. Gunawardena; Bahjat Qaqish; University of North Carolina at Chapel Hill, Chapel Hill, NC

Comparative Study of Automated Feature Selection and Classification Techniques For Detection of Histological Features by Mass Spectrometry Imaging; Nazanin Zounemat Kermani¹; Ottmar Golf²; Sabine Guenther¹; Robert D. Goldin¹; James Kinross¹; Abigail V. M. Speller¹; Kirill Veselkov¹; Zoltan Takats¹; **Imperial College London, London, UK; **2 Justus Liebig University, Giessen, Germany

MONDAY MORNING ORAL SESSIONS



MOB am 09:10 Multi-species Identification of Polymorphic Peptide Variants via Propagation in Spectral Networks; Seungjin Na¹; Sam Payne²; Nuno Bandeira¹; ¹University of California, San Diego, La Jolla, CA; ²Pacific Northwest National Lab, Richland, WA

MOB am 09:30 Clustering Spectra Based on Fragment Rarity;

Matthew The; Lukas Käll; Royal Institute of
Technology - KTH, Stockholm, Sweden

MOB am 09:50 Improved Computational Demultiplexing for Data Independent Acquisition Data Acquired by MSX or with Overlapping Windows; Jarrett Egertson¹; Richard S. Johnson¹; Yue Xuan²; Philip M Remes³; Brendan Maclean¹; Gennifer Merrihew¹; Olga Vitek⁴; Vlad Zabrouskov³; Markus Kellmann²; Michael J. Maccoss¹; ¹Univ of Washington, Seattle, WA; ²Thermo Fisher Scientific, Bremen, N/A; ³Thermo Fisher Scientific, San Jose, CA; ¹Northeastern University, Boston, MA

MOB am 10:10 Improved Computational Analysis of Imaging
Mass Spectrometry Data through Sparse
Intensity Variation De-noising; Yousef El Aalamat¹.

2; Nico Verbeeck¹.²; Junhai Yang⁴; Bart De Moor¹.

2; Richard M. Caprioli⁴; Etienne Waelkens⁵.⁶; Raf
Van De Plas³.⁴; ¹KU Leuven, ESAT-STADIUS, 3001
Leuven, Belgium; ²iMinds Medical IT, 3001 Leuven,
Belgium; ³Delft University of Technology, Delft,
Netherlands; ⁴Vanderbilt University, Nashville, TN;

⁵KU Leuven, Dept. of Cellular and Molecular, 3000
Leuven, Belgium; ⁶KU Leuven, SybioMa, 3000
Leuven, Belgium

8:30 – 10:30 AM, MONDAY MORNING PROTEIN COMPLEXES: ACTIVIATION & DISSOCIATION Michal Sharon (Weizmann Institute of Science) presiding Room 123/124

MOC am 08:30 Assembly and Disassembly of Protein
Complexes Involved in Complement Activation
Monitored by Q-ToF and Orbitrap Analyzers with
Extended Mass Ranges; Guanbo Wang; Andrey
Dyachenko; Albert J.R. Heck; Utrecht University,
Utrecht, Netherlands

MOC am 08:50 On and Off: Probing Aβ Peptide Association with Aggregation Inhibiting Peptides and Small Molecules via Dissociation; Ashley S. Phillips¹; Harriet L. Cole²; Mark Taylor³; Isabel Riba-Garcia¹; Cait E. MacPhee²; Richard D. Unwin¹; Garth J. S. Cooper¹; David Allsop³; Perdita E. Barran¹; ¹University of Manchester, Manchester, UK; ²University of Edinburgh, Edinburgh, UK; ³University of Lancaster, Lancaster, UK

MOC am 09:10 Laser Activation of Soluble and Membrane
Protein Assemblies for Structural Biology; Victor
A. Mikhailoy; Idlir Liko; Todd Mize; Carol Robinson;
University of Oxford, Oxford, UK

MOC am 09:30 Surface Induced Dissociation Reveals
Substructural Information Consistent With
The Interfacial Analysis Of Protein Complexes;
Sophie R. Harvey; Royston S. Quintyn; Yang Song;
Jing Yan; Aniruddha N. Sahasrabuddhe; Vicki H.
Wysocki; The Ohio State University, Columbus,
Ohio

MOC am 09:50 Determining Iron-Binding Motifs in Biological Macromolecular Assemblies with IR-Induced Native Electron Capture Dissociation; Owen Skinner; Michael McAnally; Richard Van Duyne; Philip Compton; Neil L. Kelleher; Northwestern University, Evanston, IL

MOC am 10:10 Structural Interpretation of Gas-phase Protein
Unfolding: New Applications in Structural
Biology and Protein Engineering; Joseph
Eschweiler; Brandon Ruotolo; University of
Michigan, Ann Arbor, MI

8:30 – 10:30 AM, MONDAY MORNING GLYCOPEPTIDES AND GLYCOPROTEINS Xiaoping Hironowski (Biogen, Inc.) presiding Room 120/127

MOD am 08:30 Isotope Targeted Glycoproteomics (IsoTaG):
A Chemical Proteomics Platform for N- and
O-Glycopeptide Discovery; Christina Woo;
Anthony lavarone; Carolyn Bertozzi; UC Berkeley,
Berkeley, California

MOD am 08:50 Integrated Bottom-Up and Middle-Down
Glycoproteomics; Kshitij Khatri; Joshua Klein; Yi
Pu; Catherine E. Costello; Cheng Lin; Joseph Zaia;
Boston University. Boston. MA

MOD am 09:10 O-GlcNAc Modification Site-Specific
Characterization of ABL2 Produced from
a ΔNagZ E. coli Co-Expression System by
Tandem Mass Spectrometry; Kelin Wang¹;
Octavia Y. Goodwin¹; Fabrizio Donnarumma¹;
Behrooz Zekavat²; Touradj Solouki²; Megan A.
Macnaughtan¹; Kermit K. Murray¹; ¹Louisiana State
Univeristy, Baton Rouge, LA; ²Baylor Univeristy,
Waco. TX

MOD am 09:30 Glazer: An Integrated Software Platform for interpretation of N-glycopeptide MS/MS Data with Robust FDR Control, without ExD Dissociation; John Froehlich; Peter Warren; Richard Lee; Children's Hospital Boston, Boston,

MOD am 09:50 Analysis of the Cell Surface N-Glycoproteome by Integrating Metabolic Labeling, Copper-free Click Chemistry and LC-MS/MS; Johanna Smeekens; Weixuan Chen; Ronghu Wu; Georgia Institute of Technology, Atlanta, GA

MOD am 10:10 Top-down and Middle-Down CE-MS for Deep Characterization of Biopharmaceuticals with Glycan Heterogeneity: Identification of Interferon-β1 and Monoclonal Antibody Proteoforms; David R. Bush¹; Arseniy M. Belov¹; Li Zang²; Alexander R. Ivanov¹; Barry L. Karger¹; ¹Northeastern University, Boston, MA; ²Biogen Idec, Inc., Cambridge, MA

8:30 – 10:30 AM, MONDAY MORNING METABOLOMICS:

NEW MS TECHNOLOGIES AND APPLICATIONS lan Blair (University of Pennsylvania) presiding Theater

MOE am 08:30
MOE am 08:50
The Human Plasma REDOXOME: A Broad
Compendium of Oxidative Stress Biomarkers;
Mirriam Sindelar; Qiuying Chen; Darya Akimova;
Ronald G Crystal; Steven S Gross; Weill Medical
College of Cornell, New York, NY

MOE am 09:10 Metabolic Changes and Oxidative Stress
Pathways in a Novel Patient Derived IDH1-R132H
Mutant Oligodendroglioma Xenograft Assessed
by Mass Spectrometry Imaging; Guillaume
Hochart¹; Fred Fack²; Fabien Pamelard¹; Jonathan
Stauber¹; Simone. P. Niclou²; ¹ImaBiotech, MS
Imaging Dept., Loos, France; ²Luxembourg Institute
of Health, Luxembourg, Luxembourg

MONDAY MORNING ORAL SESSIONS



MOE am 09:30 Highly Reproducible and Robust LC-MS/MS Assay for Targeted Profiling of 180 Metabolites Using a Single HILIC Chromatography Method: Danijel Djukovic1; Jiangjiang Zhu1; Haiwei Gu1; Farhan Himmati¹; Daniel Raftery^{1, 2}; ¹University of Washington Medicine. Seattle. WA: 2Fred

Hutchinson Cancer Research Center, Seattle, WA MOE am 09:50 Simultaneous Targeted Quantification and **Untargeted Metabolomics of Meconium Steroid**

Content; Nathaniel Snyder; Alexander Frey; Bo Young Park; Drexel University, Philadelphia, PA

MOE am 10:10 Effect of Controlled Diet on Biomarker Measurements in the Clinic; Petia Shipkova; Serhiy Hnatyshyn; Michael Reily; Yi Luo; Rose Christian; Bristol Myers Squibb, Princeton, NJ

8:30 - 10:30 AM. MONDAY MORNING QUANTITATIVE PROTEOMICS IN SYSTEMS BIOLOGY/CELLULAR **PATHWAY ANALYSIS**

Lan Huang (University of California, Irvine) presiding Room 106

MOF am 08:30 PALM (Pulse Azidohomoalanine Labeling in Mammals) Analysis for Global Analysis of Newly-Synthesized Proteins in Animal Models of Disease; John Yates¹; Daniel Mclatchey¹; Yuanhui Ma¹; Reuben Shaw²; ¹The Scripps Research Institute, La Jolla, CA; ²The Salk Institute, LaJolla,

MOF am 08:50 Refining the Human Proteome: Integrated Analysis of Human Tissues by RNAseq, Proteomics, Phosphoproteomics and Antibodies; Hannes Hahne1; Dongxue Wang1; Björn Hallström²; Lihua Li¹; Anna Asplund³; Mathias Wilhelm¹; Harald Marx⁴; Frederik Ponten³; Mathias Uhlen²; Bernhard Kuster¹; ¹Technical University Munich, Freising, Germany; 2KTH Royal Institute of Technology, Stockholm, Sweden; 3Uppsala University, Uppsala, Sweden; 4University Wisconsin-

Madison, Madison, WI MOF am 09:10 An ORFeome-based, Mass Spectrometrydriven Human Protein Interaction Network;

> Edward L. Huttlin¹; Lily Ting¹; Raphael Bruckner¹; Fana Gebreab1; Melanie Gygi1; John Szpyt1; Stanley Tam¹; Gabriela Zarraga¹; Gregory Colby¹; Kurt Baltier1; Rui Dong2; Virginia Guarani1; Laura Pontano Vaites¹; Alban Ordureau¹; Ramin Rad¹; Brian Erickson¹; Martin Wuehr¹; Joel Chick¹; Bo Zhai¹; Deepak Kolippakkam¹; Julian Mintseris¹; Robert Obar¹; Tim Harris³; Sypros Artavanis-Tsakonas³; Mathew Sowa¹; Pietro DeCamilli²; Joao Paulo¹: J. Wade Harper¹: Steven Gygi¹: ¹Harvard Medical School, Boston, MA; ²Yale School of Medicine, New Haven, CT; 3Biogen Idec, Cambridge, MA

A Sentinel Protein Assay for the Simultaneous MOF am 09:30 Quantification of Cellular Processes: Martin

> Soste¹; Rita Hrabakova²; Stefanie Wanka³; Andre Melnik¹; Paul Boersema¹; Christian von Mering³; Paola Picotti¹; ¹ETH Zurich, Zurich, Switzerland; ²Academy of Sciences of the Czech Republic, Libechov, Czech Republic; 3University of Zurich,

Zurich, Switzerland

MOF am 09:50 Systems Biology Approach Reveals Drug Resistance Mechanism in Multiple Myeloma;

Junmin Peng: St. Jude Children's Research Hospital, Memphia, TN

Boanca; Zachary Lee; Laurence Florens; Michael

MOF am 10:10

Mapping the Sites of Interaction of a Hub Protein in a Transcription Factor Protein Interaction Network using the HaloTag; Charles Banks; Gina

Washburn: Stowers Institute for Medical Research. Kansas City, MO

8:30 - 10:30 AM, MONDAY MORNING **ENERGY, PETROLEUM, AND BIOFUELS: ADVANCES IN** MS DESIGN AND INFORMATICS Matthew Hurt (Chevron) presiding Ballroom 222/224

MOG am 08:30 Comparison of Atmospheric Solid Analysis **Probe with Other Atmospheric Pressure**

Ionization Sources by Ion Mobility-Mass Spectrometry using PetroOrg Software: Mathilde Farenc^{1, 5}; Yuri E. Corilo^{2, 3}; Priscila M. Lalli³; Eleanor Riches⁴; Ryan P. Rodgers²; Carlos Afonso¹; Pierre Giusti⁵: ¹University of Rouen. Mont Saint Aignan, FRANCE; 2National High Magnetic Field Laboratory, Tallahassee, FL: 3Future Fuels Institute. Tallahassee, FL; 4Waters Corporation, Wilmslow,

UK: 5TOTAL Refining and Chemicals, Gonfreville

l'Orcher, France

Dissociation of Petroleum Components using MOG am 08:50 Fourier Transform Ion Cyclotron Resonance Mass Spectrometry; Juan Wei; Simona Gherghel; Mark Barrow: University of Warwick. Coventry, UK

APCI and APPI-GC/MS-MS for Characterization MOG am 9:10 of the Macondo Crude Oil and the Oil Spill: Vladislav Lobodin^{1, 2}; Ryan P. Rodgers^{1, 2}; ¹National High Magnetic Field Laboratory, Tallahassee, FL;

²Future Fuels Institute, Tallahassee, FL

MOG am 09:30 Alicyclic Structures in Sediments and Kerogens: Potential Sources of Petroleum: Patrick Hatcher: Blaine Hartman; Nicole Didonato; Derek Waggoner;

Old Dominion University, Norfolk, VA

MOG am 09:50 Algae Biomass Characterization by Traveling Wave Ion Mobility Mass Spectrometry; Maíra Fasciotti¹; Ingrid Chastinet Ribeiro¹; Paulo Roque Martins Silva¹; Thays V. Monteiro¹; Gustavo H. M. F. Souza²; Julia Itacolomy da Silva¹; Romeu J. Daroda¹; Valnei S. Cunha¹; Claudia Maria Luz Lapa Teixeira³; Amarjit S. Sarpal¹; ¹INMETRO, Duque De Caxias, Brazil; ²Waters Coorporation, Rio de Janeiro. Brazil: 3National Institute of Technology,

INT, Rio de Janeiro, Brazil

MOG am 10:10 Identification of the Phenol Functionality in **Monomeric Lignin Degradation Products** via Negative Ion-Molecule Reactions with Diethylmethoxyborane; Hanyu Zhu; Hilkka Kenttämaa; Purdue University, West Lafayette, IN

> 8:30 - 10:30 AM, MONDAY MORNING ADVANCES IN SOFTWARE AND HARDWARE TO **IMPROVE DMPK WORKFLOWS** Hongying Gao (Pfizer, Inc.) presiding

Ballroom 220/221

MOH am 08:30 **Automated LC/MS Quantitation Method** Development Using a Hybrid Quadrupole-Orbitrap Mass Spectrometer; Jonathan L. Josephs; Keeley Murphy; Hongxia (Jessica) Wang; David Brant; Jamie K Humphries; Kristi Akervik; Nicholas Duczak, Jr; Mark Sanders; Thermo Fisher

Scientific, San Jose, CA

MOH am 08:50 Utilization of MassMetaSite for in vitro and in vivo Metabolite Identification of Complex Therapeutic Peptides; Heather Trexler¹; Kevin Bateman¹: Richard Gundersdorf¹: Fabien Fontaine²: Rodger Tracy¹; Kenneth Koeplinger¹; Ismael Zamora²; Mark Cancilla¹; ¹Merck & Co., West Point, PA; ²Lead Molecular Design, S.L., Sant Cugat Del

Valles, Spain



MOH am 09:10 Fully Integrated Novel IMS-QTof Informatics

Platform for Rapid Drug Screening and

Elucidation; Russell Mortishire-Smith¹; Jayne Kirk¹; Nick Tomczyk¹; Martin Palmer¹; Richard Denny¹; Alan Prile¹; Simon Cubbon¹; Yun Alelyunas²; Mark Wrona²; ¹Waters MS Technologies, Wilmslow, UK;

²Waters Corporation, Milford, MA

MOH am 09:30 A Novel Platform for Automated High-Throughput LC-MS/MS Analysis of *In Vitro* ADME and *In Vivo* ADME PK Samples; Andreas Luippold; Wolfgang Joerg; Klaus Klinder; Daniel Bischoff; Boehringer Ingelheim Pharma GmbH & Co

KG, Biberach, GERMANY

MOH am 09:50 Untargeted and Rapid Detection and Characterization of Modified Monoclonal

Antibodies using LC-TripleTOF and Multivariate Statistical Analysis; Ming Yao¹; Xu Wang²; Weiping Zhao¹; Li Ma¹; John T. Mehl¹; Yi Zhang²; Sahana Mollah²; W. Griff Humphreys¹; Mingshe Zhu¹;

¹Bristol-Myers Squibb, Princeton, NJ; ²AB SCIEX, Framingham, MA

MOH am 10:10 Advances in HRMS and in vitro Systems Provide an Option to Detect and Characterize Human Disproportionate Metabolites of Loratadine;

Ragu Ramanathan¹; Cornelia Smith²; Lakshmi Ramanathan²; Caroline Lee³; Helen Shen²; Zamas Lam²; ¹Pfizer, Groton, CT; ²QPS, Newark, DE; ³Ardea Biosciences, San Diego, CA

10:30 AM – 2:30 PM, MONDAY

MONDAY POSTER SESSION

Poster/Exhibit Hall

Lunch concessions are open 11:00 am – 2:00 pm

11:30 am – 1:00 pm Undergraduate Students

Meet the Experts at tables reserved for you.

MONDAY AFTERNOON ORAL SESSIONS

2:30 – 4:30 PM, MONDAY AFTERNOON ION MOBILITY, FAIMS & DMS: NEW DEVELOPMENTS AND APPLICATIONS		2:30 – 4:30 PM, MONDAY AFTERNOON INFORMATICS: METABOLOMICS Alexey Nesvizhskii (University of Michigan) presiding		
Melv	in Park (Bruker Daltonics, Inc.) presiding	MOD 0:00	Room 130/132	
MOA pm 2:30	Very Long Path Length High Resolution Ion Mobility Separations using Structures for Lossless Ion Manipulations (SLIM); Richard D. Smith; Ian K. Webb; Ahmed Hamid; Sandilya V. B. Garimella; Yehia M. Ibrahim; Aleksey V. Tolmachev;	MOB pm 2:30	Accurate Mass for Improved Metabolite Identification via High-Resolution GC/MS; Nicholas W. Kwiecien; Derek J. Bailey; Matthew J. P. Rush; Arne Ulbrich; Alexander S. Hebert; Michael S. Westphall; Joshua J. Coon; <i>University of Wisconsin, Madison, WI</i>	
	Spencer A. Prost; Gordon A. Anderson; Erin S. Baker; Pacific Northwest National Laboratory, Richland, WA	MOB pm 2:50	Exploring Correlation Networks for the Analysis of Metabolomics Data; Alla Karnovsky ¹ ; Sumanta Basu ² ; Bill Duren ¹ ; Charles Evans ¹ ;	
MOA pm 2:50	3D Printed Concentric Ring Drift Tube with Nanoelectrospray Ionization Source for ion Focusing, Separation, and Detection under	NOD 0.40	George Michailidis ¹ ; Charles Burant ¹ ; ¹ University of Michigan, Ann Arbor, MI; ² University of California, Berkeley, CA	
	Ambient Conditions; Zane Baird; Adam Hollerbach; R. Graham Cooks; Purdue University, West Lafayette, IN	MOB pm 3:10	Improving the Efficiency of Feature Annotation in Untargeted Metabolomics: Integrating Metabolic Pathway Analysis with XCMS and METLIN; Anna	
MOA pm 3:10	Improvement of Resolution and Peak Capacity for Differential Ion Mobility Spectrometry Scans using Linked Helium and Compensation Field Scans; Brandon G. Santiago; Rachel A. Harris; Gary L. Glish; The University of North Carolina at Chapel Hill, Chapel Hill, NC		Chen ^{1, 2} ; Rebecca Schugar ³ ; <u>Peter Crawford</u> ⁴ ; Gary Patti ^{1, 2} ; ¹ Washington University in St. Louis, St. Louis, MO; ² Washington University Medical School, St. Louis, MO; ³ Cleveland Clinic Lerner Research Institute, Cleveland, OH; ⁴ Sanford-Burnham Medical Research Institute, Orlando, FL	
MOA pm 3:30	A Polarizable Projection Approximation Method to Predict Molecular Cross Section for Use in Ion Mobility / Mass Spectrometry Studies.; Christian Bleiholder; Florida State University, Tallahassee, FL	MOB pm 3:30	Constructing MS ⁿ Mass Spectral Library for More Accurate Metabolite Identification; Xiaoyu Yang; Pedatsur Neta; Yuxue Liang; Stephen Stein; NIST, Gaithersburg, MD	
MOA pm 3:50	Differential Photofragmentation Patterns for Mobility Selected Glycans; Kelsey A. Morrison; Enamul H. Khan; Brian H. Clowers; Washington State University, Pullman, WA	MOB pm 3:50	Greazy: Open-Source Software for Automated Phospholipid MS/MS Identification; Michael Kochen¹; Matthew Chambers¹; Jerry Holman¹; Thomas Metz²; Alexey Nesvizhskii³; Susan T.	
MOA pm 4:10	Coupling FAIMS and LESA for the Analysis of Proteins Directly from Biological Substrates; Andrew Creese ¹ ; Joscelyn Sarsby ¹ ; Rian Griffiths ¹ ; Elizabeth Randall ¹ ; Alan Race ² ; Josephine Bunch ² ;		Weintraub ⁴ ; David Tabb ¹ ; ¹ Vanderbilt University, Nashville, TN; ² Pacific Northwest National Laboratory, Richland, WA; ³ University of Michigan, Ann Arbor, MI; ⁴ Univ. of Texas HSC, San Antonio, TX	
	Helen Cooper ¹ ; ¹ University of Birmingham, Birmingham, United Kingdom; ² The National Physical Laboratory, Teddington, N/A	MOB pm 4:10	Translating Molecular Information from HR Imaging MS data: towards Spatial Annotation of the Cellular Metabolome; Andrew D. Palmer ^{1,2} ; Eric Weaver ³ ; Marco Hennrich ¹ ; Jens Fuchser ⁴ ; Michael Becker ⁴ ; Anne-Claude Gavin ¹ ; Amanda B. Hummon ³ ; Theodore Alexandrov ^{1,5} ; ¹ EMBL Heidelberg, Heidelberg, Germany; ² University of Bremen, Bremen, Germany; ³ University of Notre Dame, Notre Dame, IN; ⁴ Bruker Daltonik GmbH,	

Bremen, Germany; 5SCILS, Bremen, Germany

MONDAY AFTERNOON ORAL SESSIONS



MOC pm 3:10

MOC pm 3:30

MOC pm 4:10

2:30 - 4:30 PM, MONDAY AFTERNOON **TOP-DOWN PROTEIN ANALYSIS**

Mark McComb (Boston University School of Medicine) presiding Room 123/124

Stochastic SILAC for Intact Protein Quantitation MOC pm 2:30 in Any Organism Using Any Growth Medium or Feed; Jared R. Auclair; Joseph Salisbury; Jeniffer

> Quijada; Jeffrey Agar; Northeastern University, Boston, MA

MOC pm 2:50 **Characterizing Protein Complexes and Mapping** their Surface and Interfacial Residues in One Native Top-Down MS Experiment with FTICR;

> Huilin Li; Rachel R. Ogorzalek Loo; Joseph A. Loo; University of California, Los Angeles, Los Angeles, CA **Detailed Characterisation of Photoactivatable**

Metallodrug Interactions with Peptides, Proteins, and DNA by High Resolution Tandem FT-ICR MS: Christopher A. Wootton; Andrea F. Lopez-Clavijo; Evyenia Shaili; Mark P. Barrow; Peter J. Sadler; Peter

B. O'Connor; University of Warwick, Coventry, UK Top-Down Proteogenomics of Pathogenic Helicobacter.; Egor Vorontsov^{1, 2}; Frédéric Fischer¹; Christian Malosse^{1, 2}; Hilde de Reuse¹; Julia

Chamot-Rooke^{1, 2}; ¹Institut Pasteur, Paris, France;

²CNRS, Paris, France

MOC pm 3:50 Integrated Proteogenomic Analysis of CompRef Breast Tumor Xenografts via Top-Down and

Bottom-Up Proteomics; Ioanna Ntai1; Richard Leduc¹; Ryan Fellers¹; Petra Erdmann-Gilmore²; Sherri Davies²; Jeanne Rumsey²; Bryan Early¹; Paul Thomas¹; Shunqiang Li²; Philip Compton¹; Matthew Ellis³; Kelly Ruggles⁴; David Fenyo⁵; Emily Boja⁶; Henry Rodriguez⁶; Reid Townsend²; Neil Kelleher¹; ¹Northwestern University, Evanston, IL; ²Washington University School of Medicine, St. Louis, Missouri; ³Baylor College of Medicine, Houston, TX; ⁴NYU Langone Medical Center, New York, NY: 5New York University, New York, NY; 6 National Cancer Institute,

Bethesda, MD

Intact Protein Profiling: On the Hunt for Wound Healing Factors; Giuseppe Infusini1; Condina Mark²; Jemma Evans³; Lois Salamonsen³; Andrew Webb1; 1Walter & Eliza Hall Institute, Parkville, Australia; ²Bruker, Preston, Australia; ³MIMR-PHI, Clayton, Australia

2:30 - 4:30 PM, MONDAY AFTERNOON **PLANT-OMICS**

A. Daniel Jones (Michigan State University) presiding Room 120/127

MOD pm 2:30 A Family-Wide Phosphoproteomic Study of Leucine-Rich Repeat Receptor-Like

Kinase Autophosphorylation in Arabidopsis thaliana; Srijeet Mitra1; Ruiquiang Chen1; Murali Dhundaydham¹; Xiaofeng Wang¹; Kevin Blackburn¹; Uma Kota¹; Michael Goshe¹; Daniel Schwartz²; Steven Huber³; Steven Clouse¹; ¹North Carolina State University, Raleigh, NC; 2University of Connecticut, Storrs, CT; 3University of Illinois,

MOD pm 2:50 Rapid and Comprehensive Proteome Profiling in

Plants; Catherine Minoque; Alicia Richards; Harald Marx; Dhileepkumar Jayaraman; Junko Maeda; Shanmugam Rajasekar; Michael S. Westphall; Michael R. Sussman; Jean-Michel Ane; Joshua J. Coon; University of Wisconsin, Madison, WI

MOD pm 3:10 Metabolic Interplay between the Asian Citrus Psyllid and its Profftella Symbiont: An

Achilles' Heel of the Citrus Greening Insect Vector; Michelle Cilia^{1, 2}; John Ramsey³; Richard S. Johnson⁴; Jason Hoki³; David Hall⁵; Frank

Schroeder3; Michael J. MacCoss4; 1United States Department of Agriculture, ARS, Ithaca, NY; ²Department of Plant Pathology, Cornell University, Ithaca, NY; 3Boyce Thompson Institute for Plant Research, Ithaca, NY: 4Univ of Washington, Seattle, WA: 5United States Department of Agriculture, ARS. Fort Pierce, FL

MOD pm 3:30 Integrating Multiple -omic Resources to Better Characterize Photosynthetic Diversity in

Constitutive and Facultative Crassulacean Acid Metabolism Plants; Paul Abraham¹; Hengfu Yin³; Timothy Tschaplinski1; Gerald Tuskan1; Xiaohan Yang¹; Bernard W. M. Wone²; Won Cheol Yim²; Karen A. Schlauch²; John C. Cushman²; Robert Hettich1; 1Oak Ridge National Laboratory, Oak Ridge, TN; ²University of Nevada, Reno, NV; 3Chinese Academy of Forestry, Zhejiang, China

Using Mass Spectrometry-Based Metabolomics MOD pm 3:50 for Chemotaxonomy Studies; Dominique Ardura; Oliver Fiehn; Genome Center, University of

California, Davis, CA

Chemical Isotope Labeling LC-MS for Profiling MOD pm 4:10 Spatial Distribution of Metabolites in Ginseng Roots; Chiao-Li Tseng; Liang Li; University of Alberta, Edmonton, Canada

2:30 - 4:30 PM, MONDAY AFTERNOON **CLINICAL DIAGNOSTICS**

Christine Snozek (Mayo Clinic) presiding

Theater

MOE pm 2:30 **Personalized Detection of Multiple Myeloma** Tumor Burden; Melissa Hoffman; Saavedra-Roman Luis; Sean Yoder; Rachid Baz; Kaaron Benson; Aunshka Collins; Robert Sprung; Jamie Teer; John

Koomen; Moffitt Cancer Center, Tampa, FL

MOE pm 2:50 Cerebrospinal Fluid Tau Phosphopeptides: **Detection, Quantitative Analysis and** Assessment for the Diagnosis of Neurological

Diseases; Nicolas R Barthélemy^{1, 5}; Christophe Hirtz1; Martial Seveno3; Susanna Schraen-Maschke²; Randall J Bateman⁵; Audrey Gabelle¹; François Becher⁴; Philippe Marin³; Sylvain Lehmann¹; ¹LBPC, IRMB, CHU Montpellier St. Eloi, Montpellier, France; 2Inserm, UMR 837, IMPRT, Lille, France; 3PPF, IGF, CNRS-UMR 5203, Inserm U661, Montpellier, France; 4CEA, iBiTec-S, SPI, LEMM, Gif-sur-Yvette, France; 5Washington University School of Medicine, St. Louis, MO

MALDI Imaging Classification of Tumors in MOE pm 3:10

Formalin-Fixed Paraffin-Embedded Tissues.; Rita Casadonte¹; Mark Kriegsmann²; Jan Hendrik Kobarg³; Dennis Trede³; Michael Becker⁴; Peter Maaß⁵; Sören-Oliver Deininger⁴; Katrin Friedrich⁶; Daniela Aust⁶; Christian Pilarsky⁶; Gustavo Baretton⁶; Mike Otto^{1, 7}; Jörg Kriegsmann⁷; ¹Proteopath GmbH, Trier, Germany; ²University of Heidelberg, Heidelberg, Germany; 3SCiLS GmbH, Bremen, Germany; 4Bruker Daltonik GmbH, Bremen, Germany; ⁵University of Bremen. Bremen, Germany; 6University of Dresden, Dresden, Germany; 7Center for Histology, Cytology and

Molecular Diagn, Trier, Germany

MOE pm 3:30 Analysis of Urinary Free Oligosaccharides for the Diagnosis of Lysosomal Storage Diseases

using UPLC-SRM; Rongrong Huang; Tim Wood; Greenwood Genetic Center, Greenwood, SC

MOE pm 3:50 MALDI-TOF Analysis of Whole Blood: Its Usefulness and Potential in the Assessment of HbA1c Levels in Diabetes Mellitus; Stephen J. Hattan1; Kenneth Parker1; Marvin Vestal1; David Herold³; Jane Yang⁴; Mark W Duncan²; ¹SimulTOF/

MONDAY AFTERNOON ORAL SESSIONS



MOE pm 4:10	VIC Instruments, Sudbury, MA; ² Univ. Colorado, School of Medicine, AURORA, CO; ³ VAMC/ UCSD, San Diego, CA; ⁴ UCSD, San Diego, CA Clinical Diagnostics of Rare Kidney Disease with UPLC-MS/MS; Finnur Eiriksson ^{1, 2} ; Hrafnhildur Runolfsdottir ¹ ; Vidar O. Edvardsson ³ ; Runolfur Palsson ^{1, 3} ; Margret Thorsteinsdottir ^{1, 2} ; ¹ University of Iceland, Reykjavik, Iceland; ² ArcticMass, Reykjavik, Iceland; ³ Landspitali, Reykjavik, Iceland	MOG pm 3:30	Brain Atlas; Nico Verbeeck ^{1, 2} ; Jeffrey Spraggins ⁴ ; Junhai Yang ⁴ ; Bart De Moor ^{1, 2} ; Richard M. Caprioli ⁴ ; Etienne Waelkens ^{5, 6} ; Raf Van de Plas ^{3, 4} ; ¹ ESAT-STADIUS, KU Leuven, Leuven, Belgium; ² iMinds Medical IT, Leuven, Belgium; ³ Delft University of Technology, Delft, Netherlands; ⁴ Vanderbilt University, Nashville, TN; ⁵ Dept. Cellular and Molecular Medicine, KU Leuven, Leuven, Belgium; ⁶ Sybioma, Leuven, Belgium Application of MALDI-MSI to Identify Biomarkers
PTMS:	:30 – 4:30 PM, MONDAY AFTERNOON ADVANCES IN ISOLATION, ENRICHMENT, DERIVATIZATION AND SEPARATION		of Radiation-Induced Lung Injury and Medical Countermeasure Development; Claire L. Carter; Jace W. Jones; Isabel L. Jackson; Zeljko Vujaskovic;
Erik Soderblo	m (Duke University School of Medicine) presiding Room 106		Sean Kearney; Kory Barrow; Kaitlyn Kieta; Cheryl Taylor-Howell; Allison Gibbs; Ann M. Farese;
MOF pm 2:30	PTM Profiling in Serum & Plasma to Identify Potential Biomarkers by Immunoaffinity LC-MS Methods; Hongbo Gu; Jian Min Ren; Jeffrey Silva; Cell Signaling Technology, Danvers, MA	MOG pm 3:50	Thomas J. MacVittie; Maureen A. Kane; <i>University of Maryland, Baltimore, MD</i> Tools for Multivariate Analysis (MVA) of 2D and 3D Mass Spectrometry Images; <u>Daniel Graham</u> ;
MOF pm 2:50	Optimization of Automated Phosphopeptide Enrichment using Fe3+-NTA IMAC on the Bravo AssayMAP Liquid Handling Robotics Platform; Jennifer Abelin¹; Caitlin Feeney¹; Jinal Patel¹; Lola Fagbami¹; Xiaodong Lu¹; Daniel Lam¹; Jason Russell²; Steve Murphy²; Gavin Fischer²; Steven A. Carr¹; Jacob D. Jaffe¹; ¹Broad Institute of MIT and Harvard, Cambridge, MA; ²Agilent Technologies,	MOG pm 4:10	Lara Gamble; Department of Bioengineering, UW, Seattle, Washington Phospholipid MALDI Imaging Mass Spectrometry Stratification of Colorectal Cancer Liver Metastasis Clinical Biopsies; Heath Patterson ¹ ; Balqis Alabdulkarim ² ; Aurélien Thomas ³ ; Martin M. Marcinkiewicz ⁴ ; Anthoula Lazaris ² ; Peter Metrakos ² ; Pierre Chaurand ¹ ; ¹ Dept. of Chemistry, University
MOF pm 3:10	Inc., Madison, WI Quantifying Reversible Oxidation of Protein Thiols in Photosynthetic Organisms; William Slade¹; Emily Werth¹; Evan McConnell¹; Sophie Alvarez²; Leslie Hicks¹; ¹University of North Carolina, Chapel Hill, NC; ²Danforth Center, St Louis, MO		of Montreal, Montreal, Quebec, Canada; ² Dept. of Surgery, McGill University, Montreal, Quebec, Canada; ³ Unit of Toxicology, CURML, University of Lausanne, Lausanne, Switzerland; ⁴ Cytochem Inc., Montreal, Quebec, Canada
MOF pm 3:30	An Integrated Workflow for Enrichment, Separation, and Quantitation of Plasma Glycoproteins in Prostate Cancer and Benign Prostate Hyperplasia; Sarah Totten; Majlinda Kullolli; Cheylene Tanimoto; James Brooks; Sharon Pitteri; Stanford University School of Medicine, Palo	QUANTI	::30 – 4:30 PM, MONDAY AFTERNOON TATIVE ANALYSIS IN DRUG DISCOVERY FOR SMALL MOLECULES (PharmaCadence Analytical Services) presiding Ballroom 220/221 The Evaluation and Development of Automated
MOF pm 3:50	Alto, CA, USA Isobaric Labeling Enables 10-Plex Quantitative Analysis Of Ubiquitylated Peptides: A Diagnostic Ion to Improve Identification and Quantification; Christopher M. Rose¹; Marta Isasa¹; Sean A. Beausoleil²; Steven P. Gygi¹; ¹Harvard Medical School, Boston, MA; ²Cell Signaling Technology,	MOH pm 2:50	Workflows in Blood, Plasma and Urine Using Volumetric Absorptive Microsampling (VAMS); Leanne Grafmuller; Joseph Tweed; Zhenhua Gu; Mark Wallace; Mark Milisci; Rick Steenwyk; Ragu Ramanathan; Pfizer, Groton, CT Calibration Curve Sensitivity: The Role of Internal Standard on Slope and Precision of
MOF pm 4:10	Danvers, MA A New Method for Enhanced Identification of Citrullinated Peptides using SWATH-MS Technology; Ronald Holewinski; Justyna Fert- Bober; Jennifer Van Eyk; Cedars Sinai Medical Center, Los Angeles, CA	MOH pm 3:10	Clinical LC-MS/MS Assays; Brian Rappold; Andrew Lickteig; Matthew Salske; Essential Testing, Collinsville, IL LC-MS/MS and LC-HRMS Approaches to Support Toxicity Studies of a Glycolipid Vaccine Adjuvant; Kasie Fang; Chester L. Bowen; Jonathan
2	:30 – 4:30 PM, MONDAY AFTERNOON		Kehler; Kendal Ryter; GlaxoSmithKline, King of Prussia. PA
IM	AGING: BIOMEDICAL APPLICATIONS I (Albert Einstein College of Medicine) presiding Ballroom 222/224	MOH pm 3:30	Improving Quantitative Analysis through Reduction of Matrix Suppression Effects by coupling Multi-Dimensional Chromatography to
MOG pm 2:30	Direct Structure-Specific Quantitative Molecular Imaging of Neurotransmitters in Experimental Parkinson's Disease; Mohammadreza Shariatgorji¹; Anna Nilsson¹; Patrik Källback¹; Erwan Bezard³; Per Svenningsson²; Per E. Andren¹; ¹Uppsala University, Uppsala, Sweden; ²Karolinska Institutet, Stockholm, Sweden; ³Université de Bordeaux, Bordeaux, France	MOH pm 3:50	ESI-MS; Tom Van De Goor; Stephan Buckenmaier; Agilent Technologies, Waldbronn, GERMANY Whole blood Analysis using New Solid Phase Microextraction Devices and Investigation of the Hematocrit Effect; Nathaly Reyes Garces; Barbara Bojko; Janusz Pawliszyn; University of Waterloo, Waterloo, CANADA
MOG pm 2:50	Glycopathology and Glycoimmunology of Prostate Cancer Tissues by N-Glycan MALDI Mass Spectrometry Imaging; Richard R Drake; Ellen Jones; Thomas Powers; Medical University of South Carolina, Charleston, SC	MOH pm 4:10	Comparison of Travelling Wave IMS-QTof Geometries and Acquisition Modes for Quantitative Analysis; <u>Mark Wrona</u> ¹ ; Yun Alelyunas ¹ ; Jayne Kirk ² ; Martin Palmer ² ; Nick Tomczyk ² ; Russell Mortishire-Smith ² ; ¹ Waters
MOG pm 3:10	Anatomy-guided Differential Analysis of Imaging Mass Spectrometry Data Using the Allen Mouse		Corporation, Milford, MA; ² Waters MS Technologies, Wilmslow, United Kingdom

4:45 – 5:30 PM, MONDAY AFTERNOON AWARD LECTURE Jenny Brodbelt (University of Texas, Austin) presiding



Award for a Distinguished Contribution in Mass spectrometry

Brian T. Chait
The Rockefeller University

5:45 – 7:00 PM, MONDAY AFTERNOON WORKSHOPS There are light refreshments in the common areas.

- 01. Has Photoionization Reached its Potential? Focus on APPI, Room 130
- 02. Enabling proteomics informatics on the Amazon cloud, Room 131
- 03. Advanced MS and separation approaches for biofuels and petroleum, Room132

- 04. The Galaxy Framework for MS-based Informatics, Room 123/124
- Defining Resolution in Imaging MS A Quest for Solid Ground, Room 120/127
- Ion Trap Interest Group: new experiments and old tricks, Room 260/267
- 07. Metal Cationization of Biomolecules and its Analytical Applications, Room 274
- 08. Methods and Tools for Intra- and Inter-Experiment LC MS Performance Tracking, Room 275
- Challenges and progress towards the site-specific characterization of glycoprotein heterogeneity, Room 230
- Mass Spectrometry Applications in Art, cultural Heritage, and Natural History, Room 231
- 11. More DMPK Knowledge from Less Sample: Leveraging Modern LC-MS Instruments for Small Sample Amounts, Room 232
- Metabolomics: Emerging Technologies for Continued Innovation, Ballroom 222/224
- 13. Which Career Path is Right for Me? Young Mass Spectrometrists Workshop, Ballroom 220/221

AFTER 8:00 PM
CORPORATE HOSPITALITY SUITES
RENAISSANCE GRAND HOTEL

TUESDAY MORNING ORAL SESSIONS

8:30 – 10:30 AM, TUESDAY MORNING INSTRUMENTATION: TIME-OF-FLIGHT AND QTOF Jody C. May (Vanderbilt University) presiding Hall 5

TOA am 08:30 High Resolution Multi-Reflecting TOFMS with Multiplexing by Encoded Frequent Pulsing for Increasing the Duty Cycle 10-100 Times; Peter Willis¹; Viatcheslav Artaev¹; George Tikhonov¹; Kevin Siek¹; Vasily Makarov²; Anatoly Verenchikov²;

ILECO Corporation, St Joseph, MI; **2MSC-CG, Bar, Montenegro

TOA am 08:50 Novel Operating Modes of an Ion Mobility
Quadrupole Time-Of-Flight Hybrid Instrument;
Jason L Wildgoose; Kevin Giles; Keith Richardson;
Steven Pringle; Waters Corporation, Manchester,
UK

TOA am 09:10 A W-geometry ortho-TOF MS with High Resolution and Up To 100% Duty Cycle for MS/MS; Samuel Merenbloom¹; Nic Bloomfield¹; Alexandre Loboda²; Igor Chernushevich¹; ¹SCIEX, Concord, Canada; ²Fluidigm Canada Inc., Markham, Canada

TOA am 09:30 Inductively Coupled Plasma Distance-Of-Flight Mass Spectrometry with an ionCCD Camera detector; Elise Dennis¹; Steven J. Ray¹; Christie G. Enke²; Charles J. Barinaga³; David W. Koppenaal³; Gary M. Hieftje¹; ¹Indiana University, Bloomington, IN; ²University of New Mexico, Placitas, NM; ³Pacific NW Nat¹l Laboratory, Richland, WA

TOA am 09:50

A New Instrument for High Speed, True Pixel and Large Dataset MALDI TOF Imaging; Jens Höhndorf; Andreas Haase; Arne Fütterer; Michael Becker; Armin Holle; Bruker Daltonik GmbH, Bremen. Germany

Artificial Intelligent Algorithm, Particle Swarm Optimization (SWARM), Opens a New Era for Mass Spectrometer Application Tune; Huy Bui¹; Christian Klein¹; Dorothy Yang¹; Yevgeny Kaplun¹; Syed Lateef¹; Gregor Overney¹; Koen Sandra²; ¹Agilent Technologies, Santa Clara, CA; ²Research Institute for Chromatography, Kortrijk, Belgium

8:30 – 10:30 AM, TUESDAY MORNING INFORMATICS: MULTI-OMICS INTEGRATION Akhilesh Pandry (Johns Hopkins University) presiding Room 130/132

TOB am 08:30 STATegra – Studying B-Cell Differentiation by Combination of Multiple Omics Datasets; The STATegra Consortium; Andreas Schmidt; Axel Imhof; ZFP - LMU Munich, Munich, GERMANY TOB am 08:50 The Quest for Novel Proteoforms: Integration

of Proteomics and Ribosome Profiling Based Translatomics; Jeroen Crappé; Volodimir Olexiouk; Daria Gawron; Elvis Ndah; Sandra Steyaert; Alexander Koch; Steven Verbruggen; Ellen De Meester; Sarah De Keulenaer; Petra Van Damme; Gerben Menschaert; Ghent University, Gent, Belgium

TOB am 09:10

Peptide Search Engine Approach for the Detection Of Translated Mutations Based on Sequencing Data, Mutation Databases and Exhaustive Codon Changes; Pavel Sinitcyn; Stefka Tyanova; Matthias Mann; Juergen Cox; Max-Planck-Institute of Biochemistry, Martinsried, Germany

TOB am 09:30 Enosi: A web-accessible Proteogenomic
Pipeline for Identification of Proteomic Event
using Large-scale NGS Data; Seong Won
Cha; Sunghee Woo; Vineet Bafna; University of
California, San Diego, La Jolla, CA

TOB am 09:50

SearchGUI and PeptideShaker Deployed in the Galaxy Framework: A Powerful Informatics Platform for Protein Identification and Beyond; Ira Cooke¹; Bjoern Groening²; Harald Barsnes³; Marc Vaudel³; Lennart Martens⁴; James Johnson⁶; Candace Guerrero⁵; Getiria Onsongo⁵; John Chilton⁻; Pratik Jagtapë; Tim Griffin⁵; ¹La Trobe University, Melbourne, Australia; ²University of Freiburg, Freiburg, Germany; ³University of Bergen, Bergen, Norway; ⁴Ghent University, Ghent, Belgium; ⁵University of Minnesota, Minneapolis, MN; ⁵University of Minnesota Supercomputing Institute, Minneapolis, MN; ¬Pennsylvania State

TOA am 10:10

TUESDAY MORNING ORAL SESSIONS



University, State College, PA; *Center for Mass Spectrometry and Proteomics, UMN, St.Paul, MN

TOB am 10:10 Mass Spectrometry Centric Analysis of Public Proteomic Data in ProteomicsDB; Mathias Wilhelm¹; Hans-Christian Ehrlich²; Judith Schlegl³; Wilhelm Becker²; Lars Rueckert²; Hannes Hahne¹; Bernhard Kuster¹; *Technical University Munich, Freising, GERMANY; *2SAP SE, Innovation Center Potsdam, Potsdam, Germany; *3SAP SE, Walldorf,

8:30 – 10:30 AM, TUESDAY MORNING IMAGING: INSTRUMENTATION AND METHOD Gary Van Berkel (Oak Ridge National Laboratory) presiding Room 123/124

Germany

TOC am 08:30 Constant-Distance Mode for High-Resolution
Ambient Imaging Using Nanospray Desorption
Electrospray Ionization Mass Spectrometry; Julia
Laskin¹; Ingela Lanekoff²; Andrey Liyu¹; Mathew
Thomas¹; ¹Pacific NW National Laboratory, Richland,
WA; ²Uppsala University, Uppsala, SWEDEN

TOC am 08:50

Enhancing the Analytical Capabilities of DESI Imaging using Ion Mobility Separation- Providing Superior Insights of Biological Samples;

Emmanuelle Claude¹; Emrys A Jones¹.³; Mark
Towers¹; Karolina Skraskova²; Ron M.A. Heeren²;
Jim Langridge¹; ¹Waters Corporation, Wilmslow,
UK; ²Maastricht University, Maastricht, NL; ³Imperial
College London, London, UK

TOC am 09:10

Best of Both Worlds? - Matrix-enhanced SIMS
Reveals New Information in Cerebellum Grey and
White Matter; Masoumeh Dowlatshahi Pour¹; Per
Malmberg¹; Andrew Ewing¹.²; ¹Chalmers University
of Technology, Gothenburg, Sweden; ²University of
Gothenburg, Gothenburg, Sweden

TOC am 09:30

Transmission Geometry MALDI: Assessing Ion

TOC am 09:30 Transmission Geometry MALDI: Assessing Ion Generation/Collection Efficiency at Laser Spot Sizes Down to 1 µm; Andre Zavalin; Junhai Yang; Richard Caprioli; Vanderbilt University, Nashville, TN

TOC am 09:50 MALDI-2: Sensitive MS Imaging with Laser-Induced Postionization at 5 micrometer pixel size; Jens Soltwisch¹; Hans Kettling¹.²; Simeon Vens-Cappell¹.²; Marcel Wiegelmann¹; Johannes Müthing¹; Klaus Dreisewerd¹.²; ¹Institute for Hygiene, University of Muenster, Muenster, GERMANY; ²Interdisciplinary Center for Clinical Research, Muenster, Germany

TOC am 10:10 High Performance MALDI MS Imaging with a Scanning Laser Beam; Jan Preisler^{1, 2}; Antonin Bednarik^{1, 2}; Pavel Kuba³; Eugene Moskovets⁴;

¹Chemistry Department, Masaryk University, Brno, Czech Republic; ²CEITEC, Masaryk University, Brno, Czech Republic; ³FME, University of Technology, Brno, Czech Republic; ⁴MassTech, Inc., Columbia, MD

8:30 – 10:30 AM, TUESDAY MORNING MEMBRANE PROTEINS

Frank Sobott (University of Antwerp) presiding Room 120/127

TOD am 08:30 Structure and Dynamics of a Membrane Protein-Surfactant Assembly Studied by Ion-Mobility Mass Spectrometry and Molecular Dynamics Simulations; Antoni Borysik; Antoni Borysik; King's College London, London, UK

TOD am 08:50 Probing the Structure & Interactions of Membrane Protein Complexes Using Orbitrap Mass Spectrometry; Joseph Gault¹; Todd Mize¹; Eugen Damoc²; Mikhail Belov²; Alexander Makarov²;

TOD am 09:10

Membrane Proteins and Complexes: Using an FTMS to "Shake it Off"; lain Campuzano²; Huilin Li¹; Dhanashri Bagal²; Paul Schnier²; Joseph A.

Loo¹; ¹UCLA, Los Angeles, CA; ²AMGEN, Thousand Oaks, CA

Carol V. Robinson¹: ¹Oxford University, Oxford, UK:

TOD am 09:30 Lipid Binding Induces Conformational Changes in the Peripheral Membrane Protein PDZK1;

Jamie A. Moroco¹; Thomas E. Wales¹; Jennifer L. Halford²; Nadine Elowe⁴; Olivier Kocher³; Monty Krieger²; John R. Engen¹; ¹Northeastern University, Boston, MA; ²Massachusetts Institute of Technology, Cambridge, MA; ³Harvard Medical School, Boston, MA; ⁴Broad Institute, Cambridge, MA

TOD am 09:50

Using Ion Mobility-Mass Spectrometry to Study the Integral Membrane Protein Translocator Protein (TSPO) and its Therapeutic Ligand Binding Behavior; Shuai Niu¹; Fei Li²; Shelagh Ferguson-Miller²; Brandon Ruotolo¹; ¹University of Michigan, Ann Arbor, MI; ²Michigan State University, East Lansing, MI

TOD am 10:10 Fast size-exclusion Chromatography
Electrospray-Ionization Mass Spectrometry of
Integral Membrane Proteins; Whitaker Cohn;
Joseph Capri; Chris Ryan; Julian Whitelegge;
University of California LA, Los Angeles, CA

8:30 – 10:30 AM, TUESDAY MORNING
LIPIDOMICS: NEW MS TECHNOLOGIES AND APPLICATIONS
David Ford (St. Louis University School of Medicine) presiding
Theater

TOE am 08:30 High Mass Resolution Lipid Imaging: A New Workflow for Guiding FTICR Analysis with High-Speed MALDI TOF Data; Jeffrey Spraggins¹; Raf Van De Plas²; Nico Verbeeck³; Etienne Waelkens³; Shannon Cornett⁴; Richard Caprioli¹; ¹Vanderbilt University, Nashville, TN; ²Delft University of Technology, Delft, Netherlands; ³K.U. Leuven, Leuven, Belgium; ⁴Bruker Daltonics Inc., Billerica,

TOE am 08:50 Abnormal Biogenic Lipid Signalling In Chronic Pain Elucidated With Multimodal Imaging Mass Spectrometry; Jorg Hanrieder¹; Jie Su³; Lorenz Gerber²; Kim Kultima⁴; Camilla Svensson³; ¹University of Gothenburg, Mölndal, Sweden; ²SLU, Umeå, Sweden; ³Karolinska Institute, Stockholm, Sweden; ⁴Uppsala University, Uppsala, Sweden

TOE am 09:10

Separating Lipid Isomers with LC-IMS-MS
Measurements to Understand Their Role in
Biochemical Processes; Erin S. Baker; Kristin E.
Burnum-Johnson; Jennifer E. Kyle; Xing Zhang;
Matthew E. Monroe; Yehia M. Ibrahim; Thomas O.
Metz; Richard D. Smith; Pacific Northwest National
Laboratory, Richland, WA

TOE am 09:30 Multidimensional Mass Spectrometry-based Shotgun Lipidomics Analysis of Vinyl Ether Diglycerides; Kui Yang; Christopher M. Jenkins; Beverly Dilthey; Richard W. Gross; Washington University, St. Louis, MO

TOE am 09:50 A Shotgun Lipidomics Approach to Study
Non-Alcoholic Fatty Liver Disease (NAFLD);
Amani Batarseh¹; Harry Glickman¹; David Peake³;
Alexander Mazur²; Peter Metrakos¹; Tommy
Nilsson¹; ¹RI-MUHC, Montreal, CA; ²McGill
University, Montreal, CA; ³Thermo Fisher Scientific,
San Jose, USA

TUESDAY MORNING ORAL SESSIONS



TOE am 10:10

Isotopically-labelled TrEnDi: New Technology
to Increase the Sensitivity and Selectivity of
MS-Based Lipid Analysis of Complex Biological
Samples; Carlos R. Canez; Karl V. Wasslen; Hyunmin
Lee; Samuel W. J. Shields; Jeffrey M. Manthorpe;
Jeffrey C. Smith; Carleton University, Ottawa, Canada

8:30 – 10:30 AM, TUESDAY MORNING PHOSPHOPROTEOMICS IN DISEASE Jun Qu (State University of New York, Buffalo) presiding Room 106

TOF am 08:30 Kinome Profiling of Glioblastoma Samples by Mass Spectrometry; Lennard Dekker¹; Marcel Stoop¹; Jan-Willem Jachtenberg¹; Lona Zeneyedpour¹; Noor Abdulhussain¹; Jos Joore²; Sieger Leenstra¹¹³; Theo Luider¹; ¹Erasmus Medical Center, Rotterdam, Netherlands; ²Pepscope, Utrecht, Netherlands; ³Elisabeth Medical Hospital, Tilburg, Netherlands

TOF am 08:50 Unravelling Signaling Pathways in Niemann-Pick type C Disease by "in-vivo" Phosphoproteomic Analysis of Mouse Cerebellum; Nicolas Lebesgue¹; Martin Fitzpatrick¹; Allie Colaco²; Frances Platt²; Albert J.R. Heck¹; Simone Lemeer¹; 'Utrecht University, Utrecht, The Netherlands; 'Oxford University, Oxford, UK

TOF am 09:10

Phosphoproteomic and Proteomic Identification of Oncogenic Pathways in LKB1 Dependent Non-Small Cell Lung Cancer by Two-Dimensional LC-MS/MS; Nilini Ranbaduge; Joseph Amann; Tadaaki Yamada; Zhen Wang; David Carbone; Vicki Wysocki; The Ohio State University, Columbus, OH

TOF am 09:30 Assessment of Rational Peptide Design for Kinase Activity Assays by Mass Spectrometry; Marcel Stoop¹; Jetse Scholma²; Maikel Peppelenbosch¹; Jos Joore³; Theo Luider¹; ¹ErasmusMC, Netherlands, Rotterdam, Netherlands; ²University of Twente, Enschede, Netherlands; ³Pepscope B.V., Utrecht, Netherlands

TOF am 09:50

Advanced Ti^{4*}-IMAC (phospho)proteomics to Identify Novel Melanoma Companion Drug Targets and Uncover Phosphorylation Dynamics and Pathway Dependence in Senescence Signaling;

Violette Gautier^{1, 2}; Gianluca Maddalo^{1, 2}; Erik L. de Graaf^{1, 2}; Joanna Kaplon³; Marjon A. Smit³; Kristel Kemper³; Daniel S. Peeper³; Albert J.R. Heck¹; A.F. Maarten Altelaar¹; ¹Utrecht University, Utrecht, Netherlands; ²Netherlands Proteomics Center, Utrecht, Netherlands; ³The Netherlands Cancer Institute, Amsterdam, Netherlands

TOF am 10:10 Characterization of Regulatory Protein
Phosphorylations in Dynamic Golgi Reassembly
by Quantitative Label-Free Phosphorproteomic
Analysis; Hye Kyong Kweon; Shijiao Huang;
Yanzhuang Wang; Philip Andrews; University of
Michigan, Ann Arbor, MI

8:30 – 10:30 AM, TUESDAY MORNING EMERGING ENVIRONMENTAL CONTAMINANTS Susan Richardson (University of South Carolina) presiding Ballroom 222/224

TOG am 08:30 Unequivocal Identification of Detection-Based Transformation Products in Real-World Environmental Samples using High-Resolution MS and NMR; Damia Barcelo^{1,2}; Bozo Zonja¹; Sandra Perez¹; Antonio Delgado^{3,4}; ¹Water and Soil Research Group, IDAEA-CSIC, Barcelona, SPAIN; ²Catalan Institute of Water Research - ICRA, Girona, SPAIN; ³University of Barcelona (UB); Faculty of Pharmacy, Barcelona, SPAIN; ⁴Res. Unit on BioActive Molecules(RUBAM), IQAC-CSIC, Barcelona, Spain

TOG am 08:50 Systematic Suspect Screening and Identification of Sulfa Drug Metabolites in the Aquatic Environment; Marius Majewsky¹; Thomas Glauner²; Craig Marvin³; Harald Horn¹,⁴; ¹Karlsruhe Institute of Technology, Water Chemistry, Karlsruhe, Germany; ²Agilent Technologies Sales & Services GmbH, Waldbronn, Germany; ³Agilent Technologies Inc., Wilmington, DE; ⁴DVGW Research Laboratories,

Karlsruhe, Germany

TOG am 09:10 Rapid Tracking of ZnO and CeO₂ Nanoparticles through Drinking Water Treatment by Single Particle ICP-MS; Ariel Donovan^{1, 2}; Honglan Shi^{1, 2}; Yinfa Ma¹; Craig Adams^{2, 3}; Chady Stephan⁴; Todd Eichholz⁵; ¹Missouri S&T, Rolla, MO; ²CS3M, Rolla, MO; ³Utah State University, Logan, UT; ⁴PerkinElmer, Woodbridge, ON; ⁵Missouri Department of Natural Resources, Jefferson City, MO

TOG am 09:30 Determination of Urinary Metabolites of Organophosphate Flame Retardants Using Ultra Performance Liquid Chromatography (UPLC) Tandem Mass Spectrometry (MS/MS);

| vana Kosarac¹; Cariton Kubwabo¹; Warren Foster²;
| Environmental and Radiation Health Sciences Direct, Ottawa, Canada; 2McMaster University, Department of Obstetrics and, Hamilton, Canada

TOG am 09:50 Multi-residue Analyses of 71 Endocrine Disruptors in Indoor Air by Liquid and Gas Chromatography Mass Spectrometry Methods; Stéphanie Laborie¹; Elodie Moreau-Guigon¹; Fabrice Alliot¹; Annie Desportes¹; Lucie Oziol²; Marc Chevreuil¹; ¹EPHE, UMR 7619, Paris, France; ²Université Paris sud, UMR 8079, Orsay, France

TOG am 10:10 Identification of 3,5-Dichloro-4-hydroxybenzene
Sulfonic Acid as an Unknown Persistent Pollutant
in Wastewater Effluent and Natural Water; M. Paul
Chiarelli; Qian Wang; Matthew Reichert; Marlon Lutz;
Daniel Becker; Loyola University, Chicago, IL

8:30 – 10:30 AM, TUESDAY MORNING LC-MS APPROACHES TO COMBINE TRANSLATIONAL PK/PD BIOMARKERS WITH SMALL MOLECULE ADME WORKFLOWS Darren Dumlao (Pfizer, Inc.) presiding Ballroom 220/221

TOH am 08:30

LC-MS Determination of Cyclooxygenase,
Lipoxygenase Enzymatic Mediating Pathways
Biomarkers in Rat Colon Microdialysate During
Inflammatory Bowel Disease; Yunan Wang; Craig
Lunte; Department of Chemistry, University of
Kansas, Lawrence, KS

TOH am 08:50

Biomarker Identification and Evaluation of
Therapeutic Efficacy using in vivo Microdialysis
coupled with Mass Spectrometry; Matthew
Buczynski; Cristina Irimia; Luis Natividad; Loren
Parsons; The Scripps Research Institute, La Jolla, CA

TOH am 09:10 Exploring Phenotypic Cell Metabolism using a LC-HRAMS Metabolic Flux Infrastructure; John Meissen¹; Aditi Jatkar²; Emily Miller¹; Russell Miller²; Min Wan²; Matt Blatnik¹; ¹Pfizer, Groton, CT; ²Pfizer, Cambridge, MA

TOH am 09:30 Considerations for a New Strategy of Successful Metabolomics Workflow with Reduced Effort;
Alla Kloss¹; Sarah Geller¹; Kristen Randall¹; Harvey Lieberman¹; Aharon Cohen²; ¹AR&D, LGCR, Sanofi, Waltham, MA; ², Waltham, MA

TOH am 09:50 Untargeted Stable Isotope Tracing: Establishing A Novel MS-based Strategy for Discovering Metabolic Fate and Flux; Qiuying Chen; Steven S Gross; Weill Medical College of Cornell, New York, NY



TOH am 10:10 Quan-Qual in Real-Life Drug Discovery. What Have We Learned and How Do We Move Ahead?

Anne-Charlotte Dubbelman¹; Lieve Dillen²; Gerhard Gross²; Filip Cuyckens²; Thomas Hankemeier¹; Rob

J. Vreeken¹,²; ¹LACDR, Leiden University, Leiden, nl;

²Janssen Pharmaceutica, Beerse, Be

10:30 AM – 2:30 PM, TUESDAY
TUESDAY POSTER SESSION
Poster/Exhibit Hall
Lunch concessions are open 11:00 am – 2:00 pm

TUESDAY AFTERNOON ORAL SESSIONS

	30 – 4:30 PM, TUESDAY AFTERNOON	2	:30 – 4:30 PM, TUESDAY AFTERNOON	
NEW DI	EVELOPMENTS IN HIGH RESOLUTION AND	DATA INDEPENDENT ACQUISITION:		
MASS ACCURACY			OVATIVE METHODS AND APPLICATIONS exander Leitner (ETH Zurich) presiding	
Carolyn J. Cassady (University of Alabama) presiding Hall 5		A	Room 130/132	
TOA pm 2:30	Advances in High Field FT-ICR MS: Ultra-	TOB pm 2:30	Evaluate SWATH Quantitation using Local and	
•	High Resolving Power and Mass Accuracy for	·	Extended Libraries; Xiaomin Song; Jemma Wu;	
	Environmental and Biological Research; Jared B.		Dana Pascovici; Thiri Zaw; Natasha Care; Mark	
	Shaw; Tzu-Yung Lin; Aleksey V. Tolmachev; Errol W.		P. Molloy; Australian Proteome Analysis Facility,	
	Robinson; David W. Koppenaal; Ljiljana Pasa-Tolic;	TOD 0.50	Sydney, Australia	
TOA pm 2:50	Pacific Northwest National Laboratory, Richland, WA 21 Tesla FT-ICR Mass Spectrometer: A National	TOB pm 2:50	Intrinsic Ratiometric Filters Enhance Precision in Stable Isotope Data-Independent Acquisition	
10A piii 2.50	Resource for Ultrahigh Resolution Mass		Proteomics; Jaimeen Majmudar; Brent Martin;	
	Spectrometry; Christopher L. Hendrickson ^{1, 2} ; John		University of Michigan, Ann Arbor, MI	
	P. Quinn ¹ ; Nathan K. Kaiser ¹ ; Donald F. Smith ¹ ;	TOB pm 3:10	Multi Laboratory Reproducibility and	
	Greg T. Blakney ¹ ; Tong Chen ² ; Alan G. Marshall ¹ ,		Performance of SWATH™ Acquisition for	
	² ; ¹ National High Magnetic Field Laboratory,		Proteomic Analyses; Christie Hunter¹; Ben Collins²;	
	Tallahassee, FL; ² FSU Dept of Chemistry and Biochemistry, Tallahassee, FL		Yansheng Liu²; Stefani Thomas³; Dan Chan³; Hui Zhang³; Samuel Bader⁴; Robert Moritz⁴; Birgit	
TOA pm 3:10	The New non-FT Method of Super-High		Schilling ⁵ ; Bradford Gibson ⁵ ; Christoph Krisp ⁶ ; Mark	
10/1piii 0.10	Resolution Mass Spectrometry, Based on		Molloy ⁷ ; Guixue Hou ⁸ ; Liang Lin ⁸ ; Siqi Liu ⁸ ; Mio	
	Measuring of "Antenna" lon's Cyclotron		Hirayama ⁹ ; Sumio Ohtsuki ⁹ ; Nathalie Selevsek ¹⁰ ;	
	Frequency Time Dependence.; Eugene Nikolaev ¹		Ralph Schlapbach ¹⁰ ; Shin-Cheng Tzeng ¹¹ ; Jason	
	² ; Gleb Vladimirov ^{1,3} ; Oleg Kharybin ¹ ; Igor Popov ^{1,2} ;		Held ¹¹ ; Brett Larsen ¹² ; Anne-Claude Gingras ¹² ;	
	¹ Institute for Energy Problems of Chemical Physics, Moscow, Russia; ² Moscow Institute of Physics and		Ruedi Aebersold ² ; ¹ SCIEX, Redwood City, CA; ² ETH Zurich, Zurich, Switzerland; ³ Johns Hopkins	
	Technology, Moscow, Russia; 3Skolkovo Institute of		University, Baltimore, MD; ⁴ Inst Systems Biology,	
	Technology, Moscow, Russia		Seattle, WA; 5Buck Institute for Research on Aging,	
TOA pm 3:30	High Resolution on Both Precursor and		Novato, CA; 6Australian Proteome Analysis Facility,	
	Fragment Ions in the MS/MS Spectra of Complex		Sydney, Australia; ⁷ Macquarie University, Sydney,	
	Mixtures by Bidimensional FT-ICR MS; Fabrice bray1; Lionel Chiron4; Matthias Witt3; Marc-André		Australia; ⁸ BGI, Shenzhen, China; ⁹ Univ Kumamoto, Kumamoto, Japan; ¹⁰ FGCZ, Univ Zurich, Zurich,	
	Delsuc ² ; <u>Christian Rolando</u> ¹ ; ¹ <i>Université Lille 1</i> ,		Switzerland; ¹¹ Washington University, St. Louis, MO;	
	Villeneuve d'Ascq, France; ² IGBMC, Université de		¹² LTRI, Toronto, ON	
	Strasbourg, Strasbourg, France; ³ Bruker Daltonik,	TOB pm 3:30	Data-independent Acquisition using Q Exactive	
	Bremen, Germany; ⁴ CASC4DE, Strasbourg, France		HF to Improve Detection of Urinary Diagnostic	
TOA pm 3:50	High Resolution and Accurate Mass (HRAM)		Biomarkers of Systemic Diseases; Jan Muntel ¹ ;	
	Characterization of Multiply Charged Proteins by Newly Developed Ionization Techniques on		Yue Xuan ² ; Sebastian Berger ¹ ; Alex Kentsis ⁴ ; Richard Bachur ³ ; Hanno Steen ¹ ; ¹ Harvard Medical	
	CE-LSI/MAIV-LTQ-Orbitrap Platform; Bingming		School/Children's Hospital Boston, Boston, MA;	
	Chen; Xuefei Zhong; Chirstopher Lietz; Lingjun Li;		² ThermoFisherScientific, Bremen, Germany; ³ Boston	
	University of Wisconsin-Madison, Madison, WI		Children's Hospital, Boston, MA; 4Cornell University,	
TOA pm 4:10	A Fully Integrated GC Orbitrap System Opens		New York, NY	
	a New Chapter in GC-MS; Paul Silcock ¹ ; Cristian	TOB pm 3:50	Quantitative Profiling of Circulating Plasma	
	Cojocariu ¹ ; Dominic Roberts ¹ ; Scott T. Quarmby ² ; G.Brody Guckenberger ² ; Jason S. Cole ² ; John G.		Microparticle Associated Proteins by DDA and DIA nanoLC-MS2; Manfred Heller; Natasha Buchs;	
	Voss ² ; Amelia Peterson ³ ; Jan-Peter Hauschild ³ ;		Sophie Braga Lagache; <i>University of Bern, Bern,</i>	
	Oliver Lange ³ ; Nicholas Kwiecien ⁴ ; Michael S.		Switzerland	
	Westphall ⁴ ; Joshua J. Coon ⁴ ; Alexander Makarov ³ ;	TOB pm 4:10	Identification of Archaeal Biofilm Marker	
	¹ Thermo Fisher Scientific, Runcorn, United Kingdom;		Candidates by SWATH-LC/MS/MS Analysis	
	² Thermo Fisher Scientific, Austin, TX; ³ Thermo		of Planktonic and Sessile Cultures of	
	Fisher Scientific, Bremen, Germany; ⁴ University of Wisconsin, Madison, WI		Halobacterium salinarum R1; Christof Lenz ^{1.} 2; Gerald Losensky³; Sabrina Froels³; Felicitas	
	THOUSINI, WAGOON, TT		Pfeifer ³ ; Henning Urlaub ^{1, 2} ; ¹ Max Planck Institute	
			for Biophysical Chemistry, Goettingen, Germany;	
			² University Medical Center (UMG), Goettingen,	
			Germany; ³ Technical University of Darmstadt,	
			Darmstadt, Germany	

TUESDAY AFTERNOON ORAL SESSIONS

2:30 – 4:30 PM, TUESDAY AFTERNOON ION SPECTROSCOPY		TOD pm 3:50	Baccus – a Novel Way of using Targeted Mass Spectrometry to Estimate Bacterial Load; Ola	
Jir	n Prell (University of Oregon) presiding Room 123/124		Kilsgård; Johan Teleman; Erik Malmström; Johan	
TOC pm 2:30	Fusion of Spectroscopy and Mass Spectrometry for Structural Identification of Biomolecules; Vladimir Kopysov¹; Alexander Makarov²; Oleg Boyarkin¹; ¹Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland; ²Thermo Fisher Scientific, Bremen, Germany	TOD pm 4:10	Malmström; Lund University, Lund, Sweden Integrated omics of Influenza A virus: Correlating Glycan Macro and Micro- Heterogeneity with Virus Evolution and Interactions with Host Immune System.; Kshitij Khatri¹; Mitchell R. White¹; Joshua A. Klein¹; Nancy Leymarie¹; David F. Smith²; Kevan L. Hartshorn¹;	
TOC pm 2:50	Two-Step Energy Transfer Enables Use of Phenylalanine in Action-EET for Distance Constraint Determination in Gaseous Biomolecules; Nathan Hendricks; Ryan R. Julian; University of California, Riverside, Riverside, CA	2.	Joseph Zaia¹; ¹Boston University School of Medicine, Boston, MA; ²Emory University School of Medicine, Atlanta, GA 30 – 4:30 PM, TUESDAY AFTERNOON	
TOC pm 3:10	Photodissociation Action Spectroscopy of		LIPID AND PROFILING	
	Protonated N-Substituted Aromatics: Vibronic Details from Room Temperature lons; Christopher	Kar	i Green (University of Florida) presiding Theater	
	Hansen¹; Stephen J Blanksby²; <u>Adam Trevitt</u> ¹; ¹University of Wollongong, Wollongong, Australia; ²Queensland University of Technology, Brisbane, Australia	TOE pm 2:30	SFC-MS/MS as a New Tool for Global and Quantitative Lipidomics; Marie Méjean¹; Laurent Laboureur¹; Benoit Colsch²; Alain Brunelle¹; <u>David</u> <u>Touboul</u> ¹; ¹Institut de Chimie des Substances	
TOC pm 3:30	Peptide Fragmentation Mechanisms by Infrared Ion Spectroscopy: Recent Advances and Application to ETD; Jonathan Martens¹; Josipa	TOE pm 2:50	Naturelles, CNRS, Gif sur Yvette, France; ² CEA de SACLAY, Gif sur Yvette, France Large Scale Lipid Profiling of a Human Serum	
	Grzetic¹; Giel Berden¹; Jos Oomens¹.²; ¹FELIX Facility - IMM - Radboud University, Nijmegen, The Netherlands; ²University of Amsterdam, Amsterdam, The Netherlands	10L piii 2.00	Lipidome Using a High Resolution Accurate Mass LC/MS/MS Approach; Reiko Kiyonami¹; David A. Peake¹; Xiaodong Liu²; Yingying Huang¹; ¹ThermoFisher Scientific, San Jose, CA; ²Thermo	
TOC pm 3:50	Infrared Spectroscopy of Mobility-Selected	TOF 0:40	Fisher Scientific, Sunnyvale, CA	
	H*Gly-Pro-Gly-Gly (GPGG); Michael Kamrath ¹ ; Antoine Masson ¹ ; Matthew Glover ² ; David Clemmer ² ; Thomas Rizzo ¹ ; ¹ EPFL, Lausanne, Switzerland; ² Indiana University, Bloomington, IN	TOE pm 3:10	Breast Cancer Tissue Analysis using Photochemical Derivatization and Tandem Mass Spectrometry; Leelyn Chong; Xiaoxiao Ma; Yu Xia; Zheng Ouyang; Purdue University, West Lafayette, IN	
TOC pm 4:10	Infrared Multiple Photon Dissociation Action Spectroscopy of Mechanically Interlocked Lasso Peptides.; Kevin Jeanne Dit Fouque ¹ ; Helene Lavanant ¹ ; Severine Zirah ² ; Vincent Steinmetz ³ ; Philippe Maitre ³ ; Sylvie Rebuffat ² ; Carlos Afonso ¹ ; ¹ University of Rouen, Mont Saint Aignan, France;	TOE pm 3:30	Imaging of Changes in Lipids Profile over Time in Traumatic Brain Injury; <u>Aurelie Roux</u> ¹; Ludovic Muller¹; Shelley N Jackson¹; Brian M Cox²; J. Albert Schultz³; Amina S. Woods¹; 'NIH/NIDA-IRP, Baltimore, MD; '2Uniformed Services University, Bethesda, MD; '3Ionwerks, Inc, Houston, TX	
	² National Museum of Natural History, Paris, France; ³ Université Paris Sud, Orsay, France	TOE pm 3:50	Single Cell Nanomanipulation to Identify Heterogeneity of Fatty Acid Profiles within Healthy and Diseased Breast Tissue at the	
	:30 – 4:30 PM, TUESDAY AFTERNOON		Cancer Forefront; Jason Hamilton; Mandy Phelps;	
	PROTEOMICS: INFECTIOUS DISEASE Chamot-Rooke (Institut Pasteur) presiding	TOE pm 4:10	Guido Verbeck; <i>University of North Texas, Denton, TX</i> Assessment of Function of sPLA₂ and Its	
TOD pm 2:30	Room 120/127 Identification of Staphylococcus aureus Isolates		Receptor PLA2R and Quantification of Intracellular Uptake and Degradation of SPRL	
. 02 p <u>2</u> .00	by Shotgun Spectral Matching; <u>Dana Ohana;</u> Hans Dalebout; Martha van der Beek; Ed Kuijper; Magnus Palmblad; <i>Leiden University Medical</i>		by LC-MS/MS; Ben Nie ¹ ; Brian S. Cummings ² ; Robert D. Arnold ¹ ; ¹ Harrison School of Pharmacy, Auburn University, Auburn, AL; ² Wilson College of	
TOD pm 2:50	Centre, Leiden, THE NETHERLANDS Accurate Characterization of Difficult to		Pharmacy, University of Geogia, Athens, GA	
	Differentiate Pathogens by Intact Protein ESI-HRMS; Helene Cardasis ² ; Jason Neil ² ; Ping	PROTEIN-PI	30 – 4:30 PM, TUESDAY AFTERNOON ROTEIN AND PROTEIN-LIGAND INTERACTIONS	
	Yip²; Eugen Damoc⁴; Roger Grist³; Alexander Cherkassky²; James Stephenson¹; ¹ <i>Thermo Fisher</i>		H. Ewa Witkowska (UCSF) presiding Room 106	
	Scientific, Raleigh, NC; ² Thermo Fisher Scientific, Cambridge, MA; ³ Thermo Fisher Scientific, East Grinstead, UK; ⁴ Thermo Fisher Scientific, Bremen, Germany	TOF pm 2:30	Characterization of Large Transient Protein Complexes using Size Exclusion Chromatography with On-Line Detection by Native ESI-MS; Khaja Muneeruddin; Honglin	
TOD pm 3:10	Proteomic Analysis of the Secretome upon Helicobacter pylori Infection; Justine Arrington;	TOF 0.50	Yao; Cedric Bobst; <u>Igor A. Kaltashov</u> ; <i>University of Massachusetts, Amherst, MA</i>	
	Xueqin Wang; Daoguo Zhou; Andy Tao; <i>Purdue University, West Lafayette, IN</i>	TOF pm 2:50	Drug Candidate Screening for Inhibitors of Protein Self-Aggregation using ESI-IMS-	
TOD pm 3:30	Profiling of Staphylococcus Aureus Secretomes using Bottom-Up and Top-Down Mass		MS; Alison E Ashcroft; Lydia M Young; Janet C Saunders; Rachel A Mahood; Charlotte H Revill;	
	Spectrometry; Jessica Chapman; Elizabeth Ohneck; Divya Balasubramanian; Kayan Tam; Victor Torres; Beatrix Ueberheide; NYU School of Medicine, New York, NY		Richard J Foster; Sheena E Radford; <i>University of Leeds, Leeds, United Kingdom</i>	
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TUESDAY AFTERNOON ORAL SESSIONS



Tof Pm 3:10	A Platform for the Untargeted Analysis of Protein Interactions; Owen Skinner ¹ ; Luis Do Vale ¹ ; Rafael Melani ¹ ; Pierre Havugimana ¹ ; Mikhail Belov ² ; Stevan Horning ³ ; Alexander Makarov ³ ; Neil L. Kelleher ¹ ; Philip Compton ¹ ; ¹ Northwestern University, Evanston, IL; ² Spectroglyph LLC, Kennewick, WA; ³ Thermo Fisher Scientific (Bremen) GmbH, Bremen, Germany	TOG pm 4:10	Chemical Characterization of Organic Contaminants in the Environment near an E-Waste Site in China; <u>Jonathan Byer</u> ³ ; Ed Sverko ¹ ; Kurunthachalam Kannan ² ; Qian Wu ² ; Joe Binkley ³ ; ¹ Environment Canada, Burlington, ON; ² Wadsworth Center, New York State Department of Hea, Albany, NY; ³ LECO Corporation, St. Joseph, MI
TOF pm 3:30	Time-Resolved Charge Detection Mass Spectrometry of Hepatitis B Virus Capsid Assembly; Corinne Lutomski; Elizabeth Pierson; Jason Deer; Adam Zlotnick; Martin Jarrold; Indiana University, Bloomington, IN	IMAGIN	:30 – 4:30 PM, TUESDAY AFTERNOON G: PHARMACEUTICALS AND METABOLITES te Castellino (GlaxoSmithKline) presiding Ballroom 220/221 High Spatial Resolution MALDI Mass
TOF pm 3:50	Protein-Glycolipid Interactions Studied in vitro using ESI-MS and Nanodiscs. Insights into the Mechanisms and Energetics of Binding; Ling Han; Elena Kitova; Jun Li; Hong Lin; John Klassen; University of Alberta, Edmonton, Canada	·	Spectrometry Imaging for the Determination of Therapeutic Compound Distribution in Rodent Intestinal Sections; Anna Nilsson ¹ ; Alexandra Peric ² ; Marie Strimfors ² ; Eva Lundborg ² ; Richard Goodwin ³ ; Martin A. Hayes ² ; Constanze Hilgendorf ² ;
TOF pm 4:10	Towards a Comprehensive Strategy for Proteome-Wide Characterization of Small Molecule-Protein Interactions.; Jason Murphy; Scott Brittain; Daniel Palacios; Edmund Harrington; Jason Thomas; Markus Schirle; Novartis Institutes	TOH pm 2:50	Per E. Andren¹; ¹Uppsala University, Uppsala, Sweden; ²AstraZeneca, Molndal, SE; ³AstraZeneca, Cambridge, UK Insects and Plants: Metabolite Studies using High-Performance AP-MALDI Mass Spectrometry
2	for BioMedical Research, Inc., Cambridge, MA:30 – 4:30 PM, TUESDAY AFTERNOON		Imaging; Bernhard Spengler; Andreas Römpp; Dhaka Bhandari; Saleh Khalil; Analytical Chemistry, Giessen, Germany
	ENVIRONMENTAL MS: UMENTAL CHALLENGES AND SOLUTIONS e Ferguson (Duke University) presiding Ballroom 222/224	TOH pm 3:10	Induced Interstitial Pulmonary Fibrosis (IPF) Model: Unlabeled Bleomycin Distribution and Early IPF Markers Identification by MALDI Imaging; David Bonnel ¹ ; Mary McElroy ² ; Emeline
TOG pm 2:30	High Resolution and Tandem Mass Spectrometry Uncovers Chlorination Reaction Pathways for Transformation of Medical Imaging Compounds in Drinking Water Treatment; Susan Richardson ¹ ; Cristina Postigo ² ; Christina Joseph ¹ ; Friedrich Wendel ³ ; Christian Luetke Eversloh ³ ; Thomas Ternes ³ ; Edward Machek ⁴ ; Stephen Duirk ⁴ ; Elizabeth Wagner ⁵ ; Michael Plewa ⁵ ; ¹ University of South Carolina, Department of Chemis, Columbia, SC; ² CSIC, Barcelona, Spain; ³ Federal Institute of Hydrology, Koblenz, Germany; ⁴ University of Akron, Akron, OH; ⁵ University of Illinois, Urbana, IL	TOH pm 3:30	Falaux¹; Fabien Pamelard¹; Gael Picard de Muller¹; Gregory Hamm¹; Stephen Madden²; Jonathan Stauber¹; ¹ImaBiotech, MS Imaging Dept., Loos, France; ²Charles River Discovery Research Services, Edinburgh, United-Kingdom Multiplatform Mass Spectrometry Imaging to Detect and Differentiate Nanoparticle Formulated and Released Drug in Preclinical Tumors; Richard Goodwin¹; John Swales¹; Anna Nilsson²; Per E Andren²; Nicole Strittmatter³; Zoltan Takats³; Susan Ashton⁴; Philip Jewsbury⁴; Peter Webborn⁴; Simon Barry⁴; ¹AstraZeneca, Cambridge, UK; ²Uppsala
TOG pm 2:50	Discovery, Identification and Investigation of Naturally Occurring Antibiotics in Drinking Water using Differential Ion Mobility and Soft Mass Spectrometry; Jadwiga Lyczko; Wojciech Gabryelski; University of Guelph, Guelph, Canada	TOH pm 3:50	University, Uppsala, SE; ³ Imperial College, London, UK; ⁴ AstraZeneca, Maccelsfield, UK The Applications of Single-probe Mass Spectrometry: Single Cell Analysis and Biological Tissue Imaging; Ning Pan; Wei Rao;
TOG pm 3:10	Direct On-Line Measurement of PAHs in Complex Aqueous Samples: Condensed Phase Membrane Introduction Mass Spectrometry - Direct Electron Ionization (CP-MIMS-DEI); Veronica Termopoli ¹ ; Giorgio Famiglini ¹ ; Laura Magrini ¹ ; Pierangela Palma ¹ ; Erik Krogh ^{2, 3} ; Achille Cappiello ¹ ; Christopher G. Gill ^{2, 3} ; ¹ University of Urbino, Urbino, Italy; ² University of Victoria, Victoria, BC, Canada; ³ Appl. Env. Res. Labs. (AERL), Nanaimo, BC, Canada	TOH pm 4:10	Mei Sun; Zhibo Yang; University of Oklahoma, Norman, OK Molecular Imaging of Antibiotic Inhibition of Bacterial Growth and Metabolism by Laser Ablation Electrospray Ionization Mass Spectrometry; Pranav Balan¹; Hang Li²; Akos Vertes²; ¹Thomas Jefferson HS for Science and Technology, Alexandria, VA; ²George Washington University, Washington, DC
TOG pm 3:30	Identification of Contaminants In House Dust by Two-Dimensional Gas Chromatography and Liquid Chromatography with Mass Spectrometry and Non-Targeted Data Analytics; Benjamin Place; Jacolin Murray; National Institute of Standards and		Chiversity, Washington, De
TOG pm 3:50	Technology, Gaithersburg, MD Coupling Atmospheric Pressure Photoionization with Differential Mobility Analysis – Mass Spectrometry for detection of non-polar environmental analytes within gas-phase samples; Ross McCulloch; Arturo Álvaro Carballido; SEADM, Boecillo, Spain		

4:45 – 5:30 PM, TUESDAY AFTERNOON AWARD LECTURE Jenny Brodbelt (University of Texas, Austin) presiding

Jenny Brodbelt (University of Texas, Austin) presiding Hall 5

Presentation of the 2015 Research Awards



Biemann Medal

Michael J. MacCoss University of Washington

5:45 – 7:00 PM, TUESDAY AFTERNOON WORKSHOPS

There are light refreshments in the common areas.

- 01. Laboratory Developed Test Guidance and Mass Spectrometric Diagnostics: Impact and Expectations, Room 130
- Current Trends, Gaps, and Needs in Workflows for Targeted Protein Quantitation by LC/MS, Room 131
- 03. ProeomicsDB. Room 132

- 04. FTMS: MS/MS at High Resolution, Room 123/124
- Identifying Tandem Mass Spectra of Lipids and Carbohydrates, Room 120/127
- 06. MS Analysis of Antibody-Drug Conjugates, Room 260/267
- 07. Measuring the exposome: Strategies and preliminary results, Room 274
- Advancements and Discussion of Mass Spectrometry Technology and Challenges within the Polymer and Material Fields, Room 275
- The ABCs of Being a Great Reviewer for Scientific Journals, Room 230
- How to Network without Really Trying: A Forum for Current (and Future) Mass Spectrometrists in Industry, Room 231
- 11 Room 232
- Invalidating your Cores Data: Examples on How to Check your Data and Report Results and Communicate Invalid or Bad Results to your Customers, Ballroom 222/224
- How Can Ion Mobility Spectrometry Separations Help your research? Ballroom 220/221

AFTER 8:00 PM
CORPORATE HOSPITALITY SUITES
RENAISSANCE GRAND HOTEL

WEDNESDAY MORNING ORAL SESSIONS

8:30 – 10:30 AM, WEDNESDAY MORNING AMBIENT AND ATMOSPHERIC PRESSURE GENERATION OF MULTIPLY-CHARGED IONIC SPECIES Abraham Badu-Tawiah (Ohio State University) presiding Hall 5

WOA am 08:30 How are Nearly Identical Charge States
Produced from the Solution (ESI) and Solid
(MAIV) States; Charles N. McEwen^{1, 2}; Sarah
Trimpin^{3, 4}; ¹Univ. of the Sciences, Philadelphia,
PA; ²MSTM, Newark, Delaware; ³Cardiovascular
Research Center, WSU, Detroit, MI; ⁴Wayne State

University, Detroit, MI
WOA am 08:50 A Suite of Liquid UV

WOA am 08:50 A Suite of Liquid UV-AP-MALDI Techniques for the Generation of Multiply Charged Ions at High Sensitivity with Stable, Long-Lasting Yield; Pavel Ryumin¹; Jeff Brown¹¹.²; Mike Morris²; Rainer Cramer¹; ¹University of Reading, Reading, UK;

²Waters Corporation, Wilmslow, UK

WOA am 09:10 Improving the Analysis of Proteins by
Desorption Electrospray Ionization (DESI)
by the Addition of Ammonium Bicarbonate,
Andre Venter; Elahe Honarvar; Western Michigan

University, Kalamazoo, MI

WOA am 09:30 Effects of Supercharging Reagents on Protein Stability in Bulk Solution and Insight into the Mechanism of Supercharging; Catherine Going;

WOA am 09:50

Beryl Xia; Evan Williams; , Berkeley, CA

Molecular Dynamics Simulations Yield Atomistic
Insights Into Electrospray Mechanisms: From

Salt Clusters to Protein Ions; <u>Lars Konermann</u>; Robert G. McAllister; Haidy Metwally; *Univ. of Western Ontario, London, Canada*

WOA am 10:10 **Particle Size Selected Inlet Ionization**; Kermit K. Murray; Fan Cao; Fabrizio Donnarumma; Louisiana

State University, Baton Rouge, LA

8:30 – 10:30 AM, WEDNESDAY MORNING INFORMATICS: PRM AND DIA Brendan MacLean (University of Washington) presiding Room 130/132

WOB am 08:30 Targeted Analysis of MS1 Only DIA Data; Oliver M. Bernhardt¹; Roland M. Bruderer¹; Yue Xuan²; Tejas Gandhi¹; Paul Boersema³; Paola Picotti³; Lukas Reiter¹; ¹Biognosys AG, Zuerich, Switzerland; ²Thermo Fisher Scientific, Bremen, Germany;

WOB am 08:50

WOB am 08:50

Using DIA to Predict High-Responding Peptides
for Targeted Proteomics Experiments; Brian C.
Sparted Proteomics Experiments; Brian C.

<u>Searle</u>^{1,2}; Jarrett D. Egertson¹; James G. Bollinger¹; Michael J. Maccoss¹; ¹*University of Washington, Seattle, WA;* ²*Proteome Software Inc., Portland, OR* **Making the Transition from Targeted to DIA:**

WOB am 09:10 Making the Transition from Targeted to DIA:
Genetic Algorithms Enable Assay Portability;
Jacob D. Jaffe; Jennifer Abelin; Steven A. Carr; The
Broad Institute, Cambridge, MA

WOB am 09:30 Towards a "Load and Play" Solution for Parallel Reaction Monitoring Assays; Bruno Domon;
Sang Yoon Kim; Daniel Ayoub; Sebastien Gallien;
Luxembourg Clinical Proteomics Center, Strassen,
Luxembourg

WOB am 09:50 Sensitive Peptide Identification in Data-Independent Acquisition by Spectral Library Search; Jian Wang¹; Monica Tucholska²; Brett Larsen²; Anne-Claude Gingras²; Nuno Bandeira³; ¹UCSD, La Jolla, CA; ²Lunenfeld-Tanenbaum Research Institute, Toronto, Canada; ³University of California, San Diego, La Jolla, CA

WOB am 10:10 Toward an Optimal Computational Strategy for DIA Mass Spectrometry Data; Chih-Chiang Tsou¹; Anne-Claude Gingras²; Alexey Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI; ²Samuel Lunenfeld Research Institute, Mount Sinai H, Toronto. ON

WEDNESDAY MORNING ORAL SESSIONS



8:30 – 10:30 AM, WEDNESDAY MORNING ION MOBILITY: STRUCTURES Kevin Giles (Waters Corporation) presiding

WOC am 08:30 Mobility Calculations from Small Ions to
Macromolecular Complexes using the Electronic
Surface Representation; Yuri Alexeev¹; Joseph
Insley¹; Dmitri Fedorov²; Alexandre Shvartsburg³;

¹Argonne National Laboratory, Argonne, IL;

²Nanosystem Research Institute, Tsukuba, Japan;

³Wichita State University, Wichita, KS

WOC am 08:50

Pushing the Boundaries of Small Molecule
Analysis: using Ion Mobility MS and Gas-Phase
Infrared Spectroscopy To Study Protonation Site
Isomers; Jasper Boschmans¹; Stephan Warnke²;
Jongcheol Seo²; Jonathan P. Williams³; Kevin
Pagel²-⁴; Gert von Helden²; Filip Lemière¹; Frank
Sobott¹; ¹University of Antwerp, Antwerp, Belgium;
²Fritz-Haber-Institut der Max-Planck-Gesellschaft,
Berlin, Germany; ³Waters Corporation, Manchester,
UK; ⁴Freie Universität Berlin, Berlin, Germany

WOC am 09:10 Ion Mobility-Mass Spectrometry Reveals the Energy Landscape of Polyproline Folding;

Liuqing Shi¹; Alison Holliday²; Matthew Glover¹;
Michael Ewing¹; David Russell³; David Clemmer¹;

¹Indiana University, Bloomington, IN; ²Moravian
College, Bethlehem, PA; ³Texas A&M University,
College Station. TX

WOC am 09:30 Structural Analysis of Monomeric and Dimeric Neuropeptide Y (NPY) with IM-MS, HDX MS, and MD simulations; Xueqin Pang¹; Christopher B. Lietz²; Lingjun Li¹; ¹School of Pharmacy, University of Wisconsin, Madison, WI; ²Department of Chemistry, University of Wisconsin, Madison, WI

WOC am 09:50

HDX-TIMS-MS and Molecular Dynamics Reveal Folding Pathways in DNA-Binding Proteins;
Emily Schenk¹; Frederic Nau¹; Genevieve Gozo¹;
Mark Ridgeway²; Melvin A. Park³; Fenfei Leng¹;
Francisco Fernandez Lima¹; ¹Florida International
University, Miami, FL; ²Bruker Daltonic, Billerica,
MA; ³Bruker Daltonics, Inc., Billerica, MA

WOC am 10:10 Novel Insights into the Structural Dynamics and Effects of Ligand-Binding on Protein Kinase A using Ion Mobility-Mass Spectrometry; Matthias Vonderach; Dominic Byrne; Samantha Ferries; Patrick Eyers; Claire Eyers; University of Liverpool, Liverpool, UK

8:30 – 10:30 AM, WEDNESDAY MORNING CARBOHYDRATES Robert Chalkley (UCSF) presiding Room 120/127

WOD am 08:30 Characterization of Highly Heterogeneous Protein-Heparin Complexes using Novel Mass Spectrometry-Based Approaches; Yunlong Zhao; Rinat Abzalimov; Igor A. Kaltashov; University of Massachusetts, Amherst, MA

WOD am 08:50 A New Image of Wheat Cell Walls Revealed through MS Imaging and Ion Mobility; Dušan Veličković; Fabienne Guillon; Luc Saulnier; Hélène Rogniaux; INRA, Nantes, France

WOD am 09:10 Resin-Based and Magnetic Nanoparticle-Based Biomimetic Reagents for Glycan Structure Determination by Mass Spectrometry; Jinshan Gao; Jungeun Lee; Nikunj Desai; Montclair State University, Montcalir, NJ

WOD am 09:30 Coupling of FANGS to the INLIGHT™ Strategy for Accurate Relative Quantification of N-Glycans Derived from Minimal Biological Material;
Elizabeth S. Hecht; James P. McCord; Rebecca

North Carolina State University, Raleigh, NC
WOD am 09:50
The Use of Isotopically Labeled IgG for the
Relative and Absolute Quantitation of N-linked
Glycans; Ron Orlando^{1, 2}; Shujuan Tao¹; Yining
Huang¹; Emily Betchy¹; Barry Boyes^{2, 3}; Alex
Harvey²; ¹Complex Carbohydrate Research
Center, UGA, Athens, GA; ²GlycoScientific, LLC,
Athens, GA; ³Advanced Materials Technology Inc.,
Wilmington. DE

Wysocky: James N. Petitte: David C. Muddiman:

WOD am 10:10 Integrated Glycomics and Proteomics Study for Astrocytoma from 118 Patient Samples; Chun Shao; Lilla Turiak; Nancy Leymarie; Joseph Zaia; Boston University School of Medicine, Boston, MA

8:30 – 10:30 AM, WEDNESDAY MORNING FT, ION TRAPS AND HYBRID INSTRUMENTS Eugene Nikolaev (Institute for Energy Problems and Chemical Physics) presiding Theater

WOE am 08:30 Experimental Investigation of Linear Quadrupole and Octopole Ion Traps for External Ion Accumulation for High Field FT-ICR MS; Donald F. Smith¹; Nathan K. Kaiser¹; John P. Quinn¹; Steven C. Beu²; Alan G. Marshall¹.³; Christopher L. Hendrickson¹; ¹National High Magnetic Field Laboratory, FSU, Tallahassee, FL; ²S C Beu Consulting, Austin, TX; ³Dept. Chem. & Biochem., Florida State University, Tallahassee, FL

WOE am 08:50 Towards Parallel Mass Spectrometry with a Novel Multi-Quadrupole Ion Trap (MultiQ-IT);
Andrew N. Krutchinsky; Herbert Cohen; Brian T.
Chait; The Rockefeller University, New York, NY

WOE am 09:10 Time-Dependent Modulation of Reflectron Plate
Potential for Increased Charge Density and
Reduced Dephasing in an Electrostatic Linear
Ion Trap; Eric Dziekonski; Scott McLuckey; Purdue
University, West Lafayette, IN

WOE am 09:30 Middle Down Proteomics by MS3 on a Tribrid Mass Spectrometer; Jolene K. Diedrich; Mathieu Lavallée-Adam; Antonio F. M. Pinto; James J. Moresco; John R. Yates III; The Scripps Research Institute, La Jolla, CA

WOE am 09:50 Parallel Detection of lons with an ICR Cell Array;

Sung-Gun Park¹; Gordon Anderson²; James Bruce¹;

¹University of Washington, Seattle, WA; ²GAA

Custom Engineering, LLC, Benton, WA

WOE am 10:10 Novel mass analyzers for rapid highperformance FT-ICR MS; Yury Tsybin¹,²; Anton Kozhinov¹; Konstantin Nagornov¹; ¹Ecole Polytechnique Federale, Lausanne, Switzerland; ²Spectroswiss Sàrl, Lausanne, Switzerland

8:30 – 10:30 AM, WEDNESDAY MORNING MASS SPECTROMETRY IN STRUCTURAL BIOLOGY Arthur Laganowsky (Texas A&M Health Science) presiding Room 106

WOF am 08:30 Measuring the Binding Interfaces of Protein Complexes by Gas-Phase Hydrogen/Deuterium Exchange Mass Spectrometry (Gas-Phase HDX-MS); Ulrik H. Mistarz¹; Jeffery M. Brown²; Kim F. Haselmann³; Kasper D. Rand¹; ¹Department of Pharmacy, University of Copenhagen, Copenhagen, Denmark; ²Waters MS Technologies Centre, Wilmslow, U. K; ³Diabetes Protein Engineering, Novo Nordisk A/S, Måløv, Denmark

WEDNESDAY MORNING ORAL SESSIONS



WOF am 08:50 Development of Isotope-Encoded Protein Footprinting for Mass Spectrometry-based

Protein Conformational Studies; Hao Zhang; Haijun Liu; Michael L. Gross; Robert E. Blankenship; Washington University. Saint Louis, MO

WOF am 09:10 Distinctive Structural Dynamics in Ras and

Related Proteins by Hydrogen Exchange Mass Spectrometry; Rane Harrison¹; Martin Carrasco²; John Hunter²; Anuj Manandhar²; Kenneth Westover²; John Engen¹; ¹Northeastern University, Boston, MA; ²University of Texas Southwestern Medical Center, Dallas, TX

WOF am 09:30 Mass Spectrometry for Monitoring the Transfer of Iron-Sulfur Clusters between Proteins; William K. Russell; James Vranish; David Barondeau; David Russell; Texas A&M University, College Station, TX

WOF am 09:50 Structure Elucidation of Toyocamycin Nitrile Hydratase, a Hetero-hexameric Protein Complex, by Mass Spectrometry; Yang Song¹; Micah Nelp²; Vahe Bandarian²; Vicki H. Wysocki¹; ¹The Ohio State University, Columbus, OH; ²The University of Arizona, Tucson, AZ

WOF am 10:10 Using Cross-Linking Coupled to Mass
Spectrometry and Integrated Modeling to Study
the Molecular Architecture of Large Protein
Assemblies; Florian Stengel^{1,2}; Erzberger Jan¹;
Riccardo Pellarin³; Suyang Zhang¹; Tanja Schaefer¹;
Christopher H. S. Aylett¹; Peter Cimermančič³;
Daniel Boehringer¹; Andrej Sali³; Ruedi Aebersold¹;
Nenad Ban¹; ¹ETH Zurich, Zurich, Switzerland;
²University of Konstanz, Konstanz, Germany;
³University of California, San Francisco, CA

8:30 – 10:30 AM, WEDNESDAY MORNING EPIGENETIC MODIFICATIONS AND MECHANISMS Kangling Zhang (University of Texas, Galveston) presiding Ballroom 222/224

WOG am 08:30 Modifications of the Mind: RNA Modifications
Profile of Differentiated Human Frontal Cortex
Cells; Maria Basanta-Sanchez¹; Subhrakanti Saha¹;
Sally Temple²; Mo Liu²; Paul Agris¹; ¹The RNA
Institute, University at Albany, Albany, NY; ²Neural
Stem Cell Institute, Rensselaer, NY

WOG am 08:50 Towards Understanding the Dynamics of Histone Combinatorial Proteoforms using a Boosted Middle-Down Proteomics Platform; Simone Sidoli¹; Chrystian Ruminowicz²; Kelly Karch¹; Shu Lin¹; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA; ²Private developer, Białystok, Poland

WOG am 09:10 Analysis of Histone Posttranslational
Modifications on Nascent Chromatin; Constance
Alabert¹; Teresa Barth²; Axel Imhof²; Anja Groth¹;
¹Biotech Research and Innovation Centre (BRIC),
Copenhagen, Denmark; ²Adolf-Butenandt-Institute,
Munich, Germany

WOG am 09:30 A Top-Down Approach to Decoding Histones
Using a Modified Tribrid Mass Spectrometer with
Improved Vacuum and ETD Performance; Yupeng
Zheng¹; Luca Fornelli¹; Philip D. Compton¹; Seema
Sharma²; Jesse D. Canterbury²; Christopher Mullen²;
Vlad Zabrouskov²; Jon A. Oyer¹; Jonathan D. Licht¹;
Michael W. Senko²; Neil L. Kelleher¹; ¹Northwestern
University, Evanston, IL; ²Thermo Fisher Scientific,
San Jose, CA

WOG am 09:50 Unraveling Site-Specific Acetylation using High Resolution Mass Spectrometry in HATs and HDACs Mutants of Fission Yeast; Nebiyu Abshiru¹. ²; Roshan Rajan^{1, 2}; Alain Verreault^{1, 2}; Pierre Thibault^{1, 2}; ¹University of Montreal, Montreal, QC, Canada; ²Institute for Research in Immunolgy and Cancer, Montreal, QC, Canada

WOG am 10:10 Mass Spectrometry-Based Characterization of Histone Methylation in Microglia after Ethanol Exposure; Joao Paulo Costa Pinho¹; Jennifer Guergues¹; Harris Bell-Temin¹; Bin Liu²; Stanley M. Stevens, Jr. ¹; ¹University of South Florida, Tampa, FL; ²University of Florida, Gainesville, FL

8:30 – 10:30 AM, WEDNESDAY MORNING APPLICATION OF STABLE ISOTOPE LABELING IN MS ANALYSIS OF SMALL MOLECULES AND PROTEINS Mingshe Zhu (Bristol-Myers Squibb) presiding Ballroom 220/221

WOH am 08:30

LC-MS Methods to Profile the Cow Milk

Metabolome and Determine the Effects of Milk

Consumption on the Human Urine Metabolome;

Dorothea Mung; Liang Li; University of Alberta,

Edmonton, Canada

WOH am 08:50 Developmental Stage of Tomato Leaves
Determines the Diversity and Dynamics of
Trichome Specialized Metabolites; Zhenzhen
Wang: A. Daniel Jones; Michigan State University,
East Lansing, MI

WOH am 09:10 Platelet Biomarkers of Metabolic Disturbances in Friedreich's Ataxia; Andrew J. Worth¹; Sankha S. Basu²; Eric C. Deutsch³; Wei-Ting Hwang¹; Nathaniel W Snyder¹; David R. Lynch³; Ian A. Blair¹; ¹University of Pennsylvania, Philadelphia, PA; ²Brigham & Women's Hospital, Harvard, Boston, MA; ³Departments of Neurology and Pediatrics, CHOP, Philadelphia, PA

WOH am 09:30 Hyperplex Amino Acid-based Isobaric Labels for Quantitative Proteomics; Qing Yu¹; Tyler Greer²; Lingjun Li³; ¹University of Wisconsin-Madison, Madison, Wisconsin; ²University of Wisconsin-Madison, Middleton, WI; ³University of Wisconsin, Madison, WI

WOH am 09:50 A Novel Triplex Isobaric Peptide Termini Labeling Approach for Quantitative Proteomics; Haojie Lu; Hongrui Yin; Lei Zhang; Liqi Xie; Ying Zhang; Fudan University, Shanghai, CHINA

WOH am 10:10 Large Scale Metabolic Exploration of Human CSF Proteins using Stable Isotope Labeling Amino Acid in-vivo (SILAV); Sylvain Lehmann¹; Jerôme Vialaret¹; Guillaume Gras Combe²; Luc Bauchet²; Mamadou Lamine Tall³; Olivier Hanon⁴; Audrey Gabelle⁵; Christophe Hirtz¹; ¹CHRU de Montpellier and Université de Montpellier, Montpellier, France; ²Service de Neurochirurgie, CHRU de Montpellier, Montpellier, France; ³Pharmacie, Groupement Hospitalier Edouard Herriot, Lyon , France; ⁴AP-HP, Hôpital Broca, Service de Gériatrie, Paris, France; ⁵Centre Mémoire Ressources CHRU Montpellier, Montpellier, France

10:30 AM - 2:30 PM, WEDNESDAY
WEDNESDAY POSTER SESSION
Poster/Exhibit Hall
Lunch concessions are open 11:00 am - 2:00 pm

WEDNESDAY AFTERNOON ORAL SESSIONS



2:30 – 4:30 PM, WEDNESDAY AFTERNOON AMBIENT IONIZATION: INSTRUMENTATION AND APPLICATIONS Douglas F. Barofsky (Oregon State University) presiding Hall 5

WOA pm 2:30 Development of a New Versatile Instrument Combining Laser Ablation Mass Spectrometry and Laser Emission Spectroscopy; Andreas Bierstedt¹; Ulrich Panne^{1, 2}; Jens Riedel¹; ¹BAM Federal Institute for Materials, Berlin, Germany; ²Humboldt University, Berlin, Germany

WOA pm 2:50

Species Identification by Chemotaxonomy,
Ambient Ionization, and Chemometrics with
Hierarchical Clustering.; Rabi Musah²; Robert
B. Cody¹; Edgard Espinoza³; Ashton Lesiak⁴; Earl
Christensen⁵; Hannah Moore⁶; Simin D. Maleknia⁻;
¹JEOL USA, Inc., Peabody, MA; ²University at
Albany-SUNY, Albany, NY; ³US National Fish
and Wildlife Forensics Laboratory, Ashland, OR;
⁴University at Albany, Albany, New York; ⁵National
Renewable Energy Laboratory, Golden, CO; ⁶Keele
University, Keele, UK; ʾUniversity of New South
Wales, Sydney, Australia

WOA pm 3:10 Development of a Solid-Phase Micro Extraction-Dielectric Barrier Discharge Ionization-Mass Spectrometry (SPME-DBDI-MS) Direct Coupling under Ambient Conditions: Approaching ppq Sensitivity; Mario Francesco Mirabelli; Jan-Christoph Wolf; Renato Zenobi; ETH Zurich, Switzerland, CH

WOA pm 3:30 Rapid Discrimination of Human Skin-related Microorganisms in vitro by Ambient Ionization Mass Spectrometry; Pu Wei¹; Alan Jamusch¹; Ahmed M. Hamid¹; Valentina Pirro¹; Rafal M. Pielak²; R. Graham Cooks¹; ¹Purdue University, West Lafayette, IN; ²L'Oréal California Research Center, San Francisco, CA

WOA pm 3:50 Coupling Charge Reduction Mass Spectrometry to Liquid Chromatography for Complex Mixture Analysis; John Stutzman; Matthew Crowe; James Alexander IV; Bruce Bell; The Dow Chemical Company, Collegeville, PA

WOA pm 4:10 Demonstrating the use of Surface Acoustic
Wave Nebulization (SAWN) on Multiplex Assay
of Lysosomal Storage Diseases; Angelo Condulle;
Frantisek Turecek; University of Washington,
Seattle, WA

2:30 – 4:30 PM, WEDNESDAY AFTERNOON INFORMATICS: PROTEIN IDENTIFICATION AND QUANTIFICATION

Oliver Kohlbacher (Universitat Tübingen) presiding Room 130/132

WOB pm 2:30 Top-Down Proteogenomics; Mikhail Kolmogorov;
Pavel Pevzner; UCSD, La Jolla, CA
WOB pm 2:50 MSPathFinder: An Open Source Proteoform
Identification and Quantification Tool for Top-

Down Proteomics; <u>Sangtae Kim</u>; Christopher S. Wilkins; Jungkap Park; Paul D. Piehowski; Anil K. Shukla; Yufeng Shen; Samuel H. Payne; Richard D. Smith; *Pacific Northwest National Laboratory, Richland, WA*

WOB pm 3:10 Picked Protein FDR, a Scalable Approach for Protein False Discovery Rate Estimation in Large Proteomic Data Sets; Mathias Wilhelm¹; Mikhail Savitski²; Hannes Hahne¹; Bernhard Kuster¹; Marcus Bantscheff²; ¹Technische Universität München, Freising, Germany; ²Cellzome GmbH a GSK company, Heidelberg, Germany

WOB pm 3:30 Protein Identification with Accurate Statistical Significance Assignment using Mass Spectrometry; Gelio Alves; Aleksey Ogurtsov; Yi-Kuo Yu; National Center for Biotechnology Information, NLM, Bethesda, MD

WOB pm 3:50

Controlling False Discovery Rates (FDRs) in Genome-Wide Proteomics Datasets; Stefka Tyanova; Pavel Sinitcyn; Matthias Mann; Juergen Cox; Max-Planck-Institute of Biochemistry, Martinsried, GERMANY

WOB pm 4:10

"How to Recover from a Bad Day" Data
Processing Tolerant to Experimental Errors;

Amandine Boudreau; Gordana Ivosev; Vlad
Savchenko; CJ Baker; Suya Liu; Stephen A Tate;
Sciex, Concord, Canada

2:30 – 4:30 PM, WEDNESDAY AFTERNOON REACTIONS, DYNAMICS AND THEORY OF GAS PHASE IONS Zhibo Yang (University of Oklahoma) presiding Room 123/124

WOC pm 2:30 Does Spin-Orbit Coupling Really Matter? The Interesting Case of Th+ + CH₄; Peter Armentrout¹; Richard M. Cox¹; Wibe de Jong²; ¹University of Utah, Salt Lake City, UT; ²Lawrence Berkeley National Laboratory, Berkeley, CA

WOC pm 2:50

Binding of Xe and Perflorinated Compounds
Inside Cucurbit[n]uril Hosts: Computational
and Experimental Results and Anomalous
Dissociation; Conner Harper; David V. Dearden;
Brigham Young University, Provo, UT

WOC pm 3:10 Opposing Charges in ESI-MS of Noncovalent Complexes Explain Many Observations; Rachel Loo; Huilin Li; Joseph A. Loo; UCLA, Los Angeles,

WOC pm 3:30 Using MS to Invent a New Metal Catalyzed "Molecular Switcheroo" Reaction; Richard A.

J. O'hair¹; George N. Khairallah²; Jiawei Li¹; Paul Donnelly¹; Asif Noor²; ¹University of Melbourne, Victoria, AUSTRALIA; ²Bio21 Inst, Uni of Melbourne, Melbourne, AUSTRALIA

WOC pm 3:50 Gas-Phase Conformations, Energetics, and Mechanisms for Glycosidic Bond Dissociation of Protonated 2'-Deoxycytidine and Cytidine;
Ranran Wu; Mary T. Rodgers; Wayne State University, Detroit, MI

WOC pm 4:10 New Insight into Ion/Molecule Chemistry with Isomeric Metal and Metal-Oxo Complexes using ESI-TWIMS-MS: C-F Bond-Activation, Active Species Structure and Mechanism; Nicole Rijs; Maria Schlangen; Helmut Schwarz; TU Berlin, Berlin, Germany

2:30 – 4:30 PM, WEDNESDAY AFTERNOON NUCLEIC ACIDS

Valérie Gabelica (University of Bordeaux) presiding Room 120/127

WOD pm 2:30 A Proteomics-like Pipeline for the Epitranscriptome: Automated Analysis of Posttranscriptionally Modified RNAs; Collin Wetzel; Patrick A. Limbach; University of Cincinnati, Cincinnati, OH

WOD pm 2:50

LC-MS/MS for Simultaneous Assessment of
Oxidative DNA Adducts and a DNA Epigenetic
Biomarker in an Animal Model of Wilson's
Disease; Yang Yu; Candace R. Guerrero; Yinsheng
Wang; University of California, Riverside, Riverside,
CA

WEDNESDAY AFTERNOON ORAL SESSIONS

WOD pm 3:10	Using Negative Mode ESI/MSMS to Sequence	2:30	0 – 4:30 PM, WEDNESDAY AFTERNOON
WOD pill 5.10	MiRNAs and Detect Modifications; Samuel Wein;		HANGE: TECHNOLOGIES AND APPLICATIONS
	Simone Sidoli; Benjamin A. Garcia; <i>University of</i>		erek Wilson (York University) presiding
	Pennsylvania, Philadelphia, PA	De	Room 106
WOD nm 2:20		WOE am 2:20	
WOD pm 3:30	Structural Elucidation and Antisense Properties	WOF pm 2:30	>95% Sequence Coverage within 10 Minutes for
	of a Sugar-Modified DNA Analogue; Yvonne Hari;		Structural Elucidation of Antibodies by Middle
	Christian Leumann; Stefan Schürch; Department of		Down HDX/MS; Jingxi Pan ¹ ; Suping Zhang ¹ ; Albert
1410D 0.50	Chemistry and Biochemistry, Bern, Switzerland		Chou¹; Christoph Borchers¹,²; ¹University of Victoria-
WOD pm 3:50	Ion Mobility and Tandem Mass Spectrometry		Genome BC Proteomics Centre, Victoria, BC,
	Reveal the Effects of Solution on Gas-phase		Canada; ² Dept. of Biochem. & Microbiol., Univ. of
	RNA Hairpin Structure; Kevin Ileka; Jessica		Victoria, Victoria, BC, Canada
	Rabuck-Gibbons; Brandon Ruotolo; Kristina	WOF pm 2:50	Temperature-dependent Conformational
	Hakansson; University of Michigan, Ann Arbor, MI		Dynamics in Whole Dengue Viral Particles
WOD pm 4:10	Discriminating Local Versus Global Dynamics		by Hydrogen/Deuterium Exchange Mass
	in Structured Biopolymers by Ion Mobility		Spectrometry ; Xin Xiang Lim; Arun Chandramohan;
	Spectrometry-Mass Spectrometry; Jennifer		Ganesh S. Anand; NUS Singapore, Singapore,
	<u>Lippens</u> ¹ ; Rebecca D'Esposito ¹ ; Srivathsan		Singapore
	Ranganathan1; Papa Nii Asare-Okai2; Daniele	WOF pm 3:10	Monte Carlo Simulations of Hydrogen Exchange
	Fabris ¹ ; ¹ The RNA Institute, University at Albany,		Reveal Surprising Insights about the Isotopic
	Albany, NY; ² State University of New York at Albany,		Distribution; David Weis; University of Kansas,
	Albany, NY		Lawrence, KS
		WOF pm 3:30	Exploring the Potential of Hydrogen-Deuterium
2:30) – 4:30 PM, WEDNESDAY AFTERNOON		Exchange Mass Spectrometry for Screening
	FOOD CHEMISTRY AND SAFETY		Protein/Ligand Interactions in Drug Discovery;
	Timothy Croley (FDA) presiding		Haihong Zhou ¹ ; Robin Rolser ¹ ; Robert Myers ¹ ;
	Theater		Judyann Wiltsie ¹ ; Jose Castro-Perez ¹ ; David
WOE pm 2:30	Beeromics: From QC to ID's of Differentially		McLaren ¹ ; Stephen Previs ¹ ; George Addona ² ;
	Expressed Compounds in Craft Beers; Christine		Michael Kavana ¹ ; ¹ Merck & Co., Inc., Kenilworth,
	A. Hughey; Chelsey McMinn; Jenny Phung; James		NJ; ² Merck Co. & Inc., Boston, MA
	Madison University, Harrisonburg, VA	WOF pm 3:50	Electrochemical Reduction of Large and
WOE pm 2:50	Evaluation of the Composition and Toxicity of		Highly Disulfide-Bonded Proteins – Complete
	Electronic Cigarette Liquids; Sandra E. Spencer1;		Sequence Coverage in HDX-MS Experiments;
	Rachel A. Harris ¹ ; Steven L. Reeber ¹ ; Phillip Clapp ² ;		Esben Trabjerg ^{1, 2} ; Rasmus U. Jakobsen ¹ ; Simon
	Ilona Jaspers ² ; Gary L. Glish ² ; ¹ UNC Chapel Hill,		Mysling ³ ; Søren Christensen ² ; Thomas J.D.
	Department of Chemistry, Chapel Hill, NC; 2UNC		Jørgensen⁴; Kasper D. Rand¹; ¹Department of
	Chapel Hill, School of Medicine, Chapel Hill, NC		Pharmacy, University of Copenhagen, Copenhagen,
WOE pm 3:10	Direct Identification of Prohibited Substances in		Denmark; ² Biologics, H. Lundbeck A/S, Valby,
	Cosmetics Using a Miniature Mass Spectrometry		Denmark; ³ Finsen Laboratory, Rigshospitalet and
	System; Qiang Ma ^{1, 2} ; R. Graham Cooks ² ; Zheng		BRIC, Copenhagen, Denmark; ⁴ Department of
	Ouyang ² ; ¹ Chinese Academy of Inspection and		Biochemistry and Molecular Biology, University of
	Quarantine, Beijing, China; ² Purdue University, West		Southern Denmark, Odense, Denmark
	Lafayette, IN	WOF pm 4:10	Investigating the Importance of Protein
WOE pm 3:30	Ambient Mass Spectrometry Imaging of Food		Conformational Dynamics During Catalysis
	Contaminants; Michel W. Nielen ^{1, 2} ; Wilco Duvivier ² ;		by HDX-MS: Focus on the F ₂ F ₄ -ATP Synthase
	Teris van Beek ² ; ¹ RIKILT-Institute of Food Safety,		Molecular Machine; Siavash Vahidi; Yumin Bi;
	Wageningen, Netherlands; ² Wageningen University,		Stanley Dunn; Lars Konermann; Univ. of Western
	Wageningen, NL		Ontario, London, CANADA
WOE pm 3:50	Identification of Biological Species using		
•	Spectral Libraries; Magnus Palmblad1; Merel	2:30	0 – 4:30 PM, WEDNESDAY AFTERNOON
	Nessen ² ; Tune Wulff ³ ; Hans Dalebout ¹ ; Rob	ENERGY, PETF	ROLEUM, AND BIOFUELS: ADVANCES IN SAMPLE
	Marissen¹; Dana Ohana¹; Suzanne van der Plas-	·	PREPARATION AND MS INERFACE
	Duivesteijn¹; Arzu Tugce Guler¹; Coen Mulders¹;	Mark P	P. Barrow (University of Warwick) presiding
	Sander Grevers ¹ ; Dennis van der Zwaan ² ; Alexandra		Ballroom 222/224
	Galitsyna ¹ ; Anastasia Stolyarova ¹ ; Martijn Staats ² ;	WOG pm 2:30	Modern Petroleomics; Ryan P. Rodgers ^{1, 2} ;
	Flemming Jessen ³ ; Martha van der Beek ¹ ; Jeroen		Winston K. Robbins ³ ; Jonathan Putman ² ; Vladislav
	de Keijzer¹; Peter van Veelen¹; Michael Engelbrecht		Lobodin ^{1, 2} ; Priscila Lalli ^{1, 2} ; David Podgorski ^{1,}
	Nielsen³; Esther Kok²; Ed Kuijper¹; Jonas Bergquist⁴;		² ; Steven Rowland ^{1, 2} ; Jie Lu ² ; Yuri Corilo ^{1, 2} ;
	André Deelder ¹ ; ¹ Leiden University Medical Center,		Alan Marshall ^{1, 4} ; ¹ National High Magnetic Field
	Leiden, Netherlands; ² RIKILT Wageningen UR,		Laboratory, Tallahassee, FL; ² Future Fuels Institute,
	Wageningen, Netherlands; National Food Institute,		Tallahassee, FL; ³ Consultant, Brunswick, ME;
	Technical University of D, Kgs. Lyngby, Denmark;		⁴ FSU Department of Chemistry and Biochemistry,
	⁴ Uppsala University, Uppsala, Sweden		Tallahassee. FL
WOE pm 4:10	Tracking Gluten Hydrolysis Throughout the	WOG pm 2:50	Monitoring the Photo Transformation of Crude
piii 4.10	Brewing Process; Katherine L. Fiedler; Rakhi	piii 2.00	Oils using SAIMS-FT-ICR MS; Paolo Benigni ¹ ;
	Panda; Whitney L. Stutts; Chung Y. Cho; Eric A.E.		Kathia Sandoval ¹ ; Christopher Thompson ² ; Mark
	Garber; Timothy R. Croley; CFSAN, U.S. FDA,		Ridgeway ³ ; Melvin A. Park ³ ; Piero Gardinali ¹ ;
	College Park, MD		Francisco Fernandez Lima¹; ¹Florida International
	Concess I air, IVID		University, Miami, FL; ² Bruker Daltonics Inc.,
			Billerica, MA; ³ Bruker Daltonic, Billerica, MA
			Dilicitoa, MA, Dianci Dallollo, Dilicitoa, MA

Billerica, MA; ³Bruker Daltonic, Billerica, MA

WEDNESDAY AFTERNOON ORAL SESSIONS



WOG pm 3:10 Petrochemical Isomer Distribution Analysis
Using Cold El GC/MS; Adam J. Patkin; Sharanya

Reddy; Andrew N. Tyler; PerkinElmer, Shelton, CT
WOG pm 3:30
Lignomic Profiling of Extractives from Grasses
using Electrospray Ionization and LC-TOFMS
with Gamma-Valerolactone as a Renewable HighBoiling Mobile Phase; Afrand Kamali Sarvestanii.

3; Leonardo Da Costa Sousa^{2,3}; Venkatesh Balan^{2,3};
Bruce E. Dale^{2,3}; A. Daniel Jones III^{1,3}; *Department
of Chemistry, Michigan State University, East
Lansing, MI; *Dept of Chemical Eng, Michigan
State University, East Lansing, MI; *Great Lakes
Bioenergy Research Center, East Lansing, MI

WOG pm 3:50

Determination of the Average Molecular
Weight of Crude Oil by Using Gas and
Liquid Chromatography and Tandem Mass
Spectrometry; Ravikiran Yerabolu; Raghavendhar
Kotha; Xueming Dong; Hilkka Kenttamaa; Purdue
University, West Lafayette, IN

WOG pm 4:10 Selective Chromatographic Separation of Crude
Oil Mixtures by Online Coupling with Ultrahigh
Resolution Mass Spectrometry; Wolfgang
Schrader; Alessandro Vetere; Lilla Molnárné
Guricza; Max-Planck Inst für Kohlenforschung.,
Mülheim / Ruhr, GERMANY

2:30 – 4:30 PM, WEDNESDAY AFTERNOON ANTIBODIES AND ANTI-BODY DRUG CONJUGATES Keyang Xu (Genentech, Inc.) presiding Ballroom 220/221

WOH pm 2:30 Comprehensive Characterization of Three IgG Forms using CESI-MS; Bryan Fonslow¹; Olga V. Friese²; K. Steven Cook²; ¹SCIEX, Brea, CA; ²Pfizer, Chesterfield. MO

WOH pm 2:50

In-depth Characterization of Lysine-Conjugated Antibody-Drug Conjugates (ADCs) by a

Multiplexed MS/MS Data Acquisition Strategy Combined with Multi-Enzyme Digestion; Liuxi
Chen¹; Robert Birdsall¹; Henry Shion¹; Ying-Qing
Yu¹; Frank Kotch²; April Xu³; Thomas Porter⁴; Weibin Chen¹; ¹Waters Corporation, Milford, MA; ²Pfizer Bioprocess Research & Development, Pearl River, NY; ³Pfizer Analytical Research & Development, Pearl River, NY; ⁴Pfizer Analytical Research & Development, Andover, MA

WOH pm 3:10 Antibody-Drug Conjugate (ADC) Bioanalysis by Immuno-capture LC-MS/MS Hybrid Assays: Challenges, Solutions and Complementarity with Ligand Binding Assays (LBA); Jian Wang; Ang Liu; Huidong Gu; Frank Zambito; Alexander Kozhich; Heather Myler; Mark Arnold; Anne-Françoise Aubry; Bristol-Myers Squibb, Princeton, NJ

WOH pm 3:30 Improved Top-Down and Middle-Down
Characterization of Complex Biopharmaceuticals
on a Modified Tribrid Mass Spectrometer; Luca
Fornelli¹; Philip D. Compton¹; Seema Sharma²;
Jesse D. Canterbury²; Christopher Mullen²; Vlad
Zabrouskov²; Michael W. Senko²; Andrew P.
Mazar¹; Neil L. Kelleher¹; ¹Northwestern University,
Evanston, IL; ²Thermo Fisher Scientific, San Jose, CA

WOH pm 3:50

Dissecting the FcRn Binding Mode of Antibodies with Different Pharmacokinetic Profiles by Hydrogen/Deuterium Exchange Mass

Spectrometry; Pernille Foged Jensen¹; Vincent Larraillet²; Angela Schoch²; Maximiliane Hilger²; Thomas Emrich²; Tilman Schlothauer²; Kasper D. Rand¹; ¹Department of Pharmacy, University of Copenhagen, Copenhagen, Denmark; ²pRED, Roche Innovation Center, Penzberg, Germany

WOH pm 4:10 Novel Sample Treatment and LC/MS Strategies
Achieved Highly Accurate and Sensitive
Investigation of Tissue Distributions of
Therapeutic Monoclonal Antibody; Ming Zhang;
Bo An; Haoying Yu; Jun Qu; SUNY at Buffalo,
Buffalo, NY

4:45 – 5:30 PM, WEDNESDAY AFTERNOON
ASMS MEETING
Jenny Brodbelt, ASMS President, presiding
Enjoy a beverage and hear the latest ASMS news.
Ballroom 222/224, level 2

5:45 – 7:00 PM, WEDNESDAY AFTERNOON WORKSHOPS

There are light refreshments in the common areas.

- 01. The role of High Resolution Mass Spectrometry in the Regulatory Environment, Room 130
- 02. Emerging Contaminants for Emerging Scientists, Room 131
- 03. Mass spectrometry instrumentation at the forefront of technology as miscible tools for forensic and security evidence, Room 132
- 04. Gas-phase ion chemistry: thermodynamics, kinetics, structures and spectroscopy. Room 123/124
- 05. Emerging Technologies Advancing Mass Spectrometry Research: 3D Printing, Room 120/127
- 06. CHORUS A community solution for the Storage Visualization, Sharing, and Analysis of Mass Spectrometry Data on the Cloud, Room 260/267
- 07. The Big Fat Questions: Tthe future for lipidomics in cell biology and clinical diagnostics? Room 274
- 08. Characterization of Protein Therapeutics by Mass Spectrometry, Room 275
- 09. Getting the Most out of Undergraduate Research in Mass Spectrometry, Room 230
- Working with Federal Agencies to Obtain Research Support: Mock NIH Study Section and Q&A with Agency Staff, Room 231
- 11. Room 232
- Ligand Binding Assays (LBA) and LC-MS/MS Integrated Antibody-Drug Conjugate (ADC) Bioanalysis -Immuno-capture LC-MS/MS Hybrid Assays: Challenges, Solutions, and Complementarity with LBA. Ballroom 222/224
- 13. Hydrogen-Deuterium Exchange, Covalent Labeling and Crosslinking, Ballroom 220/221

AFTER 8:00 PM
CORPORATE HOSPITALITY SUITES
RENAISSANCE GRAND HOTEL



THURSDAY MORNING ORAL SESSIONS



8:30 – 10:30 AM, THURSDAY MORNING MINI/OORTABLE/FIELDABLE MS Zheng Ouyang (Purdue University) presiding Hall 5

ThOA am 08:30 Investigation of NIR Diode Wavelength and Material Combinations for Increased Permeability in Portable Membrane Inlet Mass Spectrometry; Phillip Mach¹; Kenneth Wright²; Guido Verbeck¹; ¹University of North Texas, Denton, TX; ²Inficon, Syracuse, NY

ThOA am 08:50 Chemical Ionization Mass Spectrometry Using Carbon Nanotube Field Emission Electron Sources; Erich Radauscher¹; Adam Keil²; Mitch Wells²; Jason Amsden¹; Jeffrey Piascik³; Charles Parker¹; Brian Stoner³; Jeffrey Glass¹; ¹Duke University, Durham, NC; ²FLIR Systems, West Lafayette, IN; ³Engineering and Applied Physics Division, RTI Int, Research Triangle Park, NC

ThOA am 09:10 Rarefied Choked Flow in a Microscale Ion Trap
Operated at High Pressure; Bruno Coupier; Kevin
Schultze; Sorin Mitran; J. Michael Ramsey; UNC
Chapel Hill, Chapel Hill, NC

ThOA am 09:30 Old Dog, New Tricks: Enhanced Quadrupole Performance by Addition of a Magnetic Field; Simon Maher^{1, 2}; Sarfaraz U. A. Syed³; John R.Gibson²; Fred P. M. Jjunju²; Barry L. Smith⁴; David Taylor⁴; Iain S. Young¹; Ron M. A. Heeren³; Stephen Taylor²; ¹Institute of Integrative Biology, University of Liverpool, UK; ²Dept. of Electrical Engineering and Electronics, University of Liverpool, UK; ³FOM Institute for Atomic and Molecular Physics, Amsterdam, Netherlands; ⁴Q Technologies, Liverpool, UK

ThOA am 09:50 A Mini-Mass Spectrometer with Continuous
Atmospheric Pressure Interface: Pushing the
Limits of Ion Transfer Device, Vacuum System
and Ion Trap; Yanbing Zhai; Muyi He; Yongzheng
Wei; Wei Xu; Beijing Institute of Technology, Beijing,
CHINA

ThOA am 10:10 Development of Portable Particle Mass
Spectrometer with Ambient Aerodynamic Ion
Source; Caiqiao xiong¹; Yiming Zhang²; Suming
Chen¹; Zongxiu Nie¹; ¹Institute of Chemistry Chinese
Academy of Sciences, Beijing, China; ²Jiangsu
Skyray Instrument Inc., Suzhou, Kunshan

8:30 – 10:30 AM, THURSDAY MORNING INFORMATICS: PEPTIDE IDENTIFICATION AND QUANTIFICATION William Noble (University of Washington) presiding Room 130/132

ThOB am 08:30 Machine Learning Approach for Inferring Atomic Composition of Peptides from Peaks with Unresolved Isotopic Fine Structure; Tikira Temu¹; Annette Michalski¹.²; Stefka Tyanova¹; Matthias Mann¹; Juergen Cox¹; ¹Max-Planck Institute of Biochemistry, Martinsried, DE; ²Bruker Daltonik GmbH, Bremen, DE

ThOb am 08:50 Fast and Accurate Unrestricted Spectrum Interpretation: You Don't Know What You're Missing; Arun Devabhaktuni; Josh Elias; Stanford University, Stanford, CA

ThOB am 09:10 De novo Sequencing using MELD Proteolysis
Coupled to a "Sequence Assembly" Algorithm;
Gabriel Mazzucchelli¹; Tyler A Zimmerman²;
Nicolas Smargiasso¹; Dominique Baiwir³; MarieAlice Meuwis⁴; Edwin De Pauw¹; ¹Univeristy of
Liege, MS Lab - GIGA, Liege, Belgium; ²National
Institute of Standards and Technology, Gaithersburg,
MD; ³University of Liege, GIGA-Proteomics, Liege,
Belgium; ⁴CHU, Gastroenterology unit, Liege, Belgium

ThOB am 09:30 Isobaric Labeling Assisted Proteome
Identification and Quantification Based on
Database Search and Denovo Sequencing; Yichu
Shan¹; Shen Zhang¹.²; Lihua Zhang¹; Yukui Zhang¹;
¹Dalian Institute of Chemical Physics, dalian, china;
²Univiersity of Chinese Academy of Sciences,
Beijing, china

ThOB am 09:50 Increasing Depth of Proteomic Profiling in MS

Data-Dependent Acquisition (DDA) Discovery
Experiments Using Advanced Precursor Ion
Selection Algorithms; Simion Kreimer¹; William
Danielson²; Mikhail Belov²; Barry Karger¹; Alexander
R. Ivanov¹; ¹Barnett Inst., Northeastern University,
Boston. MA: ²Spectroalyph LLC, Kennewick, WA

ThOB am 10:10 Accurate and Rapid Quantification of Co-Eluting
Deamidated and Non-Deamidated Peptides
using a Novel Deconvolution Technique; Yong
Kill¹; Marshall W. Bern¹; Eric Carlson¹; Chris Becker¹;
David Morgenstern²; Beatrix Ueberheide²; ¹Protein
Metrics Inc., San Carlos, CA; ²NYU School of
Medicine, New York City, NY

8:30 – 10:30 AM, THURSDAY MORNING NEW AND DEVELOPING ION ACTIVATION METHODS Kaveh Jorabchi (Georgetown University) presiding Room 123/124

ThOC am 08:30 Enhancement of Ion Activation and CID by Simultaneous Dual Dipolar Excitation in X and Y Directions in Linear Ion Trap; Xiao Dong Xie¹; Qiankun Dang¹; Fuxing Xu¹; Xinhua Dai²; Xiang Fang²; Chuan-Fan Ding¹; ¹Fudan University, Shanghai, China; ²National Institute of Metrology, Beijing, China

ThOC am 08:50 Charge Transfer Dissociation (CTD) Mass Spectrometry; Glen Jackson; William Hoffmann; West Virginia University, Morgantown, WV

ThOc am 09:10 High-Energy (> 50 eV) Electron-Induced Dissociation of Therapeutic Drugs in a QTOF Mass Spectrometer; Yury V Vasil'ey; Valery G. Voinov; Samuel E. Bennett; Joseph S. Beckman; Douglas F. Barofsky; Oregon State University, Corvallis, OR

ThOC am 09:30 Ultraviolet Photodissociation for Analysis of
Native Proteins, Protein Complexes, and ChargeReduced Proteins in the Gas Phase; Dustin
Holden²; Jennifer Brodbelt¹; ¹The University of
Texas, Austin, TX; ²University of Texas Chemistry,
Austin. TX

ThOC am 09:50 Interrogation of Protein Structure using
Conformer Selection, UVPD, and ETnoD; Bruno
Bellina¹; Jeff Brown²; Jakub Ujma¹; Kevin Giles²;
Paul Murray²; Rebecca Beveridge¹; Eleanor
Dickinson¹; Jonathan P. Williams²; Mike Morris²;
Perdita Barran¹; ¹The University of Manchester,
Manchester, UK; ²Waters Corporation, Wilmslow, UK

ThOC am 10:10 Efficient and Selective Covalent Bond Formation between Peptide Ion Dimers Using 355 nm Light;

Christopher Shaffer; Andy Dang; Emilie Viglino; Frantisek Turecek; University of Washington, Seattle, Washington

8:30 – 10:30 AM, THURSDAY MORNING NEW NANO-SCALE AND MICROFLUIDIC SEPARATIONS AND MS Liangliang Sun (University of Notre Dame) presiding Room 120/127

ThOD am 08:30 A Handheld Ultrafast CE Interfaced to MS for the Analysis of Explosives, Illicit Drugs, Amino Acids and their Optical Isomers; Mehdi Moini; Christopher Rollman; George Washington University, Washington, DC

THURSDAY MORNING ORAL SESSIONS



- ThOD am 08:50 Identification of Metabolites in Crustacean
 Hemolymph via in vivo Microdialysis by
 Capillary Electrophoresis-Matrix-Assisted Laser
 Desorption/Ionization Mass Spectrometric
 Imaging Platform; Shan Jiang; Zhidan Liang;
 Lingjun Li; UW-Madison, Madison, WI
- ThOD am 09:10 Development, Characterization and Application of Slug Flow Microextraction (SFME) for Direct MS Analysis of Biological Samples; Yue Ren; Zheng Ouyang; Purdue University, West Lafayette,
- ThOD am 09:30 Microchip Capillary Electrophoresis with Integrated Electrospray Ionization for Rapid and Efficient Analysis of Polar Metabolites in Biological Samples; J. Scott Mellors¹; Michael Pacold³; Elizaveta Freinkman³; Erin Redman²; J. Michael Ramsey²; ¹908 Devices Inc., Boston, MA; ²University of North Carolina, Chapel Hill, NC; ³Whitehead Institute for Biomedical Research, Cambridge, MA
- ThOD am 09:50

 Development of High Sensitivity Intact

 Monoclonal Antibody (mAb) Analysis Using an
 Intergrated Microfluidics MS System; Gregory

 Roman; Henry Shion; Weibin Chen; James Murphy;
 Waters Corporation. Milford, MA
- ThOD am 10:10 Analysis of Proteins, Protein Complexes and Proteomes under Non-Denaturing Conditions Using Sheathless Capillary Electrophoresis Coupled with Native Mass Spectrometry;

 Alexander R. Ivanov¹; Rosa Viner²; Marcia R. Santos³; Arseniy M. Belov¹; Chitra K. Ratnayake³; David M. Horn⁴; Marshall W. Bern⁵; Barry L. Karger¹;

 **Barnett Inst., Northeastern University, Boston, MA;

 **ThermoFisher Scientific, San Jose, CA;
 **Sprotein Metrics, Palo Alto, CA

8:30 – 10:30 AM, THURSDAY MORNING STRUCTURE/REACTIVITY AND ENERGETICS OF GAS-PHASE IONS AND COMPLEXES Ken Ervin (University of Nevada, Reno) presiding Theater

- ThOE am 08:30 Gas-Phase Reactivity of Phenoxyl Radical Cations of Tyrosine and Related Model Compounds; Michael Lesslie¹; Andrii Piatkivskyi¹; Sandra Osburn²; Richard A. J. O'Hair²; Victor Ryzhov¹; ¹Northern Illinois University, Dekalb, IL; ²University of Melbourne. Melburne. Australia
- ThOE am 08:50 The Effects of Protonation vs Noncovalent Interactions with Sodium Cations on the Structures and Stability of DNA and RNA Nucleosides; Mary T. Rodgers¹; Ranran Wu¹; Yanlong Zhu¹; Chenchen He¹; Stephen Strobehn¹; Juehan Gao²; Jos Oomens²; ¹Wayne State University, Detroit, MI; ²Radboud University Nijmegen, Nijmegen, NETHERLANDS
- ThOE am 09:10 Gas-Phase Reactions of Ionic Liquid Anions;
 Charles Nichols^{1, 2}; W. Carl Lineberger^{1, 2}; Veronica
 M. Bierbaum^{1, 2}; ¹University of Colorado, Boulder,
 CO; ²JILA, Boulder, Colorado
- ThOE am 09:30 Pushing it to the Red: Probing the Influence of Ligands on the Antisymmetric Uranyl Stretching Frequency using IRMPD Spectroscopy; Michael J. Van Stipdonk¹; John Gibson²; Bert De Jong²; Phuong Dau²; Giel Gerden³; Jos Oomens³; ¹Duquesne University, Pittsburgh, PA; ²Lawrence Berkeley Nat'l Lab, Berkeley, CA; ³Radboud University Nijmegen, Nijmegen, Netherlands

- ThOE am 09:50 Water-Network Mediated, Electron Induced Proton Transfer in Anionic [C₅H₅N•(H₂O)_n] Clusters: Size-Dependent Formation of the Pyridinium Radical for n ≥ 3; Andrew F. DeBlase^{1,4}; Gary H. Weddle^{2,4}; Kaye A. Archer³; Kenneth D. Jordan³; Mark A. Johnson⁴; ¹Purdue University, West Lafayette, IN; ²Fairfield University, Fairfield, CT; ³University of Pittsburgh, Pittsburgh, PA; ⁴Yale University. New Haven. CT
- ThOE am 10:10 Disentangling Reactive Isomers in Combustion
 Chemistry using Photoelectron Photoion
 Coincidence Spectroscopy; Tina Kasper¹; Thomas
 Bierkandt¹; Patrick Oßwald²; Markus Köhler²;
 Patrick Hemberger³; ¹Thermodynamics, University
 of Duisburg-Essen, Duisburg, Germany; ²DLR
 Institute of Combustion Technology, Stuttgart,
 Germany; ³Molecular Dynamics Group, SLS, Paul
 Scherrer Inst., Villigen, Switzerland

8:30 – 10:30 AM, THURSDAY MORNING MS IN PROTEIN FOOTPRINTING: MICHAEL GROSS 75TH BIRTHDAY Ragu Ramanathan and hristopher I. Holliman (Pfizer Inc.) presid

Christopher L. Holliman (Pfizer, Inc.) presiding Room 106

- ThOF am 08:30 Review of Fast PhotoChemical Oxidative
 Footprinting Development in the Gross Lab;
 David Hambly; Amgen Inc., Longmont, CO
- ThOF am 08:50 In Cell Protein Footprinting for the Analysis of Protein Structure; Lisa M. Jones; Indiana University-Purdue University Indianapolis, Indianapolis. IN
- ThOF am 09:10 Mass Spectrometry for Probing Protein Higher
 Order Structure: An Industry Perspective;
 Guodong Chen; Richard Huang; Hui Wei; Ekaterina
 Deyanova; Bethanne Warrack; Adrienne Tymiak;
 Bristol-Myers Squibb, Princeton, NJ
- ThOF am 09:30

 Fast Photochemical Oxidation of Proteins
 (FPOP) Reveals the Binding Interface of an
 Antigen and Antibody; Ying Zhang¹; Aaron
 Wecksler²; Patricia Molina²; Galahad Deperalta²;
 Michael L. Gross¹; ¹Washington University in St.
 Louis, St. Louis, MO; ²Genentech Inc., South San
 Francisco, CA
- ThOF am 09:50 Protein Footprinting for Quantitative Topography
 Analysis of Protein Structure; Mark Chance;
 Janna Kiselar; Parminder Kaur; Case Western
 Reserve University, Cleveland, OH
- ThOF am 10:10 HDX, FPOP, and Specific Amino-acid Labeling are Complementary Methods for MS-based Protein Footprinting; Michael L. Gross; Washington University, St Louis, MO

8:30 – 10:30 AM, THURSDAY MORNING TARGETED QUANTIFICATION OF PROTEINS AND POST-TRANSLATIONAL MODIFICATIONS Birgit Schilling (Buck Institute for Research on Aging) presiding

- Ballroom 222/224
- ThOG am 08:30 Proteoform Reaction Monitoring by TopDown Proteomics: Moving from Discovery to
 Targeted Validation of Intact Protein Biomarkers;
 Timothy K. Toby¹; Luca Fornelli¹; Kyunggon Kim¹;
 Michael M. Abecassis²; Daniel R. Salomon³; Neil
 L. Kelleher¹; ¹Northwestern University, Evanston,
 IL; ²Northwestern Feinberg School of Medicine,
 Chicago, IL; ³The Scripps Research Institute, La
 Jolla, CA

THURSDAY MORNING ORAL SESSIONS



ThOG am 08:50 Ubiquitin Ser65 Phosphorylation Affects
Ubiquitin Structure, Chain Assembly and
Hydrolysis; Kirby Swatek; Tobias Wauer; Jane
Wagstaff; Christina Gladkova; Jonathan Pruneda;
Martin Michel; Malte Gersch; Christopher Johnson;
Stefan Freund; David Komander; MRC Laboratory
of Molecular Biology, Cambridge, UK

ThOG am 09:10 Refinement of Parallel Reaction Monitoring
Methods to Improve Accuracy in Peptide
Quantification; Sebastien Gallien; Daniel Ayoub;
Sang Yoon Kim; Antoine Lesur; Bruno Domon;
Luxembourg Clinical Proteomics Center, Strassen,
LUXEMBOURG

ThOG am 09:30 Optimized Protocol for MRM-based Protein
Quantification in Archived Cancer Tissues;
Jacob Kennedy¹; Regine Schoenherr¹; Ping Yan¹;
Jeff Whiteaker¹; Richard Ivey¹; Melissa Lerch²;
Geoffrey Baird²; Andy Hoofnagle²; Amanda
Paulovich¹; ¹Fred Hutchinson Cancer Research
Center, Seattle, WA; ²UW Dept of Laboratory
Medicine, Seattle, WA

ThOG am 09:50 Using Targeted Proteomics to Characterize the Relative Distribution of Apolipoprotein E Allele-Specific Isoforms in Clinically-Relevant Matrices; James G. Bollinger¹; Han-Yin Yang¹; Clark Henderson¹; Nicole Kuderer¹; Christine Wu²; C. Anthony Blau¹; Andrew Hoofnagle¹; Michael MacCoss¹; ¹University of Washington, Seattle, WA; ²Stratus Biosciences, Seattle, WA

ThOG am 10:10 From Discovery Proteomics to Targeted Biomarker Assays: Identification of Tau Post-Translational Modifications that Track O-GlcNAcase inhibition by Thiamet G; Nathan G. Hatcher¹; Ronald A. Miller¹; Zhenlian Ke¹; Julie Lee²; Helene L. Cardasis³; Giuseppe Terracina²; Lili Zhang⁴; Jacob Marcus¹; Xiaohai Wang¹; Dawn M. Toolan¹; Bonnie J. Howell¹; John J. Renger¹; Sean M. Smith¹; Daniel S. Spellman¹; ¹Merck Research Labs, West Point, PA; ²Merck Research Labs, Kenilworth, NJ; ³Thermo Fisher Scientific, Cambridge, MA; ⁴Novartis Institute for Biomedical Research, Cambridge, MA

8:30 – 10:30 AM, THURSDAY MORNING
ION MOBILITY: SMALL MOLECULES,
PHARMACEUTICALS AND DMPK
Erkinjon Nazarov (University of South Florida) presiding
Ballroom 220-221

ThOH am 08:30 Potential for Ion Mobility Spectrometry in Small Molecule Chiral Analysis; Tawnya Flick; Iain D G Campuzano; Michael D Bartberger; Amgen Inc., Thousand Oaks, CA

ThOH am 08:50 Separation of Isomeric Steroids using Ion
Mobility QTOF-LC/MS; Christopher D. Chouinard¹;
Christopher R. Beekman¹; Timothy J. Garrett²;
Richard A. Yost¹; ¹Department of Chemistry,
University of Florida, Gainesville, FL; ²Department
of Pathology, University of Florida, Gainesville, FL

of Pathology, University of Florida, Gainesville, FL
ThOH am 09:10

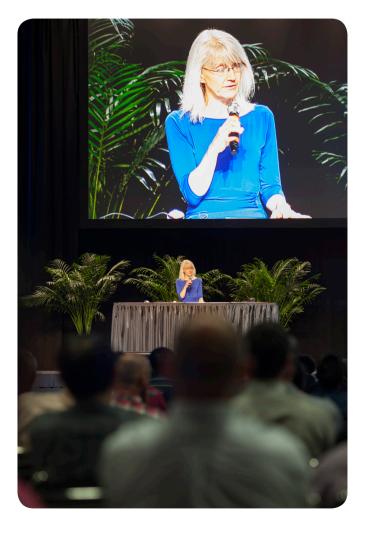
Collision Cross Section Calibration Strategies
for Traveling-Wave Ion Mobility - Mass
Spectrometry in Negative-Ion Mode; Jay
Forsythe^{1, 2}; Chelsea Walker^{1, 2}; Anton Petrov^{1, 2};
Samuel Allen³; Matthew Bush³; Nicholas Hud^{1, 2};
Facundo Fernandez^{1, 2}; †Georgia Tech, School of
Chemistry and Biochemistry, Atlanta, GA; ²NSF/
NASA Center for Chemical Evolution, Atlanta, GA;
³University of Washington, Department of Chemistry,
Seattle, WA

ThOH am 09:30 Comprehensive Screening and Characterisation of Metabolites and Biomolecules by Collisional Cross Section using a Novel Geometry Travelling-Wave IMS-QTof Mass Spectrometer; Richard Gallagher¹; Christine Pattison¹; Kathryn Pickup¹; Nick Tomczyk², Martin Palmer²; Jason Wildgoose²; Darren Hewitt²; Daniel Weston²; 'Astrazeneca, Macclesfield, UK; 'Waters, Wilmslow,

ThOH am 09:50 Ultra-Fast Separation and Quantification of Isobaric Barbiturates in Serum using LDTD-MS/MS Combined with Differential Mobility Spectrometry; Sylvain Letarte; Alex Birsan; Serge Auger; Jean Lacoursière; Pierre Picard; Phytronix Technologies, Inc., Quebec, Canada

ThOH am 10:10 Application of Differential Mobility Spectrometry
Coupled with Multiple Ion Monitoring for
Quantitation of Peptides Not Suited for MRM
Analysis; Yuan-Qing Xia¹; Eugene Ciccimaro, Jr²;
Naiyu Zheng²; Mingshe Zhu²; 'Sciex, Framingham,
MA; 'Bristol-Myers Squibb Company, Lawrenceville,
NJ

10:30 AM – 2:30 PM, THURSDAY THURSDAY POSTER SESSION Poster/Exhibit Hall Lunch concessions are open 11:00 am – 2:00 pm



THURSDAY ATERNOON ORAL SESSIONS



2:30 – 4:30 PM, THURSDAY AFTERNOON MS IN SURGERY

Zoltan Takats (Imperial College London) presiding Hall 5

- ThOA pm 2:30 Development of a System for the Investigation of Near Real-Time Tissue Identification Using Rapid Evaporative Ionisation Time-of-Flight Mass Spectrometry.; Steven Pringle1; Julia balog2; Emrys A Jones1; Tamas Karancsi2; Keith Richardson1; Mike Morris1; 1Waters Corporation, Wilmslow, United Kingdom; 2Waters Research Center, Budapest, Hungary
- ThOA pm 2:50 Ambient Ionization MS for Rapid Tissue
 Diagnosis During Surgical Intervention of
 Human Brain Cancer; Alan Jarmusch¹; Valentina
 Pirro¹; Zane Baird¹; Clint Alfaro¹; Eyas Hattab²;
 Aaron Cohen-Gadol³; R. Graham Cooks¹; 'Purdue
 University-Department of Chemistry, West Lafayette,
 IN; 'Department of Pathology, IUSM, Indianapolis,
 IN; 'Department of Neurological Surgery, IUSM,
 Indianapolis, IN
- ThOA pm 3:10 Chemical Biopsy based on SPME Approach: A
 New Medical Tool; Janusz Pawliszyn¹; Barbara
 Bojko¹; German Augusto Gomez-Rios¹; Krzysztof
 Gorynski¹; Jan Matthias Knaak²; Tiago Machuca³;
 Erasmus Cudjoe¹; Vinzent Spetzler²; Michael Hsin³;
 Markus Selzner²; Mingyao Liu³; Marcelo Cypel³;
 Shaf Keshavjee³; ¹University of Waterloo, Waterloo,
 Canada; ²Department of Surgery, Toronto General
 Hospital, Toronto, Canada; ³University Health
 Network, University of Toronto, Toronto, Canada
- ThOA pm 3:30

 Endometriosis Foci Differentiation by Direct
 High Resolution Mass Spectrometry Methods.;
 Alexey Kononikhin^{1, 4}; Anna Bugrova^{1, 3}; Natalia
 Starodubtseva^{1, 2}; Anna Borisova¹; Denis Bormotov⁴;
 Yury Kostyukevich²; Vladimir Naumov¹; Igor
 Popov⁴; Vladimir Frankevich¹; A. V. Kozachenko¹;
 E. A. Kogan¹; Leila V. Adamyan¹; Gennady T.
 Sukhikh¹; Eugene Nikolaev^{2, 4}; ¹Research Center for
 Obstetrics, Gynecology, Moscow, Russia; ²Institute
 for Energy Problems of Chemical Physics, Moscow,
 Russia; ³Emanuel Institute of Biochemical Physics,
 Moscow, Russia; ⁴Moscow Institute of Physics and
 Technology, Moscow, Russia
- ThOA pm 3:50 Molecular Assessment of Gastric and Pancreatic Cancer Surgical Margins by Ambient Mass Spectrometry Imaging; Livia S. Eberlin; Robert Tibshirani; Katy Margulis-Goshen; Ivette Planell-Mendez; Moe Jalali; Teri A. Longacre; George A. Poultsides; Richard N. Zare; Stanford University, Stanford, CA
- ThOA pm 4:10 Development of a Novel Instrument for ex-vivo and in-vivo Real-Time Analysis; Benoit Fatou¹; Maxence Wisztorski¹; Cristian Fosca²; Michael Ziskind²; Michael Salzet¹; Isabelle Fournier¹; ¹INSERM U1192 PRISM University of Lille, Villeneuve d'Ascq, France; ²CNRS UMR 8523 PhLAM University of Lille, Villeneuve d'Ascq, France

2:30 – 4:30 PM, THURSDAY AFTERNOON MULTI-PTMS: COMPREHENSIVE ANALYSIS Leslie M. Hicks (University of North Carolina, Chapel Hill) presiding Room 130/132

ThOB pm 2:30 Comprehensive Discovery of Protein Posttranslational Modifications in Proteomic Datasets; Michael R. Shortreed¹; Qiyao Li¹; Brian L. Frey¹; Craig D. Wenger²; Mark Scalf¹; Lloyd M. Smith¹; ¹University of Wisconsin, Madison, WI; ²Unaffiliated, North Branford, CT

- ThOB pm 2:50 Peptide Variant Discovery in Lens Tissue using Penalty-Based Spectral Alignment; Laurence E.

 Bernstein; Nuno Bandeira; University of California, San Diego, La Jolla, CA
- ThOB pm 3:10 Complete Characterization of the Protein Post-Translational Modification Profiles through Combination of Native and Bottom-Up Mass Spectrometry; Fan Liu; Yang Yang; Albert J.R. Heck; Utrecht University, Utrecht, The Netherlands
- ThOB pm 3:30 Tracing Protein Post-Translational Modifications at Different Growth Stages of the Archaeon Sulfolobus islandicus with Bottom-Up and Top-Down Proteomics; Egor Vorontsov; Elena Rensen; David Prangishvili; Mart Krupovic; Julia Chamot-Rooke; Institut Pasteur, Paris, France
- ThOB pm 3:50 A Bottom-Up Informed Top-Down Approach
 Provides Insights into the Ubiquitin Code of
 Immune Cell Signaling; Giuseppe Infusini; Thomas
 Nebl; John Silke; Andrew Webb; The Walter & Eliza
 Hall Institute, Parkville, Australia
- ThOB pm 4:10 Sirtuin 4 is a Lipoamidase Regulating Pyruvate
 Dehydrogenase Complex Activity; Rommel
 Mathias; Todd M. Greco; Adam Oberstein; Hanna
 Budayeva; Rumela Chakrabarti; Elizabeth Rowland;
 Yibin Kang; Thomas Shenk; Ileana M. Cristea;
 Princeton University, Princeton, NJ

2:30 – 4:30 PM, THURSDAY AFTERNOON PEPTIDE FRAGMENTATION AND PEPTIDOMICS Carlito Lebrilla (University of California, Davis) presiding Room 123/124

- ThOC pm 2:30 Analytic Framework for Peptidomics Applied to Large-Scale Neuropeptide Identification;

 Christian Kelstrup¹; Anna Secher²; Jesper V. Olsen¹;

 ¹NNF CPR, University of Copenhagen, Copenhagen, Denmark; ²Novo Nordisk, Måløv, Denmark
- ThOC pm 2:50 Ion Mobility Peptidomic Analysis of Endogenous Peptides Reveals Functions through Conformations; Andres Guerrero¹; Miguel Angel Garcia Mompean²; Cassandra Yee¹; David Wong³; Carlito Lebrilla¹; ¹UC Davis, Chemistry Department, Davis, CA; ²Institute of Physical Chemistry Rocasolano, CSIC, Madrid, Spain; ³Agilent Technologies, Inc., Santa Clara, CA
- ThOC pm 3:10 Lymph-Carried Self-Antigens Derive from a
 Variety of Processing Enzymes and Contribute
 to the Dendritic Cells MHC II Peptidome; Cristina
 Clement¹; Aniuska Becerra²; Liusong Yin²; Valerio
 Zolla¹; Scott Shafer²; Lawrence J. Stern²; Laura
 Santambrogio¹; ¹Albert Einstein College Medicine,
 Bronx, NY; ²University of Massachusetts. Medical
 School, Worcester, MA
- ThOC pm 3:30 Incorporation of Ultra-Violet Photodissociation (UVPD) into a Phosphoproteomic Pipeline improves Phosphosite Assignments; Kyle L.

 Fort; Clement M. Potel; Andrey Dyachenko; Albert J.R. Heck; Utrecht University, Utrecht, Netherlands
- ThOC pm 3:50 Photodissociation Study of Hydrogen-Rich and Hydrogen-Deficient Cation Radicals in Tyrosine-Containing Peptides; Emilie Viglino; Christopher Shaffer; Frantisek Turecek; University of Washington, Seattle, Washington
- ThOC pm 4:10 Electron Deficient Radical B-Type Ions Undergo Sequence Scrambling and Dissociation by Different Mechanisms than Corresponding b-Ions; Declan Williams¹; Justin Kai-Chi Lau¹.²; Stefanie Maedler¹; Yating Wang¹; Junfang Zhao¹; Irine Saminathan¹; K.W. Michael Siu¹.²; Alan C. Hopkinson¹; ¹York University, Toronto, Canada; ²University of Windsor, Windsor, Canada

THURSDAY AFTERNOON ORAL SESSIONS



2:30 – 4:30 PM, THURSDAY AFTERNOON FORENSIC APPLICATIONS

Kenyon Evans-Nguyen (University of Tampa) presiding Room 120/127

ThOD pm 2:30 Identification of Plant-based Forensic
Evidence by Direct Analysis in Real Time Mass
Spectrometry (DART-MS), Chemotaxonomic
Profiling and Chemometrics; Ashton D. Lesiak¹;
Justine E. Giffen¹; Robert B. Cody²; A. John Dane²;
Rabi A. Musah¹; ¹University at Albany-SUNY,
Albany, NY; ²JEOL USA, Inc., Peabody, MA

ThOD pm 2:50 Rapid Analysis of Synthetic Cannabinoids using a Miniature Mass Spectrometer with Ambient Ionization Capability; Qiang Ma^{1, 2}; R. Graham Cooks²; Zheng Ouyang²; ¹Chinese Academy of Inspection and Quarantine, Beijing, China; ²Purdue University, West Lafayette, IN

ThOD pm 3:10 A New Approach in Hair Forensics: Longitudinal Scanning of Drugs of Abuse in Hair using DART-MS; Wilco F. Duvivier¹; Teris A. van Beek¹; Michel W.F. Nielen^{1,2}; ¹Wageningen University, Wageningen, The Netherlands; ²RIKILT-Institute of Food Safety, Wageningen, The Netherlands

ThOD pm 3:30 Isobaric Drug Analyses using Hydrogen/
Deuterium Exchange and CID; William D.
Hoffmann; Glen P. Jackson; West Virginia
University, Morgantown, WV

ThOD pm 3:50

CSI Sheffield Hallam University: Forensic
Analysis of Fingermarks by MALDI MS and the
Integration into Currently Employed Fingermark
Examination Workflows; Robert Bradshaw¹;
Neil Denison²; Stephen Bleay³; Malcolm Clench¹;
Simona Francese¹; ¹BMRC, Sheffield Hallam
University, Sheffield, United Kingdom; ²Head of
Identification Services, Yorkshire and the Humber
(YaTH) Regional Policing, United Kingdom; ³CAST,
Home Office UK, St Albans, United Kingdom

ThOD pm 4:10 Forensic Serology Testing by Mass
Spectrometry; Heyi Yang¹; Samantha Monier²;
Kaylee Hershfeld¹; Matthew Goldstein¹; Donald
Siegel¹; ¹Office of Chief Med Exam, New York, NY;
²Columbia University, New York, NY

2:30 – 4:30 PM, THURSDAY AFTERNOON SYNTHETIC POLYMERS Wendy Zhong (Merck) presiding Theater

ThOE pm 2:30 Characterization of Atmospheric Pressure
Polyolefin Pyrolysis Products by Fourier
Transform Mass Spectrometry and Ion Mobility

- Mass Spectrometry; Carlos Afonso¹; Mathilde
Farenc¹.²; Matthias Witt³; Kirsten Craven⁴; Caroline
Barrère-Mangote²; Pierre Giusti²; ¹University
of Rouen, Mont Saint Aignan, France; ²TOTAL
Refining and Chemicals, Gonfreville l'Orcher,
France; ³Bruker Daltonik GmbH, Bremen, Germany;
¹Waters, Manchester, UK

ThOE pm 2:50 Analysis of Alkyl Polyglycosides (APGs) using Polarity vs. Shape Sensitive Multidimensional Mass Spectrometry; Chrys Wesdemiotis; Ahlam Alalwiat; The University of Akron, Akron, OH

ThOE pm 3:10 Tandem Mass Spectrometry to Read Messages
Encoded in Synthetic Copolymers; Laurence
Charles¹; Jean-François Lutz²; ¹Aix-Marseille
University, Marseille Cedex 20, France; ²Institut
Charles Sadron, Strasbourg, France

ThOE pm 3:30 Iron(III) Catalyzed Branching Reactions of Polymeric Methylene Diphenyl Diisocyanate; Anthony P. Gies; Zdravko Stefanov; Debashis

Chakraborty; Paul Chauvel; *Dow Chemical Company, Freeport, TX*

ThOE pm 3:50

Shining New Light on Nitroxide-Mediated
Photopolymerisation by Photodissociation
Action Spectroscopy; David L Marshall¹; Jason
C Morris¹; Christopher S Hansen²; Adam J Trevitt²;
Stephen J Blanksby¹; ¹Queensland University of
Technology, Brisbane, Australia; ²University of
Wollongong, Wollongong, Australia

ThOE pm 4:10 Application of Matrix-Assisted Ionization—Ion Mobility Spectrometry—Mass Spectrometry to Polymeric Surfaces Directly from Natural Environments; Casey Foley¹; Barbara S. Larsen²; Sarah Trimpin¹; ¹Wayne State University, Detroit, MI; ²The DuPont Company, Wilmington, DE

2:30 – 4:30 PM, THURSDAY AFTERNOON CHEMICAL CROSS-LINKING AND COVALENT LABELING Lars Konermann (University of Western Ontario) presiding Room 106

ThOF pm 2:30 The Novel Isotopically-Coded Photo-Reactive Homo-Bifunctional Short-Range Crosslinker TATA for Studying Protein Structures.; Nicholas Brodie¹; Evgeniy Petrotchenko¹; Christoph Borchers¹.²; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochem. & Microbiol., Univ. of Victoria, Victoria,

ThOF pm 2:50 A Highly Optimized Strategy for Dissecting the Architectures of Endogenous Macromolecular Assemblies; Yi Shi¹; Riccardo Pellarin²; Peter Fridy¹; Javier Fernandez-Martinez¹; Mary Thompson¹; Yinyin Li¹; Qing Jun Wang³; Andrej Sali²; Michael Rout¹; Brian Chait¹; ¹The Rockefeller University, Nyc, NY; ²University of California, San Francisco, San Francisco, CA; ³University of

ThOF pm 3:10 Kentucky, Lexington, KY

New Tools for Studying Molecular Architecture and Conformational Changes of Large Protein

Complexes using Chemical Cross-Linking; Alexander Leitner¹; Thomas Walzthoeni^{1,2}; Ruedi Aebersold^{1,3}; ¹ETH Zurich, Zurich, Switzerland; ²Gene Center, LMU Munich, Munich, Germany; ³University of Zurich, Zurich, Switzerland

ThOF pm 3:30 A New In Vivo Cross-linking Mass Spectrometry Platform to Define Protein-Protein Interactions in Living Cells; Kaake Robyn¹; Xiaorong Wang¹; Anthony Burke¹; Clinton Yu¹; Wynne Kandur¹; yingying yang¹; Tonya Second²; Jicheng Duan¹; Athit Kao¹; Shenheng Guan³; Danielle Vellucci¹; Scott Rychnovsky¹; Lan Huang¹; ¹University of California, Irvine, CA; ²Thermo Fisher Scientific, San Jose, CA; ³University of California, San Francisco, CA

ThOF pm 3:50 Hydroxyl Radical Footprinting of Human SOD1
Reveals Solvent Accessibility of the Interior of
SOD1 β-Barrel; Yuewei Sheng^{1, 2}; Puneet Souda¹;
Joan Valentine^{1, 3}; Julian Whitelegge¹; ¹University of
California, Los Angeles, Los Angeles, CA; ²Boston
University, Boston, MA; ³Ewha Womans University,
Seoul, South Korea

ThOF pm 4:10 ETD-Based High Spatial Resolution Hydroxyl Radical Protein Footprinting Reveals an Extended Robo1-Heparin Binding Interface; Zixuan Li¹; Heather Moniz¹; Shuo Wang¹; Annapoorani Ramiah¹; Fuming Zhang²; Kelley W. Moremen¹; Robert J. Linhardt²; Joshua S. Sharp¹; ¹University of Georgia, Athens, GA; ²Rensselaer Polytechnic Institute, Troy, NY

THURSDAY AFTERNOON ORAL SESSIONS

ThOH pm 3:10

ThOH pm 3:50



2:30 – 4:30 PM, THURSDAY AFTERNOON ECOLOGICAL AND HUMAN ENVIRONMENTAL CHEMISTRY AND TOXICOLOGY Dana Boyd Barr (Emory University) presiding

ThOG pm 2:30 Identification of Unknown Hemoglobin
Adducts Based on Adductome LC-MS Data;
Henrik Carlsson; Margareta Törngvist; Stockholm

University, Stockholm, Sweden

ThOG pm 2:50 Exploring the Mechanism of Neurodegeneration by using an *in vitro* 3D Dopaminergic Cell Model and Metabolomics; Liang Zhao; Georgina Harris; Lena Smirnova; Thomas Hartung; Johns Hopkins

University, Baltimore, MD

ThOG pm 3:30 Characterization of Petroleum Emerging Environmental Contaminants in Louisiana Salt Marsh Samples Four Years after the Deepwater Horizon Oil Spill; Steven M. Rowland¹; Huan Chen²; Aixin Hou³; Yuri E. Corilo¹.²; Qianxin Lin⁴; Jie Lu¹; Irving A. Mendelssohn⁴; Rui Zhang³; Ryan P. Rodgers²; Amy M. Mckenna²; ¹Future Fuels Institute,FSU, Tallahassee, FL; ³Department of Environmental Sciences, LSU, Baton Rouge, LA; ⁴Department of Oceanography & Coastal Sciences, LSU, Baton Rouge, LA

ThOG pm 3:50 Compositional Comparison of Weathering
Trends for Four Different Oil Spills Determined
by Ultrahigh Resolution FT-ICR Mass
Spectrometry; Logan C. Krajewski¹; Huan Chen²;
Ryan P. Rodgers².³; Christopher M. Reddy⁴; Karin

Ryan P. Rodgers²⁻³; Christopher M. Reddy⁴; Karin T. Lemkau⁵; Chistoph Aeppli⁶; Robert F. Swarthout⁴; Alan Marshall^{1,2}; Amy M. McKenna²; ¹Department of Chemistry and Biochemistry, FSU, Tallahassee, FL; ²National High Magnetic Field Laboratory, FSU, Tallahassee, FL; ³Future Fuels Institute, FSU, Tallahassee, FL; ⁴Woods Hole Oceanographic Institute, Woods Hole, MA; ⁵University of California, Santa Barbara, CA; ⁶Bigelow Laboratory for Ocean Sciences, East Boothbay, ME

ThOG pm 4:10 Non-Targeted Analysis to Assess Human Exposure to Semivolatile Organic Contaminants in the Indoor Environment; Lee Ferguson; Bernadette Vogler; Heather Stapleton; Duke University, Durham, NC

2:30 - 4:30 PM, THURSDAY AFTERNOON APPLYING LC-MS TECHNIQUES TO SOLVE CHALLENGING DRUG METABOLISM PROBLEMS

Natasha Penner (Biogen Idec) presiding Ballroom 220/221

ThOH pm 2:30 Changing the Paradigm of Metabolite Analysis in DMPK using UPLC Coupled with High Resolution Mass Spectrometry; Hongying Gao¹; Shibing Deng²; R. Scott Obach¹; ¹Pfizer Inc, Groton, CT; ²Pfizer Inc, San Diego, CA

ThOH pm 2:50

High Resolution LC/MS-based Background
Subtraction for Unambiguous Identification of
Metabolites of Macrocyclic Peptides in vivo;
Haiying Zhang; Jennifer X. Qiao; Yue-Zhong Shu;
Michael A. Poss; W. Griffith Humphreys; BristolMyers Squibb R&D, Princeton, NJ

Characterization of a Selective Androgen Receptor Modulator Drug Candidate and Identification of *in vitro* Generated Metabolites for Sports Drug Testing; Mario Thevis^{1, 2}; Andreas Lagojda³; Andreas Thomas¹; Josef Dib¹; Annelie Hansson⁴; Mikael Hedeland^{4, 5}; Ulf Bondesson^{4, 5}; Tina Wigger⁶; Uwe Karst⁶; Wilhelm Schänzer¹; ¹German Sport University, Cologne, DE; ²Europ. Monitoring Ctr. for Emerging Doping Agents, Cologne/Bonn, DE; ³BayerCropScience, Monheim, DE; ⁴Uppsala University, Uppsala, SE; ⁵Nat'l Veterinary Institute, Uppsala, SE; ⁶University of Münster, Münster, DE

ThOH pm 3:30 Detection and Quantitation of Insulin Analogues by Differential Mobility Coupled to Mass Spectrometry; J.C. Yves Leblanc; Brad Schneider;

Spectrometry; J.C. Yves Leblanc; Brad Schneider J. Larry Campbell; SCIEX, Concord, On, Canada Therapeutic Protein Quantitation using Dried Blood Spot Sampling to Support Discovery

Stage PK Studies; Lisa O'Callaghan¹; Qian Zhang¹; Daniela Tomazela²; Daniel Spellman¹; Maribel Beaumont²; Bao-Jen Shyong¹; Jacqueline Kenny¹; Scott Fauty¹; Kerry Fillgrove¹; Jane Harrelson¹; Kevin Bateman¹; ¹Merck & Co., West Point, PA; ²Merck & Co., Palo Alto, CA

ThOH pm 4:10 Human In vivo Protein Turnover Measurements by Sequential Immunoaffinity and Targeted Mass Spectrometry; Vahid Farrokhii¹; Xiaoying Chen²; Hendrik Neubert¹; ¹Pfizer, PDM-NBE, Andover, MA; ²Pfizer, PDM-NBE, Cambridge, MA

PLENARY LECTURE Vicki H. Wysocki (The Ohio State University) presiding Hall 5



The Evolution of Modern Neurosurgery: A History of Trial and Error, Success and Failure

G. Michael Lemole, Jr.The University of Arizona College of Medicine

6:30 – 9:00 PM, THURSDAY CLOSING EVENT CITY MUSEUM Ticket is required.



MALDI: SAMPLE PREPARATION 001 - 015 MP 001 The Analyses of Fluorescently Labeled Biomolecules with Fluorophore-Assisted Laser Desorption/Ionization-Mass Spectrometry (FALDI-MS); Raymond West; Justin	TOFMS with the Increase of TFA Concentra sDHB Matrix Solvent; Lidiane Maria Andrade Anita Mendes; Claudio Augusto Oller do Nasc Universidade de São Paulo - USP, Sao Paulo, MP 011 High-Throughput Screening MALDI-TOF As	e; Maria imento; <i>Brazil</i>	
Small Molecules: Quantitative Analysis247-276	Special Posters displayed Monday through Thursday.		
Natural Products	Carbohydrates I	667-692	
Top-Down Protein Analysis: Relatively Pure Sample200-219	Energy: Hydrocarbon and Petrochemical		
H/D Exchange: Hardware, Software and Methodology185-199	Systems Biology: Other		
maging MS: Software176-184	Systems Biology: Proteomics		
Imaging MS: Instrumentation156-175	Glycoproteins: Method Development		
on Mobility: Instrumental136-155	Phosphopeptides: Enrichment Methods		
on Mobility: Theory126-135	Proteomics: Clinical Applications		
FAIMS and DMS108-125	Proteomics: Quantitative - Label Free Quantification	516-542	
LC-MS: instrumentation and Software094-107	Proteomics: Tissue	503-515	
Instrumentation: New Developments in Mass Analyzers077-093	Plant-omics		
and Sampling047-076	Biomarkers: Quantitative Analysis (Protein)		
Instrumentation: New Developments in Ionization	Biomarkers: Discovery		
Ambient Ionization: Application	Informatics: Algorithms and Statistical Advances		
MALDI: Sample Preparation001-015	Informatics: Metabolomics		
7.30 – 0.00 pm Remove all Monday posters	Metabolomics: Quantitative Analysis		
12:00 – 2:30 pm Even-numbered posters present 7:30 – 8:00 pm Remove all Monday posters	Metabolomics: Sample Preparation		
10:30 am – 1:00 pmOdd-numbered posters present	Diagnostic Clinical Chemistry		
7:30 – 8:00 am Set up all Monday posters	Drug Discovery/DMPK/ADME		

	MALDI: SAMPLE PREPARATION 001 - 015	
MP 001	The Analyses of Fluorescently Labeled Biomolecules with Fluorophore-Assisted Laser Desorption/Ionization-Mass Spectrometry (FALDI-MS); Raymond West; Justin Jacobs; Dragan Isailovic; University of Toledo, Toledo, OH	MP
MP 002	Peptides Quantification: Improved Performance by the Binary Matrices System for MALDI-TOF-MS; Milena Luizete; João Luiz Bronzel Junior; Humberto Milagre; UNESP - Univ Estadual Paulista - Institute of Chem, Araraquara, Brazil	MP
MP 003	Rapid and Simple Fixed-Charge Derivatization of Alcohols for Analysis by MALDI and SALDI Mass Spectrometry; Roman Borisov; Dmitry Zhilyaev; Nikolai Polovkov; Vladimir Zaikin; Topchiev Institute of Petrochemical Synthesis, Moscow, Russian Federation	MP
MP 004	Ionic Liquids as Combined CE Additive and MALDI Matrix; Leila Josefsson; Jessica Bernsteen; Saara Mikkonen; Åsa Emmer; KTH Royal Institute of Technology, Stockholm, Sweden	
MP 005	Simple on-plate PNGase F Digestion Combined with LC/MALDI-MS for Site-Specific N-glycosylation Analysis; Ritsuko Yoda; Yusaku Hioki; Takashi Nishikaze; Naoki Kaneko; Hideharu Shichi; Shinichi Iwamoto; Koichi Tanaka; Shimadzu Corporation, Kyoto, Japan	MP
MP 006	A Bi-Functional Glass Membrane Designed to Interface SDS-PAGE Separations of Proteins with the Detection of Peptides by Mass Spectrometry; Kenneth Parker; Stephen J. Hattan; Marvin Vestal; SimulTOF/ VIC Instruments, Sudbury, MA	
MP 007	A Fully Automated, Bottom-up Approach for MALDI-TOF MS Based Discovery Workflows; M. Nazim Boutaghou ¹ ; David Colquhoun ¹ ; Kevin W. Meyer ² ; Brian J. Feild ¹ ; Scott Kuzdzal ¹ ; ¹ Shimadzu Scientific Instruments, Columbia, MD; ² Perfinity Biosciences, West Lafayette, IN	MP

Simple Fabrication of Superhydrophobic AKD Coated

MALDI Concentration Plates for Increased Sensitivity;

Asa Emmer; KTH Royal Institute of Technology, Stockholm,

Johan Jacksén; Joakim Romson; Charlotte Sidenbladh;

Optimization of Sample Preparation for Detection of

Common Food-borne Pathogens by Matrix-Assisted

Laser Desorption Ionization-Time of Flight Mass

Ngak Mathew Lau; , Singapore, Singapore

MP 010 Evaluation of Microalgae Protein Profile by MALDI-

Spectrometry; Lay Hoon Seah; Tze Horng Liew; Thye

100,000 Samples per Day; Sergei Dikler1; Scott A. Busby2; W. Adam G. Hill²; Paul J. Kowalski¹; Anja Resemann³; Detlev Suckau³; ¹Bruker Daltonics Inc., Billerica, MA; ²Novartis Institutes for BioMedical Research Inc., Cambridge, MA: ³Bruker Daltonik GmbH, Bremen, Germany 012 Cyano-phenylenevinylene Oligomer as a Novel Electron Transfer Ionization MALDI Matrix: Laura Castellanos1: Melissa Cely²; César A. Sierra²; Cristian Blanco-Tirado¹; Marianny Y. Combariza¹; ¹UIS, Bucaramanga, Colombia; ²Universidad Nacional de Colombia, Bogotá, Colombia Rational Design and Efficient Synthesis of cyano-Containing Phenylenevinylene Derivatives as Potential MALDI Matrixes for Electron Transfer Ionization; Juan Ramirez; Universidad Industrial de Santander, Floridablanca, Colombia Charged Droplets: Physics and Applications: Drew Sauter; Nanoliter, LLC, Henderson, NV Solvent-free Metal Nanoparticle Application and Comparison for Nanoparticle Assisted Laser **Desorption Ionization Mass Spectrometry of Plant** Metabolites; Gargey Yagnik^{1, 2}; Young-Jin Lee^{1, 2}; ¹Iowa State University, Ames, Iowa; ²Ames Laboratory-US DOE, Ames, Iowa **AMBIENT IONIZATION: APPLICATION**

016 - 046

016 Investigation of Aqueous Phase Electrochemical **Reactions by Desorption Electrospray Ionization Mass** Spectrometry; Mei Lu¹; Yong Liu²; Roy Helmy²; Gary Martin²; Howard Dewald¹; Hao Chen¹; ¹Ohio University. Athens, OH; 2Merck & Co., Rahway, NJ

Breath Analysis Using Direct Analysis in Real Time Mass Spectrometry - A Fun "Food is Chemistry" Student Demonstration; Curtis Mowry; Adam Pimentel; Sandia National Laboratories, Albuquerque, NM

MP 018 Reproducibility and Quantitation using Matrix-Assisted Ionization (MAI) Mass Spectrometry; Shubhashis Chakrabarty^{1, 2}; Kevin Jooss²; Srinivas B. Narayan³; Sarah Trimpin^{2, 4}; ¹MSTM, LLC., Hockessin, DE; ²Department of Chemistry, Wayne State University, Detroit, MI; 3Detroit Medical Center: Detroit Hospital (DMC), Detroit, MI; ⁴Cardiovascular Research Institute, Wayne State University

MP 008

Sweden



- School of Medicine, Detroit, MI
- MP 019 Micro-area Analysis of Tooth Surface Using Surface Desorption Atmospheric Pressure Chemical Ionization Mass Spectrometry; Qian Li¹; Haiwei Gu²; Jiang Wang¹; Xiaotun Guo¹; Eric Handberg¹; ZhiHao Wang¹; Shuiping Yang³; Huanwen Chen¹; ¹East China Institute of Tech., Nanchang, China; ²Northwest Metabolomics Research Center, Department, Seattle, WA; ³East China Institute of Technology, Fuzhou, China
- MP 020 Atmospheric Pressure Neutral Reionization Mass Spectrometry for Structural Analysis; Pengyuan Liu; Hao Chen; Ohio University, Athens, OH
- MP 021 **The Multifunctional Single-Probe for Single Cell Mass Spectrometry Analysis**; Ning Pan; Zhibo Yang; Wei Rao;
 Anthony Burgett; Kothapalli Naga Rama; *University of Oklahoma, Norman, OK*
- MP 022 In vivo Detection of Plant Molecules by Low-Temperature Plasma Mass Spectrometry (LTP-MS); Sandra Martínez Jarquín; Robert Winkler; CINVESTAV Unidad Irapuato, Irapuato, Mexico
- MP 023 Regulated Generation of Molecular Ions or Protonated Molecules under Atmospheric-Pressure Helium-Plasmalonization (HePI) Mass Spectrometric Conditions;

 Athula B. Attygalle; Rekha Gangam; Julius Pavlov; Stevens Institute of Technology, Hoboken, NJ
- MP 024 Different Materials Coated Paper Substrates for Paper Spray Mass Spectrometry; Yajun Zheng¹; Xiaoling Zhang¹; Qian Wang¹; Xinrong Zhang²; Zhiping Zhang¹; ¹Xi'an Shiyou University, Xi'an, China; ²Tsinghua University, Beijing, China
- MP 025 Characterization of Large Saturated Hydrocarbons by Automatic Raster Laser-Induced Acoustic Desorption/
 Atmospheric Pressure Oxygen Chemical Ionization
 Mass Spectrometry; Chunfen Jin¹; Hanyu Zhu¹; Alex Dow¹;
 Viidanoja Jyrki²; Hilkka Kenttämaa¹; 'Purdue University,
 West Lafayette, IN; 'Neste Oil, Keilaranta, Finland
- MP 026 Touch Spray Mass Spectrometry with Medical Swabs for Direct Analysis of Bacteria and Drugs in Oral Fluid; Valentina Pirro^{1, 2}; Alan K. Jarmusch¹; Kevin S. Kerian¹; Marco Vincenti²; R. Graham Cooks¹; **Chemistry Department, Purdue University, West Lafayette, IN; **2Antidoping and Toxicology Center A. Bertinaria, Orbassano, IT
- MP 027 Microbial Communication through the Air: Analyzing Volatile Bacterial Compounds by Comparative GC-MS and DART-MS Approaches; Matthew Pavlovich; Violetta Medik; Slava Epstein; Adam Hall; Northeastern University, Boston. MA
- MP 028 Improving Ionization Efficiency of Direct Analysis in Real Time-Mass Spectrometry (DART-MS) by using DC Corona Discharges; Kanako Sekimoto¹; Motoshi Sakakura²; Hiroshi Hike²; Takatomo Kawamukai²; Teruhisa Shiota²; Mitsuo Takayama¹; ¹Yokohama City Univ., Yokohama, Japan; ²AMR Inc., Tokyo, Japan
- MP 029 Thermal Degradation of β-Carotene and Flavonoids Studied Using Atmospheric Solid Analysis Probe Mass Spectrometry (ASAP-MS); <u>Xiaoyin Xiao</u>; James Hochrein; Lance Miller; Sandia National Laboratories, Albuquerque,
- MP 030 Investigation of Biological Fingerprints Using Atmospheric Solid Analysis Probe Mass Spectrometry (ASAP-MS); James Hochrein; Xiaoyin Xiao; Lance Miller; Kylea Parchert; Ducle Hayes; Sandia National Laboratories, Albuquerque, NM
- MP 031 A DESI MS Based Screening Method for Phthalates in Consumer Goods; Sabine Schulz¹; Sebastian Wagner¹; Stefanie Gerbig¹; Herbert Waechter²; Detlef Sielaff³; Dieter Bohn⁴; Bernhard Spengler¹; ¹Justus Liebig University Giessen, Giessen, Germany; ²Bavarian State Laboratory f. Health a. Food safety, Erlangen, Germany; ³State

- Laboratory of Rhineland-Palatinate, Koblenz, Germany;

 ⁴Hessen State Laboratory, Giessen, Germany

 MP 032 Single Cell Mass Spectrometry Analysis of Marine
- MP 032 Single Cell Mass Spectrometry Analysis of Marine Algae: Detection of Creatine; Mei Sun; Ning Pan; Wawrik Boris; Zhibo Yang; University of Oklahoma, Norman, OK
- MP 033 Comparison of Metabolites from Small Populations of Adherent and Detached Hepatocytes Analyzed by Transmission Geometry LAESI Mass Spectrometry;

 Rachelle S. Jacobson; Richard L. Thurston; Akos Vertes;

 George Washington University, Washington, DC
- MP 034 Profiling Unsaturated Lipids in Tissue Using Reactive Extraction Spray Mass Spectrometry; Yuan Su; Xiaoxiao Ma; Yu Xia; Zheng Ouyang; Purdue University, West Lafayette, IN
- MP 035 Tandem Mass Spectrum and Collision Cross Section Libraries for High-Throughput Identification of Metabolites in Adherent Hepatocytes by LAESI Mass Spectrometry; Wei Yuan; Bindesh Shrestha; Akos Vertes; George Washington University, Washington, DC
- MP 036 In situ Ink Analysis from Various Types of Documents by Nanospray Desorption Ionization (nano-DESI) Mass Spectrometry; Sangwon Cha; Gwangbin Lee; Dongkun Lee; Hankuk Univ. Foreign Studies, Yongin, South Korea
- MP 037 Improved Methods for the Analysis of Human Dried Blood Spot Samples by LESA Mass Spectrometry; Rian Griffiths; Andrew Creese; Joscelyn Sarsby; Helen Cooper; University of Birmingham, Birmingham, UK
- MP 038 Rapid Evaporative Ionization Mass Spectrometry for Intraoperative Breast Cancer Margin Detection; Edward R St. John¹; Julia Balog¹.²; Laura J Muirhead¹; Abigail VM Speller¹; Emrys A Jones²; Rathi Ramakrishnan¹; Steven Pringle²; Ara Darzi¹; Daniel R Leff¹; Zoltan Takats¹; *Imperial College London, London, UK; *2Waters Corporation, Wilmslow, UK
- MP 039 Rapid Analysis of Extra Virgin Olive Oil Adulteration with Other Oils with No Sample Preparation using Ambient Ionization Mass Spectrometry; Avinash Dalmia¹; Craig M. Whitehouse²; ¹Perkinelmer, Shelton, CT; ²PerkinElmer, Branford, CT
- MP 040 Graphene Oxide-Assisted Paper Spray For Analysis of Malachite Green; Fen Shen; Pang-Hung Hsu; NTOU, New Taipei City, Taiwan (R.O.C.)
- MP 041 Increased Disulfide Peptide Sequence Coverage via "Cleavage ON/OFF" Switch during Nanoelectrospray; Guangming Huang; University of Science and Technology of China/USTC, Hefei, P.R. China
- MP 042 Real-time Breath Monitoring of Valproic Acid by Mass Spectrometry with Low Temperature Plasma Ionization Source; Xiaoxia Gong; Songyue Shi; Gerardo Gamez; Texas Tech University, Lubbock, TX
- MP 043 Reaction Acceleration using Paper Spray Ionization and the Haloform Reaction; Ryan Bain; Shannon Raab; Christopher Pulliam; R. Graham Cooks; Purdue University, West Lafayette, IN
- MP 044 **How to Electro-clean APCI Sources between Injections**;
 Joseph Di Bussolo; *Thermo Fisher Scientific, West Chester,*PΔ
- MP 045 Comparative Depth Resolution of Extractive Analysis Techniques; Mariam S Elnaggar; Prosolia, Inc., Indianapolis, IN
- MP 046 Depth Profiling of Solid Sample by Dielectric Barrier Discharge Plasma Jet Coupled with Ion Trap Mass Spectrometry; Songyue Shi; Xiaoxia Gong; Gerardo Gamez; Texas Tech University, Lubbock, TX



INSTRUMENTATION: NEW DEVELOPMENTS IN IONIZATION AND SAMPLING 047 - 076

- MP 047 Spectroscopic Characterization of a Windowless, Electron-Beam-Pumped Excimer Lamp (EBEL) in the VUV Spectral Region of 50 200 nm; Hendrik Kersten; Sebastian Klopotowski; Sebastian Winkelmann; Thorsten Benter; Bergische Universität Wuppertal, Wuppertal, Germany
- MP 048 Advancements in Atmospheric-Vacuum Interfaces of Mass Spectrometers with Increased Gas Throughput and Enhanced Sensitivity; Eloy R. Wouters; Satendra Prasad; Jean-Jacques Dunyach; Thermo Fisher Scientific, San Jose. CA
- MP 049 A Method for Performing In-trap Photoionization in a Miniature Ion Trap Mass Spectrometer; Corey Stedwell; Daniel Debord; Conor Mullens; Michael Spencer; David Rafferty; 1st Detect Corporation, Webster, TX
- MP 050 Direct Real-Time Monitoring and Assessment of Single Leaf Carbon Fixation and Respiration Rates for Arabidopsis thaliana by Mass Spectrometry; Karl K.

 Weitz¹; Kim K. Hixson¹; Mary S. Lipton¹; Ronald J. Moore¹; Therese RW. Clauss¹; Norman G. Lewis²; Laurence B.

 Davin²; Richard D. Smith¹; ¹Battelle Pacific Northwest National Laboratories, Richland, WA; ²Washington State University, Pullman, WA
- MP 051 New Development of Low Pressure Electrospray Ionization Source; Rui Wang; Xiaoqiang Zhang; Qiao Jin; Jiaqi Shen; Wenjian Sun; Shimadzu Research Laboratory (Shanghai) Co. Ltd., Shanghai, China
- MP 052 Optimized Conditions for the Analysis of Oligonucleotides by Inductive Based Fluidics Mass Spectrometry; Robert Ross¹; Drew Sauter²; Patrick A. Limbach¹; ¹University of Cincinnati, Cincinnati, OH; ²Nanoliter, LLC, Henderson, NV
- MP 053 Development of a Dual-Mode Laminar Flow Ion Source for APPI- and APLI-GC-MS; Kai Kroll; Walter Wissdorf; Hendrik Kersten; Thorsten Benter; University of Wuppertal, Wuppertal, Germany
- MP 054 Concept Study for a Sensitive and Versatile Chemical Ionization TOF Flight Instrument; Sascha Albrecht'; Armin Afchine¹; Jochen Barthel¹; Markus Dick¹; Heinz Rongen¹; Fred Stroh¹; Thorsten Benter²; ¹Forschungszentrum Jülich GmbH, Jülich, Germany; ²University of Wuppertal, Wuppertal, Germany
- MP 055 Evaluation of Sonic Spray Ionization Mass Spectrometry for Proteomics Analysis; Spiros Pergantis; Manos Maurakis; University of Crete, Heraklion, Greece
- MP 056 Investigating Compatibility of Electrospray for LC-MS in situ Analysis of Icy Bodies in the Solar System;

 Adrian Southard¹; Stephanie Getty²; Jerome Ferrance³;

 Manuel Balvin²; Jamie E. Elsila²; Ana Mellina Espiritu²;

 Carl Kotecki²; Paul Mahaffy²; ¹University Space Research

 Agency, Greenbelt, Maryland; ²NASA GSFC, Greenbelt,

 MD; ³J2f engineering, Charlottesville, VA
- MP 057 Golf-ball Assisted Electrospray Ionization of Mass Spectrometry for Determination of Trace Amino Acids in Complex Samples; Yen-Hsien Li; Maw-Rong Lee; National Chung-Hsing University, Taichung, Taiwan
- MP 058 Optimization of a Vacuum Ultraviolet Photoionization source for Gas Chromatography used with a High Resolution Time of Flight Mass Spectrometer; Lloyd Allen; Viatcheslav Artaev; LECO Corp., Saint Joseph, MI
- MP 059 Direct Sampling, Extraction and Ionization Probe with Screening-Printed Electrode (SPE) Based Paper Spray;
 Che-I Liao; Kuo-Lung Ku; National Chiayi University, Chiayi City, Taiwan
- MP 060 A Helium Metastable Seeded Secondary Plasma in the Low MBAR Pressure Regime – Characterization and Evaluation for Mass Spectrometric Applications;

- Klaus Brockmann¹; David Mueller¹; Yessica Brachthäuser¹; Hendrik Kersten¹; Thorsten Benter¹; Achim von Keudell²; Thomas Kuschel²; Marc Boeke²; Joerg Winter²; Michel Aliman³; Gennady Fedosenko³; Ruediger Reuter³; Alexander Laue³; Hin Yiu Chung³; ¹University of Wuppertal, Wuppertal, Germany; ²University of Bochum, Bochum, Germany; ³Carl Zeiss SMT, Oberkochen, Germany
- MP 061 Micro-plasma Based Pulsed Direct Charge Transfer Stage Coupled to a FT-IT Mass Spectrometer; Yessica Brachthäuser¹; David Mueller¹; Hendrik Kersten¹; Klaus Brockmann¹; Thorsten Benter¹; Michel Aliman²; Gennady Fedosenko²; Ruediger Reuter²; Alexander Laue²; Hin Yiu Chung²; ¹University of Wuppertal, Wuppertal, Germany; ²Carl Zeiss SMT, Oberkochen, Germany
- MP 062 Coupling a Visible-Wavelength Laser to a MALDI TOF/TOF Mass Spectrometer for the Analyses of Biomolecules; Raymond West¹; Eric Findsen¹; Jens Hoehndorf²; <u>Dragan Isailovic¹</u>; ¹The University of Toledo, Toledo, OH: ²Bruker Daltonics, Bremen, Germany
- MP 063 Proton Transfer Mass Spectrometry (PT-MS) with H₃⁺ as Reagent Ions; <u>David Mueller</u>¹; Yessica Brachthäuser¹; Hendrik Kersten¹; Klaus Brockmann¹; Thorsten Benter¹; Michel Aliman²; Gennady Fedosenko²; Ruediger Reuter²; Alexander Laue²; Hin Yiu Chung²; ¹University of Wuppertal, Wuppertal, Germany; ²Carl Zeiss SMT, Oberkochen, Germany
- MP 064 Investigation of Space Distribution of Elements in Solid Samples using Dielectric Barrier Discharge Probe Coupled with ICP-MS; Yi Zheng¹; Zhi Xing²; Lipeng Liu¹; Xiaofeng Yu¹; Gangqiang Li¹; ¹Focused Photonics(Hangzhou),Inc., Hangzhou, China; ²Department of Chemistry, Tsinghua University, Beijing, China
- MP 065 A Cryofocuser/Quadrupole Mass Spectrometer Coupled to a Catalysis Unit for Detection of Nitrogen Oxide Catalysis Products; Weigang Lu¹; Behrooz Zekavat¹; Abayomi D. Olaitan¹; Matthew R. Brantley¹; Deniz A. Erdogan²; Emrah Ozensoy²; Touradj Solouki¹; ¹Chemistry and Biochemistry Department, Baylor University, Waco, TX; ²Department of Chemistry, Bilkent University, Bilkent, Ankara. Turkey
- MP 066 Performance Characterization of a Unique Radio-Frequency Ionization Source; Abayomi D. Olaitan; Behrooz Zekavat; Matthew R. Brantley; Touradj Solouki; Department of Chemistry and Biochemistry, Baylor University, Waco, TX
- MP 067 Application of ETV-ICP-MS for Determining Trace Teavy
 Metal Elements in Plants; Xiaofeng Yu; Ying Li; Lipeng
 Liu; Jian Li; Yan Liang; Gangqiang Li; Focused Photonics,
 Inc., Hangzhou, China
- MP 068 Pre-filtering Ions in the Upstream Ion Optics to Improve Instrument Robustness and Dynamic Range; <u>Graeme</u>

 <u>Mcalister</u>; Michael W. Senko; *Thermo Fisher Scientific, San Jose, CA*
- MP 069 **nESI and cAPCI Applications of a Controlled Ion Activation Stage ("ion tunnel")**; <u>Marco Thinius</u>; Nele
 Hartmann; Thorsten Benter; *University of Wuppertal, Wuppertal, Germany*
- MP 070 Comparison of Selectivity Enhancing Measures in Proton-Transfer-Reaction Mass Spectrometry;

 Christian Lindinger¹; Alfons Jordan¹; Lukas Maerk¹; Jens Herbig¹; Rene Gutmann¹; Matteo Lanza¹.²; Kostiantyn Breiev¹.²; Eugen Hartungen¹; Gernot Hanel¹; Simone Juerschik¹; Philipp Sulzer¹; Tilmann D. Maerk¹; ¹/ONICON Analytik GmbH., Innsbruck, Austria; ²University of Innsbruck, Innsbruck, Austria
- MP 071 Operation and Applications of Multimode Inlet Ionization; Milan Pophristic¹; Khoa Hoang²; Charles N. Mcewen¹.²; ¹MSTM, LLC., Hockessin, DE; ²University of the Sciences in Philadelphia, Philadelphia, PA



- MP 072 SWIFT and MSn for Analysis of Organics in Complex Mars Analog Samples with the MOMA Ion Trap Mass Spectrometer; Friso H.W. Van Amerom¹; Ryan M. Danell²; Veronica Pinnick³; Xiang Li³; Stephanie Getty³; Ricardo Arevalo³; William Brinckerhoff³; Paul Mahaffy³; ¹Mini-Mass Consulting, Inc, Hyattsville, MD; ²Danell Consulting, Inc., Winterville, NC; ³NASA GSFC, Greenbelt, MD
- MP 073 UltrAWN-PTR-MS: Ultrasonic Acoustic Wave Nebulization coupled with Proton-Transfer-Reaction Mass Spectrometry; Lukas Maerk¹; Simone Juerschik¹; David P.A. Kilgour²; Benjamin L. Oyler²; David R. Goodlett²; Alfons Jordan¹; Christian Lindinger¹; Jens Herbig¹; Eugen Hartungen¹; Gernot Hanel¹; Philipp Sulzer¹; Tilmann D. Maerk¹.³; ¹IONICON Analytik GmbH., Innsbruck, Austria; ²School of Pharmacy, University of Maryland, Baltimore, MD: ³University of Innsbruck, Innsbruck, Austria
- MP 074 Slurry FIA/APCI-MS for Quantitative Real-Time Monitoring of Batch Slurry Reactions: An Alternative Setup; Zhenqian Zhu¹; David Cho²; John Bartmess¹; Mary Ellen McNally³; Ron Hoffman³; Kelsey D. Cook¹; Liguo Song¹; ¹Department of Chemistry, University of Tennessee, Knoxville, TN; ²FBI Laboratory, Quantico, VA; ³DuPont Crop Protection, Newark, Delaware
- MP 075 Realistic Modeling of the Ion Funnel using the DSMC Method Accounting for Air Drag and Space Charge;

 Eugene Moskovets¹; Sergey Gimelshein²; Taylor Lilly³;

 ¹MassTech Inc, Columbia, MD; ²Gimel Inc., Los Gatos, CA;

 ³University of Colorado, Colorado Springs, CO
- MP 076 Native MS using SAWN, a Novel Ionization Source for Waters SYNAPT G2; Gloria Yen¹; Ken Laszlo²; Yue Huang¹; Scott Heron¹; Matthew Bush²; David Goodlett³; Erik Nilsson¹; ¹Deurion LLC, Seattle, WA; ²University of Washington, Seattle, WA; ³University of Maryland, Baltimore, MD

INSTRUMENTATION: NEW DEVELOPMENTS IN MASS ANALYZERS 077 - 093

- MP 077 Development of High-Precision Digital Waveform Generator to Enable Next Generation Digital Ion Traps and Guides; Gregory Brabeck; Peter Ta Reilly; Liang Wang; Washington State University, Pullman, WA
- MP 078 Understanding Unperturbed Cyclotron Frequency
 Generation in FT-ICR MS; Konstantin O. Nagornov¹; Anton
 N. Kozhinov¹; Konstantin O. Zhurov¹; Yury O. Tsybin¹.²;

 ¹Ecole Polytechnique Fédérale de Lausanne, Lausanne,
 Switzerland; ²Spectroswiss Sàrl, Lausanne, Switzerland
- MP 079 Extended Length Radial Ejection Linear Ion Traps for Higher Ion Capacity and other Modes of Mass Analysis;

 Jae C. Schwartz; Philip M Remes; Hans Schweingruber;

 Eugene Zhuk; Qingyu Song; Thermo Fisher Scientific, San Jose. CA
- MP 080 High-Sensitivity Mass Analysis with a Fourier-Transform Quadrupole Ion Trap Operating with Non-Destructive Ion Detection; Michael Schmidt¹; Albrecht Brockhaus¹; Stefan Butzmann¹; Alexander Laue²; Michel Aliman²; ¹University of Wuppertal, Wuppertal, Germany; ²Carl Zeiss SMT GmbH. Oberkochen, Germany
- MP 081 Frequency-Multiple Detection Compatible with Optimized Ion Trap Geometry for Enhanced Fourier Transform Ion Cyclotron Resonance Mass Spectral Resolution; Tong Chen¹.²; Steven C. Beu³; Nathan K. Kaiser¹; Donald F. Smith¹; Greg T. Blakney¹; John P. Quinn¹; Daniel G. McIntosh¹; Vaughan Williams¹; Alan G. Marshall¹.²; Christopher L. Hendrickson¹; ¹National High Magnetic Field Laboratory, Tallahassee, FL; ²Florida State University, Tallahassee, FL; ³S C Beu Consulting, Austin, TX

- MP 082 Matrix-Assisted Laser Desorption Ionization Distanceof-Flight Mass Spectrometry; Steven Ray¹; Elise Dennis¹; Christie G. Enke²; David W. Koppenaal³; Charles Barinaga³; Gary Hieftje¹; *Indiana University, Bloomington, IN; **University of New Mexico, Placitas, NM; **Pacific NW Nat'I Laboratory, Richland, WA
- MP 083 Theoretical Study of a Toroidal Ion Trap Mass Analyzer with Triangular Electrode; Haiyang Yang; Lei Yue; Chongsheng Xu; Shanghai, China
- MP 084 Duty Cycle Based Manipulation of Ion Motion in Digitally-Operated Ion Traps for Improved Mass Analysis; Peter T A Reilly¹; Katherine Donahoe¹; Shimin Tan²; James Riggleman²; ¹Washington State University, Pullman, WA; ²Pullman High School, Pullman, WA
- MP 085 A Compact, Versatile and Bipolar Time-of-Flight
 Mass Spectrometer Tailored for Proton-TransferReaction Mass Spectrometry; Alfons Jordan¹; Lukas
 Maerk¹; Christian Lindinger¹; Stefan Haidacher¹; Paul
 Mutschlechner¹; Stefan Feil¹; Ralf Schottkowsky¹; Jens
 Herbig¹; Eugen Hartungen¹; Gernot Hanel¹; Simone
 Juerschik¹; Philipp Sulzer¹; Tilmann Maerk¹.²; ¹IONICON
 Analytik GmbH., Innsbruck, Austria; ²University of
 Innsbruck, Innsbruck, Austria
- MP 086 Nonlinear Corrections of the Fields of Electrostatic FT Mass-Analyzers Aimed at Increasing Their Dynamic Range; Gleb Vladimirov^{1, 2}; Pavel Ryumin⁵; Oleg Kharybin^{2, 3}; Victor Zgoda³; Eugene Nikolaev^{2, 4}; ¹Skolkovo Institute of Science and Technology, Skolkovo, Moscow Oblast, Russia; ²Institute for Energy Problems of Chemical Physics, Moscow, Russia; ³V.N. Orekhovich Institute of Biomedical Chemistry, Moscow, Russia; ⁴Moscow Institute of Physics and Technology, Dolgoprudny, Moscow Oblast, Russia; ⁵University of Reading, Reading, UK
- MP 087 A Novel Instrumental Strategy for Parallel Reaction Monitoring of Intact Proteins with an Orbitrap; Mikhail Belov^{1, 2}; <u>Dmitry Grinfeld</u>²; Philip Compton³; Neil Kelleher³; Alexander Makarov²; ¹Spectroglyph LLC, Kennewick, WA; ²Thermo Fisher Scientific, Bremen, Germany; ³Northwestern University. Evanston. IL
- MP 088 Super-resolution Signal Processing Leverages
 Multiplexed Quantitative Proteomics; Anton N. Kozhinov¹;
 Martin Wuehr²; John Corthésy³; Konstantin O. Nagornov¹;
 Kristina Srzentić¹; Loïc Dayon³; Martin Kussmann³; Steven
 P. Gygi²; Yury O. Tsybin¹.⁴; ¹Ecole Polytechnique Fédérale
 de Lausanne, Lausanne, Switzerland; ²Harvard Medical
 School, Boston, MA; ³Nestlé Institute of Health Sciences,
 Lausanne, Switzerland; ⁴Spectroswiss Sàrl, Lausanne,
 Switzerland
- MP 089 An Improved Linear Ion Trap Mass Analyzer built with Polyline-shaped Electrodes; Chongsheng Xu; Fudan University, Shanghai, China
- MP 090 Juggling Multi-Parameter Optimizations of the Miniature Cylindrical Ion Trap; Daniel DeBord; Conor Mullens; Michael Spencer; David Rafferty; 1st Detect Corporation, Webster, TX
- MP 091 **Developing a 2D Ion Trap for the Analysis of Low Charge Intact Proteins**; <u>Katherine Donahoe</u>; Peter Ta
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- MP 092 A High Resolution Multi-turn TOF Mass Analyzer;

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 Hiroaki Nakanishi; Shimadzu Research Laboratory (Europe)

 Ltd., Manchester, UK
- MP 093 Direct Current Enhanced Ion Excitation and Collision-Induced Dissociation in Digital Ion Trap Mass Spectrometer; Fuxing Xu¹; Qiankun Dang¹; Xinhua Dai²; Xiang Fang²; Li Ding¹; Yuanyuan Wang¹; ChuanFan Ding¹; **IFudan University, Shanghai, China; **National Institute of Metrology, Beijing, China**



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- MP 094 Liquid Chromatography Direct Electron Ionization Mass Spectrometry for the Analysis of Polycyclic Aromatic Hydrocarbons; Mitchell Helling; Franco Basile; University of Wyoming, Laramie, WY
- MP 095 Advanced Electron Ionization LC-MS with Supersonic Molecular Beams Advantages and Benefits; Svetlana Tsizin; Boaz Seemann; Alexander Fialkov; Aviv Amirav; Tel Aviv Universitv. Tel Aviv. Israel
- MP 096 Dry Ion localization and locomotion (DRILL)
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 Kottke; Georgia Institute of Technology, Atlanta, GA
- MP 097 Time-alignment of Quantitative Isotope Dilution MRM Traces Integration and Review of 10,000 Aligned Traces in 10 minutes; Adrian R Woolfitt; Maria Solano; Katie Isbell; Anne Boyer; John Barr; CDC, Atlanta, GA
- MP 098 Direct Analysis of 10 Antipsychotics in Serum by the Online System Integrating SPE with UHPLC-MS/ MS; Qisheng Zhong; Xiongxiong Qiu; Linlin shen; Jinting Yao; Song Zhan; Taohong Huang; Shin-ichi Kawano; Yuki Hashi; Shimadzu Global COE, Shimadzu (China) Co., Ltd., Guangzhou. China
- MP 099 Direct-EI UHPLC-MSMS as a New Tool for the Analysis of Sterols in Pharmaceuticals and Complex Biological Matrices; Achille Cappiello¹; Veronica Termopoli¹; Famiglini Giorgio¹; Pierangela Palma¹; Silvia Spinozzi²; Cecilia Camborata²; Aldo Roda²; ¹University of Urbino, Urbino, Italy; ²University of Bologna, Bologna, Italy
- MP 100 Identification of Biologic Catabolites Using a Q-ToF and Software-Driven Workflow; Yilin Feng¹; Panos Hatsis¹; Suma Ramagiri²; Eva Duchoslav²; Lyle Burton²; Jimmy Flarakos¹; ¹Novartis Institutes for Biomedical Research, East Hanover, NJ; ²AB SCIEX, Concord, ON
- MP 101 The Sliding Window Algorithm for the Analysis of LC/ MS Intact Protein Data; Paul Gazis; Thermo Fisher, San Jose. CA
- MP 102 An Innovative Software Solution for Multi-Vendor Open Access Data; David Hardy¹; Vitaly Lashin²; Patrick Wheeler³; Pranas Japertas⁴; ¹ACD/Labs, Bracknell, UK; ²ACD/Labs, Toronto, Canada; ³ACD/Labs, San Diego, CA; ⁴ACD/Labs, Vilnius, Lithuania
- MP 103 Separation and Quantitation of Multicomponent Solutions Using a Novel UHPLC-MSMS System;

 Jonathan Mcnally¹; Keeley Murphy¹; Jonathan L. Josephs¹;

 Mary Blackburn¹; Remco Swart²; ¹Thermo Fisher Scientific,

 San Jose, CA; ²Thermo Fisher Scientific, Germering,

 Germany
- MP 104 Automatic Update of Electron Multiplier Gain Calibration Parameters in Polarity Opposite to the One Being Calibrated; Oleg Silivra¹; Harald Oser¹; Joshua Maze²; Terry Olney¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Austin, TX
- MP 105 Open Access Software For Recombinant Protein
 Characterization; Edmond Neo; Robert Yang; Kenneth
 McGreevy; Robin Scheiderer; Maithilee Samant; Ning Tang;
 Patrick D. Perkins; Agilent Technologies, Santa Clara, CA
- MP 106 A Method for Improved LC-MS/MS Peak Integration by using Multiple Traces and Peak Modeling; Richard King¹; John Gibbons²; Lyle Burton²; Gordana Ivosev²;

 ¹PharmaCadence Analytical Services, LLC, Hatfield, PA;
 ²SCIEX. Concord. Ontario. Canada
- MP 107 Getting the Most Out of Your Mass Spectrometer Multiplexing LC/MS Assays for High Throughput; Todd Lusk; James Lauzun; Daniel Mulvana; Quintiles, Ithaca, NY

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- MP 109 Characterization of FAIMS Waveform With Regards to Amplitude, Frequency, Phase, and Electrode Temperature; Michael Belford; Satendra Prasad; Jean-Jacques Dunyach: Thermo Fisher Scientific. San Jose. CA
- MP 110 SelexIon™ Mobility Separation of Leukotriene Isomers;

 <u>Cyrus Papan</u>¹; Sebastian Fabritz¹; Martin Giera²; ¹Sciex,

 Darmstadt, Germany; ²Leids Universitair Medisch Centrum,

 Leiden. Netherlands
- MP 111 Optimization of FAIMS Electrodes for Small Molecule Analysis at High Liquid Flow Rates; Randy W.

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 Saskatchewan, Saskatoon, Canada; ²Thermo Fisher
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- MP 112 The Importance of Field Strength in the Low Field Portion of a Differential Ion Mobility Spectrometry Waveform; Jesus I. Martinez-Alvarado; Brandon G. Santiago; Gary L. Glish; The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina
- MP 113 Differential Mobility Separation Prior to Data-Dependent and Data-Independent MS Analysis of Complex Human Proteomics Samples; Sabine Amon¹; Stephen A. Tate²; Ruedi Aebersold¹.³; ¹Institute of Molecular Systems Biology, ETH Zurich, Zurich, Switzerland; ²AB Sciex, Concord, ON, Canada; ³Faculty of Science, University of Zurich, Zurich, Switzerland
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- MP 115 Study of the Effects of Waveform Frequencies on lons Transmission in a Cylindrical FAIMS Device; Jean-Jacques Dunyach; Satendra Prasad; Michael Belford; Thermo Fisher Scientific, San Jose, CA
- MP 116 Improved Sensitivity of Large Scale Proteomic
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 Eric Bonneil; Frederic Lamoliatte; Pierre Thibault; IRICUniversité de Montréal, Montréal, QC
- MP 117 Using Differential Mobility Spectrometry for the Detection of Intramolecular Hydrogen Bonding; J. Larry Campbell¹; Chang Liu¹; J.C. Yves Leblanc¹; Gilles H. Goetz²; Jefry Shields²; John Janiszewski²; Ahdia Anwar³; W. Scott Hopkins³; ¹SCIEX, Concord, ON, Canada; ²Pfizer Inc., Groton, CT; ³University of Waterloo, Waterloo, ON, Canada
- MP 118 A Comparison of Liquid Chromatography (LC) and Differential Mobility Spectrometry (DMS) as Separations Techniques for Acylcarnitine Analysis; Nicholas B. Vera¹ ²; Amol Kafle²; A.J. Fornace, Jr. ³; Stephen L. Coy²; Derek M. Erion¹; Jeffrey A. Pfefferkorn¹; Paul Vouros²; ¹Pfizer, Cambridge, MA; ²Northeastern University, Boston, MA; ³Georgetown University, Washington, D.C.
- MP 119 Differential Mobility Spectrometry Analysis of Glycans and Glycopeptides; Chang Liu; J.C. Yves Leblanc; J. Larry Campbell; <u>Tim L. Hoffman</u>; SCIEX, Concord, ON, Canada
- MP 120 FAIMS/MS and FAIMS for Detection of Exogenous VOCs and Drugs of Abuse in Human Breath; Michael Costanzo; <u>Matthew Kazaleh</u>; Robin Kemperman; Richard A. Yost; University of Florida, Gainesville, FL
- MP 121 First Application of Both APPI- and APLI-FAIMS-FTMS for the Analysis of Crude Oil; Alessandro Vetere; Wolfgang Schrader; Max-Planck-Institut für Kohlenforschung, Mülheim An Der Ruhr, Germany



- MP 122 Method Development for Cirrhosis Biomarkers in Simulated Breath using Various Ionization Techniques Combined with MS and FAIMS; Robin H.J. Kemperman; Michael T. Costanzo; Christopher R. Beekman; Christopher D. Chouinard; Richard A. Yost; University of Florida, Gainesville, FL
- MP 123 Use of Differential Mobility Spectrometry-Hydrogen Deuterium Exchange (DMS-HDX) with Optimised Modifier Gas to Investigate Solution-Phase Protein Conformational Stability; Shaolong Zhu¹; J. Larry Campbell²; J.C. Yves Leblanc²; Derek Wilson¹; ¹York University, Toronto, Canada; ²AB SCIEX, Concord, ON, Canada
- MP 124 Increased Ion Transmission through a Planar DIMS
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 Matthew T. Campbell; Gary L. Glish; UNC, Chapel Hill, NC
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- MP 127 Fast Approach for Obtaining Theoretical Conformations for Collision Cross Section Ranges to Aid in Metabolite Identification; Sarah M. Stow¹; Nichole M. Lareau¹; Jody C. May¹; Terry P. Lybrand¹; Emma E. Rennie²; Ruwan T. Kurulugama²; John C. Fjeldsted²; John A. Mclean¹; ¹Vanderbilt University, Nashville, TN; ²Agilent Technologies Inc., Santa Clara, CA
- MP 128 Exploring the Separation Capabilities of Ion Mobility-Mass Spectrometers: Resolution and Resolving Power Performance; James N. Dodds; Katrina L. Leaptrot; Jody C. May; John A. McLean; Vanderbilt University, Nashville, TN
- MP 129 Ion Mobility: Can Classical and Semi-Classical Theory Describe the Same Collision Event? Glenn Spangler; Technispan LLC. Lutherville. MD
- MP 130 Ion Mobility Mass Spectrometry of Phosphoric Acid Clusters Obtained With and Without Supercharging Agents; Helene Lavanant¹; Frederic Rosu²; Vincent Tognetti¹; Valerie Gabelica³,⁴; Carlos Afonso¹; ¹Normandie Univ, CNRS, UMR 6014 COBRA, Mont St Aignan, France; ²CNRS, UMR 3033, IECB, Pessac, France; ³INSERM, U869, ARNA Laboratory, Bordeaux, France; ⁴Univ. Bordeaux, IECB, Pessac, France
- MP 131 Predicting Theoretical Collision-cross Sections for Small Molecules; <u>Bela Paizs</u>¹; Keith Richardson²; Jeff Brown²; Mike Morris²; Zoltan Takats³; ¹Bangor University, Bangor, UK; ²Waters Corporation, Wilmslow, UK; ³Imperial College London, London
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- MP 137 High Resolution travelling Wave Ion Mobility
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- MP 138 High Resolution Mobility Separation for Orbitrap Mass Spectrometers; Adam M Graichen; Jianglin Wu; Robert Jackson; Mark Osgood; <u>Ching Wu</u>; <u>Excellims Corporation</u>, Acton. MA
- MP 139 Untargeted 2-Sample-Comparison Using High-Resolution Data from LC/Ion Mobility Q-TOF Mass Spectrometers via a Novel 4D Molecular Feature Extraction Algorithm; Frank Kuhlmann; Xiangdong Li; Ed Darland; Agilent Technologies, Inc., Santa Clara, CA
- MP 140 **Zoom Mode Ion Mobility Spectrometry**; <u>Michael Ewing</u>; Matthew Glover; Steven Zucker; David Clemmer; *Indiana University, Bloomington, IN*
- MP 141 Reviving the Fourier Transform to Characterize Gas-Phase Intermediates in Ion Mobility-Mass Spectrometry Experiments; <u>Brian H. Clowers</u>; Austen Davis; Kelsey Morrison; William F. Siems; Washington State University, Pullman, WA
- MP 142 A High Resolution Ion Mobility Spectrometer for LC-IMS-MS Applications on Orbitrap Mass Spectrometers; Adam M Graichen¹; Jianglin Wu¹; Jackson Adam¹; Ching Wu¹; Mark Osgood¹; Dirk Nolting²; ¹Excellims Corporation, Acton. MA: ²ThermoFisher Scientific, Bremen, Germany
- MP 143 Development of a High Dynamic Range Differential Mobility Analyzer (DMA) Coupled with a Mass Spectrometer and nano-ESI Source; Mario Amo
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 Juan Fernandez de la Mora²; ¹SEADM, Boecillo, Spain;
 ²Yale University, New Haven, CT
- MP 144 Ultra-definition Multiplex Acquisition (UDMS^E) of Whey Protein Supplements by Traveling Wave Ion Mobility Mass Spectrometry (TWIM-MS); Gustavo H. M. F. Souza¹; Maíra Fasciotti²; Bruno C. Garrido²; Daniela C. Lourenço²; Andrea F. Macedo³; Mariana S. L. Ferreira³; Luiz Claudio Cameron³; ¹Waters Corporation, Rio de Janeiro, Brazil; ²INMETRO, Duque De Caxias, Brazil; ³UNIRIO, Rio de Janeiro, Brazil
- MP 145 Advanced Multiplex Modulation Techniques With A
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- MP 146 Characterising a T-Wave Enabled Multi-pass Cyclic Ion Mobility Separator; Kevin Giles; Jason L Wildgoose; Steven Pringle; David Langridge; Peter Nixon; John Garside; Peter Carney; Waters Corporation, Wilmslow, UK
- MP 147 Path to Resolving Power Beyond 250: A Comprehensive Trapped Ion Mobility Spectrometry Analytical Model;

 Joshua A. Silveira¹; Karsten Michelmann²; Mark Ridgeway¹;

 Melvin A. Park¹; ¹Bruker Daltonics, Billerica, MA; ²Bruker Daltonik GmbH, Bremen, Germany



- MP 148 Chirp Multiplexing for Coupling Ion Mobility
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 Jianglin Wu²; Robert Jackson²; Ching Wu²; ¹Washington
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- MP 149 Equal Opportunity Ion Storage: Electric Field Gradient
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 Daltonics. Billerica. MA
- MP 150 Rapid, Direct Quantitative Analysis of benzoylecgonine-d₃ from Blood using Paper Spray Ionization Coupled with Ion Mobility Spectrometry (PSI-IMS); Jie Jiang¹; Jing Xu¹; Jing Zhang³; Eric Handberg²; Ning Bi¹; Mingyue Kou¹; ¹Harbin Institute of Technology at Weihai, Weihai, China; ²East China Institute of Technology, Nanchang, China; ³Wego Electronic Engineering Co. Ltd, Weihai, China
- MP 151 Comparative Studies of APCI and APLI in Atmospheric Pressure IMS; Marvin Ihlenborg; Björn Raupers; Tassilo Muskat; Jurgen Grotemeyer; Christian-Albrechts-Univ, Kiel, Germany
- MP 152 Improved Capacity Trapped Ion Mobility Spectrometry;

 Jens Bossmeyer¹; Karsten Michelmann¹; Mark Ridgeway²;

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 ¹Bruker Daltonik GmbH, Bremen, Germany; ²Bruker

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- MP 153 Improved Detection of Peptides and Proteins by Infusion using FAIMS; Susan E. Abbatiello¹; Helene Cardasis¹; Michael Belford²; David Sarracino³; Jason Neil¹; James Stephenson⁴; Jean-Jacques Dunyach²; Mary Blackburn²; ¹Thermo Scientific, Cambridge, MA; ²Thermo Fisher Scientific, Cambridge, MA; ⁴Thermo Fisher Scientific, Raleigh, NC
- MP 154 Online Deuterium Hydrogen Exchange and Protein Digestion Coupled with Ion Mobility Spectrometry and Tandem Mass Spectrometry; Gregory Donohoe; James Arndt; Stephen Valentine; West Virginia University, Morgantown. WV
- MP 155 Bacterial Glycolipids Characterized on an IMS-Q Exactive; Yue Huang²; Tao Liang¹; Sung Hwan Yoon¹; William Danielson³; Erik Nilsson²; Robert Ernst¹; Mikhail Belov³; David Goodlett¹; ¹University of Maryland, Baltimore, Baltimore, MD; ²Deurion R&D LLC, Seattle, WA; ³Spectroglyph LLC, Kennewick, WA

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- MP 157 Investigating the Cause of Low Oral Exposure of a Tool Compound Using Surface Sampling MicroLC-MS/MS; Panos Hatsis¹; Alexandre Catoire¹; Irina Vinar¹; Xiaojun Ren¹; David Carcache²; Samuel Hintermann²; Jim Glick¹; Jimmy Flarakos¹; ¹Novartis Institutes for Biomedical Research, East Hanover, NJ; ²Novartis Institutes of Biomedical Research, Basel, Switzerland
- MP 158 Quantifying the Site-Specific Stability of Gold Nanoparticles in Tissues; <u>Sukru Gokhan Elci</u>; Bo Yan; Sung Tae Kim; Chang Soo Kim; Krishnendu Saha; Daniel F. Moyano; Vincent M. Rotello; Richard Vachet; <u>University of Massachusetts</u>, <u>Amherst</u>, <u>MA</u>

- MP 159 Tandem TOF-SIMS Imaging of Intact Lipids in Infected Spleen Tissue Sections; Anne L. Bruinen¹; Gregory L. Fischer²; Alison J. Scott³; Bryn Flinders¹; Robert K. Ernst³; Ron M.A. Heeren¹; ¹M4I, Maastricht University, Maastricht, the Netherlands; ²Physical Electronics, Chanhassen, MN; ³University of Maryland School of Dentistry, Baltimore, MD
- MP 160 Utilizing Ultraviolet Photodissociation in MALDI-FTICR
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 Pacific Northwest National Laboratory, Richland, WA
- MP 161 Absolute Quantification of Antiretroviral Drugs in Tissue using IR-MALDESI Mass Spectrometry Imaging;

 Mark Bokhart¹; Elias Rosen¹; Corbin Thompson²; Craig
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 Carolina State University, Raleigh, NC; ²University of North
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- MP 162 Development of an Atmospheric-Pressure
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 Takats²; Josephine Bunch¹.³; ¹National Physical Laboratory,
 Teddington, UK; ²Imperial College London, London, UK;
 ³The University of Nottingham, Nottingham, UK
- MP 163 Rapid Imaging MS; <u>Jerry F. Moore</u>¹; Yang Cui¹; Valerie Vaughn²; Ernest Lewis²; J. Albert Schultz²; ¹Robot Nose, Naperville, IL; ²Ionwerks, Inc., Houston, TX
- MP 164 Matrix-Free Atmospheric Pressure Ultraviolet-Laser Ablation Electrospray Ionization Mass Spectrometry for Plant Material Imaging; Katherine-Jo Galayda^{1,2}; Patrick McVey¹; Stanely Bajic²; R.S. Houk¹; ¹Iowa State University, Ames, Ia; ²Ames Laboratory, Ames, IA
- MP 165 Megapixel Tissue Imaging at High-Speed: Evaluation of a MALDI-TOF prototype; Michael Becker; Ralf Schaefer; Janine Beckmann; Arne Fütterer; Armin Holle; Jens Höhndorf; Bruker Daltonik GmbH, Bremen, Germany
- MP 166 Matrix-Free Atmospheric Pressure Ultraviolet-Laser Ablation Electrospray Ionization Mass Spectrometry for Corn Seed Metabolite Imaging; Patrick McVey^{1, 2}; Katherine-Jo Galayda^{1, 2}; Stanley Bajic²; R.S. Houk^{1, 2}; *Iowa State University, Ames, IA; *2Ames Laboratory, Ames, IA
- MP 167 An Enhanced Droplet-Based Liquid Microjunction Surface Sampling System Coupled with HPLC-ESI-MS/ MS for Spatially Resolved Analysis; Vilmos Kertesz¹; Taylor M. Weiskittel²; Gary J. Van Berkel¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN; ²ORISE HERE Intern, University of Tennessee, Knoxville, TN
- MP 168 Mass Spectrometry Imaging and Ultrasensitive
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 Jun Aoki¹; Yosuke Kawai¹; Yowichi Fujita²; Hisanao
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 Awazu¹; Michisato Toyoda¹; Yasuo Arai²; ¹Osaka University,
 Toyonaka, Japan; ²High Energy Accelerator Research
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- MP 171 Ultra-High Spatial Resolution Imaging MS Using Atmospheric Pressure MALDI; <u>Victor Laiko</u>; Eugene Moskovets; Berk Oktem; Vladimir M. Doroshenko; *MassTech, Inc., Columbia, MD*



- MP 172 Simultaneous Imaging and Quantification of Neurotransmitters in Brain Tissue Using Nanospray Desorption Electrospray Ionization Mass Spectrometry Imaging; Ingela Lanekoff; Hilde-Marlene Bergman; Erik Lundin; Malin Andersson; Uppsala University, Uppsala, Sweden
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 Luke Hanlev: University of Illinois at Chicago. Chicago. IL
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 Josephine Bunch; National Physical Laboratory, Teddington,
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- MP 178 **Exploring Head and Neck Cancer by MALDI FT-ICR** Mass Spectrometric Imaging; Lukas Krasny¹; Franziska Hoffmann²; Günther Ernst²; <u>Jan Hendrik Kobarg</u>³; Dennis Trede^{3, 4}; Michael Becker⁵; Theodore Alexandrov^{4, 6}; Vladimir Havlicek1; Orlando Guntinas-Lichius7; Ferdinand von Eggeling^{2, 7}; Anna C. Crecelius^{8, 9}; ¹Institute of Microbiology, v.v.i., Prague, Czech Republic; Institute of Physical Chemistry, Friedrich Schiller University Jena, Germany; ³Steinbeis Innovation Center SCiLS Research, Bremen, Germany: 4SCiLS GmbH, Bremen, Germany: 5Bruker Daltonik GmbH, Bremen, Germany; ⁶European Molecular Biology Laboratory, Heidelberg, Germany: 7Department of Otorhinolaryngology, Jena University Hospital, Germany; 8Jena Center for Soft Matter (JCSM), Friedrich Schiller University Jena, Germany; 9Laboratory of Organic and Macromolecular Chemistry, Friedrich Schiller University Jena, Germany
- MP 179 Quantification and Fusion of Mass Spectrometry Imaging Data with MSiReader; Kenneth Garrard; Mark Bokhart; Milad Nazari; Elias Rosen; David Muddiman; North Carolina State University, Raleigh, NC
- MP 180 Absorption Mode Analysis of FT-ICR Imaging Data Improves Peak Resolution in a Bordetella pertussis Infection Model; Alison Scott; David Kilgour; Ciaran Skeery; Nicholas Carbonetti; Robert Ernst; David Goodlett; University of Maryland, Baltimore, MD
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 Alexander Dexter^{1, 2}; Helen Cooper¹; Iain Styles¹; Josephine Bunch²; ¹University of Birmingham, Birmingham, UK; ²The National Physical Laboratory, Teddington, UK
- MP 182 Inter-Day Normalization of Multi-Imaging Mass
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 Cohen-Kaminsky²; Jonathan Stauber¹; ¹ImaBiotech, MS
 Imaging Dept., Loos, France; ²INSERM UMR-S 999, Univ.
 Paris-Sud, Le Plessis Robinson, france

- MP 183 Multi-modal Image Fusion for Enhanced On-tissue Molecular Identification; Raf Van de Plas¹.²; Jeffrey Spraggins²; Junhai Yang²; Richard M. Caprioli²; ¹Delft University of Technology, Delft, Netherlands; ²Vanderbilt University, Nashville, TN
- MP 184 An Open Cloud-Computing Platform for Efficient
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 Theodore Alexandrov^{3,4}; ¹National Research University
 Higher School of Econ, St. Petersburg, Russia; ²Steklov
 Institute of Mathematics at St. Petersburg, St. Petersburg,
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 Michigan, Ann Arbor, MI
- MP 186 Online Strong Cation Exchange and Reversed-Phase Extraction Method for Hydrogen Exchange Mass Spectrometry of Samples Containing Macromolecular Crowding Agents; Farai Rusinga; University of Kansas, Lawrence. KS
- MP 187 Hydrogen Deuterium Exchange Mass Spectrometry (HDX-MS) of the Fab Fragment of the NIST-Monoclonal Antibody; Jeffrey W. Hudgens¹.²; Elyssia Gallagher¹.²; Ioannis Karageorgos¹.²; ¹National Institute of Standards and Technology, Rockville, MD; ²Institute for Bioscience & Biotechnology Research, Rockville, MD
- MP 188 The Nuances in Pressurized On-Line Pepsin Digestions of mAbs and the Implications for Hydrogen/Deuterium Exchange Mass Spectrometry; Jing Fang; Ying-Qing Yu; Asish Chakraborty; Keith Fadgen; Michael Eggertson; Weibin Chen; Waters Corporation, Milford, MA
- MP 189 Multivariate Statistical Tool for Large Scale HDX Drug Screening; Joey Sheff; University of Calgary, Calgary, Canada
- MP 190 Tuning Peptide Scoring Functions in HX-MS² to Support Rapid Data Validation; Kyle Burns; Vladimir Sarpe; David Schriemer; University of Calgary, Calgary, Canada
- MP 191 Automating Analysis of the SOD1 Protein by H/D Exchange Mass Spectrometry using Single Droplet Digital Microfluidics; Huijiang John Ding; Joseph Capri; Julian Whitelegge; University of California LA, Los Angeles,
- MP 192 A New in-ESI Source Hydrogen/Deuterium Exchange Method and Its Application for Proteomics, Glycomics and Petroleomics; Yury Kostyukevich⁴; Alexey Kononikhin²; Igor Popov³; Eugene Nikolaev¹; *Institute for Energy Problems of Chemical Physics, Moscow, Russia; *Institute for Energy Problems of Chemical Physics, Moscow, Russian Federation; *IBCP RAS, Moscow, Russian Federation; *Skolkovo Institute of Science and Technology, Moscow Region, Skolkovo,
- MP 193 A Statistical Approach to the Deconvolution of Bimodal H/D exchange Data; Miklos Guttman; Kelly Lee; University of Washington, Seattle, WA
- MP 194 A Data-Driven Approach to Filtering HDX-MS Datasets;
 Bruce Pascal²; Scott Novick²; Devrishi Goswami²; Manuel
 Molina-Martin³; Alfonso Espada³; Jeffrey Dodge¹; Michael
 Chalmers¹; Pat Griffin²; ¹Eli Lilly and Company, Indianapolis,
 IN; ²The Scripps Research Institute, Scripps Florida, Jupiter,
 FL; ³Lilly S.A., Alcobendas, Spain
- MP 195 Analyzing Nucleosome Dynamics using Hydrogen-Deuterium Exchange Coupled to Top-Down Mass Spectrometry; Kelly Karch; Benjamin Garcia; University of Pennsylvania, Philadelphia, PA



- MP 196 **Top-down H/DX-MS by ETD for the Characterization of Novartis Pertussis Antigen Folding**; Alessandro Vadi;
 Stefano Gotta; Novartis Vaccines, Siena, IT
- MP 197 Facile Measurement of Global Exchange Kinetics for PEGylated Proteins; Cedric Bobst¹; Damian Houde²; George Bou-Assaf²; Andrew Weiskopf²; Igor Kaltashov¹; ¹University of Massachusetts, Amherst, MA; ²Biogen IDEC, Cambridge, MA
- MP 198 Optimization of a Fully Automated Hydrogen/Deuterium Exchange Mass Spectrometry Platform to Probe Protein Conformation/Conformation Dynamics; Terry Zhang¹; Kai Scheffler²; Jonathan Josephs¹; ¹ThermoFisher, San Jose, CA; ²ThermoFisher, Dreieich, Germany
- MP 199 Ion Mobility Spectrometry-Hydrogen Deuterium Exchange Mass Spectrometry of Anions:
 Complementing Cation Studies; Mahdiar Khakinejad¹; Stephen Valentine²; ¹, Morgantown, WV; ²West Virginia University, Morgantown, WV

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- MP 200 Top-Down Electron-Capture Dissociation of Proteins in a QTOF Mass Spectrometer; <u>Douglas F. Barofsky</u>; Valery G. Voinov; Yury V Vasil'ev; Joseph S. Beckman; *Oregon State University, Corvallis, OR*
- MP 201 A Top-Down Mass Spectrometry Assay for Effective Protein Denaturation Based Upon Dimethylation of Primary Amines; <u>Joseph Capri</u>; Whitaker Cohn; Sara Bassilian; Kym Faull; Julian Whitelegge; *University of California LA, Los Angeles, CA*
- MP 202 Sequence Confirmation of the Protein Therapeutic Granulocyte-Colony Stimulating Factor by Top Down MS/MS and MS3; Michaella Levy; Ashley Gucinski; Michael Boyne; U.S. FDA, Saint Louis, MO
- MP 203 Deciphering Putative Histone Modification Codes Involved in Control of Gene Expression in Fungi with Top-Down Mass Spectrometry; Mowei Zhou¹; Rosalie Chu¹; David Stenoien¹; Si Wu²; Lanelle Connolly³; Jonathan Galazaka³; Michael Freitag³; Ljiljana Paša-Tolić¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²University of Oklahoma, Norman, OK; ³Oregon State University, Corvallis, OR
- MP 204 Conformational Footprinting of Proteins using a Combination of Native Top-Down Electron Transfer Dissociation and Ion Mobility Mass Spectrometry; Albert Konijnenberg¹; Frank Sobott¹.²; ¹Universiteit Antwerpen, Antwerp, België; ²Center for Proteomics (CFP-CeProMa), Antwerp, Belgium
- MP 205 Improving Protein Sequence Coverage and Identification of Oxidation Sites via Top/Middle -Down Fragmentation and Ion-mobility Time-of-flight Mass Spectrometry; Stephane Houel¹; Catalin Doneanu¹; Asish Chakraborty¹; Andrew Tudor²; Nick Tomczyk²; Martin Palmer²; Weibin Chen¹; ¹Waters Corp, Milford, MA; ²Waters MS Technologies, Wilmslow, UK
- MP 206 Top-Down FT-ICR Mass Spectrometry for Determination of Site-Specific Protein Disulfide Bond Redox Potentials; Xiaoyan Guan¹; Nicolas L. Young²; Alan G. Marshall²; ¹National High Magnetic Field Lab, Tallahassee, FL; ²NHMFL / FSU, Tallahassee, FL
- MP 207 Top-down MALDI In-Source Decay FTICR-MS of Isotopically Resolved Proteins at an Extended Mass Range; Simone Nicolardi; Linda Switzar; André M. Deelder; Magnus Palmblad; Yuri E.M. van der Burgt; Leiden University Medical Center (LUMC), Leiden, The Netherlands
- MP 208 Impact of Charge State and Charge Sites on Top-Down Characterization of Proteins using 193 nm Ultraviolet Photodissociation Mass Spectrometry; Sylvester Greer; Jennifer Brodbelt; The University of Texas, Austin, Texas

- MP 209 Two-dimensional IRMPD/ECD FT-ICR Mass
 Spectrometry of Calmodulin: A Top-Down and BottomUp Approach; Federico Floris¹; Maria Van Agthoven¹;
 Lionel Chiron²; Christopher Wootton¹; Mark Barrow¹;
 Peter B. O'connor¹; ¹University of Warwick, Coventry, UK;

 2CASC4DE, Illkirch-Graffenstaden, France
- MP 210 Mapping Electrostatic Interactions in Protein Ions using Electron Transfer Dissociation; Zhe Zhang; Richard Vachet; University of Massachusetts, Amherst. MA
- MP 211 In situ Unwrapping of Overlapping Isotopic Envelopes in Protein Tandem Mass Spectra with DREAM in ProteinGoggle; Zhixin Tian; Kaijie Xiao; Fan Yu; Houqin Fang; Bingbing Xue; Yan Liu; Department of Chemistry, Tonqii University, Shanghai, China
- MP 212 Development of a Diagnostic Technique for the Identification of Hemoglobin Variants; Matthew Edgeworth¹; Jeff Brown²; Jonathan Williams²; James Scrivens¹; ¹Univ of Warwick, Coventry, UK; ²Waters, Wilmslow, UK
- MP 213 Analysis of Intact p53 Protein by Top-Down Mass Spectrometry; Caroline J. DeHart¹; Owen S. Skinner¹; Philip D. Compton¹; Paul M. Thomas¹; Galit Lahav²; Jeremy Gunawardena²; Neil L. Kelleher¹; ¹Northwestern University, Evanston, IL; ²Harvard Medical School, Boston, MA
- MP 214 Characterization of Histones H2A/H2B in Human Pluripotent Stem Cells; Xibei Dang¹; Amar Singh²; Stephen Dalton²; Alan G. Marshall¹.³; Nicolas L. Young³; ¹Florida State University, Tallahassee, FL; ²University of Georgia, Athens, GA; ³National High Magnetic Field Laboratory, Tallahassee, FL
- MP 215 Comprehensive Characterization of AMP-activated Protein Kinase Catalytic Domain Using Top-Down Mass Spectrometry; Deyang Yu; Ying Peng; Serife Ayaz-Guner; Ying Ge; UW-Madison, Madison, WI
- MP 216 Top-down (phospho-)Proteoform Characterization by EThcD and UVPD on a Orbitrap Fusion or Exactive EMR; Andrea Brunner¹; Philip Lössl¹; Andrey Dyachenko¹; Romain Huguet²; Christopher Mullen²; Vlad Zabrouskov²; Alexander Makarov³; Albert Heck¹; A.F. Maarten Altelaar¹; ¹Utrecht University, Utrecht, Netherlands; ²Thermo Fisher Scientific, San Jose, CA; ³Thermo Fisher Scientific, Bremen, Germany
- MP 217 Characterization of a Monoclonal Antibody (mAb) using Multiple Fragmentation Techniques and Novel FT Data Processing Software; Bao Quoc Tran; Shivangi Awasthi; Tao Liang; Modh M. Khan; David Kilgour; David Goodlett; Young Ah Goo; University of Maryland Baltimore, Baltimore, MD
- MP 218 Hemoglobin Variant Analysis by MALDI-ISD on TOF/ TOF MS and FT-ICR MS Platforms; Roger Theberge¹; David H. K. Chui¹; Carolyn Hoppe²; Cheng Lin¹; Catherine E. Costello¹; Mark E. Mccomb¹; ¹Boston University School of Medicine, Boston, MA; ²Children's Hospital Oakland Research Institute, Oakland, CA
- MP 219 Front-End Electron Transfer Dissociation Coupled with 21 T FT-ICR MS with Data Dependent Parameter Adjustment for Top-Down Protein Analysis; Nathan Kaiser¹; Don Smith¹; Chad Weisbrod¹; Greg T. Blakney¹; John Quinn¹; Alan Marshall¹.²; Chris Hendrickson¹; Donald Hunt³; ¹National High Magnetic Field Laboratory, Tallahassee, FL; ²FSU Dept of Chemistry and Biochemistry, Tallahassee, FL; ³University of Virginia, Charlottesville, VA

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MP 220 A Novel Strategy for the Discovery and Characterization of New Natural Products from Traditional Chinese Medicine Using Orbitrap Mass Spectrometer; Chen Li¹; Jian Qin²; Dajian Yang³; Yi Zhang³; ¹Thermo Fisher Scientific, Shanghai, China; ²Chongqing Institute for Food and Drug Control, Chongqing, China; ³Chongqing Academy of Chinese Materia Medica, Chongqing, China



- MP 221 Bromophenacyl-8 Reaction to Identify Highly-Polar Carboxyl-Containing Compounds in Complex Mixtures Using HPLC-Mass Spectrometry; Quanbo Xiong; Serge Fotso; Negar Garizi; Dow AgroSciences, Indianapolis, IN
- MP 222 APGC-QToF-MS of the Organic Constituents of the Nest Entrance Tubes of the Stingless Honeybee (Apidae: Meliponini); <u>Jeffrey Morré</u>; Chris Beaudry; Michael Burgett; Liping Yang; Claudia Maier; Oregon State University, Corvallis. OR
- MP 223 LC-MS Based Metabolite Fingerprinting and Profiling of a Traditional Chinese Medicine Formulation from Two Vendors; Ahmad Almalki; Auburn, AL
- MP 224 High Throughput Screening of Natural Products
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 Breemen; University of Illinois, Chicago, IL
- MP 225 Characterizing the Secondary Metabolites of *Pinus* armandii by On-Line HPLC-SPE/MS; Yi-Lynn Chen; Kuo-Lung Ku; *National Chiayi University, Chiayi City, Taiwan*
- MP 226 Surface MALDI-MS Imaging for the Discovery of Natural Products from Fungus-Growing Ants; Erin Gemperline¹; Heidi Horn²; Cameron Currie²; Lingjun Li^{1, 3}; ¹Department of Chemistry, UW-Madison, Madison, WI; ²Department of Bacteriology, UW-Madison, Madison, WI; ³School of Pharmacy, UW-Madison, Madison, WI
- MP 227 Development of a Rapid Electrospray Ionization
 Mass Spectrometry Methodology for Simultaneous
 Determination of the Bioactive Constituents of Vitis
 vinifera L; Andrey P. Lopes^{1, 2}; Bianca S. Bagatela^{1, 2}; Fabio
 F. Perazzo¹; Demian R. Ifa²; ¹UNIFESP, São Paulo, São
 Paulo; ²York University, Toronto, Ontario
- MP 228 Liquid Chromatography Mass Spectrometry Based workflows for Herbal Product Analysis; Manoj Pillai; Akanksha Singh; SCIEX, 121, Udyog Vihar Phase IV, Gurgaon, Haryana, India
- MP 229 Isolation and Characterization of Quinones from Tectona grandis Linn. Leaves using Innovative Hyphenation of TLC-MS Interface with LC/MS/MS System; Shailendra Rane¹; Rashi Kochhar¹; Shailesh Damale¹; Deepti Bhandarkar¹; Shruti Raju¹; Ajit Datar¹; Jitendra Kelkar¹; Pratap Rasam¹; Akshay Charegaonkar²; Prashant Hande²; Manish Hate³; ¹Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India; ²Anchrom Enterprises (I) Pvt. Ltd., Mumbai, India; ³Ramnarain Ruia College, Mumbai, India
- MP 230 A Capillary Electrophoresis Mass Spectrometry Method for the Analysis of Naturally Occurring Flavonoids in Herbal Supplements; Ryan Johnson; Lawrence, KS
- MP 231 Direct Analysis of the Dry Extract from the Peels of Citrus aurantium L. by ESI-MS Fingerprinting and HPTLC/DESI-MS Imaging; Bianca S. Bagatela^{1, 2}; Andrey P. Lopes^{1, 2}; Fabio F. Perazzo¹; Demian R. Ifa²; ¹UNIFESP, São Paulo, São Paulo; ²York University, Toronto, ON, Canada
- MP 232 A Novel UHPLC Orbitrap HRMS Approach for Monitoring Sulfur Fumigation Abuse in Drying Process of Traditional Chinese Medicine; Zhe Zhou¹; Min Yang²;

 ¹Thermo Fisher Scientific, Shanghai, China; ²Shanghai Institute of Materia Medica, Shanghai, China
- MP 233 Facile Structure Elucidation of Natural Products by Mass Spectrometry; Andrew Johnson¹; Ashley Sidebottom¹; Erin Carlson^{1,2}; ¹Indiana University, Bloomington, IN: ²University of Minnesota, Minneapolis, MN
- MP 234 High Resolution Mass Spectrometry with Automated Data Analysis to Support Late Stage Functionalization; Yong Liu¹; Fabien Fontaine²; Huifang Yao¹; Ismael Zamora²; Roy Helmy¹; Shane Krska¹; Kevin Bateman³; ¹Merck & Co., Inc., Rahway, NJ; ²Molecular Discovery, Barcelona, Spain; ³Merck & Co., West Point, PA

- MP 235 Characterization of Pyrrolizidine Alkaloids and N-oxides from Various Parts of Many Botanicals and Dietary Supplements using UHPLC-QToF-MS; Bharathi Avula¹; Satyanarayanaraju Sagi¹; Yan-Hong Wang¹; Jerry Zweigenbaum²; Mei Wang¹; Ikhlas A. Khan¹; ¹NCNPR, School of Pharmacy, Univ. of MS, University, MS; ²Agilent Technologies, Wilmington, DE
- MP 236 High Throughput Determination of Eight Ginsenosides from Rat Serum and Radix Ginseng Extract by UHPLC Tandem Triple Quadrupole Mass Spectrometry; Tao Bo; Zhengxiang Zhang; Agilent Technologies, Beijing, China
- MP 237 High Throughput Analysis of Anti-Fungal Paraben in Personal-Care Products at 9 Seconds per Sample using LDTD-MS/MS; Pascal Belisle¹; Serge Auger¹; Gregory Blachon³; Alex Birsan¹; Jean Lacoursiere¹; Annie-Claude Bolduc²; Pierre Picard¹; ¹Phytronix Technologies Inc., Quebec, Canada; ²Université Laval, Québec, QC; ³Phytronix Technologies, Québec, QC
- MP 238 Determining Elemental Composition of Phytochemicals in Camelina Seed Meal by High Mass Accuracy and Spectral Accuracy; Mark Berhow¹; Michael Bowman¹; Ming Gu²; ¹USDA, ARS, NCAUR, Peoria, IL; ²Cerno Bioscience, Yardley, PA
- MP 239 Utilization of a Novel Geometry Travelling Wave IMS/Q-TOF Mass Spectrometer for Natural Products Profiling;
 Anthony T. Iavarone¹; Ulla N. Andersen¹; Darren Hewitt²;
 Andrew Baker³; ¹UC Berkeley, Berkeley, CA; ²Waters,
 Wilmslow, UK; ³Waters, Inc., Pleasanton, CA
- MP 240 Mobile Phase Investigation of Positive and Negative Ion ESI Spectra of Plant Polyacetylenes during LC/MS;

 David Hasman^{1, 2}; Richard W. Smith³; ¹British Columbia Institute of Technology, Burnaby, British Columbia;

 ²Procyon Research Inc., Vancouver, Canada; ³Univ of Waterloo, Waterloo, ON
- MP 241 Application of Chemical Fingerprint Approach to Identify Gastrodiae Rhizoma in Chinese Medicine Preparations by UPLC-QTOF-MS; Pin-Hsiu Chen; Jhe-Wei Yu; Pei-Yi Chen; Fen-Ling Lu; Chia-Fen Tsai; Hwei-Fang Cheng; Taiwan Food and Drug Administration, Taipei, Taiwan (R.O.C)
- MP 242 Profiling Fungal Cultures in situ via the Droplet-LMJ-SSP Coupled with UPLC-PDA-HRMS-MS; Vincent Sica¹; Huzefa Raja¹; Cedric Pearce²; Vilmos Kertesz³; Gary J. Van Berkel³; Nicholas Oberlies¹; ¹University of North Carolina Greensboro, Greensboro, NC; ²Mycosynthetix, Hillsborough, NC; ³Oak Ridge National Laboratory, Oak Ridge, TN
- MP 243 Nickel (II)-assisted Tadalafil Enantiomers Analysis by Electrospray Ionization Mass Spectrometry; Lu Wang; Cuirong Sun; Su Zeng; Zhejiang University, Hangzhou, China
- MP 244 Screening and Identification of Undeclared Synthetic Compounds as Adulterants using UPLC-Qtof-MS Coupled to a Novel Informatics Platform; Dhavalkumar Narendrabhai Patel¹; Lirui Qiao²; Jimmy Yuk³; Giorgis Isaac³; Kate Yu³; ¹Waters Pacific Private Ltd, Singapore, Singapore; ²Waters Corporation, Shanghai, China; ³Waters Corporation, Milford, MA
- MP 245 A Comprehensive Platform for the Identification and Mode of Action Characterization of Bioactive Natural Products from Complex Libraries; Roger G. Linington¹; Kenji L. Kurita¹; Giorgis Isaac²; Mark Wrona²; Kate Yu²; ¹University of California Santa Cruz, Santa Cruz, CA; ²Waters Corporation, Milford, MA
- MP 246 **REDIchips for Applied Quantitation of Alkaloids**; <u>Haddon Goodman</u>¹; Gregory Boyce¹; Daniel Panaccione²; ¹Protea Biosciences, Morgantown, WV; ²West Virginia University, Morgantown, WV



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- MP 248 A Case Study for Oxcarbazepine Variation in Sample Extracts Due To Adsorption in 96-well Plates by LC-MS.; Richard Lavallée; Georges Koudssi; Milton Furtado; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada
- MP 249 Development and Validation of a High Throughput LC-MS/MS Method for Determination of Clobazam and N-Desmethyclobazam in Human Plasma; Jasper X. Chu; Yuzhu Xue; Mary Hillegas; Yuan-Shek Chen; QPS LLC, Newark, DE
- MP 250 Quantitative Measurement of Lovastatin and Lovastatin Acid in Human Plasma using Column Switching and Tandem Mass Spectrometry; Jingduan Chi; Erika Helgerson; Lisa McIntosh; Fumin Li; PPD Inc, Madison, WI
- MP 251 Simultaneous Quantitation of Delamanid (OPC-67683) and its Eight Metabolites in Human Plasma using UHPLC-MS/MS; Min Meng¹; Bradley Bessette¹; Benjamin Smith¹; Brad Johnston¹; Spencer Carter¹; Jerry Brisson²; Sharin E. Roth²; 'Tandem Labs, Salt Lake City, UT; 20tsuka Pharmaceutical Development, Rockville, MD
- MP 252 Increase Selectivity in Quantitative LC-MS/MS Analysis using On-line Extraction via an Analyte Interaction Exclusion Process; Mathieu Lahaie; Milton Furtado; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada
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 Determination of Methamphetamine in Human Hair by Ultra High Performance Liquid Chromatography/
 Tandem Mass Spectrometry; Chao Ma¹; Kai Zhang²; Yumin Di²; Yueqi Li¹; Guixiang Yang¹; Taohong Huang¹; Shin-ichi Kawano¹; Yuki Hashi¹; ¹Shimadzu Global COE, Shimadzu (China) Co., Ltd, Beijing, China; ²Tianjin Public Securitity Bureau, Tianjin, China
- MP 254 Identification of a Contaminant Interfering with
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- MP 255 Quantification of Thiazolidine-4-carboxylic Acid in Toxicant-Exposed Cells by Liquid Chromatography—Mass Spectrometry Reveals an Intrinsic Antagonistic Response to Oxidative Stress-Induced Toxicity; Jingjing Liu; Hong Kong, China
- MP 256 Quantitative Analysis of Antipsychotics in Urine by Liquid Chromatography-Triple Quadrupole Mass Spectrometry; Flaubert Mbeunkui; Carla Lyon; R. Brent Dixon; Physicians Choice Laboratory Services, Rock Hill, SC
- MP 257 **Development of the Separation of Three Tyrosine Isomers in Protein Hydrolysate Samples**; <u>Huseyin Kayadibi</u>^{1, 2}; Tammy Bullwinkle³; Noah Reynolds³; Medha Raina³; Adil Moghal³; Eleftheria Matsa³; Andrei Rajkovic³; Farbod Fazlollahi¹; Christopher Ryan¹; Kym Faull¹; Michael Ibba³; ¹UCLA, Los Angeles, CA; ²Adana Military Hospital, Adana, Turkey; ³Ohio State University, Columbus, OH
- MP 258 Development and Validation of LC-MS/MS Method for Determination of N-Tetracosanoylsphinganine in Human Plasma; Hui Jiang; Jean Schaffer; Daniel Ory; Xuntian Jiang; Diabetic Cardiovascular Disease Center, Washington, St. Louis, MO
- MP 259 Matrix Effect, Sensitivity and Throughput of Microflow Liquid Chromatography vs. HPLC: A Case Study With Buprenorphine and Norbuprenorphine; Laurence Mayrand-Provencher; Milton Furtado; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada

- MP 260 Event Investigation of Sample Inhomogeneity in Acidified Human Plasma Samples in a First-in-Human Study; Philip S. Wong; Jian jiang; Christopher James; Amgen. Thousand Oaks. CA
- MP 261 Quantification of Nicotine and Its Metabolite Cotinine in Human Tooth Using Triple Quad 6500 LC-MS/MS;
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 ¹West China Hospital of Stomatology, Chengdu, China;
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- MP 262 Improved Sensitivity and Selectivity by using LC-HRMS for the Quantification of Latanoprost Acid in Dog Plasma at 5.00 pg/mL; Richard Lavallée¹; Milton Furtado¹; Deepank Utkhede².³; Fabio Garofolo¹; ¹Algorithme Pharma Inc., Laval, Canada; ²Mati Therapeutics (Canada) Inc., Burnaby, Canada; ³Mati Therapeutics Inc., Austin. Texas
- MP 263 Simultaneous Determination of 12 Volatile Organic Compounds in Human Blood by SPME-GC/MS/MS;

 Zhiyun Jin¹; Rocio Aranda-Rodriguez¹; Ashley Cabecinha¹; Jeromy Harvie¹; Axelle Marchand²; Robert Tardif²; Andy Nong¹; Sami Haddad²; ¹Health Canada, Ottawa, Canada; ²Université de Montréal, Montréal, Canada
- MP 264 Effective Carryover Reduction by Derivatization of Residual Analyte in HPLC System during LC-MS/MS Quantification; Vinicio Vasquez; Sylvain Latour; Milton Furtado; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada
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- MP 266 Overcoming Hematocrit Impact Using Homogenization Beads for Dried Blood Spots (DBS) by LC-MS/MS Analysis; Nikolay Youhnovski; Julien Nantel; Milton Furtado; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada
- MP 267 A Rapid LC-MRM/MS Assay for Simultaneous Quantification of Choline, Betaine, Trimethylamine, Trimethylamine N-oxide and Creatinine; Xueqing Zhao¹; Steven Zeisel¹; Shucha Zhang²; ¹Nutrition Research Institute, UNC Chapel Hill, Kannapolis, NC; ²Brigham and Women's Hospital. Boston. MA
- MP 268 A Validated Method for the Quantitation of Evogliptin in Human Plasma using Liquid Chromatography-Tandem Mass Spectrometry; Jun Hwa Shim; Hwa-Suk Kim; Min Chang Kim; Seo Hyun Yoon; Kyung-Sang Yu; In-Jin Jang; Joo-Youn Cho; Seoul National University College of Medicine, Seoul, South Korea
- MP 269 Evaluation of Bench-top Quadrupole Orbitrap Ultra High Resolution Mass Spectrometer for Rapid Quantitative Analysis of Immunosuppressant Drugs in Blood Samples; Mindy Gao; Marta Kozak; ThermoFisher Scientific, San Jose, CA
- MP 270 Simultaneous Quantification of Loxapine and its Four Metabolites in Human Plasma using LC-MS/MS; Min Meng¹; Benjamin Smith¹; Laixin Wang¹; Brad Johnston¹; Scott Reuschel¹; Charisse Green²; Steven H Gorman²; ¹Tandem Labs, Salt Lake City, UT; ²Teva Branded Pharmaceutical Products R & D, Inc, West Chester, PA
- MP 271 Quantitative Analysis of Cotinine in Human Plasma and Urine Utilizing a Simple Liquid/Liquid Extraction and GC-MS/MS; Chad Christianson¹; Ekong Bassey²; Keith Miller¹; ¹Alturas Analytics, Moscow, ID; ²ThermoFisher Scientific, San Jose, CA
- MP 272 Novel HILIC-LC-MS/MS Quantitative Method for the Bio-Analysis of Gemini Surfactants Designed as Nanomaterial Drug Carriers; McDonald Donkuru; George Katselis; Anas El-Aneed; University of Saskatchewan, Saskatoon, Canada



- MP 273 Method Validation of Quantitative Analysis of [14C] YH4808 in Human Plasma by Accelerator Mass Spectrometry; Hwa Suk Kim¹; Jun Hwa Shim¹; Min Chang Kim¹; Byung-Yong Yu²; Howard Lee¹; In-Jin Jang¹; Joo-Youn Cho¹; ¹Seoul National University Hospital, Seoul, South Korea; ²Korea Institute of Science and Technology, Seoul, South Korea
- MP 274 Rapid Determination of Multiple Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) in Microliter Quantities of Human Plasma using LC-MS/MS; Chen Zhang; A. Daniel Jones; Michigan State University, East Lansing, MI
- MP 275 Increase of Sensitivity and Precision at Low Concentration for LC-MS/MS Quantification of 11-Hydroxy-Δ9-tetrahydrocanabinnol by Summation of the MRM Transitions; Romain Beauvois; Vinicio Vasquez; Milton Furtado; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada
- MP 276 Robust LCMSMS Determination of Intact Conjugated Dextrorphan when Hydrolysis is Inefficient; Genevieve Emond; Philippe Bélanger; Luc Bouchard; Louis-Charles Boisvert; Marie-Josée Marcoux; Nancy Lampron; Nadine Boudreau; Ann Lévesque; InVentiv Health Clinical, Québec, Canada

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- MP 278 Software-Assisted Structural Characterization of Disulphide-Rich Macromolecular Peptides in Drug Discovery Research; Asoka Ranasinghe; Eugene F. Ciccimaro; Serhiy Hnatyshyn; Celia D'Arienzo; Timothy Olah: Bristol-Myers Squibb Company. Princeton. NJ
- MP 279 Comparison of Blood Microsampling Techniques for Discovery PK Studies in Rats: Capillary Microsampling (CMS) and a Dried Matrix Microsampling Device; Walter Korfmacher¹; Yongyi Luo²; Stacy Ho¹; Jie Wang²; Gregory Snow³; Thomas O'Shea¹; 'Genzyme, Waltham, MA; 'Sanofi, Waltham, MA; 'Agilux Labs, Worcester, MA
- MP 280 Expression of Drug-Adme-Associated Proteins in Human Small Intestine, Liver, and Kidney Microsomes: Swath-Ms-Based Absolute Protein Quantification; Shingo Ito^{1,3}; Kenji Nakamura²; Mio Hirayama^{1,3}; Sumio Ohtsuki^{1,3}; ¹Fac. of Life Sci., Kumamoto Univ., Kumamoto, Japan; ²Grad. Sch. of Pharma. Sci., Kumamoto Univ., Kumamoto, Japan; ³CREST, JST, Kawaguchi, Japan
- MP 281 A Mass Spectrometry Based Assay to Identify New Lead Compounds against Drug Resistant Bacterial Infections; Daniel Todd¹; David Zich¹; Martha Leyte-Lugo¹; Alexander Horswill²; Nadja Cech¹; ¹Univ. of N.Carolina Greensboro, Greensboro, NC; ²University of Iowa, Iowa City, IA
- MP 282 Novel Approach for Pharmacokinetics and Protein Binding Analysis of Teneligliptin using LC-ESI-QTOF Accurate Mass Spectrometer and Ultra-filtration: *invitro*, *in-vivo* Correlation; Shanti Kumar Saladi¹; Prasanth B¹; Veerbhadra Swamy C¹; Srinivas R²; Satheesh Kumar N¹; *

 **INIPER-Hyderabad*, Hyderabad*, India; **2National Center for Mass Spectrometry, IICT, Hyderabad*, India
- MP 283 Assessing Hemolysis Failures for LC-MS/MS Assays
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 David Horn²; Jonathan Josephs²; ¹Tandem Labs, Salt Lake
 City, UT; ²Thermo Fisher Scientific, San Jose, CA
- MP 284 Quantitation of Thioether-Prodrug NS1040 and Its Metabolites in Rat Plasma Using Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry;

- Emma Hughes¹; Daniel Appella²; Matthew Hassink²; Nathaniel Shank²; Kara George-Rosenker²; Xin Xu¹; Amy Wang¹; ¹NCATS NIH, Rockville , MD; ²NIDDK NIH, Bethesda , MD
- MP 285 Differential Mobility Spectrometry as a Measure of Physicochemical Properties Related to *in vitro*Absorption (permeability, solubility and lipophilicity);

 <u>Jefry Shields</u>¹; Chang Liu²; John Janiszewski¹; Hui Zhang¹;
 J. Larry Campbell²; J.C. Yves Leblanc²; ¹Pfizer Inc., Groton, CT; ²AB SCIEX, Concord, ON
- MP 286 An Ion-Pairing Strategy to Overcome PEG-400 Caused Matrix Effect in Routine Drug Discovery Blood Sample Analysis; Linlin Dong; Michael Johnson; Mark Qian; Shaoxia Yu; Takeda Pharmaceuticals International Co., Cambridge, MA
- MP 287 Evaluation of Supercritical Fluid Chromatography/
 Mass Spectrometry for Use in PK/PD Studies; Fangbiao
 Li¹; Bernard Choi¹; Cynthia M. Chavez-Eng¹; Christopher
 Kochansky¹; Eric Streakfuss¹; Joan Ellis¹; Bang-lin Wan¹;
 Emily Adarayan¹; Brad Coopersmith²; Richard Depinto²;
 Isabelle Vutrieu²; Eva Gallea²; Lucinda Cohen¹; Rena
 Zhang¹; Kevin Bateman¹; 'Merck Research Laboratories,
 West Point. PA: ²Waters. Richboro. PA
- MP 288 Radio-Labeled Compound Detection Using Fine Isotopic Structures From Very High Resolution

 Mass Spectrometry; Xiaojie C. Ding¹; Tim Stratton²;

 Ji Ma³; ¹Thermo Scientific, San Jose, Ca, CA; ²Thermo Fisher Scientific, San Jose, CA; ³Amgen Inc., South San Francisco. CA
- MP 289 Segmentation of the Tumour Microenvironment using Multimodal Molecular Imaging to Refine PK/PD Modelling; Jo Cappell¹; Richard Goodwin²; Peter Webborn²; Ron M.A. Heeren¹; ¹University of Maastricht, Maastricht, Netherlands; ²AstraZeneca, Macclesfield, UK
- MP 290 A Sample Preparation and Detection Strategy for Quantifying Proteolytically Unstable Therapeutic Peptides for Early-ADME Tissue Distribution Studies; Yasmin Boukhedimi¹; Aristidis Gritsas¹; Garnet McRae²; Roger Leger¹; Paul Drogaris¹; ¹Thrasos therapeutics, Montreal, Canada; ²G McRae Consulting, Ottawa, Canada
- MP 291 A Sensitive Liquid Chromatography-Tandem Mass Spectrometric Method for Determination of Octreotide in Human Plasma; Yuling Song; Jinting Yao; Hongyuan Hao; Taohong Huang; Shin-ichi Kawano; Yuki Hashi; Shimadzu (China) Co., LTD, Shanghai, China
- MP 292 Antibody-Free Mass Spectrometry Workflow For Protein Expression Analysis of Intestinal Efflux Transporters in Knock Out Cell Lines; Yongsheng Xiao; James J Walters; Maureen Bourner; David C. Thompson; Kevin Ray; Sigma-Aldrich, St. Louis, MO
- MP 293 Evaluation of High Resolution Mass Spectrometry for Bioanalytical Quantitation and Simultaneous Metabolite Identification; Matthew Zimmerman; Firat Kaya; Veronique Dartois; Brendan Prideaux; Rutgers University, Newark, NJ
- MP 294 Comparison of a 4-N-hydroxycytidine Ribonucleoside Phosphoramidate Prodrug with Sofosbuvir: Interspecies Hepatocytes and Human Cardiomyocytes Metabolic Profiles; Sijia Tao¹; Franck Amblard¹; Yong Jiang¹; Sheida Amiralaei¹; Hao Li¹; Steven Coats²; Raymond Schinazi¹; ¹Emory University School of Medicine, Atlanta, GA; ²CoCrystal Pharma, Inc., Tucker, GA
- MP 295 MS Transporter Assay for d9-ergothioneine on Carnitine/Organic Cation Transporter (OCTN1/SLC22A4); Chien-Ming Li; Xuexiang Zhang; Wenjie Jiang; Yong Huang; Optivia Biotechnology, Menlo Park, CA
- MP 296 A UHPLC-MS/MS Method for the Direct Analysis of Thymoquinone in Mouse Plasma and its Application to Pharmacokinetics; Jinghua Zhu; Qishan Lin; University at Albany, Rensselaer, NY



- MP 297 Robust and Sensitive Quantitation of Midazolam and Hydroxylmidazolam in Plasma using High Capacity UHPLC and a New Triple Quadrupole Instrument; Craig Love¹; Laura Pollum¹; Smriti Khera¹; Lester Taylor¹; Anabel Fandino¹; Martin Greiner²; Na Pi Parra¹; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Agilent Technologies, Waldbronn, Germany
- MP 298 Evaluation of a High Resolution Accurate Mass Instrument for Discovery Microsomal Clearance and Metabolite ID Analysis; Mustafa Varoglu¹; Lieu Nguyen¹; Xiaowei He¹; Keith Goodman²; ¹Cubist Pharmaceuticals, Lexington, MA; ²AB Sciex, Framingham, MA

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- MP 299 Quantitative Measurement of Vitamin D Metabolic Distributions in Human Serum after Chemical Derivatization; Miriam Müller; Dietrich Volmer; Saarland University, Saarbrücken, Germany
- MP 300 Development of a Multi-Method Approach for Determining Biomarkers of Sarin Exposure using a Single Blood Sample; Ronald Evans¹; Richard Lawrence¹; Michael Busch²; Ashley Fancher²; ¹U.S. Army ECBC, Aberdeen Proving Ground, MD; ²Excet Corporation, Aberdeen Proving Ground, MD
- MP 301 Determining the Binding Ratio of Protein-Ketamine Conjugates with Nanodiamond Mass Spectrometry and Immunizing Mice with the Conjugates; Hsi-An Chen¹; Tsong-Yung Chou²; Shun-Hsing Tuan²; Wen-Ping Peng¹;

 ¹National Dong Hwa University, Shoufeng, Hualien, Taiwan;
 ²Tzu Chi University, Hualien, Taiwan
- MP 302 A Rapid Multi-Analyte Screening of Amino Acids and Acylcarnitines in Newborns, using Dried Blood Spots [DOCUMENT NO: IVD-MKT-012057-A]; Prem K. Gupta¹; Sanjeev Pandey¹; Praveen K. Sharma²; Manoj Pillai²; ¹Innovative Life Discovery, IMT, Manesar, Haryana, India; ²Sciex, 121 Udyog Vihar, Phase IV, Gurgaon, Haryana, India
- MP 303 Quantification of Micafungin in Human Plasma by Liquid Chromatography-Tandem Mass Spectrometry; Sebastiano Barco; , Genoa, Italy
- MP 304 Clinical Diagnostics of Neuronal Ceroid Lipofuscinoses on Dry Blood Spots: Development of New Cathepsin Substrates for MRM-MS Determination; Laura lon¹;
 Brindusa-Alina Petre²; Thomas Braulke³; Angela Schulz³; Michael Przybylski¹; ¹Steinbeis Centre Biopolymer Analysis and Biomedica, Ruesselsheim, Germany; ²A.I. Cuza University, lasi, Romania; ³University Hospital Eppendorf, Hamburg, Germany
- MP 305 Detection of Aldosterone in Serum by a Liquid Chromatography and Tandem Mass Spectrometry on the Shimadzu LCMS-8050 System; Robin Karras; Danni Li; University of Minnesota, Minneapolis, MN
- MP 306 Diagnostic Protein Quantitation of 26 Actionable
 Targets in Patient Biopsies using Clinical Mass
 Spectrometry; Wei-Li Liao; Fabiola Cecchi; Adele Blackler;
 Sheeno Thyparambil; Eunkyung An; Zhichang Yang;
 Kathleen Bengali; Alexi Drilea; Joseph Reilly; Marlene
 Darfler; David Krizman; Jon Burrows; Todd Hembrough;
 OncoPlex Diagnostics. Rockville. MD
- MP 307 Development of an SPLC/MS/MS Method for Paclitaxel and Other Compounds in Whole Blood; Kerry Hassell¹; Scott Citrowske²; Keith Waddell¹; ¹ThermoFisher Scientific, Somerset, NJ; ²Boston Scientific MTAC, Maple Grove, MN
- MP 308 Evaluation and Comparison of Nonderivatization and Derivatization Tandem Mass Spectrometry Methods for Multianalyte Analysis in Dried Blood Spot; Xiaolei Xie; Marta Kozak; Thermo Fisher Scientific, San Jose, CA

- MP 309 Quantitative 'Immuno-MS/MS' of Clinically Relevant Heterogeneous Post Translational Protein Modifications: Oxidized and Truncated Parathyroid Hormone; Li Cui¹; John Wall²; Angela Podgorski²; Fabrizio Bonelli²; Marie Philipneri³; Amy Kreig³; Mustafaa Mahmood³; Kevin Martin³; Gavin Reid¹.⁴; ¹Michigan State University, East Lansing, MI; ²DiaSorin Inc., Stillwater, MN; ³Saint Louis University, Saint Louis, MO; ⁴University of Melbourne, Parkville, Australia
- MP 310 Rapid and Accurate LC-MS/MS Method for the Analysis of Nicotine, Nicotine Metabolites, and Minor Tobacco Alkaloid in Urine; Rob Freeman; Shun-Hsin Liang; Frances Carroll; Sharon Lupo; Ty Kahler; Paul Connolly; Rick Lake: Carrie Sprout: Restek. Bellefonte. PA
- MP 311 Applications of Parylene-Matrix Chips on MALDI-TOF MS for Highly Sensitive Bacterial Antibiotic Susceptibility Test and new-Born Screening Test; Jo-II Kim; Jong-Min Park; Joo-Yoon Noh; <u>Jae-Chul Pyun</u>; *Yonsei* University, Seoul, South Korea
- MP 312 Selexion Ion Mobility Enhances Assay Performance for the Determination of F₂ Isoprostane in Urine by LC-MS/MS; Joseph Greenwood; Jim Bruton; Jennie Ward; Daniel Hoefner; Joseph McConnell; Health Diagnostic Laboratory, Richmond. VA
- MP 313 Optimization of Automated Online SPE-LC-MS/MS Used in Pain Management Drug Monitoring; Mark J. Hayward¹; Rick Youngblood¹; Kim Gamble¹; Martin Johnson²; Matthew Hardison²; 'ITSP Solutions, Hartwell, GA; 'Assurance Scientific Laboratories, Bessemer, AL
- MP 314 Next Generation Sample Preparation for MS Analysis Of Targeted Plasma Metabolites; Fred Regnier^{1, 2, 3}; Timothy Schlabach^{1, 2}; Jinhee Kim^{1, 2}; Tim Woenker^{1, 2}; Jiri Adamec⁴; ¹Novilytic, West Lafayette, IN; ²Novilytic, West Lafayette, IN; ³Purdue University, Carmel, IN; ⁴University of Nebraska, Lincoln, NE
- MP 315 Multi-site Comparison of a High-Throughput Immuno-MALDI Plasma Renin Activity Assay with Methods Currently Used in Clinical Laboratories; Michael Chen¹; Robert Popp²; Andrew Chambers²; Shaun Eintracht¹; Elizabeth McNamara¹; Christoph Borchers².³; ¹Dept. of Diagnostic Medicine, Jewish Gen.Hospital, Montreal, Quebec, Canada; ²University of Victoria-Genome BC Proteomics Centre, Victoria, BC, Canada; ³Dept. of Biochem. & Microbiol., Univ. of Victoria, Victoria, BC, Canada
- MP 316 A Direct LC/MS/MS Method for Quantitative Determination of 25-Hydroxyvitamin D2 and D3 in Human Plasma; Zhi Wei Edwin Ting¹; Jun Xiang Lee²; Jie Xing¹; Zhaoqi Zhan¹; ¹Customer Support Centre, Shimadzu (Asia Pacific) Pte Ltd, Singapore; ²School of Physical & Mathematical Science, Nanyang Technological University, Singapore
- MP 317 A Rapid and Sensitive LC-MS/MS Method for the Analysis of Free Thyroid Hormones; Frances Carroll; Shun-Hsin Liang; Sharon Lupo; Ty Kahler; Paul Connolly; Rick Lake; Rob Freeman; Carrie Sprout; Restek, Bellefonte, PA
- MP 318 Coupling of *in-vivo* Ultrasonic Neuronavigational System and Rapid Evaporative Ionization Mass Spectrometry for the Identification of Brain Tumors during Neurosurgery; Babar Vaqas¹; Julia Balog¹,²; Federico Roncaroli¹; Steven Pringle²; Kevin O'Neill¹; Zoltan Takats¹; ¹Imperial College London, London, UK; ²Waters Corporation, Wilmslow, UK
- MP 319 Clinical Enzymology by Paper Spray Mass Spectrometry; Xin Yan; Xin Li; Chengsen Zhang; Kassandra Moore; Yang Xu; R. Graham Cooks; Purdue University, West Lafayette, IN



- MP 320 Mass Spectrometric Profiling of Intact Proteins
 Desorbed from Dried Serum Spots. A Novel Approach
 for Clinical Diagnostics of Pregnancy Complications;
 Manja Wölter¹; Manuela Ruß¹; Werner Rath²; Ulrich Pecks²;
 Michael O. Glocker¹; ¹Proteome Center Rostock, Rostock,
 Germany; ²Department of Obstetrics and Gynecology,
 Aachen. Germany
- MP 321 Isotope-Dilution Liquid Chromatography-Tandem Mass Spectrometry Candidate Reference Measurement Procedure for 24R,25-Dihydroxyvitamin D3 in Human Serum; Susan Tai; Michael Nelson; NIST, Gaithersburg, MD
- MP 322 Validation of An Automated SISCAPA-MALDI-TOF-MS
 Workflow for Quantification of Serum Apolipoproteins
 A-I and B-100 in Clinical Sera; Irene Van Den Broek¹; Jan
 Nouta¹; Morteza Razavi²; Richard Yip²; Marco Bladergroen¹;
 Fred Romijn¹; Nico Smit¹; Oliver Drews³; Rainer Paape³;
 Detlev Suckau³; Andre Deelder¹; Yuri van der Burgt¹; Terry
 Pearson²; Leigh Anderson²; Christa Cobbaert¹; ¹LUMC,
 Leiden, The Netherlands; ²SISCAPA Assay Technologies,
 Washington, DC; ³Bruker Daltonic GmbH, Bremen, Germany
- MP 323 Improved Method for the Analysis of Drugs in Oral Fluids and Urine using the Thomson eXtreme Filter Vials® by LC-MS/MS; Lisa Wanders; Sam Ellis; Thomson Instrument Company, Oceanside, CA
- MP 324 Influence of Isobaric Interferences on the Accuray of Results from LC-MS/MS Analysis of Vitamin D in Human Serum; Dietrich Volmer; Yulin Qi; Timon Geib; Pascal Schorr; Meier Florian; Saarland University, Saarbrücken, Germany
- MP 325 Polyvinyl Fluoride Bags for Exhaled Breath by
 Extractive Electrospray Ionization Mass Spectrometry;
 Jiuyan Zhao¹; Lanlan Zhu¹; Eric Handberg²; Zhiqiang Zhu²;
 Xiaowei Fang²; Huanwen Chen²; Wei Zhang¹; ¹Jiangxi Key
 Department of Respiratory Medicine, Nanchang, China;
 ²East China Institute of Tech., Nanchang, China
- MP 326 Design of Optimization: How to Improve Performance of High-Volume Clinical LC/MS/MS Assays; Andrew Lickteig; Matthew Salske; Brian Rappold; Essential Testing, LLC. Collinsville. IL
- MP 327 Intraoperative Tissue Identification using Rapid Evaporative Ionization: Principles of Real-time MS-guided Surgery; Julia Balog^{1, 2}; Edward R St. John²; Babar Vaqas²; James L Alexander²; David Phelps²; Mike Morris¹; Steven Pringle¹; Zoltan Takats²; ¹Waters Corporation, Wilmslow, UK; ²Imperial College London, London, UK
- MP 328 Separation and Low Level Determination Of Thyroid Hormones From Human Serum By UHPLC-MS/MS Using A Novel C18-Based Stationary Phase; Alan P Mckeown¹; Geoffrey Faden²; ¹Advanced Chromatography Technologies Ltd, Aberdeen, UK; ²MACMOD Analytical Inc., Chadds Ford, PA
- MP 329 Total Cholesterol and HDL Cross Validation between High Throughput LDTD-MS/MS Method and Reference Enzymatic Technique Used in Clinical Laboratory; Jean Lacoursière¹; Annie-Claude Bolduc²; Gregory Blachon³; Serge Auger¹; Alex Birsan¹; Pierre Picard¹; ¹Phytronix Technologies Inc., Quebec, Canada; ²Université Laval, Québec, QC; ³Phytronix Technologies, Québec, QC
- MP 330 The Analysis of Fentanyl and Its Analogues in Human Urine by LC-MS/MS; Paul Connolly; Shun-Hsin Liang; Frances Carroll; Sharon Lupo; Ty Kahler; Rick Lake; Rob Freeman; Carrie Sprout; Restek, Bellefonte, PA
- MP 331 Direct Metabolic Phenotyping of Newborns at the Molecular Level by High Resolution Mass Spectrometry Analysis of Exhaled Breath; Vladimir Frankevich¹; Nataliia Starodubtceva¹; Igor Popov¹; Alexey Kononikhin¹; Anna Bugrova¹; Stanislav Pekov¹; Eugene Nikolaev²; ¹Federal State Budget Institution "Research Center, Moscow, RU; ²Institute for Energy Problems of Chemical Physics, Moscow, RU

MP 332 A Dilute and Shoot FI-MS/MS Method for Quantification of Glycocholic Acid and Bilirubin in Bile; Ramakrishna Reddy Voggu¹; Raghavi Kakarla¹; Janet R Donaldson²; Baochuan Guo¹; ¹Cleveland State University, Cleveland, Ohio; ²Mississippi State University, Starkville, MS

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- MP 333 The Use of Variable Windows LC-SWATH-MS for Improved Detection and Quantification of Human Urine Metabolites; Gerard Hopfgartner¹; Aivett Bilbao^{1, 2}; Tobias Bruderer¹; Sandra Jahn¹; Emmanuel Varesio¹; ¹University of Geneva, Geneva, Switzerland; ²Swiss Institute of Bioinformatics, Geneva, Switzerland
- MP 334 Metabolite Profiling can be Used for the Classification and Understanding of the Taxonomic Relationships within Chinese Native Citrus Species; Li Jing¹; Zhentian Lei¹; Guiwei Zhang²; Alan Cesar Pilon³; David V. Huhman¹; Rangjin Xie²; Wanpeng Xi²; Zhiqin Zhou²; Lloyd W. Sumner¹; ¹Samuel Roberts Noble Foundation, Ardmore, OK; ²Southwest University, Chongqing, China; ³São Paulo State University, São Paulo, Brazil
- MP 335 Metabolomics Studies Paradigm Shift with Quanfirmation: Integrating Untargeted Profiling,
 Targeted and Pseudo-Targeted Analysis on One
 Platform; Zeming Wu¹; Huichang Bi²; ¹Thermo
 Fisher Scientific (China), Shanghai, China; ²School of
 Pharmaceutical, Sun Yat-Sen University, Guanazhou, China
- MP 336 MRMAnalzyer: An Integrated Targeted Metabolomic Platform for High-Throughput Metabolite Profiling and Automated Data Processing; Yuping Cai; Kai Weng; Yuan Guo; Zhengjiang Zhu; Chinese Academy of Sciences, Shanghai, China
- MP 337 Effects of Senescence and Water-Stress on Soybean Metabolomics: A High-Resolution Mass Spectrometry Investigation; William Friesen¹; Ali Yilmaz²; Raymond Mutava³; Silvas Prince³; Babu Valliyodan³; Henry Nguyen³; Troy Wood¹; ¹SUNY at Buffalo, Buffalo, NY; ²University of Southampton, Southampton, UK; ³University of Missouri, Columbia. MO
- MP 338 Intact Metabolome Analysis of Mice Liver by Probe Electrospray Ionization-Tandem Mass Spectrometry (PESI-MS/MS); Yumi Hayashi^{1, 2}; Kei Zaitsu^{1, 2}; Tasuku Murata³; Hiroki Nakajima³; Tamie Nakajima⁴; Hitoshi Tsuchihashi¹; Akira Ishii¹; Tetsuya Ishikawa¹; ¹Nagoya University Graduate School of Medicine, Nagoya, Japan; ²Institute for Advanced Research, Nagoya University, Nagoya, Japan; ³Shimadzu Corporation, Kyoto, Japan; ⁴Chubu University, Kasugai, Japan
- MP 339 Quantification of Oxidative Stress Metabolites in Human Serum by Liquid Chromatography Tandem Mass Spectrometry Reveals Beneficial Effects of Mediterranean Diet; Maria G. Kakkoura^{1, 2}; Kleitos Sokratous¹; Christiana Demetriou¹; Maria A. Loizidou¹; Andreas Hadjisavvas^{1, 2}; Kyriacos Kyriacou^{1, 2}; 1Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus; 2Cyprus School of Molecular Medicine, Nicosia, Cyprus
- MP 340 Can 2-deoxyglucose be metabolized? An Isotope-Based Metabolomic Analysis; <u>Susan Gelman</u>; Ying-Jr Amanda Chen; Jacob Schaefer; Gary J. Patti; <u>Washington</u> University in St. Louis, St. Louis, MO
- MP 341 Targeted Metabolic Profiling using High-Resolution Accurate Mass Database to Identify and Confirm Potential Biomarkers in Rose and Sunflower Plant Extracts; Jeffrey D. Miller¹; Cyrus Papan²; Jens Pfannstiel³; Iris Klaiber³; Baljit K. Ubhi⁴; Fadi Abdi¹; Tobias Bruderer⁵; Emmanuel Varesio⁵; Gerard Hopfgartner⁵; ¹SCIEX, Framingham, MA; ²SCIEX, Darmstadt, Germany; ³Universität Hohenheim, Stuttgart, Germany; ⁴SCIEX, Redwood City, CA; ⁵University of Geneva, Geneva, Switzerland



- MP 342 Comparison of Orthogonal Column Chemistries and Ionization Polarity for Increased High Resolution Metabolome (HRM) Coverage; Vilinh Tran; Douglas Walker; Karan Uppal; Shuzhao Li; Sophia Banton; Dean Jones; Clinical Biomarker, Emory School of Medicine, Atlanta. GA
- MP 343 Expanding the Coverage of Metabolome Using Multiple Liquid Chromatography Modes; Junhua Wang¹; Gina Tan¹; Xiaodong Liu²; Yingying Huang¹; ¹Thermo Fisher Scientific Inc, San Jose, CA; ²Thermo Fisher Scientific, Sunnyvale, CA
- MP 344 LC-MS/MS Monitoring of the Knockout of Lysine Dehydrogenase and Aminoadipic Semialdehyde Dehydrogenase in Ruegeria pomeroyi; Izabella A. Pena Neshich¹; Lygia Marques²; Marcos Eberlin²; Paulo Arruda¹¹³; ¹Centro de Biologia Molecular e Engenharia Genética, Campinas, Brazil; ²Laboratório ThoMSon de Espectrometria de Massas, Campinas, Brazil; ³Departamento de Genética e Evolução, Campinas, Brazil
- MP 345 Validation of a Retention Time Accurate Mass Library for Semi-Polar Metabolites using Open Source MS-DIAL Software and NIST MS PepSearch; Stephanie Samra; Ingrid Gennity; Megan Showalter; Oliver Fiehn; UC Davis, Davis, CA
- MP 346 Determination of Intracellular Metabolites by Ion-Paring Liquid Chromatography-Mass Spectrometry; Lili Guo; Andrew Worth; Clementina Mesaros; Ian A. Blair; University of Pennsylvania, Philadelphia, PA
- MP 347 Metabolomics Method to Comprehensively Analyze Amino Acids in Different Domains; Haiwei Gu^{1, 2}; Jianhai Du¹; Fausto Carnevale Neto^{1, 3}; Patrick Carroll⁴; Sally Turner¹; Gabriela Chiorean^{1, 5}; Robert Eisenman⁴; Daniel Raftery^{1, 4}; **University of Washington, Seattle, WA; ²East China Institute of Technology, Nanchang, China; ³Sao Paulo State University, Araraquara, Brazil; *Fred Hutchinson Cancer Research Center, Seattle, WA; **Indiana University Melvin and Bren Simon Cancer Ce, Indianapolis, IN
- MP 348 Application of Metabolic Transistor Strategy to Control Electron Transfer Chain Function in Escherichia coli by Manipulating Quinone Synthesis Pathway; Leepika Tuli²; Hui Wu¹; George Bennett²; Ka-Yiu San²; ¹State Key Laboratory of Bioreactor Engineering, Shangai, China; ²Rice University, Houston, TX
- MP 349 A Metabolomic Comparison of Primary and Immortalized Cells of the Same Lineage; <u>Jessica Lloyd Genenbacher</u>; Gary J. Patti; Washington University, Saint Louis, MO
- MP 350 Quantitative Profiling of Specialized Metabolites from Transgenic Lines of Camptotheca acuminata using Liquid Chromatography, Multiplexed CID and Time-of-Flight Mass Spectrometry; Sujana Pradhan; Radin Sadre; Maria Magallanes-Lundback; Vonny Salim; Dean DellaPenna; A. Daniel Jones; Michigan State University, East Lansing, MI
- MP 351 Construction of a Metabolite MS/MS Library for Laser Desorption Ionization Mass Spectrometry from Silicon Nanopost Arrays; Andrew Korte¹; Nicholas Morris²; Trust Razunguzwa²; Akos Vertes¹; ¹George Washington University, Washington, DC; ²Protea Biosciences Inc., Morgantown, WV
- MP 352 Understanding the Contribution of Glutamine in Fatty Acid Biosynthesis using ¹³C-stable Labelled Metabolites in Conjunction with an Integrated High-Throughput Methodology; Darren Dumlao¹; Mary Piotrowski¹; Jefry Shields¹; Richard Kibbey²; John Janiszewski¹; Russell Miller³; Min Wan³; ¹Pfizer, Inc, Groton, CT; ²Yale School of Medicine, New Haven, CT; ³Pfizer, Inc, Cambridge, MA

- MP 353 Investigation of Imidacloprid toxicity on the central nervous system of the snail Lymnaea Stagnalis by targeted Metabolomics; Sara Tufi¹; Marja H. Lamoree¹; Christian Ravnsborg²; Aiko Barsch²; Pim E.G. Leonards¹; ¹Institute for Environmental Studies, VU University, Amsterdam, Netherlands; ²Bruker Daltonics, Bremen, Germanv
- MP 354 High-Performance Chemical Isotope Labeling Liquid Chromatography Mass Spectrometry for Investigating the Effect of Drinking Red Wine on Urine Metabolome; Yunong Li; Liang Li; UAlberta, Edmonton, Canada
- MP 355 **13Glucose Infusion in Human Subjects: Metabolomic** analysis in the Q Exactive; Stephen B. Harvey; *University of Minnesota, Minneapolis, MN*
- MP 356 An Interactive Digital Pathway Map: A Resource for Interpreting Metabolomic Data; Nick Spittler^{1, 2}; Fuad Naser^{1, 2}; Gary J Patti¹; ¹Washington University in St. Louis, St. Louis, MO: ²Connex, St. Louis, MO
- MP 357 Uncovering Metabolic Changes in Single Drosophila melanogaster infected by Nematode Parasites using Capillary Electrophoresis Mass Spectrometry;

 Sam Choi; Rosemary Onjiko; Shruti Yadav; Ioannis Eleftherianos; Peter Nemes; George Washington University, Washington, DC
- MP 358 Development of a Chromatographic Screening
 Approach for Metabolomic Profiling; Thomas Horvath;
 Michael Pontikos; David Hawke; Phil Lorenzi; John
 Weinstein; University of Texas MD Anderson Cancer
 Center, Houston, TX
- MP 359 Detection and Annotation of the Small Molecule Fraction of Soil Organic Matter; Stefan Jenkins; Peter Andeer; Tami Swenson; Trent Northen; Lawrence Berkeley National Laboratory, Berkeley, CA
- MP 360 Determining Nutrient Utilization Rates Without Isotopes in Early Zebrafish Development; Jonathan Spalding^{1, 2}; Anna Chen^{1, 2}; Nathaniel Mahieu¹; Stephen Johnson²; Gary Patti^{1, 3}; **Department of Chemistry, Washington University, St. Louis, MO; **Department of Genetics, Washington University, St. Louis, MO; **Department of Medicine, Washington University, St. Louis, MO

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- MP 361 Coupling Liquid-Phase Microextraction with Paper Spray for Rapid Analysis of Malachite Green, Crystal Violet, and Their Metabolites Using Mass Spectrometry; Jiewei Deng¹; Yuan Yu¹; Yunyun Yang²; Xiaowei Wang¹; Tiangang Luan¹; ¹Sun Yat-Sen University, Guangzhou, China; ²China National Analytical Center Guangzhou, Guangzhou, China
- MP 362 **Tissue Sample Preparation Optimization for Global Lipidomics by LC-MS**; <u>Danielle McDougall</u>; Rainey
 Patterson; Yu-Hsuan Tsai; Timothy J Garrett; Richard A
 Yost; *University of Florida, Gainesville, Fl*
- MP 363 Separating the Separation; Evaluation of μ-solid-phase extraction for On-Column Derivatisation and Direct Injection Mass Spectrometry Sample Preparation;

 Jessica Pandohee¹; Andrew Minett²; Oliver A.H Jones¹;

 ¹ACROSS, School of Applied Sciences, RMIT University, Melbourne, Australia; ²EPREP Pty Ltd, Mulgrave, Australia
- MP 364 Desalting of Underivatized Small Metabolites on Fluorocarbon Coated Nanoporous Silicon for Solid Matrix-Free LDI-MS (SMALDI-MS); Ya Zhou¹; Peng Chen¹; D. Jed Harrison¹.²; ¹Department of Chemistry, University of Alberta, Edmonton, Canada; ²National Institute for Nanotechnology, Edmonton, Canada
- MP 365 Quantitative Targeted Metabolomics using Dried Plasma Spots Cards; Kristaps Klavins; Guido Dallmann; Therese Koal; Biocrates Life Sciences AG, Innsbruck, Austria



- MP 366 Variations of Human Blood Metabolome Depending on the Employed Sampling Techniques; <u>Kristaps Klavins</u>; Guido Dallmann; Therese Koal; *Biocrates Life Sciences AG*, *Innsbruck*, *Austria*
- MP 367 Influence of Sample Preparation and Extraction Steps on Metabolomics Analysis of Elaeis guineensis Leaves using LC-MS; Luiz Henrique Vargas¹; José Ribeiro²; Daniel Sifuentes²; Anselmo Oliveira³; Manoel Souza Junior²; Clenilson Rodrigues²; Patrícia Verardi Abdelnur²; ¹University of Lavras, Lavras, Brazil; ²Embrapa Agroenergy, Brasilia, Brazil; ³University of Goias, Goiânia, Brazil
- MP 368 The Non-Target Metabolomics of Rice Profiling Analysis by ultra-High Performance Liquid Chromatography

 / High-Resolution Mass Spectrometry; Yue Song¹;
 Chaoyang Hu²; Jianxin Shi²; Sifan Li²; Dabing Zhang²;
 Lei Wang³; Shan-An Chan⁴; ¹Agilent, Shanghai, China;
 ²Shanghai Nature Standard R&D and Biotech Co., Ltd.,
 Shanghai, China; ³Agilent, Beijing, China; ⁴Agilent, Taipei,
- MP 369 Derivatization of Amino Acids for Solid Matrix Laser Desorption/Ionization (SMALDI) Mass Spectrometry Analysis; Jing Ji¹; D. Jed Harrison^{1, 2}; ¹Department of Chemistry, University of Alberta, Edmonton, Canada; ²National Institute of Nanotechnology, Edmonton, Canada
- MP 370 Automated Metabolite Profiling in Urine by GC-MS with EI, PICI and APCI Ionization; Martin Moos¹; Kamil Petrus²; Jan Fesl¹; Petr Hušek¹.³; Iva Opekarová¹; Helena Zahradníčková¹; Ladislav Náměstek²; Petr Simek¹; ¹Biology Centre AS CR, Ceske Budejovice, Czech Republic, Europe; ²Pragolab s.r.o., Prague, Czech Republic; ³Faculty Hospital Ostrava, Ostrava, Czech Republic
- MP 371 High Throughput Analysis of Secondary Metabolites Excreted by Actinobacillus Isolates using Robotics and LC-MS/MS; Leslie Silva¹; Trent Northen²; ¹Lawrence Berkeley National Lab, Walnut Creek, CA; ²Lawrence Berkeley National Lab, Berkeley, CA
- MP 372 Systematic Comparison of Recovery and Selectivity of Liquid-Based, Solid-Phase and Size-Exclusion Extraction Methods for Global LC-MS Metabolomics of Human Plasma; Dmitri Sitnikov; Cian Monnin; Dajana Vuckovic; Concordia University, Montreal, Canada
- MP 373 An Optimized Method for Extraction of Red Blood Cell Metabolites; Mike Williams¹; Ann Guggisberg²; Christopher Beecher¹; Audrey Odom²; Timothy Garrett¹; **IUniversity of Florida, Gainesville, Florida; **2Washington University School of Medicine, St. Louis, MO
- MP 374 Matrix Effect on Chemical Isotope Labeling and Its Implication in Metabolomic Sample Preparation for Quantitative Metabolomics; Wei Han; Liang Li; University of Alberta, Edmonton, Canada
- MP 375 Comprehensive Human Fecal Metabolome Analysis
 Using Chemical Isotope Labeling LC-MS; Nan Wang¹;
 Wei Xu¹; Deying Chen¹; Xiaoling Su¹; Tao Huan²; Yingfeng
 Lu¹; Liang Li²; Lanjuan Li¹; ¹the First Affiliated Hospital,
 Zhejiang University, Hangzhou, China; ²Department of
 Chemistry, University of Alberta, Edmonton, AB
- MP 376 Development of a Robotic Platform for Automated GCMS and LCMS Sample Preparation and Large-scale Plant Metabolomics; David V. Huhman¹; Nicky Eastham²; Graham Ellison²; Robert Talintyre²; Mike Parnell²; Li Jing¹; Shelagh Henson¹; Andrew Whitwell²; Lloyd Sumner¹; ¹The Samuel Roberts Noble Foundation, Ardmore, OK; ²Labman Automation LTD, Seamer Hill, Stokesley, Middlesbrough, UK

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- MP 377 Simultaneous Quantitation of Low-Molecular Weight Sugars and Carboxylates in Wine by 3-nitrophenylhydrazine Chemical Derivatization LC-MS/MS; Jun Han¹; Karen Lin¹; Christoph Borchers¹.²; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochem. & Microbiol., Univ. of Victoria. Victoria. BC. Canada
- MP 378 Detection of Urinary Corticosteroids Metabolites by Gas Chromatography–Isotope Ratio Mass Spectrometry in Doping Control Analyses; Xavier De La Torre¹; Marta Cilia¹; Davide Curcio¹; Cristiana Colamonici¹; Francesco Molaioni¹; Daniel Jardines¹; Francesco Botrè¹.²; ¹Laboratorio Antidoping FMSI, Rome, Italy; ²Dipartimento di Medicina Sperimentale, "Sapienza", Rome, Italy
- MP 379 Identification and Characterization of Changes in Free Amino Acid and Dipeptide Concentrations in Body Fluids in Early Alzheimer's Disease; Katherine Castor; Alfred Fonteh; Michael Harrington; HMRI, Pasadena, CA
- MP 380 Combining DiLeu Isobaric Labeling and Labelfree Approaches for Metabolite Quantification and
 Biomarker Discovery of Lower Urinary Tract Symptoms
 (LUTS); Ling Hao¹; Tyler Greer²; Xuefei Zhong¹; David
 Page³; Sanghee Lee⁴; Chad Vezina⁵; Will Ricke⁵; Paul
 Marker¹; Dale Bjorling⁵; Wade Bushman⁴; Lingjun Li*¹.²;
 ¹School of Pharmacy, University of Wisconsin-Madison, WI;
 ²Department of Chemistry, UW-Madison, WI; ³Department
 of Biostatistics & Medical Informatics, UW-Madison, WI;
 ⁴Department of Urology, UW-Madison, WI; ⁵School of
 Veterinary Medicine. UW-Madison, WI
- MP 381 Ensuring Quantitative Data Reproducibility Within and Across Metabolomics Projects: Evaluation and Implementation of a Standard Quality Control for Serum/Plasma Metabolomics; Lisa St John Williams; J Will Thompson; Laura Dubois; M Arthur Moseley; Duke University, Durham, NC
- MP 382

 12C/13C-labeled 3-nitrophenylhydrazine for Chemical
 Derivatization UPLC-MS/MS Quantitation of Aldehyde
 Biomarkers of Oxidative Stress in Human Plasma;
 Constance Sobsey¹; Jun Han¹; Karen Lin¹; Christoph
 Borchers¹.²; ¹University of Victoria-Genome BC Proteomics
 Centre, Victoria, BC, Canada; ²Dept. of Biochem. and
 Microbiol., Univ. of Victori, Victoria, BC, Canada
- MP 383 Quantitative and Targeted MRM-based Metabolomics Applications to Characterize Toxicity and AOP in a Zebrafish Larvae Exposure Model; Bharat Chandramouli¹; Jonathan P. Benskin²; Susie SY Huang¹; John R. Cosgrove¹; ¹Axys Analytical Services, Ltd., Sidney, CA; ²Stockholm University, Stockholm, Sweden
- MP 384 Comprehensive Analysis of Primary Metabolites by using Both Ion Pairing Chromatography and Non-Ion Pairing Chromatography; <u>Tsuyoshi Nakanishi</u>¹; Takako HIshiki²; Makoto Suematsu².³; ¹Shimadzu Corporation, Kyoto, Japan; ²Keio University, Tokyo, Japan; ³JST ERATO Suematsu Gas Biology Project, Tokyo, Japan
- MP 385 An Approach to Overcome Ion Suppression for Small Molecule Profiling with LC-TOF MS using Post-Column Addition; Oskar González¹.⁴; Frans Van der Kloet¹.³; Carola Damen¹.⁵; Rob J. Vreeken¹.²; Amy Harms¹; Thomas Hankemeier¹; ¹Leiden University, Leiden, Netherlands; ¹Janssen Pharmaceutical, Beerse, BELGIUM; ³University of Amsterdam, Amsterdam, NL; ⁴University of the Basque Country. Leioa. SP: ⁵Waters. Manchester. UK
- MP 386 Utilization of Alkyl Maleimide Tags for Quantitation Thiol Metabolite; Xiaofeng Zhao; Saint Louis, MO



- MP 387 Quantitative LC-MS/MS Analysis of Polyamines and Their Metabolic Precursors in Lung Tissue; Karolina

 M. Krasinska¹; Yue Xu²; Chuong Hoang²; Allis S. Chien¹;

 ¹SUMS, Stanford University, Stanford, CA; ²Dept. of Thoracic Surgery, School of Medicine, Stanford, CA
- MP 388 Development of LC-MS/MS Methods for the Targeted Analysis of Urine Metabolites Associated with Respiratory Illnesses; Mona Khamis^{1, 2}; Hanan Awad¹; Kevin Allen¹; Darryl Adamko¹; Anas El-Aneed¹; ¹University of Saskatchewan, Saskatoon, Canada; ²Alexandria University, Alexandria, Egypt
- MP 389 Quantitative and Qualitative Metabolomics for the Investigation of Intracellular Metabolism; Brigitte
 Simons¹; Baljit Ubhi²; Douglas McCloskey³; ¹SCIEX,
 Concord, Canada; ²SCIEX, Redwood City, CA; ³University of California San Diego, La Jolla, CA
- MP 390 Metabolic Effect of Drought Stress during the Grain Filling Growth Stage in Wheat Measured by Isotopic Ratio Outlier Analysis (IROA); Felice De Jong¹; Chris Beecher²; ¹/ROA Technologies LLC, Bolton, MA; ²University of Florida, Gainesville, FL
- MP 391 Reproducible and Standardized Quantitative Bile Acids Phenotyping using UHPLC-ESI-MS/MS International Ring Trial and Applications in Other Biologically Relevant Matrices; Hai Pham Tuan; Doreen Kirchberg; Ines Zitturi; Therese Koal; BIOCRATES Life Sciences AG, Innsbruck, Austria
- MP 392 Quantification of Genitourinary Cancer Metabolites using Liquid Chromatography Triple Quadrupole Mass Spectrometry; Sumankalai Ramachandran; Xin-Qiao Zhang; Sankar Maity; Zhen Cai; Hui-Kuan Lin; Zahi Mitri; Jianjun Gao; Timothy Thompson; Christopher Logothetics; Eleni Efstathiou; Mark Titus; University of Texas MD Anderson Cancer Center, Houston, TX
- MP 393 Automated LC/MS/MS Methods Development for Targeted Bioanalysis of Metabolic Intermediates;

 John Janiszewski¹; Mary Piotrowski¹; Brendon Kapinos¹; Hui Zhang¹; Darren Dumlao¹; Wayne Lootsma²; Joseph Janiszewski²; Steven Ainley²; ¹Pfizer Inc., Groton, CT;

 2Sound Analytics, East Lyme, CT
- MP 394 A Kit for Mass-Spectrometry Based Absolute
 Quantification of Metabolic Enzymes; Guido
 Mastrobuoni¹; Fabian Bindel¹; <u>Karsten Schnatbaum</u>²; Paul
 Ensle²; Julia Avramova-Nehmer²; Holger Wenschuh²;
 Ulf Reimer²; Stefan Kempa¹; ¹Berlin Institute for Medical
 Systems Biology, Berlin, Germany; ²JPT Peptide
 Technologies GmbH, Berlin, Germany
- MP 395 Quantitative Analysis of Intracellular Metabolites of Microorganisms using Hyphenated Hydrophilic Interaction Liquid Chromatography Tandem Mass Spectrometry; Reza Maleki Seifar; Cor Ras; Joseph J. Heijnen; Delft University of Technology, Dept. Biotechnology, Delft, The Netherlands
- MP 396 Using Open Source MZmine Software for Targeted GC-MS Data Analysis in Plasma Samples; Martha Zuluaga¹; Mimi Doll²; Luis Valdiviez²; Lana Amerie²; Nutan Kaushik³; Oliver Fiehn²; ¹University of Caldas, Manizales, Colombia; ²NIH West Coast Metabolomics Center UC Davis, Davis, CA; ³The Energy and Resource Institute (TERI), New Delhi, India
- MP 397 Comprehensive Analysis of Primary & Secondary Metabolites in Citrus using an Automated Method Changeover UHPLC System Coupled to LC/MS/ MS; Yuka Fujito; Kiyomi Arakawa; Yoshihiro Hayakawa; Shimadzu Corporation, Kyoto, Japan
- MP 398 Quantitative Metabolomics: Way to Understand the Planarian Regeneration; Kannan Rangiah¹; Nivedita Natarajan¹; Padma Ramakrishnan¹; Vairavan Lakshmanan²; Dasaradhi Palakodeti²; ¹Metabolomics Facility, C-CAMP, NCBS, Bangalore, India; ²inSTEM, NCBS, Bangalore, India

- MP 399 Combined Targeted Quantitation of Keto- and Amino Acids in GC-MS Analysis using MTBSTFA Derivatization; Mimi Doll; Benjamin Wancewicz; Carol Tran; Mine Palazoglu; Oliver Fiehn; NIH West Coast Metabolomics Center, UC Davis, Davis, CA
- MP 400 Liquid Chromatography Mass Spectrometric
 Quantification of Immunomodulatory Histidine
 Metabolites of Probiotic Lactobacillus reuteri Strains;
 Daniel Roeth¹; Christina N. Morra²; James Versalovic²;
 Gabriel Gugiu¹; Markus Kalkum¹; ¹Department of
 Immunology, City of Hope, Duarte, CA; ²Texas Children's
 Hospital, Baylor College, Houston, TX
- MP 401 Improved Performance of Targeted Metabolome
 Analysis with Waters Xevo® TQ-S and Xevo® TQ-S Micro
 Instruments; Ines Zitturi¹; Christian Wachsmuth¹; Harold
 Zott¹; Michael Daxböck¹; Cornelia Röhring¹; Therese Koal¹;
 Andrew Peck²; ¹Biocrates Life Science AG, Innsbruck,
 Austria; ²Waters Corporation, Milford, MA
- MP 402 Rapid Measurement of 8-oxo-7,8-dihydro-2'deoxyguanosine in Urine of Colorectal Cancer Patients using Ultraperformance Liquid Chromatography– Tandem Mass Spectrometry; Cheng Guo; Shu Zheng; Zhejiang University, Hangzhou, China
- MP 403 Determination of Metabolites in Plasma or Blood Using Parallel Ion-Exchange Column-Switching and Reversed-Phase UHPLC-MS/MS with Fast Polarity Switching; Kyoko Watanabe^{1, 2}; Emmanuel Varesio¹; Neil J Loftus³; Gérard Hopfgartner¹; ¹University of Geneva, Geneva, Switzerland; ²Shimadzu Corporation, Kyoto, Japan; ³Shimadzu MS/BU, Manchester, UK
- MP 404 Simultaneous Stable Isotope Dilution Targeted and Untargeted Steroid Analysis with Girard P Derivatization on a QExactive High Resolution Mass Spectrometer; Alexander Frey; Nathaniel Snyder; AJ Drexel Autism Institute, Philadelphia, PA
- MP 405 The Use of Capillary Electrophoresis Coupled to Mass Spectrometry (CESI-MS) for Quantitation of Nucleotides and Nucleosides with Minimal Sample Preparation;

 Jose-Luis Gallegos-Perez, Sciex, Framingham, MA

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- MP 406 *MET-COFEA* + *MET-XAlign*: Tools that Enable LC/MS-based Comparative Metabolomics; Wenchao Zhang; Patrick Xuechun Zhao; Samuel Roberts Noble Foundation, Ardmore, OK
- MP 407 Software for High-Throughput, Accurate Quantification of Mass Isotopomer Distributions from LC-MS Data for Metabolic Flux Analysis; Yaroslav Lyutvinskiy¹; Mohit Jain²; Roland Nilsson¹; ¹Karolinska Institutet, Dept. of Medicine, Stockholm, Sweden; ²UCSD, Dept. of Pharmacology, La Jolla, CA
- MP 408 GNPS: Charting Molecular Families and Structure over Tens of Thousands of Mass Spectrometry Runs;

 Mingxun Wang¹; Haixu Tang²; Pieter Dorrestein³; Nuno Bandeira⁴; ¹UCSD, La Jolla, CA; ²Indiana University,

 Bloomington, IN; ³University of California, San Diego,

 Skaggs school, La Jolla, CA; ⁴University of California, San Diego, La Jolla, CA
- MP 409 METASPACE: A New European Project on Bioinformatics for Spatial Metabolomics; Theodore
 Alexandrov¹; Pieter Dorrestein²; Lennart Martens³; Oliver Panzer⁴; Charles Pineau⁵; Christoph Steinbeck⁶; Zoltan Takats⁻; Dennis Trede⁶; Kirill Veselkov⁻; ¹EMBL, Heidelberg, Germany; ²University of California, San Diego, Skaggs school, La Jolla, CA; ³VIB, Ghent, Belgium; ⁴European Research Services GmbH, Muenster, Germany; ⁵University of Rennes 1, Rennes, France; ⁶EMBL-EBI, Hinxton, UK; ¹Imperial College London, London, N/A; ⁶SCiLS GmbH, Bremen, Germany



- MP 410 Investigation of Complex Isotope Patterns of ¹³C-labeled Plant Metabolites by Mass Spectral Deconvolution; Zhenzhen Wang¹; A. Daniel Jones¹; Yongdong Wang²; Ming Gu²; ¹Michigan State University, East Lansing, MI; ²Cerno Bioscience, Norwalk, CT
- MP 411 Maximizing GC-MS Metabolic Profiling Power using
 Both Targeted and Non-Targeted Analyses; Jinshu Qiu;
 Matt Jerums; Pik Kay Chan; Pavel Bondarenko; Amgen,
 Thousand Oaks. CA
- MP 412 Metabolomics Analysis Operations Available for the BioCyc Pathway Database and Website; Peter Karp; Sri International, Menlo Park, CA
- MP 413 Development of Spectral Libraries for Use in Identification and Confirmation of Bourbon Authenticity; William Long¹; Luke Adams²; Sue D'Antonio¹;

 ¹Agilent, Technologies, Little Falls, DE; ²Beam Suntory,
 Louisville, KY
- MP 414 Recent Advances in Skyline: Small Molecule Targets and Ion Mobility Filtering; Brian Pratt¹; Max Horowitz-Gelb¹; J. Will Thompson²; Erin Baker³; Michael J. Maccoss¹; Brendan Maclean¹; ¹University of Washington, Seattle, WA; ²Duke University School of Medicine, Durham, NC; ³Pacific Northwest National Laboratory, Richland, WA
- MP 415 New approach for Metabolomics Pathway Analysis;

 Takehiro Oshida¹; Teppei Ogawa¹; Yasuto Yokoi¹; Yukihiro
 Fukamachi¹; Michihiro Araki²; Hiroki Makiguchi¹; ¹Mitsui
 Knowledge Industry Co., Ltd., Minato-Ku, Japan; ²Kobe
 University, hyogo, Japan
- MP 416 Disparate Metabolomics Data Reassembler: A Novel Algorithm for Agglomerating Incongruent LC-MS Metabolomics Datasets; Tytus Mak; Stephen Stein; NIST, Gaithersburg, MD
- MP 417
- MP 418 A Novel Method for Theoretically Determining the Success Rate of Identification by MS¹ Using a Human Metabolome Database; Scott Walmsley; Nichole Reisdorph; National Jewish Health, Denver, CO

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- MP 419 Masses and Expected Compounds: Automatic
 Creation of Context-Specific Databases and Tripartite
 Identification of Substances using SpiderMass; Robert
 Winkler; CINVESTAV Unidad Irapuato, Irapuato, Mexico
- MP 420 Stochastic Modeling of Proteome Turnover from Stable Isotope Labeling and LC-MS; Ling Li²; Belinda Willard²; Tahir Kasumov²; Rovshan Sadygov¹; ¹University of Texas, Galveston, TX; ²Cleveland Clinic, Cleveland, OH
- MP 421 A Logical Bayesian Framework to Dynamically
 Compose a Modular Inductive Model of a Proteomics
 Experiment; <u>Kurt De Grave</u>; Jan Ramon; *KU Leuven, Leuven, Belgium*
- MP 422 Assigning Confidence to Peptide Spectrum Matches Based on Permutation Analysis; Brian Mitchell; Anoop Mayampurath; Stephen Kron; Samuel Volchenboum; University of Chicago, Chicago, IL
- MP 423 Ranking Chemical Formulas by Isotopic Pattern
 Recognition; Stephen E. Reichenbach¹; Mehrdad Zaker
 Shahrak¹; Qingping Tao²; ¹University of Nebraska Lincoln,
 Lincoln, NE: ²GC Image, LLC, Lincoln, NE
- MP 424 Towards the Development of a Factor Analysis Based Alignment Algorithm for Raw GC-TOFMS Data; Peter Willis; Elizabeth Humston-Fulmer; Jihong Wang; Sandy Liu; LECO Corp., St. Joseph, MI
- MP 425 Mathematical Qualimetry for Mass Spectrometry:
 Optimization and Harmonization of Sample Preparation,
 Data Processing and Data Mining; Alexander
 Bolkhovitinov; IMS, New York, NY

- MP 426 Analysis of Unexplained Peaks and Corresponding Relationship Patterns in MS/MS Spectra; Aida Mrzic¹; Wout Bittremieux¹; Trung Nghia Vu³; Dirk Valkenborg²; Kris Laukens¹; ¹University of Antwerp, Antwerpen, Belgium; ²VITO Mol, Antwerpen, Belgium; ³Karolinska Institutet, Stockholm. Sweden
- MP 427 Advancing Computer-Assisted Structure Elucidation Methods: A Large-Scale Fragment Assignment Project using Heuristic and Molecular Modeling Methods; Michal Raab; Juraj Lutisan; Robert Mistrik; HighChem, Bratislava, Slovakia
- MP 428 A Method for Automated Data Extraction and Peak Identification from Large GC-MS Data Sets Using Multivariate Analysis; Joshua Coon; Mark Van Benthem; James Hochrein; Curtis Mowry; Sandia National Laboratories, Albuquerque, NM
- MP 429 Targeted and Untargeted Feature Extraction for GC/MS Spectral Data Profiling; Norton Kitagawa; Anthony Gray; Jennifer Gushue; Stephen Madden; Yinghang Yang; Agilent Technologies, Inc., Santa Clara, CA
- MP 430 A Probabilistic Iterative Algorithm for Unrestrictive Protein Modification Localization; Zhiwu An¹; Yan Fu¹; Wantao Ying²; Xiaohong Qian²; Fuzhou Gong¹; ¹Academy of Mathematics and Systems Science, CAS, Beijing, China; ¹Beijing Proteome Research Center, Beijing, China
- MP 431 An Algorithm for Generating a Representative Protein Sequence Database to Facilitate Proteomic Analysis of Unsequenced Organisms; Marlon Dias Mariano

 Dos Santos¹; Juliana de Saldanha da Gama Fischer¹;
 Felipe da Veiga Leprvost¹; Valmir C. Barbosa²; Paulo Costa Carvalho¹; ¹Laboratory for Proteomics and Protein Engineering, Curitiba, Brazil; ²Systems Engineering and Computer Science Program, Rio de Janeiro, Brazil
- MP 432 Computational Platform for the Comprehensive
 Analysis of Clinical Proteomic Data; Stefka Tyanova¹;
 Tikira Temu¹; Arthur Carlson¹; Pavel Sinitcyn¹; Sally Deeb¹;
 Tamar Geiger²; Matthias Mann¹; Juergen Cox¹; ¹Max Planck
 Institute of Biochemistry, Martinsried, Germany; ²Sackler
 Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel
- MP 433 Concordance of Peptide Assignments between Different Search Engines; Fatemeh Ghavidel³; Wout Bittremieux²; Kris Laukens²; Tomasz Burzykowski³; Dirk Valkenborg¹; ¹VITO, Mol, Belgium; ²University of Antwerp, Antwerp, Belgium; ³Hasselt University, Hasselt, Belgium
- MP 434 Processing of 3D Imaging Hyperspectral Datasets for Explorative Analysis of Tumour Heterogeneity; <u>James Mckenzie</u>; Nicole Strittmatter; Anna Mróz; Zoltan Takats; Kirill Veselkov; <u>Imperial College</u>, <u>London</u>, <u>UK</u>
- MP 435 Identifying Targeted Compounds in Un-Supervised Ion Clusters Using Advance Proteome Modeling;

 Keith Fadgen; Steve Ciavarini; Scott Geromanos; Waters Corporation. Milford. MA
- MP 436 The Problem of Polydispersity: Tackling Complex
 Spectra with a Bayesian Approach; Michael Marty; Carol
 Robinson: University of Oxford, Oxford, Oxfordshire
- MP 437 Signature of Life in terrestrial mass distribution of C, H, N and O; Roman Zubarev²; Alexander Zubarev¹; ¹EXNA AB, Stockholm, Sweden; ²Karolinska Institute, Stockholm, Sweden
- MP 438 Proteoform Characterization by top-Down Tandem Mass Spectra; Qiang Kou¹; Binhai Zhu²; Xiaowen Liu¹.³; ¹Indiana University Purdue University Indianapolis, Indianapolis, IN; ²Montana State University, Bozeman, MT; ³Indiana University School of Medicine, Indianapolis, IN
- MP 439 **Novor: Real-Time Peptide de Novo Sequencing**; Bin Ma; *University of Waterloo, Waterloo, Canada*



- MP 440 Nonconvex Quasi-Norm-Based Normalization of MALDI MSI Data; <u>Luis Mancera</u>¹; Philippa Hart¹; Fiona Henderson²; Hervé Boutin²; Adam McMahon²; Omar Belgacem¹;

 *Shimadzu, Kratos, Manchester, UK; *Wolfson Molecular Imaging Centre, Manchester, UK
- MP 441 De novo Identification of Small Molecules Using an Excel Add In; Daniel L. Sweeney; MathSpec, Inc., Arlington Heights. IL
- MP 442 Bioinformatics for Mass Spectrometry Imaging in Augmented Systems Histology; Kirill Veselkov; James McKenzie; Ottmar Golf; Nicole Strittmatter; Reza Mirnezami; James Kinross; Ara Darzi; Elaine Holmes; Jeremy Nicholson; Zoltan Takats; Imperial College, London, London
- MP 443 Validating and Comparing Component Detection
 Algorithms for LC-MS data; Jane Razumovskaya; Joseph
 Brown; David Wright; <u>Richard Baran</u>; Iman Mohtashemi;
 Thermo Fisher Scientific, San Jose, CA

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- MP 444 Combined Rat Serum Lipidomics and Brain Multimodal MS Imaging for the Detection of Mild Traumatic Brain Injury; Scott Hogan; Rachel Bennett; Christina Jones; David Gaul; Melissa Alvarado-Valez; Michlle LaPlaca; Facundo Fernandez; Georgia Institute of Technology, Atlanta, GA
- MP 445 A Mass Spectrometry Proteomics Based Approach for Differentiating Thoracic Tumor Subtypes; Linan Wang^{1,2}; Konstantin Shilo^{1,3}; Charles Hitchcock^{1,3}; Michael A. Freitas^{1,2}; ¹Ohio State University, Columbus, OH; ²Department of Molecular Virology, Immunology and M, Columbus, OH; ³Department of Pathology, Columbus, OH
- MP 446 Detection of FGF15 in Plasma by Stable Isotope Standard Capture with Anti-PeptideAntibodies and Targeted Mass Spectrometry; Hamid Mirzaei¹; David Mangelsdorf¹; Steven Kliewer¹; Andrew Lemoff¹; Takeshi Katafuchi¹; Daria Esterhazy²; Xunshan Ding³; ¹University of Texas Southwestern, Dallas, TX; ²Rockefeller University, New York, NY; ³NGM Biopharmaceuticals, Inc., San Francisco. CA
- MP 447 Receiver Operating Characteristic Analysis of Identified and Un-Identified Peptides using Label-Free Quantification in MaxQuant; Jana M. Rocker; Lindsay Schambeau; Lewis K. Pannell; Mitchell Cancer Institute, Mobile. AL
- MP 448 Application of TMTcalibrator+ for Detection of Markers of Microglia Activation in CSF of Alzheimer's Disease Patients; Claire Russell¹; Vikram Mitra¹; Amanda Heslegrave²; Jennifer Pocock²; Henrik Zetterberg³; Ian Pike¹; Malcolm Ward¹; ¹Proteome Sciences plc, London, UK; ²Institute of Neurology, University College London, London, UK; ³University of Gothenburg, Gothenburg, Sweden
- MP 449 N- and O-glycomics from Formalin-Fixed Paraffin-Embedded (FFPE) Clinical Specimens using Porous Graphitized Carbon LC-ESI IT-MS/MS; Hannes Hinneburg^{1, 2}; Petra Korac³; Slavko Gasparov^{4, 5}; Peter H. Seeberger^{1, 2}; Vlatka Zoldoš³; <u>Daniel Kolarich</u>¹; 'MPI of Colloids and Interfaces, Potsdam, Germany; ²Free University Berlin, Berlin, Germany; ³Dept. of Biology, University of Zagreb, Zagreb, Croatia; ⁴Inst. for Path. and Cytology, Uni Hospital Merkur, Zagreb, Croatia; ⁵Department of Pathology, Medical School Zagreb, Zagreb, Croatia
- MP 450 High Resolution Shotgun Proteomic Analysis for Biomarker Discovery of Occupational and Environmental Nanoparticles Exposure; Neserin Ali¹; Stefan Ljunggren²; Helen M Karlsson²; Jörn Nielsen¹;

- Anders Gudmundsson¹; Christian H Lindh¹; Bo AG Jönsson¹; Monica Kåredal¹; ¹Lund University, Lund, Sweden; ²Linköping University, Linköping, Sweden
- MP 451 The Differentiation of Orexin Receptor Antagonists and GABA Agonists on Brain Acetycholine and Histamine Using In Vivo Microdialysis and LC/MS; Lihang Yao; Andres Ramirez; Anthony Gotter; Anthony Roecker; Steven Fox; Jason Uslaner; Paul Coleman; Christopher Winrow; Sean Smith; John Renger; Merck, Co; Inc. West Point, PA
- MP 452 Characterization and Quantitative Comparison of the Adult and Pediatric Urinary Glycomes by LC-MS To Develop a Baseline Standard; Patricia Cho; Hui Zhou; Stephen Kostel; John Froehlich; Richard Lee; Boston Children's Hospital, Harvard Medical School, Boston, MA
- MP 453 Genome-Scale Proteomic Profiling Identifies Breast Cancer Progression Markers; Yair Pozniak¹; Iris Barshack²; Tamar Geiger¹; ¹Tel Aviv University, Tel Aviv, Israel; ²Sheba Medical Center, Ramat Gan, IL
- MP 454 Identification of a Protein Substrate Specific for Histone Deacetylase 11 (HDAC11); Uwe Warnken¹; Marie Catherine Schier¹; Ramona Mayer¹; Hedwig Deubzer²; Olaf Witt³; Martina Schnölzer¹; ¹German Cancer Research Center, Heidelberg, Germany; ²Charité, Dept. of Pediatric Oncology, Berlin, Germany; ³University Hospital, Dept. of Pediatric Oncology, Heidelberg, Germany
- MP 455 Development of PEP Technology for Biomarker Discoveries and Functional Proteomics Studies;

 Xing Wang; Michael Davies; Array Bridge Inc., St. Louis, Missouri
- MP 456 Proteomic Imaging for Brain and Spinal Cord from Experimental Allergic Encephalomyelitis (EAE) Mouse Model; Takashi Nirasawa¹; Noriyuki Iwasaki¹; Takayuki Kondo²; Akimitsu Miyake³; <u>Hiroki Yamashita</u>³; Masaya Ikegawa³; ¹Bruker Daltonics K.K., Yokohama, Japan; ²Kyoto University, Kyoto, Japan; ³Doshisha University, Kyoto, Japan
- MP 457 Identification of Biomarkers of Dermal Exposure to Toluene Diisocyanate; Justin M. Hettick; Ajay P. Nayak; Paul D. Siegel: NIOSH. Morgantown, WV
- MP 458 GC-MS Based Metabolomic Analysis of Plasma for Biomarker Discovery; Cristina Di Poto; Alessia Ferrarini; Yue Luo; Mohammad R. Nezami Ranjbar; Rency Varghese; Chi Zhang; Habtom Ressom; Georgetown University, Lombardi Cancer Center, Washington, DC
- MP 459 Application of TMTcalibrator+ and Phosphopeptide Enrichment for Global Phosphoproteomic Analysis of CSF from Alzheimer's Disease Patients; Claire Russell; Vikram Mitra; Ian Pike; Malcolm Ward; Proteome Sciences plc, London, UK
- MP 460 The Use of Exhaled Breath for the Identification of Hypoxia Biomarkers; Sean Harshman¹; Brian Geier¹; Maomian Fan¹; Sage Rinehardt¹; Brandy Watts¹; Leslie Drummond²; George Preti³; Jeffrey Phillips²; Darrin Ott¹; Claude Grigsby¹; ¹Air Force Research Laboratory, WPAFB, OH; ²Naval Medical Research Unit-Dayton, WPAFB, OH; ³Monell Chemical Senses Center, Philadelphia, PA
- MP 461 **IgG Glycosylation as a Biomarker for Pancreatic Diseases**; Hsi-Chang Shih^{1,3}; Ming-Chu Chang²; Chein-Hung Chen³; Ya-Po Kuo³; Chung-Hsuan Chen^{1,3}; Yu-Ting Chang²; ¹Dept. of Chemistry, National Taiwan University, Taipei, Taiwan; ²Dept. of Internal Medicine, NTU Hospital, Taipei, Taiwan; ³The Genomics Research Center, Academia Sinica, Taipei, Taiwan
- MP 462 A Sensitive and Versatile Analytical Method for Quantification of Cyclic Nucleotide Monophosphates (cNMPs) in Biological Systems: Application to Novel Biomarkers; Xin Jia; Emily Weinert; Emory University, Decatur, Georgia



- MP 463 Detection and Confirmation of Novel Serum Lipid Biomarkers Predicting Preeclampsia using a Shotgun Lipidomics Approach; Swati Anand¹; Sydney Young¹; Sean Esplin²; Bruce Jackson¹; Dennis H. Tolley¹; Steven W. Graves¹; ¹BYU, Provo, UT; ²University of Utah School of Medicine. Salt Lake City, UT
- MP 464 Cross-Site Identification of Ovarian Cancer Proteomic Biomarkers from Cervicovaginal Fluid; Lindsay Schambeau¹; Brian Hood²; Thomas Conrads²; Michael Finan¹; Rodney Rocconi¹; Laurie Owen¹; Michael Chambers³; Jana Rocker¹; Lewis Pannell¹; ¹Mitchell Cancer Institute, Mobile, AL; ²Women's Health Integrated Research Center, Annandale, VA; ³Swift Biotechnology LLC, Mobile, AI
- MP 465 Radiation Exposure Induces Alterations Typical of Oxidative Stress Modifications Underlying Cardiovascular Disease; Mark E. Mccomb¹; Markus M. Bachschmid¹; Chunxiang Yao¹; Maggie Kuo²; Stephen Whelan¹; Jean Spencer¹; Christian Heckendorf¹; Catherine E. Costello¹; Dan Berkowitz²; ¹Boston University School of Medicine, Boston, MA; ²Johns Hopkins University, Baltimore, MD
- MP 466 The Investigation of Extraction Efficiency of Proteins from Brain Tissues Related to Alzheimer's Disease;
 Siddhita Aparaj-Shirsat; Rachel Marvin; Kenneth Hensley;
 Dragan Isailovic: University of Toledo, Toledo, OH

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- MP 467 SI-Traceable Quantification of 1-32 Brain Natriuretic Peptide in Plasma at Clinically Relevant Concentration Levels; Frank Attila Torma^{1, 2}; Kate Groves¹; Sabine Biesenbruch¹; Christopher Mussell¹; Rainer Cramer²; Milena Quaglia¹; ¹LGC LTD, Teddington, UK; ²University of Reading, Reading, UK
- MP 468 Multiplexed Protein Quantification of Salivary Proteins by MRM-MS for Evaluation of Cancer Biomarkers;
 Yi-Ting Chen¹; Hsiao-Wei Chen¹; Wei-Fan Chiang²; Jau-Song Yu¹; Yu-Sun Chang¹; Chun-Feng Wu¹; ¹Chang Gung University, Taoyuan, Taiwan; ²Chi-Mei Medical Center, Liouying, Taiwan
- MP 469 Detection and Quantification of Relevant Proteins in GBM FFPE Tumor Tissue Using Selective Reaction Monitoring Mass Spectrometry; Xiaolin Li¹; Jill Barnholtz-Sloan¹.²; Daniela M Schlatzer¹; Mark Chance¹; ¹Case Western Reserve University, Cleveland, OH; ²Comprehensive Cancer Center University Hospitals, Cleveland, OH
- MP 470 Development of the Workflow for targeted Proteomic Quantification of Osteopontin in Healthy and Cancerous Human Breast Tissues; Katarzyna Macur¹; Lars Hagen²; Tomasz Ciesielski²; ¹Intercollegiate Faculty of Biotechnology UG-MUG, Gdansk, Poland; ²Norwegian University of Science and Technology, Trondheim, Norway
- MP 471 First Quantification of Human CSF Tau Protein without Immunocapture using Triple Quadrupole Mass Spectrometer; Christophe Hirtz¹; Pauline Bros¹; Nicolas Barthelemy¹; Vincent Delatour³; Jérome Vialaret¹; Audrey Gabelle²; Sylvain Lehmann¹; ¹LBPC-IRB, CHU de Montpellier, Montpellier, france; ²Centre Mémoire Ressources Recherche, Montpellier, France; ³Laboratoire National de Métrologie et d'Essais, Paris, France
- MP 472 Core-fucosylated Glycopeptides in Hepatocellular Carcinoma; Haidi Yin¹; Zhijing Tan¹; Jing Wu¹; Jianhui Zhu¹; Jorge Marrero²; David Lubman¹; ¹University of Michigan, Ann Arbor, MI; ²University of Texas, Dallas, TX
- MP 473 PTM Profiling of Cancer Cells by Sequential Enrichment for Methylation, Acetylation and Phosphorylation to Monitor Cellular Signaling Upon Adenosine-2',3'-Dialdehyde Treatment; Ghaith Hamza²; Charles

- Farnsworth¹; Hongbo Gu¹; Xiaoying Jia¹; Jeffrey Silva¹; ¹Cell Signaling Technology, Danvers, MA; ²Endicott College, Beverly, MA
- MP 474 Target Analysis of Prostate-Specific Antigen Glycopeptide Abundance in Prostate Cancer and Benign Hyperplasia from Urinary Samples; Chun-Jen Hsiao¹.²; Tzong-Shin Tzai³; Chein-Hung Chen¹; Wen-Horng Yang³; Chung-Hsuan Chen¹; ¹Academia Sinica, Taipei, Taiwan; ²National Yang-Ming University, Taipei, Taiwan; ³National Chen Kung University Hospital, Tainan, Taiwan
- MP 475 Quantification of Human IL-6 in Serum with an Automated Online Sample Preparation System Coupled with LC-MS; Li Li¹; Nishi Rochelle²; Hiralben Patel¹; Kevin Schug¹; Joe Barrera¹; ¹University of Texas at Arlington, Arlington, TX; ²Shimadzu Scientific Instruments, Inc, Addison, IL
- MP 476 Protein-based Biomarker Predicts Conversion from Clinically Isolated Syndrome to Multiple Sclerosis;

 Eva Borràs¹,²; Ester Cantó³; Meena Choi⁴; Luisa María Villar⁵; Jose Carlos Álvarez-Cermeño⁵; Cristina Chiva²; Xavier Montalbán³; Olga Vitek⁴; Manuel Comabella³; Eduard Sabidó¹,²; ¹Proteomics Unit (CRG), Barcelona, Spain; ²University Pompeu Fabra (UPF), Barcelona, Spain; ³Cemcat. Institut de Recerca Vall Hebrón, Barcelona, Spain; ⁴Department of Statistics, Purdue University, West Lafayette, IN; ⁵Hospital Ramón y Cajal, Madrid, Spain
- MP 477 Validation of LRG1 as a Potential Biomarker for Detection of Epithelial Ovarian Cancer by a Blinded Study; Jing Wu; Haidi Yin; Jianhui Zhu; Ronald Buckanovich; David Lubman; University of Michigan, Ann Arbor, MI
- MP 478 Human Cerebrospinal Fluid and Surrogate Matrix-Based Quantification of Alzheimer's Biomarker Amyloid Beta Protein by Liquid Chromatography-Tandem Mass Spectrometry; Mei Chen¹; Weiming Xia²; ¹Harvard School of Public Health, Boston, MA; ²ENR Memorial VA Hospital, Bedford, MA
- MP 479 Comparative Two Dimensional Polyacrylamide Gel Electrophoresis (2D-PAGE) of the Salivary Proteome of Children with Autism Spectrum Disorder (ASD);

 Armand Ngounou¹; Kelly L. Wormwood¹; Laci Charette²;

 Jeanne P. Ryan³; Alisa G. Woods¹; Costel C. Darie¹;

 ¹Clarkson University, Potsdam, NY; ²SUNY Plattsburgh Neuropsychology Clinic, Plattsburgh, NY; ³Department of Psychology, SUNY Plattsburgh, Plattsburgh, NY
- MP 480 LC-MS/MS Quantification of Factor P (Properdin), an Endogenous Protein, in Monkey Serum; Xinliu Gao; Hui Lin; Wenkui Li; Jimmy Flarakos; Francis Tse; Novartis Institutes for Biomedical Research, East Hanover, NJ
- MP 481 Quantitation of N-terminal Formaldehyde Adducts to Hemoglobin using UPLC-MS/MS; Min Yang¹; Chui Tse²; Maria Ospina²; Hubert Vesper²; ¹Battelle Memorial Institute, Atlanta, GA; ²Centers for Disease Control and Prevention, Atlanta, GA
- MP 482 Quantitation of Calcyclin and Heat Shock Protein 90 in Serum from Preeclampsia Patients by 2D Nano LC-MSMS; Coşkun Güzel¹; Caroline B. van den Berg¹; Régine P.M. Steegers-Theunissen¹; Lennard Dekker¹; Johannes P.C. Vissers²; Eric A.M. Steegers¹; Theo M. Luider¹;

 IErasmus Medical Center, Rotterdam, Netherlands; **2Waters Corporation, Manchester, UK
- MP 483 Measuring Acute Traumatic Brain Injury Biomarkers by Targeted Mass Spectrometry; Sean Shen1; Ina-Beate Wanner2; Joseph A. Loo1; 1Chemistry & Biochemistry, University of California, Los Angeles, CA; 2Semel Institute for Neuroscience & Human Behavior, University of California, Los Angeles, CA



- MP 484 Detection and Relative Quantitation of Potential Salivary Antimicrobial Biomarkers (HNP 1-4) by LC-ESI-MS in Young Athletes; N. Ashrafi; F.S. Pullen; B.V. Nielsen; University of Greenwich, Chatham Maritime, UK
- MP 485 Western Diet Alters O-GlcNAcylation and Phosphorylation in Mouse Heart Metabolic Disorder; Stephen A. Whelan¹; Jean Spencer¹; Christian Heckendorf¹¹; Junfeng Ma²; Chunxiang Yao¹; Jessica Behring¹; Deborah Siwick¹; Wilson Colucci¹; Richard Cohen¹; Markus Bachschmid¹; Gerald W. Hart²; Catherine E. Costello¹; Mark E. Mccomb¹; ¹Boston University School of Medicine, Boston, MA; ²Johns Hopkins University School of Medicine, Baltimore, MD
- MP 486 Application of nanoLC-MS/MS to Measure Glycated N-terminal Beta Hemoglobin in Bottlenose Dolphins;

 Michael Janech¹; Alison Bland¹; Stephanie Venn-Watson²;

 ¹Medical University of South Carolina, Charleston, SC; ²The National Marine Mammal Foundation, San Diego, CA
- MP 487 Evaluation of Candidate Biomarkers for FGF-associated Breast Cancer by Selected Reaction Monitoring Mass Spectrometry; Hongyan Zhao; Andrew Creese; Debbie Cunningham; John Heath; Helen Cooper; School of Biosciences, University of Birmingham, Birmingham, UK
- MP 488 Quantitation of Bradykinin and Bradykinin 1-5 in Human Plasma Using a 2D-LC-MS/MS Assay with a Surrogate Analyte Approach; Moucun Yuan¹; Hongmei Cao²; Eric Ma¹; William R. Mylott¹; Bruce Hidy¹; Rand Jenkins¹; Jiang Wu²; Ann Gooding²; Yongchang Qiu²; ¹PPD, Richmond, VA; ²Shire, Lexington, MA

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- MP 489 Investigation of Polyphenols in White and Coloured Flower Petals of Faba Bean Plants; Yurdagul Ferhatoglu; Mahla Mirali; Randy W. Purves; Kirstin E. Bett; Albert Vandenberg; University of Saskatchewan, Saskatoon, Canada
- MP 490 Identification of Cold-induced MAP Kinase Substrates in *Arabidopsis Thaliana* through Protein Kinase Assay Linked-Phosphoproteomics; Chuan-Chih Hsu¹; Chunzhao Zhao²; Pengcheng Wang²; Jian-Kang Zhu²; Weiguo Andy Tao¹; ¹Department of Biochemistry, Purdue University, West Lafayette, IN; ²Department of Horticulture, Purdue University, West Lafayette, IN
- MP 491 Label-free Quantitative Analysis by WiSIM-DIA with an Orbitrap Fusion to Identify Proteins Involved in the Cuticle Formation of Tomato Fruit; Laetitia Martin¹; Joshua Nicklay²; Tara Schroeder²; Tahmid Hassan²; Elizabeth Anderson³; Jocelyn Rose¹; Sheng Zhang³; ¹School of Integrative Plant Science, Cornell Univ, Ithaca, NY; ²Thermo Fisher Scientific, Somerset, NJ; ³Proteomics & Mass Spec Facility, Cornell Univ, Ithaca, NY
- MP 492 Acetylome Analysis Reveals Lysine Acetylation is in Regulation of Photosynthesis and Carbon Metabolism in Cyanobacterium Synechocystis; Ran Mo²; Mingkun Yang²; Zhongyi Cheng¹; Xingling Yi¹; Feng Ge²; **1PTM Biolabs, Inc, Hangzhou, China; **2Chinese Academy of Sciences, Wuhan, CN
- MP 493 The Application of Capillary Electrospray Ionization with Negative Ion Electrospray Ionization to the Analysis of Plant Metabolites; Stephen J. Lock¹; Edna Betgovargez²; ¹ABSCIEX, Warrington, UK; ²Sciex Separations, Brea, CA
- MP 494 Determination of *in situ* Plant Root Metabolomes by Ambient Ionization Mass Spectrometry; Rabi A. Musah¹; Robert B. Cody²; Ashton D. Lesiak¹; Max J. Maron¹; David Edwards²; A. John Dane²; Michael C. Long¹; *¹University at Albany-SUNY, Albany, NY; ²JEOL USA, Inc., Peabody, MA*

- MP 495 Elucidation of Cellulosic Transcription Factors in Stem Differentiating Xylem Tissue of Populus trichocarpa;
 Philip Loziuk; Jennifer Parker; Wei Li; Chien-Yuan Lin; Jack Wang; Quanzi Li; Ronald Sederoff; Vincent Chiang; David Muddiman; North Carolina State University, Raleigh, NC
- MP 496 Pathogen-triggered Protein-Protein Interactions
 Mediating Nonclassical Secretion of Mannitol
 Dehydrogenase in Plants; Tricia Ho; Kevin Blackburn;
 John Williamson; Michael Goshe; North Carolina State
 University, Raleigh, NC
- MP 497 Analysis of Gape Xylem Tissue and Sap Proteome;
 Ramesh Katam; Varshini Sridhar; Sydney Lyda; Department
 of Biological Sciences, Florida A&M Univ, Tallahassee, FL
- MP 498

 13C-amino Acid Labeling Investigation of Acylsugar
 Related Aliphatic Acid Elongation via UHPLC-QTOFMS/MS Analysis; Xiaoxiao Liu¹; Banibrata Ghosh²; A.
 Daniel Jones¹.²; ¹Department of Chemistry, Michigan State
 University, East Lansing, MI; ²Department of Biochemistry
 and Molecular Biology, Michigan State University, East
 Lansing, MI
- MP 499 Response of Chlamydomonas reinhardtii Proteome to Wastewater Culturing: A Comparative Label-Free Proteomic Analysis; Anil K. Patel; Mark G. Lefsrud; McGill University, Ste. Anne De Bellevue, Canada
- MP 500 Identification and Classification of Salvia Species using Ambient Ionization Mass Spectrometry; Justine E. Giffen²; Ashton D. Lesiak²; Robert B. Cody¹; Rabi Musah²;

 1JEOL USA, Inc., Peabody, MA; 2University at Albany-SUNY. Albany. NY
- MP 501 Mapping Phenolic Glycosides in *Populus deltoides* and *Populus grandidentata* by Leaf Spray Mass Spectrometry; <u>Dalton Snyder</u>; Christina Schilling; Cris Hochwender; Arlen Kaufman; *University of Evansville, Evansville, IN*
- MP 502 Comparative Proteomic Analysis of Two Rice Genotypes with Contrasting Drought Tolerance; Mehdi Mirzaei¹; Yunqi Wu¹; Dana Pascovici²; Joel Chick³; Brian Atwell¹; Paul Haynes¹; ¹Macquarie University, Sydney, Australia; ²Australian Proteome Analysis Facility, Sydney, Australia; ³Harvard Medical School, Boston, MA

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- MP 503 **Differential Proteomics of** *Pteropus* **Wing Bones**; Timothy Cleland; Deepak Vashishth; *Rensselaer Polytechnic Inst, Troy, NY*
- MP 504 Matching Therapies by Comparison of Kinase ATP Uptake in Lung Tumors and Drug Responses in Lung Cancer Cell Lines; Bin Fang; Melissa Hoffman; Jiannong Li; Y. Ann Chen; Fumi Kinose; Katherine Fellows; Steven A. Eschrich; Uwe Rix; Eric B. Haura; John Koomen; H. Lee Moffitt Cancer Center, Tampa, FL
- MP 505 Comparison of ATP Affinity Probe-based Kinome Enrichment at the Protein and Peptide Levels; Yue Qi¹; Abdullah Mallisho²; Danjun Ma¹; Xiangmin Zhang¹; Michael Caruso¹; Divyasri Damacharla¹; Nishit Shah¹; Majed Abdullah Alharbi¹; Berhane Seyoum²; Zhengping Yi¹; ¹Wayne State University, Detroit, MI; ²University Health Center, Detroit, MI
- MP 506 Spatial and Temporal MSI and Proteomic Studies of Rat Spinal Cord Injury: Evidence of Caudal Segment for Possible Therapy Target; Stéphanie Devaux^{1, 2}; Dasa Cizkova^{1, 2}; Maxence Wisztorski¹; Lucia Slovinska²; Juraj Blasko²; Isabelle Fournier¹; Michel Salzet¹; *INSERM U1192 University of Lille 1, Villeneuve D'ascq Cedex, France; *Slovak Academy of Sciences, Kosice, Slovakia
- MP 507 Cell-type Specific Proteomics from Formalin-Fixed Paraffin Embedded (FFPE) Tissue: A Challenge?; Shruti Nayak; Eleanor Drummond; Thomas Wisniewski; Beatrix Ueberheide; NYULMC, New York, NY



- MP 508 Proteomic and Bioinformatics Profile of Paired Human Alveolar Macrophages and Peripheral Blood Monocytes; Kathleen C Lundberg; Sara Tomechko; Jessica Walrath; Mark Chance; Richard Silver; Case Western Reserve University, Cleveland, OH
- MP 509 Developing and Assessing Polyacrylamide Hydrogel Technologies for Improved Protein Extraction from Targeted Regions of Biological Tissues; David G.

 Rizzo^{1,3}; Jessica L. Moore^{1,3}; Boone M. Prentice^{2,3}; Jeremy L. Norris^{2,3}; Richard M. Caprioli^{1,3}; ¹Vanderbilt Dept. of Chemistry, Nashville, TN; ²Vanderbilt Dept. of Biochemistry, Nashville, TN; ³Vanderbilt University MSRC. Nashville, TN
- MP 510 Proteomic and Glycomic Analysis of the Mediodorsal Nucleus of Subjects with Schizophrenia; Lilla Turiak¹; Harry Pantazopoulos².³; Nancy Leymarie¹; Sabina Berretta².³; Oliver D. King⁴; Joseph Zaia¹; ¹Boston University, Boston, MA; ²Translational Neuroscience Laboratory, Mclean Hosp, Belmont, MA; ³Department of Psychiatry, Harvard Medical School, Boston, MA; ⁴Department of Cell and Developmental Biology UMass, Worcester, MA
- MP 511 Global Protein Profiling of Visceral Fat and Subcutaneous Fat from Obese Non-Diabetic and Obese T2D Subjects; Danjun Ma; Alemu Fite; Xiangmin Zhang; Yue Qi; Michael Howard Wood; Rebecca Tagett; Sorin Draghici; Berhane Seyoum; Zhengping Yi; Wayne State University. Detroit, MI
- MP 512 Evaluation of Sample Preparation Methods for Label-Free Quantitative Proteomics of Human Brain Tissue; Kristin J. Boggio¹; Marvin R. Natowicz²; John D. Leszyk¹; Scott A. Shaffer¹; ¹University of Massachusetts Medical School, Worcester, MA; ²Pathology & Laboratory Medicine, Cleveland Clinic, Cleveland, OH
- MP 513 Genotype-Tissue-Protein: Quantitative Proteomic Analysis of Human Tissue Proteome; <u>Lulu Cao</u>; Michael Snyder; Stanford University, Stanford, CA
- MP 514 MALDI Imaging-driven Microproteomics Workflow to Study Intra-Tumor Heterogeneity; Deborah Alberts¹; Charles Pottier²; Nicolas Smargiasso¹; Gabriel Mazzucchelli¹; Dominique Baiwir³; Philippe Delvenne²; Edwin De Pauw¹; Rémi Longuespée¹; ¹Mass Spectrometry Laboratory, University Of Liège, Liège, Belgium; ²Department of pathology, University of Liège, Liège, Belgium; ³GIGA Proteomics Facility, University of Liège, Liège, Belgium
- MP 515 SWATH-MS Profiling of FFPE Tissue Sections; Sean McMillan; Kristin Reinsvold; <u>Jayme Wiederin</u>; Melinda Wojtkiewicz; Weizhe Li; Howard E. Gendelman; Larisa Poluektova; Pawel Ciborowski; *University of Nebraska* Medical Center, Omaha, NE

PROTEOMICS: QUANTITATIVE – LABEL FREE QUANTIFICATION 516 - 542

- MP 516 Quantitative Analysis of Membrane-Enriched and Soluble Proteome of Cortex from Mice Exposed to Psychotropic Medication; Cátia Santa^{1, 2}; Susana C. Saraiva^{1, 3}; Sandra Anjo^{1, 4}; Vera M. Mendes^{1, 5}; Graça Baltazar⁶; Michael J. Dunn⁷; David Cotter⁶; Bruno Manadas^{1, 5}; ¹Center for Neurosciences and Cell Biology, Coimbra, Portugal; ²Institute for Interdisciplinary Research, Coimbra, Portugal; ³Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal; ⁴Faculty of Sciences and Technology, Coimbra, Portugal; ⁵Biocant Biotechnology Innovation Center, Cantanhede, Portugal; ⁶CICS-UBI Health Sciences Research Center, Covilhã, Portugal; ⁷Proteome Research Centre, University College, Dublin, Ireland; ⁸Department Psychiatry, Royal College of Surgeons, Dublin, Ireland
- MP 517 Proteomic Analysis of Superior Frontal Gyrus from Brains of Humans with Mild Cognitive Impairment and Alzheimer's Disease; Dale Chaput; Lisa Kirouac; Jaya Padmanabhan; Stanley M. Stevens, Jr; University of South Florida, Tampa, Florida

- MP 518 How Many Proteins can be Measured and Quantified from 1000 and 5000 Cells?; Beom-Jun Kim; Sung Yun Jung; Jong Min Choi; Jun Qin; Baylor College of Medicine, Houston, Texas
- MP 519 Osteoblast-released Matrix Vesicle Activity and Composition are Regulated by Sulfated Glycosaminoglycans; Johannes Schmidt^{1, 2}; Stefanie Kliemt^{1, 3}; Carolin Preissler⁴; Stephanie Möller⁵; Martin von Bergen^{1, 6}; Ute Hempel⁴; Stefan Kalkhof¹; ¹Helmholtz Centre for Environmental Research UFZ, Leipzig, Germany; ²Institute of Biochemistry, Leipzig University, Leipzig, Germany; ³B CUBE Center for Molecular Bioengineering, Dresden, Germany; ⁴Institute of Physiological Chemistry, TU Dresden, Dresden, Germany; ⁵Biomaterials Department, INNOVENT e.V., Jena, Germany; ⁶Department of Biotechnology, Aalborg University, Aalborg, Denmark
- MP 520 Label-free Quantitative Hippocampal Proteomics
 Reveals Pathways Linking Gamma Radiation Damage
 to Pathways Associated with Mitochondrial Function,
 Synaptic Activity and Memory; Lin Huang¹; Samanthi
 Wickramasekara¹; Jacob Raber²; Claudia Maier¹;
 ¹Department of Chemistry, Oregon State University,
 Corvallis, OR; ²Behav Neurosci, Neurol, Radiat Med,
 OHSU. Portland. OR
- MP 521 **Proteomics Analysis of Altered Cellular Metabolism**Induced by Insufficient Copper Level; Sohye Kang;
 Gang Xiao; Da Ren; Zhongqi Zhang; Nicole Le; Michael
 Trentalange; Shivani Gupta; Henry Lin; Pavel Bondarenko;
 Amgen, Inc., Thousand Oaks, CA
- MP 522 Identification of LRRK2 Substrates in a Drosophila Melanogaster Model of Parkinson's Disease; William Edelman; Leo Pallanck; Judit Villen; University of Washington, Seattle, WA
- MP 523 Protein Quantitation False Discovery Rates and Environmental Proteomics; Paul A. Haynes; David Handler; Iniga Seraphina George; Samantha Emery; YunQi Wu; Vineet Vaibhav; Mehdi Mirzaei; Macquarie University, North Ryde, Sydney, Australia
- MP 524 Proteomics-driven Exploration of Hypoxia-responsive Cellular Pathways associated to Metastasis in Osteosarcoma; Zifeng Song¹; Liping Yang¹; Jeffrey Morre¹; Milan Milovancev²; Siva Kolluri³; Claudia Maier¹; ¹Department of Chemistry, Oregon State University, Corvallis, Oregon; ²College of Veterinary, Oregon State University, Corvallis, OR; ³Department of Env. &Mol. Tox, Oregon State University, Corvallis, OR
- MP 525 Peptide Selection for Targeted Proteomics Quantitation: The Wisdom of the Crowds; Cristina Chiva^{1,2}; Eduard Sabidó^{1,2}; ¹Proteomics Unit (CRG), Barcelona, Spain; ²University Pompeu Fabra (UPF), Barcelona, Spain
- MP 526 Protein Profiling (HDMS^{E)} for Monitoring of Chondrocyte Differentiation of Mesenchymal Stem Cells in 3D Pellet Culture in a Multi-Omic Approach; Shujuan Tao; Andrea R. Tan; David Chen; Clark T. Hung; Lewis M. Brown; Columbia University, New York, NY
- MP 527 Use of High Resolution Accurate Mass (HRAM) MS1 to Test RNA Interference Mediated Protein Suppression in Western Corn Rootworm; David Mccaskill¹; Tao Xu¹; Sek Yee Tan¹; Murugesan Rangasamy¹; James Hasler¹; Haichuan Wang²; Ana Maria Velez Arango²; Hong Chen²; Jessica Jurzenski²; Narva Kenneth¹; Blair Siegfried²; ¹Dow AgroSciences, Indianapolis, IN; ²University of Nebraska, Lincoln, NE
- MP 528 Measuring Time-Dependent Effects of Ionizing Radiation on Mammalian Tissue Using Quantitative Proteomics; Dyna I. Shirasaki; William McBride; Joseph Capri; Elizabeth Singer; Julian Whitelegge; Joseph A. Loo; UCLA, Los Angeles, CA



- MP 529 Very Deep Coverage of the Human Proteome using a Very High Resolution Quadrupole Time-Of-Flight Instrument; Scarlet Beck¹; Florian Meier¹; Annette Michalski²; Oliver Räther²; Markus Lubeck²; Stephanie Kaspar²; Igor Paron¹; Jürgen Cox¹; Matthias Mann¹; ¹Max-Planck-Institute of Biochemistry, Martinsried (near Munich), Germany; ¹Bruker Daltonik GmbH, Bremen, Germany
- MP 530 Brain Organelle Proteomics: DDA and SWATH Based Quantifications of Biochemically Isolated Mouse Brain Synapse Sub-Fractions; Nikhil J. Pandya¹; Frank Koopmans²; August B. Smit¹; Ka wan Li¹; ¹Dept. of Molecular Cellular Neurobiology, CNCR, VU, Amsterdam, The Netherlands; ²Dept. of Functional Genomics, CNCR, VU. Amsterdam. The Netherlands
- MP 531 Knockdown and Overexpression of Phosphohistidine Phosphatase 1 Leads to Alterations in the Proteome of a Mouse Hepatocyte Cell Line; <u>Ashley Culver-Cochran</u>; Stanley M. Stevens, Jr; *University of South Florida, Tampa, FL*
- MP 532 MS1-based Label-Free Proteomics using a Quadrupole Orbitrap Mass Spectrometer; Tali Shalit; Dalia Elinger; Alon Savidor; Alexandra Gabashvili; <u>Yishai Levin</u>; Weizmann Institute of Science, Rehovot, Israel
- MP 533 Mapping the DNA Damage Response to the Temporal Occurrence of Histone Modifications; Kevin Leahy; Durham. NH
- MP 534 Comprehensive Relative Quantification of the Cytochromes P450 using SWATH™ Acquisition;
 Rosalind E. Jenkins¹; Sibylle Heidelberger²; Thomas Knapman²; Francesco L. Brancia²; Neil R Kitteringham¹; B. Kevin Park¹; ¹University of Liverpool, Liverpool, UK; ²Sciex, Warrington, UK
- MP 535 In-depth Proteomic Analysis of Sorafenib-induced Resistance in Human Hepatocellular Carcinoma with Subcellular Fractionation; Joon-Ho Park¹; Dohyun Han¹,³; Su Jong Yu²; Jung-Hwan Yoon²; Youngsoo Kim¹,⁴; ¹Department of Biomedical Engineering, SNUH, Seoul, Korea; ²Department of Internal Medicine, SNUH, Seoul, Korea; ³Biomedical Research Institute, SNUH, Seoul, Korea; ⁴Institute of Medical & Bioengineering MRC, SNU, Seoul, Korea
- MP 536 Absolute Protein Quantification of Starved Bacillus subtilis during Adaptation to Oxidative Stress; Sandra Maaß; Sarah Wettstädt; Florian Bonn; Michael Hecker; Dörte Becher; Institute for Microbiology, Ernst Moritz Arndt Univerity Greifswald, Greifswald, Germany
- MP 537 Annotation of the Domestic Pig Genome by Quantitative Proteomics; Harald Marx^{1,2}; Hannes Hahne¹; Susanne Ulbrich³; Angelika Schnieke¹; Oswald Rottmann¹; Dmitrij Frishman¹; Bernhard Kuster¹; ¹TU Muenchen, Freising, Germany; ²University of Wisconsin, Madison, WI; ³ETH Zurich, Zurich, Switzerland
- MP 538 Investigating the Effect of Estrogen on Renal Cell Carcinoma with Different VHL Genetic Backgrounds using Quantitative Proteomics; Wei-Chi Ku¹; Chi-Jung Huang¹.²; Shao-Kuan Chen²; ¹Fu Jen Catholic University, New Taipei, Taiwan; ²Cathay General Hospital, Taipei, Taiwan
- MP 539 IFIX is a Viral DNA Sensor Acting in Defense against Human DNA Viruses; Marni Crow; Tuo Li; Benjamin Diner; Ileana M. Cristea; Princeton University, Princeton, NJ
- MP 540 Drug-inducing Cell Death Mechanics is Rigid: A Proteomics Study; Alexey Chernobrovkin¹; Consuelo Vicente²; Neus Visa²; Roman Zubarev¹; ¹Karolinska Institute, Stockholm, Sweden; ²Stockholm University, Stockholm, Sweden
- MP 541 A Hybrid Virology-Proteomics Approach Defines the Mechanisms of Cellular Immune Response to Viral DNA; Benjamin A. Diner; Tuo Li; Krystal K. Lum; Todd M. Greco; Marni S. Crow; Ileana M. Cristea; Princeton University, Princeton, NJ

MP 542 Global Proteomic Analysis of Ovarian High-Grade Serous Carcinomas using SWATH-MS for Targeted Verification of Proteome Changes Associated with Genomic Alterations; Stefani Thomas; Paul Aiyetan; Li Chen; Zhen Zhang; Daniel Chan; Hui Zhang; Johns Hopkins University, Baltimore, MD

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- MP 543 Proteomics Identifies Distinct Immunoglobulin Light Chain Variable Region Usage in Clinical Subsets of Amyloidosis; Surendra Dasari¹; Jason D Theis¹; Julie Vrana¹; Ahmet Dogan²; Paul Kurtin¹; ¹Mayo Clinic, Rochester, MN; ²Memorial Sloan Kettering Cancer Center, New York, NY
- MP 544 The Structure and Function of the Synaptic Proteome Vary by Sex, Neuropsychiatric Disease Diagnosis, and Brain Region; Stephanie L. Willard¹; Anamika Banerjee¹; Ailin Cao¹; Karin E. Borgmann-Winter^{1,2}; Chang-Gyu Hahn¹; ¹University of Pennsylvania Dept of Psychiatry, Philadelphia, PA; ²Children's Hopsital of Philadelphia, Philadelphia, PA
- MP 545 Effect of Ion Mobility Measurements on the MS
 Analyses of Proteins Associated with Autoimmune
 Diseases; Jeffrey F. Kuhn¹; Leesa Deterding²; ¹NIEHS/NIH/
 DHHS. Research Triangle Park, NC; ²NIEHS, RTP, NC
- MP 546 Quantitative Measurements of a Specific Hydroxylated Collagen Peptide in Urine Improves the Detection of Colorectal Liver Metastases; Nick Van Huizen; Zarina Lalmahomed; Mirelle Broker; Robert Coebergh van den Braak; Jan IJzermans; Theo Luider; Lennard Dekker; Erasmus Medical Center, Rotterdam, the Netherlands
- MP 547 Investigating the Contribution of Karyotype Changes to Multidrug Resistance using Quantitative Proteomics;

 <u>Lilian Kabeche</u>^{1,2}; Andrew Grassetti^{1,2}; Mark Adamo¹; Scott Gerber^{1,2}; *Invortis Cotton Cancer Center, Lebanon, New Hampshire; *2Geisel School of Medicine at Dartmouth, Hanover, NH
- MP 548 The Function of Pathogenic Human Torsin A; <u>Jong Bok Seo;</u> Soo Jeong Park; *Korea Basic Science Institute, Seoul, South Korea*
- MP 549 Accurate Clinical Detection of Hemoglobin Variants via Combined Top-Down and Bottom-Up Proteomics;
 Raymond Moore; Roman Zenka; Patricia Wendt; Kenneth Swanson; Jennifer Oliveira; James Hoyer; Surendra Dasari; Mayo Clinic, Rochester, MN
- MP 550 Selective Proteomics Analysis Using Congo Red as a Precipitating Reagent; Hongwu Jing¹; Irina A. Buhimschi²³; Guomao Zhao²; Michelle Axe⁴; Catalin S. Buhimschi³; Vicki Wysocki¹; ¹Dept. Chem. Biochem., The Ohio State University, Columbus, OH; ²Research Inst. at Nationwide Children's Hospital, Columbus, OH; ³Dept. OB/ GYN, The Ohio State University, Columbus, OH; ⁴Dept. Biochem. Mol. Biol., Otterbein University, Westerville, OH
- MP 551 Determination of EGFR and VEGF Signaling Pathway Activity by immuno-MALDI to Predict the Outcome of Targeted Colorectal Cancer (CRC) Treatment; Robert Popp¹; Andrew Chambers¹; Adriana Aguilar-Mahecha²; Oliver Pötz³; Mark Basik²; Christoph Borchers¹-²; ¹UVic Genome BC Proteomics Centre, Victoria, Canada; ²Jewish General Hospital, McGill University, Montreal, Canada; ³Natural and Medical Sciences Institute (NMI), Reutlingen, Germany
- MP 552 Absolute Quantification of Proteins from Different Types of Dried Blood Spot (DBS) Cards using LC-MS/MS; Jerome Vialaret¹; Christophe Hirtz¹; Karine Hirtz³; Alan Barnes⁴; Audrey Gabelle²; Sylvain Lehmann¹; ¹LBPC-IRB, CHU de Montpellier, Montpellier, france; ²Centre Mémoire Ressources Recherche, Montpellier, france; ³Spot to Lab, Cap Oméga, Montpellier, france; ⁴Shimadzu Research Laboratory, Manchester, UK



- MP 553 From Venome to Syndrome: Using Mass Spectrometry to Understand the Correspondence of Rattlesnake Venom Composition and Clinical Symptoms of Snakebite; William K. Hayes¹; Aaron Corbit¹; Sean P. Bush³; Eric C.K. Gren¹; Allen M. Cooper¹; Chip Cochran¹; Gerad A. Fox¹; Carl E. Person¹; Wayne Kelln¹; Kevin Kim²; Zachary Travis²; Ben D. Gardner¹; ¹Loma Linda University, Loma Linda, CA; ²La Sierra University, Riverside, CA; ³East Carolina University, Greenville, NC
- MP 554 Quantitative Proteomic Discovery of Candidate Serum Biomarkers for Early Detection of Ovarian Cancer; Matthew Russell^{1, 4}; Michael Walker^{1, 4}; Andrew Williamson¹; Aleksandra Gentry-Maharaj²; Andy Ryan²; Evangelia-Ourania Fourkala²; Phillip Humphryes¹; Usha Menon²; Anthony Whetton¹; Ian Jacobs^{1, 3}; Robert Graham¹;

 1 University of Manchester, Manchester, UK; 2 University College London, London, UK; 3 University of New South Wales, Sydney, Australia
- MP 555 Bottom-up Proteomic Analysis of Single HCT 116 Colon Carcinoma Multicellular Spheroids; Peter Feist^{1, 2}; Xin Liu¹; Liangliang Sun¹; Norman Dovichi¹; Amanda Hummon¹· 2; ¹University of Notre Dame, Notre Dame, Indiana; ²Integrated Biomedical Sciences Program, Notre Dame, IN
- MP 556 Zoledronic Acid Potentiates γδ T-Cell Anti-Leukemic Activity in Patients Receiving αβ+ T and CD19+ Depleted Grafts from Haplo-Identical Donors; Andrea Petretto¹; Irma Airoldi¹; Chiara Lavarello¹; Elvira Inglese¹; Alice Bertaina²; Barbarella Lucarelli²; Alessia Zorzoli¹; Pietro Merli²; Giulia Barbarito²; Letizia Brescia²; Valentina Bertaina²; Giuseppe Milano²; Franco Locatelli²; ¹Institute Giannina Gaslini, Genoa, taly; ²Bambino Gesù Children's Hospital. Rome. Italy
- MP 557 Barcoding Primary Human B-cells via Analysis of Membrane Proteins on the Cell Surface; Nicole A. Haverland¹; Matthew Waas²; Tim Toby¹; Ioanna Ntai¹; Rebekah Gundry²; Neil L. Kelleher¹; ¹Northwestern University, Evanston, IL; ²Medical College of Wisconsin, Milwaukee. WI
- MP 558 Detecting Recombinant Insulin Drugs in Amyloid Plaques of Diabetes Patients using Shotgun Proteomics; Jason D Theis; Surendra Dasari; Julie Vrana; Roman Zenka; Paul Kurtin; Mayo Clinic, Rochester, MN
- MP 559 Nanomaterial Based Sub-Proteome Selection for Analysis of the Activation State Of Macrophages;

 Arnaud Millet; Magali Court; Adrien Mombrun; Vera Aiello; Frederic-Xavier Gaillard; Francois Berger; Ali Bouamrani; Grenoble. France
- MP 560 The Associations between Enterovirus Infections and Type 1 Diabetes; Niina Lietzen¹; Sami Oikarinen²; Young Ah Goo³; David Goodlett³; Jorma Toppari¹; Jorma Ilonen¹; Riitta Veijola⁴; Mikael Knip⁵.⁶; Heikki Hyöty²; Riitta Lahesmaa¹; ¹University of Turku, Turku, Finland; ²University of Tampere, Tampere, Finland; ³University of Maryland, Baltimore, Maryland; ⁴University of Oulu, Oulu, Finland; ⁵Children´s Hospital, University of Helsinki, Helsinki, Finland; ⁵Helsinki University Central Hospital, Helsinki, Finland
- MP 561 Measuring Minimum Residual Disease in Multiple Myeloma by LC-MS/MS; A comparison to Multicolor Flow Cytometry; H. Robert Bergen, Ill¹; Angela Dispenzieri¹; John Mills²; David Barnidge²; David Murray²;

 ¹Mayo Clinic, Rochester, MN; ²Mayo Clinic / DLMP, Rochester, MN
- MP 562 Diagnostic Accuracy for Proteomic Cancer Markers in the Face of Auotantibodies: Can We Assume Trypsin Does All the Work? <u>Christopher Shuford</u>; Patricia Holland; Russell Grant; <u>Laboratory Corporation of America</u>, <u>Burlington</u>, NC

- MP 563 Mass Spectrometry-based Phosphoproteomics for the Identification of Phosphorylation Signaling Pathways in Chronic Lymphocytic Leukemia (CLL); Stephen Swatkoski; Sarah Herman; Deanna Wong; Adrian Wiestner; Marian Gucek; -NIH/NHLBI, Bethesda, MD
- MP 564 Tandem MS/MS with Isotope Dilution Identifies a Cluster of Proteins Implicated in Kidney Disease in HDL of Hemodialysis Subjects; Baohai Shao; Ian de Boer; Philip S. Mayer; Leila Zelnick; Maryam Afkarian; Jay W. Heinecke; Jonathan Himmelfarb; University of Washington, Seattle,
- MP 565 Ultrasensitive Tissue Proteomics using an Enhanced Workflow with Para-Magnetic Beads for Clinical Proteomics Research Applications; Christopher Hughes; Melissa McConechy; David Huntsman; Gregg Morin; British Columbia Cancer Agency, Vancouver, BC
- MP 566 Mass Spectrometry Based Study of Human Body Adaptation during the Space-flight and MARS 105 Days Isolation Experiment; Irina Larina¹; Alexey Kononikhin². 5; Lyudmila Pastushkova¹; Igor Popov⁴. 5; Alexander Bzhozovsky¹; Igor Dobrokhotov¹; Evgeny Tiys³; Vladimir Ivanisenko³; Eugene Nikolaev². 6; ¹Institute of Biomedical Problems RAS, Moscow, Russia; ²Institute for Energy Problems of Chemical Physics, Moscow, Russia; ³Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia; ⁴Emanuel Institute of Biochemical Physics, Moscow, Russia; ⁵Moscow Institute of Physics and Technology, Moscow, Russia; 6Skolkovo Institute of Science and Technology, Skolkovo, Russia
- MP 567 Differential Proteomic Analysis of Human Saliva using Tandem Mass Tags for Gastric Cancer Detection; Hua Xiao¹; David T.W. Wong²; ¹Shanghai Jiao Tong University, Shanghai, China; ²UCLA, CA
- MP 568 Single Point Calibrator for Protein Quantification in Formalin-Fixed Paraffin Embedded Tissues; Han-Yin Yang¹; James G. Bollinger¹; Ying Sonia Ting¹; Christine Wu²; Andrew Hoofnagle¹; Michael J. Maccoss¹; ¹University of Washington, Seattle, WA; ²Stratus Biosciences, Seattle, WA
- MP 569 Developing a Robust Urine UMOD and Albumin Assay By Liquid Chromatography—Targeted Mass Spectrometry; Qin Fu¹; Eric Grote²; Jie Zhu²; Christine Jelinek³; Josef Coresh⁴; Jennifer Van Eyk¹; ¹Cedars Sinai Medical Center, Los Angeles,, CA; ²Johns Hopkins University, Baltimore, MD; ³Johns Hopkins Bloomberg School of Public Health. Baltimore, MD

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- MP 570 Quantitative Phosphoproteomics on a µg-scale A Straightforward and Highly Sensitive ERLIC-SCX/ RP-LC-MS Strategy; Stefan Loroch¹; Oliver Pagel¹; René Zahedi¹; Albert Sickmann¹.²; ¹Leibniz-Institut für Analytische Wissenschaften, Dortmund, Germany; ²University of Aberdeen, Aberdeen, Scotland
- MP 571 Automation Enables Highly Reproducible
 Phosphopeptide Enrichment from Complex
 Mixtures by IMAC using High-Capacity Fe(III)-NTA
 Microchromatography Cartridges; Jason Russell; Steve
 Murphy; Agilent Technologies, Inc., Madison, WI
- MP 572 Spatial Extraction and Enrichment of Phosphopeptides from Tissues using Hydrogels Containing Metal Ionfunctionalized Nanopolymers; M. Lisa Manier; Jamie Wenke; Jeremy L. Norris; Kevin L. Schey; Richard Caprioli; Vanderbilt University, Nashville, TN
- MP 573 Single Shot Phosphoproteomics; Alex Hebert; Nicholas Kwiecien; Alicia Richards; Anna Merrill; Michael S. Westphall; Joshua J. Coon; University of Wisconsin-Madison, Madison, WI



- MP 574 Enrichment of Phosphorylated Peptides using Polymeric Reverse Micelles for MALDI-MS Analysis;

 Meizhe Wang; Bo Zhao; Mijanur Rahaman; Sankaran Thayumanavan; Richard Vachet; University of Massachusetts Amherst, Amherst, MA
- MP 575 In-Depth Phosphoproteome Analysis in *E.coli* Using High-pH Reversed-Phase and TiO₂ Chromatography;

 <u>Gerhard Saalbach</u>¹; Sivaramesh Wigneshweraraj²; Rita Figueira²; ¹John Innes Centre, Norwich, UK; ²Imperial College, London, UK
- MP 576 PTM- and Protein-Based Proteome Profiling of Drug Response in Human Gastric Carcinoma Cells using Antibody-Based and Metal Affinity-Based Phosphopeptide Enrichment; Matthew P. Stokes¹; Charles L. Farnsworth¹; Hongbo Gu¹; Jian Min Ren¹; Vicky Yang¹; Camilla R. Worsfold²; Kimberly A. Lee¹; Jeffrey C. Silva¹; ¹Cell Signaling Technology, Danvers, MA; ²Emory University. Atlanta. GA
- MP 577 Investigation of Changes in Protein Phosphorylation During Cell Differentiation: Combined Extraction-Fractionation at High pH to Facilitate Phosphopeptide Isolation; Alice Harnacke^{1, 2}; Wolfgang Fischer¹; ¹The Salk Institute, La Jolla, CA; ²University of Freiburg, Freiburg, Germany
- MP 578 StageTip-based IMAC for Rapid and Deep Phosphoproteomic Typing in One-Shot LC-MS/MS Analysis; Chia-Feng Tsai; Yi-Ting Wang; Miao-Hsia Lin; Pei-Yi Lin; Yu-Ju Chen; Academia Sinica, Taipei, Taiwan
- MP 579 Comparing Multi-Step IMAC and Multi-Step TiO2
 Methods for Phosphopeptide Enrichment; Xiaoshan
 Yue; Amanda B. Hummon; University of Notre Dame, Notre
 Dame. IN
- MP 580 Tyrosine Phosphorylation Profiling and Phosphoproteome Mapping of Three Mouse Tissues; Ling Zhong; Mark Raftery; UNSW, Sydney, Australia

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- MP 581 Automated Structural Characterization of Intact N- and O-linked Glycopeptide using a Orbitrap Fusion Tribrid Mass Spectrometer; Chein-Hung Chen; Ya-Ping Lin; Fang-Chi Liu; Chi-Lin Wu; Jung-Lee Lin; Chung-Hsuan Chen; Academia Sinica, Taipei, Taiwan
- MP 582 Glycan Composition and Charge State Influence upon Collision Cross Sections of High Mannose N-Linked Glycopeptides; Abby S. Gelb; Eric D. Dodds; University of Nebraska - Lincoln, Lincoln, NE
- MP 583 Glycoproteomic and Proteomic Analyses of Hearts from Hypertrophic Cardiomyopathy Mice; Shuang Yang¹; Sumita Mishra²; Lijun Chen¹; Jian-Ying Zhou¹; Yuri Poluektov¹; Daniel W. Chan¹; Subroto Chatterjee²; Hui Zhang¹; ¹John Hopinks Dept. of Pathology, Baltimore, MD; ²Department of Pediatrics, Johns Hopkins University, Baltimore MD
- MP 584 Effects of Charge Carrier and Composition on the Energy-Resolved Collision-Induced Dissociation of Tryptic N-Glycopeptides; Forouzan Aboufazeli; Venkata Kolli; Abby S. Gelb; Eric D. Dodds; University of Nebraska -Lincoln, Lincoln, NE
- MP 585 Improving the ETD Performance of Glycopeptides through Chemical Charge Enhancement; William Alley; Yanyan Qu; Rebecca Sosa; University of Texas at San Antonio, San Antonio, TX
- MP 586 High-Throughput Profiling of Protein N-Glycosylation by MALDI-TOF-MS Employing Linkage-Specific Sialic Acid Esterification; Karli Reiding¹; Dennis Blank¹; Dennis Kuijper²; André Deelder¹; Manfred Wuhrer¹.²; ¹Leiden University Medical Center, Leiden, Netherlands; ²VU University, Amsterdam, Netherlands

- MP 587 Analysis of Site-specific N-/O-Glycosylation of Targeted Proteins; Shu-Hui Chen; National Cheng Kung University, Tainan, Taiwan
- MP 588 O-linked Glycopeptide Analysis via Negative Electron Transfer Dissociation; Nicholas M. Riley¹; Nichollas E. Scott²; Mario F. Feldman³; Michael S. Westphall¹; Joshua J. Coon¹; ¹University of Wisconsin, Madison, Wisconsin; ²Center for High-Throughput for Biology, UBC, Vancouver, Canada; ³Alberta Glycomics Centre, Dept. of Biology, Edmonton, Canada
- MP 589 Characterization of Intact Prostate Specific Antigen (PSA) and Its Glycoforms by CESI-MS under Native and Denaturing Conditions; Marcia R. Santos¹; Chitra K. Ratnayake¹; David M. Horn²; Barry L. Karger³; Alexander R. Ivanov³; Rosa I. Viner²; ¹Sciex, Brea, CA; ²Thermo Fisher Scientific, San Jose, CA; ³Northeastern University, Boston, MA
- MP 590 N-glycan Analysis: Combining the Power of a Novel Glycan Label and Customized Scientific Library for Confident Glycan Assignment; Mark Hilliard¹; Niaobh McLoughlin¹; Pauline Rudd¹; Ying Qing Yu²; ¹NIBRT, Dublin, Ireland; ²Waters Waters Corporation., Milford, MA.
- MP 591 Highly Specific Enrichment of N-glycoproteome through Nonreductive Amination Reaction using Fe₃O₄@SiO₂-Aniline Nanoparticles; <u>Ying Zhang</u>; Liqi Xie; Haojie Lu: *Fudan University, Shanghai, China*
- MP 592 Glycosylation Patterns on HIV-1 Envelope Glycoprotein and Its Structural Implications; Audra Laube¹; Milan Raska¹,²; Qing Wei¹; Barbora Knoppova²; Stacy Hall¹; Katerina Zachova²; Zhi-Qiang Huang¹; Zina Moldoveanu¹; Jan Novak¹; Matthew Renfrow¹; ¹University of Alabama at Birmingham, Birmingham, AL; ²Palacky University in Olomouc, Olomouc, Czech Republic
- MP 593 *In-planta* Deglycosylation and Mass Spectrometry; Ranjith Munigunti; Lindsay Bennett; Brian Berquist; Vally Kommineni; Earl White; Sylvain Marcel; *Caliber Biotherapeutics, Bryan, TX*
- MP 594 Site-specific N- and O-glycosylation Analysis of Human IgG3 Assisted by Integrated C18-PGC-LC-ESI-MS/MS Analysis; Kathrin Stavenhagen¹; Rosina Plomp²; Gillian Dekkers³; Yoann Rombouts².⁴; Paul J. Hensbergen²; Gestur Vidarsson³; Manfred Wuhrer¹.²; ¹BioAnalytical Chemistry, VU University Amsterdam, Amsterdam, The Netherlands; ²CPM, Leiden University Medical Center, Leiden, The Netherlands; ³Sanquin Research and Academic Medical Center, Amsterdam, The Netherlands; ⁴Dep.Rheumatology, Leiden University Medical Center, Leiden, The Netherlands
- MP 595 An Improved Workflow using Rapid PNGase F to Quickly Deglycosylate IgG for Accurate N-glycan Analysis; Paula Magnelli; Beth McLeod; Colleen McClung; Renpeng Liu; Alicia Bielik; Ellen Guthrie; New Englanb Biolabs, Ipswich, MA
- MP 596 High-Throughput Electron Capture Dissociation Mass Spectrometry in A Novel Branched Radio-Frequency Ion-Trap as a Platform for Glycoproteomics; St John Skilton; J.C. Yves Leblanc; Takashi Baba; James Hager; J. Larry Campbell; SCIEX, Concord, On, Canada
- MP 597 Development of a Novel Work Flow for the Enrichment of Glycated Peptides from Complex Matrices; Sara Eun Lendal; Johannes Graumann; Weill Cornell Medical College in Qatar, Doha, Qatar
- MP 598 Glycosylation of Vascular Endothelial Growth Factor Receptor 2 (VEGFR-2) in Angiogenesis; Kevin Brown Chandler; Nader Rahimi; Catherine E Costello; Boston University School of Medicine, Boston, MA
- MP 599 Site-specific Quantification of the Surface
 N-Sialoglycoproteome in Cancer Cells with Distinctive
 Invasiveness; Weixuan Chen; Johanna Smeekens;
 Ronghu Wu; Georgia Tech, Atlanta, GA



- MP 600 Rapid Preparation of Released N-Glycans for HILIC Analysis Using a Novel Fluorescence and MS-Active Labeling Reagent; Matthew Lauber¹; Ying-Qing Yu¹; Darryl Brousmiche¹; Jeffrey Thomson²; Seamus O'Connor²; Zhengmao Hua¹; Stephan Koza¹; Paula Magnelli³; Ellen Guthrie³; Chris Taron³; Kenneth Fountain¹; ¹Waters Corporation, Milford, MA; ²Regeneron Pharmaceuticals, Rensselar, NY; ³New England Biolabs, Ipswich, MA
- MP 601 Site-Specific N-glycoform Analysis of Human Alpha1-Acid Glycoprotein: Towards an Integrated Approach for Complete Molecular Characterization; <u>Katherine</u> N. Schumacher; Eric D. Dodds; *University of Nebraska -*Lincoln, Lincoln, NE
- MP 602 A Novel Quantitative Mass Spectrometry Platform for Determining Site-Specific Protein O-GlcNAcylation
 Dynamics; Xiaoshi Wang¹; Zuo-Fei Yuan¹; Jing Fan²; John M. Denu²; Benjamin A. Garcia¹; ¹University of Pennsylvania, Philadelphia, PA; ²University of Wisconsin-Madison, Madison, WI
- MP 603 A Systematic Investigation of CID Q-TOF-MS/MS
 Collision Energies to Improve N- and O-glycopeptide
 Identification by LC-MS/MS; Hannes Hinneburg^{1, 2};
 Kathrin Stavenhagen³; Ulrike Schweiger-Hufnagel⁴; Dirk
 Wunderlich⁴; Stuart Pengelley⁴; <u>Arndt Asperger</u>⁴; Wolfgang
 Jabs⁴; Peter H. Seeberger¹,²; Daniel Varón Silva¹; Manfred
 Wuhrer³; Daniel Kolarich¹; ¹Max-Planck-Institute of Colloids
 and Interfaces, Potsdam, Germany; ²Free University Berlin,
 Berlin, Germany; ³VU University Amsterdam, Amsterdam,
 Netherlands; ⁴Bruker, Bremen, Germany
- MP 604 **Glycoprofiling by HILIC-FLR-MS**ⁿ of Procainamide-**Labeled Glycans**; <u>Brian C. Gau</u>; Benjamin Cutak; Kevin Rav: Sigma-Aldrich, St. Louis, MO
- MP 605 Parallel Data Acquisition of In-source Fragmented Glycopeptides to Characterize the Peptide Backbones and Glycan Structures; Jingfu Zhao; Ehwang Song; Yehia Mechref; Texas Tech University, Lubbock, Texas

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- MP 606 Comprehensive Characterization of the Differentiation of Human Embryonic Stem Cells into Mesenchymal Stem Cells; Anja M Billing; Shaima S Dib; Hisham Ben-Hamidane; Aditya M Bhagwat; Shahina Hayat; Pankaj Kumar; Rasha Al-Mismar; Neha Goswami; Karsten Suhre; Arash Rafii; Johannes Graumann; Weill Cornell Medical College in Qatar, Doha, Qatar
- MP 607 Subcellular Trafficking of Cholera Toxin Revealed by Proteome-wide Dose Response Time Course Profiling;
 Christoher Ebmeier; Tristan McClure-Begley; Douglas
 Chapnick; Xuedong Liu; William Old; University of Colorado, Boulder, CO
- MP 608 Regulation of the Primary Human Trophoblast Cell Secretome by Mechanistic Target of Rapamycin (mTOR) Signaling; Susan T. Weintraub¹; Frederick Rosario²; Sammy Pardo¹; Thomas Jansson²; ¹Univ. of Texas Health Science Center, San Antonio, TX; ²Univ. of Colorado Denver Anschutz Med. Campus, Aurora, CO
- MP 609 The Nuclear Proteome of a Vertebrate; Martin Wühr;
 Thomas Güttler; Leonid Peshkin; Graeme Mcalister;
 Matthew Sonnett; Aaron C. Groen; Marc Presler; Brian
 Erickson; Timothy J. Mitchison; Marc W. Kirschner; Steven
 Gygi; Harvard Medical School. Boston. MA
- MP 610 Chemical and Computational Approaches to Integrate Redox Signaling in the Study of Systems Biology; Nelmi O. Devarie-Baez; Zhiwei Ji; Elsa Silva-Lopez; Jade Mims; Xiaofei Chen; Allen W. Tsang; Xiaobo Zhou; Cristina M. Furdui; Wake Forest School of Medicine, Winston-Salem, NC

- MP 611 The Dynamic Phosphoproteome of Peripheral Nerve Injury and Chronic Pain; Christopher B. Lietz¹; Dana M. Tilley²; Courtney Kelley²; Ricardo Vallejo²; Ramsin Benyamin²; Joseph Williams³; David L. Cedeño².³; Lingjun Li¹; ¹University of Wisconsin, Madison, WI; ²Millennium Pain Center, Bloomington, IL; ³Illinois Wesleyan University, Bloomington, IL
- MP 612 Phosphoproteomic Analysis of Signal Integration in Cancer; Robert Lawrence; Judit Villén; University of Washington. Seattle, WA
- MP 613 Targeted Proteomics-Driven Computational Modeling of Macrophage S1P Chemosensing; Nathan Manes1; Bastian Angermann1; Eunkyung An1; Virginie Sjoelund1; Jing Sun1; Masaru Ishii2; Ronald Germain1; Martin Meier-Schellersheim1; Aleksandra Nita-Lazar1; 1NIH, Bethesda, MD; 2Osaka University, Osaka, Japan
- MP 614 Proteomic and Phosphoproteomic Characterization of Breast Cancer Progression in MCF10A Model Cellline; Hongjie Pan; Harsha P. Gunawardena; Xian Chen;
 University of North Carolina at Chapel Hill, Chapel Hill, NC
- MP 615 Kinase Profiling, Expression Proteomics, and Phosphoproteomics Reveal Adaptive Signaling in Melanoma after Targeted Therapy; Ritin Sharma¹; Inna Fedorenko¹; Bin Fang¹; David Britton²; Sasa Koncarevic²; Gitte Boehm²; Ian Pike²; Keiran Smalley¹; John Koomen¹; ¹H. Lee Moffitt Cancer Center & Research Institute, Tampa, FL; ²Proteome Sciences PLC, Surrey, UK
- MP 616 Deep Proteomic and Phosphoproteomic Profiling Reveals Different Gliomagenesis Mechanism between Two Pediatric High-grade Glioma Subtypes; Hong Wang^{1, 2}; Tim Shaw¹; Xusheng Wang¹; Yuxin Li¹; Ji-Hoon cho¹; Barbara Paugh¹; Alex Diaz¹, ²; Yanling Yang¹; Zhiping Wu¹; Haiyan Tan¹; Bing Bai¹; Anthony High¹; Vishwajeeth Pagala¹; Suzanne Baker¹, ²; Junmin Peng¹, ²; ¹St Jude Children's Research Hospital, Memphis, TN; ²University of Tennessee Health Science Center, memphis, TN
- MP 617 Global and Targeted Quantification of Seven Human Cell Lines Reveals the Correlation of Cell Type-Specific Responses with Feedback Regulators; Tujin Shi¹; Yuqian Gao¹; Matthew Gaffrey¹; William Chrisler¹; Thomas Fillmore¹; Carrie Nicora¹; Meng Markillie¹; karin rodland¹; Jason McDermott¹; Mario Niepel²; Peter Sorger²; Richard Smith¹; Steven Wiley¹; Wei-Jun Qian¹; ¹Pacific Northwest National Lab, Richland, WA; ²Harvard Medical School, Boston. MA
- MP 618 Metaproteomics Based on SWATH-MS Approach to
 Analyse a Complex Synthetic Microbial Community;
 Mélanie Béraud; giuseppe giambarresi; David Gillan; Ruddy
 Wattiez; Dept of Proteomic and Microbiology, UMONS,
 Mons, Belgium
- MP 619 PhosphoPath; Visualization of Phosphosite Specific Dynamics in Molecular Network Analysis of Large Phosphoproteomic Datasets; Linsey Raaijmakers¹; Piero Giansanti¹; Patricia A. Possik²; Judith Mueller²; Daniel S. Peeper²; Albert J.R. Heck¹; A.F. Maarten Altelaar¹; ¹Utrecht University, Utrecht, Netherlands; ²Netherlands Cancer Institute, Amsterdam, Netherlands
- MP 620 Monitoring Protein-Protein Interactions in Live Cells with a Wide Scope by Rapid Photo-Activated Cross-Linking and LC-MS/MS; Anthony Persechini¹; Boris Kornilayev¹; Andrew Keightley¹; Paul M Stemmer²; ¹Univ Missouri-Kansas City, Kansas City, MO; ²Wayne State University, Detroit, MI
- MP 621 Probing Paradoxical Effects of RAF Inhibition by Dynamic Phosphoproteomics; Peter Kubiniok; H. Lavoie; M. Therrien; P. Thibault; Universite de Montreal, Montreal, Canada



- MP 622 Quantitative Proteomic and Systems Analysis of Human Immune Cells in Response to Adjuvanted Influenza Vaccine; Allison Galassie¹; Parimal Samir²; Andrew Link^{1, 2}; ¹Vanderbilt University, Nashville, TN Tennessee; ²Vanderbilt University School of Medicine, Nashville, TN
- MP 623 Global Analysis of Protein Folding Thermodynamics for the Characterization of Disease States; Jagat Adhikari¹; Graham West^{2, 3}; Michael C. Fitzgerald¹; ¹Duke University, Durham, NC; ²The Scripps Research Institute, Jupiter, FL; ³Current Address: Pfizer, Inc. Groton, CT
- MP 624 Pharmacoproteomic Analysis of the Resveratrol and DMSO; Tanya Porras-Yakushi; Michael J Sweredoski; Sonja Hess; Caltech, Pasadena, CA
- MP 625 Protease Inhibitors PZP and α2MG as Biochemical Keys to Find Unknown Mechanisms of Alzheimer's Disease; Diana Nijholt; Peter Koudstaal; Arfan Ikram; Peter Sillevis-Smitt; Theo Luider; Erasmus Medical Centre, Rotterdam, The Netherlands
- MP 626 A Systems Biology Approach for the Investigation of the Mechanism of Action of the Neurotrophic Drug Cerebrolysin; Florian Füssl¹; Stefan Winter²; Christian Huber¹; ¹University of Salzburg, Salzburg, Austria; ²Ever Neuro Pharma GmbH, Unterach, Austria
- MP 627 Defining the Physical Interactome of the Active Kinome from the Intrinsic Subtypes of Human Breast Cancer;

 Matthew R. Meyer¹; Jing Wang³; Kelly V. Ruggles⁴; Petra Erdmann-Gilmore¹; Jeanne Rumsey¹; Robert Kitchens¹; Jacqueline Snider¹; Jeremy Hoog¹; Shunqiang Li¹; Sherri R. Davies¹; Matthew J. Ellis²; David Fenyö⁴; Bing Zhang³; Gary L. Johnson⁵; R. Reid Townsend¹; ¹Washington University School of Medicine, St. Louis, MO; ²Baylor College of Medicine, Houston, TX; ³Vanderbilt University, Nashville, TN; ⁴New York University, New York, NY; ⁵University of North Carolina, Chapel Hill, NC

SYSTEMS BIOLOGY: OTHER 628 - 641

- MP 628 Integrated Proteomics and Metabolomics Reveal Molecular Mechanism of Symbiotic Relationship between Fungal Mortierella elongata and Bacterial Endosymbiont C. Glomeribacter sp; Zhou Li¹; Stephen Dearth²; Qiuming Yao¹; Jessie Uehling³; Hector Castro-Gonzalez²; Shawn Campagna²; Gregory Hurst¹; Jessy Labbé¹; Chongle Pan¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN; ²University of Tennessee, Knoxville, TN; ³Duke University, Durham, NC
- MP 629 Discovering Metabolic Dynamics and Regulation by Real-Time Mass Spectrometry; Tobias Fuhrer¹; Hannes Link²; Andreas Kühne¹; Uwe Sauer¹; Nicola Zamboni¹; ¹Institute of Molecular Systems Biology, ETH Zürich, Zürich, Switzerland; ²Max Planck Institute for Terrestrial Microbiology, Marburg, Germany
- MP 630 LC-MS/MS Characterization of the Microbiome Stability in Post-Surgery Crohn's Disease Patients; J. Alfredo
 Blakeley-Ruiz¹.²; Weili Xiong¹.²; Robert Hettich¹; ¹Oak
 Ridge National Laboratory, Oak Ridge, TN; ²University of
 Tennessee. Knoxville. TN
- MP 631 Studies of Heart Regeneration in Zebrafish: A Multi-Omics/System Biology Approach; Leanne C. Nye¹; Lee Gethings²; Cheng Shuk Han³; Yun Wah Lam³; Fatemeh Babaei³; Chi Chi Liu³; Alfred W. H. Chan³; Robert Plumb⁴; Ian D. Wilson¹; ¹Imperial College, London, UK; ²Waters Corporation, Wilmslow, UK; ³City University, Hong Kong, Hong Kong; ⁴Waters, Milford, MA
- MP 632 Systematic Identification of the Lysine Succinylation in the Protozoan Parasite Toxoplasma gondii; Xiaolong Li²; Di Che³; Zhongyi Cheng¹; Xingling Yi¹; Feng Tan³; ¹PTM Biolabs, Inc, Hangzhou, China; ²The First Affiliated Hospital of Wenzhou Medical U, Wenzhou, CN; ³Wenzhou Medical University, Wenzhou, CN

- MP 633 Systematic Integration Of "Omics" Data To Improve Innovation In Beer; Barbara Dunn¹; Dan Kvitek²; Xiaoyue Jiang³; Daniel Lopez Ferrer³; Gina Tan³; Andreas Huhmer³; ¹Dept. of Genetics, Stanford University, Palo Alto, CA; ²Invitae, San Francisco, CA; ³Thermo Fisher Scientific, San Jose. CA
- MP 634 LOPIT Proteomics Reveals Proteome-Wide Relocalisation upon Nitrogen Starvation in Yeast; Daniel J. H. Nightingale¹; Duygu Dikicioglu²; Stephen G. Oliver²; Kathryn S. Lilley¹; ¹Cambridge Centre for Proteomics, Cambridge, UK; ²Cambridge Systems Biology Centre, Cambridge, UK
- MP 635 Quantitative SWATH Proteomics Analysis of Tree-Fungal Interactions under Nutrient Limiting Conditions; Landon Wilson¹; Geetika Trivedi²; Avinash Sreedasyam³; Helen Kim¹; Xiangqin Cui¹; Leland J Cseke²; Stephen Barnes¹; ¹University of Alabama at Birmingham, Birmingham, AL; ²University of Alabama in Huntsville, Huntsville, AL; ³HudsonAlpha Institute for Biotechnology, Huntsville, AL
- MP 636 Towards High-Throughput Analysis of Salmonella Serotypes: A Fundamental Look at Protein Profiles, Proteomes and Secretomes of Salmonella typhimurium and enteritidis; Amornmart Jaratrungtawee¹; Jaran Jainhuknan¹; Saw Yen Ow²; Onrapak Reamtong³; Tipparat Thiangtrongjit³; Yuphakhun Chaturongkasumrit⁴; Mongkol Vesaratchavest⁴; ¹Bruker Corporation, Bangkok, Thailand; ¹Bruker Corporation, Kuala Lumpur, Malaysia; ³Mahidol University, Bangkok, Thailand; ⁴Research and Development Center, Betagro Group, Bangkok, Thailand
- MP 637 Enhanced Informatics Methods for Integrating
 Metagenome and Metaproteome Information for the
 Pre-term Human Gut Microbiome; Robert Hettich¹; Weili
 Xiong^{1, 2}; Alison Erickson¹; J.J. Chai¹; Chongle Pan¹; ¹Oak
 Ridge National Laboratory, Oak Ridge, TN; ²University of
 Tennesse, Knoxville, TN
- MP 638 Quantitative Proteomic Analysis Reveals Environmental Interaction and Epistasis in the Responses to Complex Stimuli in Saccharomyces cerevisiae; Parimal Samir¹;
 . Rahul²; Andrew Link¹; ¹Vanderbilt University School of Medicine, Nashville, TN; ²University of Waterloo, Waterloo, Canada
- MP 639 Proteome-in-motion: Deep Study of Protein Dynamics and Regulation in Yeast Proliferating Cells; Miguel Martin Perez; Judit Villen; University of Washington, Seattle WA
- MP 640 Comprehensive Quantitation of 1,000 Proteomes; Alicia
 L. Richards; Alexander S. Hebert; Jonathan A. Stefely;
 Elyse C. Freiberger; Nicholas W. Kwiecien; Adam Jochem;
 Xiao Guo; Michael S. Westphall; David J. Pagliarini; Joshua
 J. Coon; University of Wisconsin, Madison, WI
- MP 641 **Proteomic Visualization of Nanoparticle Cellular Entry Pathways**; Linna Wang; Li Yang; Naveen Kadasala; Li Pan;
 Alexander Wei; Weiguo Andy Tao; *Purdue University, West*Lafayette, IN

ENERGY: HYDROCARBON AND PETROCHEMICAL 642 - 666

- MP 642 Correlation of Boiling Point, Molecular Weight and Composition by Mass Spectrometry: The Development of Class Dependent Equations; Yuri E. Corilo^{1, 2}; Priscila M. Lalli²; Steven M. Rowland²; Logan C. Krajewski¹; Alan G. Marshall^{1,3}; Ryan P. Rodgers¹; **INational High Magnetic Field Laboratory, FSU, Tallahassee, FL; **Future Fuels Institute, FSU, Tallahassee, FL; **Department of Chemistry and Biochemistry, FSU, Tallahassee, FL
- MP 643 Structural Identification of Naphthyl Compounds in 2,6-naphthalenedicarboxylic Acid by UPLC-QTOF Tandem Mass Spectrometry; Junyan Liu; Liyan Jiang; Sinopec Shanghai Research Institute of Petrochemic, Shanghai, China



- MP 644 Probing Nanoaggregation of Asphaltene Model
 Compound using Electrospray Ionization Mass
 Spectrometry; Lan Liu¹; Johan Sjöblom²; Zhenghe Xu¹;
 ¹University of Alberta, Edmonton, Canada; ²Norwegian
 University of Science and Technology, Trondheim, Norway
- MP 645 Comprehensive Characterization of Petroleum Crude Oil, Asphaltenes and Sulfur Compounds; <u>Jeffrey Patrick</u>; Joe Binkley; Jonathan Byer; Clécio Klitzke; *LECO Corporation, St. Joseph, MI*
- MP 646 Characterization of Semi-Synthetic Motor Oil using FT-ICR; Sung Hwan Yoon; David Goodlett; David Kilgour; University of Maryland, Baltimore, MD
- MP 647 Study of Asphaltene Adsorption on Mineral Surfaces by High-Resolution Mass Spectrometry; Martha Chacón-Patiño¹; José J. Villarreal¹; Andrea Gomez-Escudero²; Jorge A. Orrego-Ruiz²; Cristian Blanco-Tirado¹; Marianny Y. Combariza¹; ¹UIS, Bucaramanga, Colombia; ²ECOPETROL, Piedecuesta Santander
- MP 648 Identification of Challenging Components in Complex Hydrocarbon Mixtures using High Resolution GC/Q-TOF with an Innovative El Source; Pierre Giusti¹; Sabrina Marceau¹; Benoit Paupy¹; Sofia Nieto²; Mingda Wang²; Harry Prest²; ¹TOTAL Refining and Chemicals, TRTG, Gonfreville l'Orcher, France; ²Agilent Technologies, Inc., Santa Clara. CA
- MP 649 MS/MS of Aromatic Surfactants, Structure
 Determination of Mixture by Charge Remote
 Fragmentation at High Resolving Power; Michael T.
 Cheng¹; Matthew Hurt²; ¹Chevron Research, Richmond, CA;

 Chevron, Richmond, CA
- MP 650 Application of Design of Experiment (DOE) and Optimization by Atmospheric Pressure Photoionization (APPI) Source Parameters for Studies in Petroleomics; Jandyson Machado Santos¹; Marcos A. Pudenzi¹; Eduardo M. Schmidt¹; Heliara D. L. Nascimento¹; Alberto Wisniewski Jr.²; Marcos N. Eberlin¹; ¹University of Campinas, Campinas, SP: ²Federal University of Sergipe, São Cristóvão, SE
- MP 651 Supercritical Fluid Chromatography Coupled with lon Mobility-Mass Spectrometry for Comprehensive Profiling of Petroleum Samples; Eleanor Riches¹; Yunju Cho²; Sunghwan Kim²; ¹Waters Corporation, Wilmslow, UK; ²Chemistry Department, Kyungpook National Universit, Daegu. South Korea
- MP 652 Characterization of Heteroatom-Containing Species in Lignite with Orbitrap Mass Spectrometry and Statistical Analysis; Lu Chen; Xing Fan; Chun-Yan You; Xian-Yong Wei; Yun-Peng Zhao; Jun-Liu Xia; Miao Wang; China University of Mining & Technology, Xuzhou, China
- MP 653 Analysis of Dibenzothiophenes in Diesel by GC-APCI Ion Mobility High Resolution Mass Spectrometry;

 Sheher Bano Mohsin¹; David Wong²; Robert Ley²; ¹Agilent Technologies, Schaumburg, IL; ²Agilent Technologies, Inc., Santa Clara, CA
- MP 654 Standard Compounds Analysis as a Tool for the Establishment of Ionization/Intrinsic Characteristics Relationship on Crude Oil Polar Compounds; Marcos Albieri Pudenzi¹; Clécio Fernando Klitzke¹; Vanessa Gonçalves Santos¹; Heliara D. Lopes Nascimento¹; Pedro Henrique Vendramini¹; Eduardo Morgado Schmidt¹; Rosana Cardoso Lopes Pereira²; Wagner Leonel Bastos²; Marcos Nogueira Eberlin¹; ¹Unicamp, Campinas, Brasil; ²CENPES, PETROBRAS, Rio de Janeiro, RJ Brasil
- MP 655 Application of Molecular Dynamic Simulation for More Accurate CCS Calculations of Aromatic Compounds with Long Alkyl Chains; Arif Ahmed¹; Dongwan Lim¹; Jong Wha Lee²; Hugh I. Kim²; Sunghwan Kim¹,³; ¹Kyungpook National University, Daegu, Republic of Korea; ²Pohang University of Science and Technology, Pohang, Republic of Korea; ³Green-Nano Materials Research Center, Daegu, Republic of Korea

- MP 656 Comparison of Interface-Active Materials in Crude
 Oils with Different Emulsifying Propensities by using
 Solid Phase Extraction and an LTQ-Obitrap Mass
 Spectrometer; Xueming Dong; Chunfen Jin; Ravikiran
 Yerabolu; Hilkka Kenttamaa; Purdue University, West
 Lafayette, IN
- MP 657 Nitrogen Speciation in Petroleum Distillates using a Complementary and Powerful Approach by GC×GC-NCD and FT-ICR/MS; Fabien Chainet; Lyes Assam; Vincent Souchon; Jérémie Ponthus; Florian Albrieux; IFPEn, Solaize, France
- MP 658 A Model Compound Study to Assess Potential Complications of Using APPI for Mass Spectrometric Analysis of Crude Oil; Matthew Hurt; Michael T. Cheng; Chevron Research, Richmond, CA
- MP 659 Pretreatment of Oil Samples for GCMS Analysis of Polycyclic Aromatic Hydrocarbons and Their Hetero-Analogs; Nino Todua¹; Natela Khetsuriani²; Elza Topuria²; Levan Megutnishvili¹; Alexey Mayorov¹; Anzor Mikaia¹; ¹National Institute of Standards & Technology, Gaithersburg, MD; ²Melikishvili Institute of Phys. & Org. Chemistry, Tbilisi, Georgia
- MP 660 Development of an Analytical Method for Complex Downstream Hydrocarbons of Gas Cracker by GC/GC-MS; Syed Ali; Asraf Ali; Momdoh Al-Enzi; Ibrahim Al-Ghamdi; Nasser M. Al-Harbi; Khalid H. Al-Assaf; SABIC Research Center, Riyadh, Saudi Arabia
- MP 661 Analysis of Complex Aromatic Mixtures Such as
 Asphaltenes using Online Coupling LC-MS Methods;
 Lilla Molnárné Guricza; Schrader Wolfgang; Max-PlanckInstitut für Kohlenforschung, Mülheim an der Ruhr, Germany
- MP 662 Characterization of Isomers in Petroleum Interfacial Material by Ion Mobility Mass Spectrometry; Priscila M.

 Lalli¹,²; Jacqueline M. Jarvis¹; Alan G. Marshall¹,³; Ryan
 P. Rodgers¹,²; ¹National High Magnetic Field Laboratory,
 Tallahassee, FL; ²Florida State University Future Fuels
 Institute, Tallahassee, FL; ³Department of Chemistry, Florida
 State University, Tallahassee, FL
- MP 663 Analysis of Naphthenic acids by Matrix Assited
 Laser Desorption Ionization Time of Flight Mass
 Spectrometry; <u>Jeferson Valencia</u>; Marianny Yajaira
 Combariza; Cristian Blanco Tirado; *Universidad Industrial de Santander, Bucaramanga, Colombia*
- MP 664 Unprecedented Inventory of Coal Tar Compounds by an Integrative Approach Comprising GCxGC-TOF MS and APPI(+)FT-ICR MS; Hector Koolen¹; Robert Swarthout¹; Robert Nelson¹; Huan Chen²; Logan Krajewski²; Christoph Aeppli³; Amy McKenna²; Ryan Rodgers²; Christopher Reddy¹; ¹Woods Hole Oceanographic Institution, Woods Hole, MA; ²National High Magnetic Field Laboratory, Tallahassee, FL; ³Bigelow Laboratory for Ocean Sciences, East Boothbay, ME
- MP 665 Evaluation of Biodegradation of Crude Oils by Gcxgc using New Strategies Chemometrics; Paloma Santana
 Prata; Noroska Gabriela Salazar Mogollón; Fabio Augusto;
 Unicamp, Campinas, BR
- MP 666 Determination of Molecular Changes in Asphaltene Composition during Hydroconversion and Thermal Cracking Processes by High Resolution Mass Spectrometry; Martha L. Chacón-Patiño¹; Cristian Blanco-Tirado¹; Jorge A. Orrego-Ruiz²; Andrea Gómez-Escudero²; Marianny Y. Combariza¹; ¹Universidad Industrial de Santander, Bucaramanga, Colombia; ²Instituto Colombiano del Petróleo, Piedecuesta, Colombia



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- MP 667 Evaluation of the INLIGHT™ strategy for LC-MS/MS

 Disaccharide Analysis; Adam Hawkridge; John Mangrum;

 Umesh Desai; Virginia Commonwealth University,

 Richmond, VA
- MP 668 Development of Bioinformatics Support for High Throughput Isomeric Separation and the Structural Identification of Glycans by LC-MS; Ningombam Sanjib Meitei¹; Arun Apte²; Udayanath Aich³; Julian Saba⁴;

 ¹PREMIER Biosoft, Indore, India; ²PREMIER Biosoft, Palo Alto, CA; ³Thermo Fisher Scientific, Sunnyvale, CA;
 ¹Thermo Fisher Scientific, San Jose, CA
- MP 669 Intelligent Glycomics Data-Independent-Acquisition Method (iGODIA) for Targeted Glycotope Analysis; Hsin-Hung Huang^{1,2}; Kay-Hooi Khoo^{1,2}; **/IBC, Academia Sinica, Taipei, Taiwan; **2/IBS, National Taiwan University, Taipei, Taiwan
- MP 670 MultiGlycan: A Software Tool for Automated Glycan Quantification using Labeling-Based and Label Free Approaches; Chuan-Yih Yu¹; Yunli Hu²; Shiyue Zhou²; Yehia Mechref²; Haixu Tang¹; ¹Indiana University, Bloomington, IN: ²Texas Tech University, Lubbock, TX
- MP 671 Development of Structural Analysis Techniques for Keratan Sulfate Using Chemical Derivatization and LC-MS/MS; David Fischler; Complex Carbohydrate Research Center, UGA, Athens, GA
- MP 672 Towards Absolute Quantification in Glycomics
 Facilitating New Labeling Strategies for *Pichia pastoris*N-glycans; <u>Evelyn Rampler</u>; Gunda Koellensperger;
 University Vienna, Vienna, Austria
- MP 673 Using an Isotopically Labelled Glycoprotein Internal Standard to Enable Comparison of Glycan Quantitation across Mass Spectrometer Types; Emily Betchy¹; Barry Boyes²; Ron Orlando¹; ¹University of Georgia, Athens, GA; ²Advanced Materials Technology, Wilmington, DE
- MP 674 Towards the Discrimination of Sialyl Linkages in Glycopeptides: A New Derivatization Approach; Takashi Nishikaze; Shinichi Iwamoto; Koichi Tanaka; Shimadzu Corporation, Kyoto, Japan
- MP 675 Semi-Automatic Site Specific Analysis of High Mannose and Hybrid Type Glycosylation of Human Serum Glycoproteins in Liver Disease; Miloslav Sanda¹; Nathan J Edwards²; Radoslav Goldman¹; ¹Department of Oncology, Lombardi Comprehensive, Washington, DC; ²Department of Biochemistry and Molecular & Cell, Washington, DC
- MP 676 Survey of Cationizing Metals for CID and ETD of Metal-Adducted Oligosaccharides; Ranelle M. Schaller-Duke; Carolyn J. Cassady; The University of Alabama, Tuscaloosa Al
- MP 677 Determination of Caulobacter Crescentus Glycan Strand Length Distribution by LC-UV-MS; Ludmila Alexandrova¹; Allis Chien¹; Leigh Harris²; Julie Theriot²; ¹Stanford University Mass Spectrometry, Stanford, CA; ²Biophysics Program, Department of Biochemistry, Stanford, CA
- MP 678 Rapid Characterization of Model Glycosaminoglycans using Negative Electron Transfer Dissociation; Matthew Rush; Nicholas Riley; Christopher Rose; Alexander Hebert; Michael Westphall; Joshua Coon; University of Wisconsin, Madison, WI
- MP 679 Electrospray Ionization of Saccharides by Amino Acids;

 <u>Abdil Ozdemir</u>²; Chung-Hsuan Chen¹; ¹Academia Sinica,

 Genomics Research Center, Taipei, Taiwan; ²Sakarya

 University, Adapazari, Turkey
- MP 680 Mass Spectrometric Analysis to Identify arabino-xylooligomers Generated from Hydrothermal Processing Of Switchgrass; Michael Bowman; Victoria Nguyen; Bruce Dien; USDA-NCAUR, Peoria, IL

- MP 681 The Coolest Sugars in the Universe: Characterizing Complex Carbohydrates in Liquid Helium Nanodroplets; Christiane Stachl¹; Ana Isabel González Flórez¹; Doo-Sik Ahn¹; Johanna Hofmann¹; Heung Sik Hahm²; Peter Seeberger²; Gert von Helden¹; Kevin Pagel¹; ¹Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany; ²Max Planck Institute of Colloids and Interfaces, Potsdam. Germany
- MP 682 Reliable Quantitative Glycomics using LC-MS and iGlycoMab Stable Isotope Labeled Glycan Standard; Nadia Tello¹; Shiyue Zhou¹; Alex Harvey²; Barry Boyes²; Ron Orlando²; Yehia Mechref¹; ¹Texas Tech University, Lubbock, TX; ²GlycoScientific, Athens, GA
- MP 683 Addition of Basic Sites to the Glycans of Helicobacter pylori to Increase MS/MS Peak Abundance; Haley S.

 Miller; Danielle Dube; Elizabeth A. Stemmler; Bowdoin College. Brunswick, ME
- MP 684 Improved Sensitivity in Tandem MS Quantification of Heparan Sulphate by Depolymerisation Using Acid Butanolysis Reaction; Paul J Trim; John Hopwood; Marten Snel; South Australian Health and Medical Research Insti. Adelaide, Australia
- MP 685 Analysis of Fructosylamino Acids in Dried Fruit
 Utilizing Deuterated n-butyl-ketoximes as Standards
 by Gas-Liquid Chromatography/Mass Spectrometry;
 Thomas P. Mawhinney; Deborah Chance; Valeri Mossine;
 Brock Evans; Carl Cheadle; James Waters; University of
 Missouri, Columbia, MO
- MP 686 Quantification and Structural Characterization of Glycans and Glycopeptides by TQMS: The Energy-Resolved Oxonium Ion Monitoring (Erexim) Platform;

 Atsuhiko Toyama¹; Shuichi Nakaya¹; Shinji Funatsu¹; Koji Ueda²; Yoshihiro Hayakawa¹; Ichiro Hirano¹; ¹Shimadzu Corporation, Kyoto, Japan; ²The University of Tokyo, Tokyo, Japan
- MP 687 Branched Oligosaccharides by Microwave Assisted Hydrolysis, HILIC Separation, and MSn (n>2); Jia Ren; Purdue University, West Lafayette, IN
- MP 688 Esterification of Glycopeptides for the Determination of Sialylation Levels in Antibodies; Andrey Oliveira¹; Rini Roy¹; Paul Lopez¹; Edward Bodnar¹; Celine Raymond²; Yves Durocher²; Helene Perreault¹; *1University of Manitoba, Winnipeg, Canada; *2National Research Council of Canada, Montreal, Qc
- MP 689 LC-MS/MS Analysis of Permethylated Free
 Oligosaccharides and N-glycans Released from Human
 Milk; Xue Dong; Shiyue Zhou; Nadia Tello; Yehia Mechref;
 Texas Tech University, Lubbock, TX
- MP 690 Mass Spectral Patterns Obtained by Field Ionization GC/MS of Methyloxime-TMS-derivatized Primary Metabolites; Takeshi Furuhashi¹; Takemichi Nakamura²;

 RIKEN, Yokohama, Japan; **PIKEN, Wako, Japan
- MP 691 Advanced LC-MS Based Approaches for Orthogonal Determination of N- and O-linked Glycosylation Structures in Therapeutic Proteins; Chen Li¹; Peter Li¹; Douglas Richardson²; Huijuan Li²; Yuetian Chen²; Daisy Richardson²; Mohammed Shameem²; David Pollard²; Shiaw-Lin Wu¹; ¹BioAnalytix, Cambridge, MA; ²Merck & Co, Kenilworth. NJ
- MP 692 Heparan Sulfate Libraries Derived From Robo-1 Affinity Pulldowns; Morgan Stickney¹; David Fischler²; Rongrong Huang²; Joshua S. Sharp²; Jon Amster¹; ¹University of Georgia, Athens, GA; ²Complex Carbohydrate Research Center, UGA, Athens, GA

MONDAY AND TUESDAY POSTERS



These special posters will be displayed Monday through Thursday.

Special iPRG 2015 Study: Differential Abundance Analysis in Label-free Quantitative Proteomics; ; Eugene Kapp⁷; Henry Lam¹⁰; Brett Phinney²; John S. Cottrell³; Michael R. Hoopmann⁴; Sangtae Kim⁸; Thomas Neubert⁵; Magnus Palmblad⁶; Olga Vitek⁸; Susan T. Weintraub¹; ¹Univ. of Texas HSC, San Antonio , TX; ²Univeristy of CA, Davis, Davis, CA; ³Matrix Science, Ltd., London, UK; ⁴Institute for Systems Biology, Seattle, WA; ⁵Skirball Institute, NYUMC, New York, NY; ⁶Leiden University, Leiden, Netherlands; ⁷Walter and Eliza Hall Institute of Medical Researc, Parkville, Australia; ⁸Pacific Northwest National Laboratory, Richland, WA; ⁹Northeastern University, Boston, MA; ¹⁰Hong Kong University of Science and Technology, Hong Kong, Hong Kong

7:30 – 8:00 am..... Set up all Tuesday posters

10:30 am – 1:00 pm.....Odd-numbered posters present

12:00 – 2:30 pm...... Even-numbered posters present 7:30 – 8:00 pm..... Remove all Tuesday posters

and Sampling.......080-099

Instrumentation: New Developments in Ionization

Special Mapping Scientific Pedigrees and Collaborative Patterns using Bibliometrics: Six Former Presidents of the ASMS; Arzu Tugce Guler¹; Cathelijn Waaijer²; Magnus Palmblad¹; ¹Leiden University Medical Center, Leiden, Netherlands; ²Leiden University, Leiden, Netherlands

TUESDAY POSTERS

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	olecules: Quantitative Analysis	
	AMBIENT IONIZATION: APPLICATION	
TP 001	001-028 Optimization and Application of Continuous So	olvent
	Addition and Controlled Elution to Paper Spray	/
	Ionization; Elizabeth Dhummakupt; Michael Wei;	Richard
TP 002	A. Yost; University of Florida, Gainesville, FL Characterization of Sterols in Vegetable Oils by	,
17 002	Transmission Mode Direct Analysis in Real Tim	
	Spectrometry; Rosana Alberici ¹ ; Gabriel Fernand	
	Andréia Porcari ¹ ; Marcos Eberlin ¹ ; Daniel Barrera-	Arellano ² ;
	Facundo Fernandez ³ ; ¹ Thomson Mass Spectrome	
	Laboratory-UNICAMP, Campinas, Brazil; ² Fats and Laboratory-UNICAMP, Campinas, Brazil; ³ Georgia	
	of Technology, Atlanta, GA	msiliule
TP 003	Direct Analysis in Real Time-Mass Spectrometr	rv (DART-
	MS) for the Study of Gas-Surface Heterogeneo	us
	Reactions: Focus on Ozone and PAHs; Shoumi	
	Matthew W. Forbes; Jonathan P.D. Abbatt; Depart	
TP 004	Chemistry, University of Toronto, Toronto, Canada Continuous-Wavelength Laser Desorption Cou	
11 004	ESI/APCI Dual Ion Source for Rapid Characteri	
	of Packaging Materials; Yi Lun Chen; Siou Sian	
	Min Zong Huang; Jentaie Shiea; National Sun Yat-	- Sen
TD 005	University, Kaohsiung, Taiwan	-1-41
TP 005	Direct Analysis from TLC Plate using Matrix As Ionization (MAI); Khoa Hoang; Charles McEwen;	
	Philadelphia, PA	,
	•	

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Proteins: Phosphoproteins	449-462
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Imaging MS: Pharmaceutical Applications	655-667
Imaging MS: Disease Markers	
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Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb	rmination er
Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb Products; Siou Sian Jhang; Min Zong Huang; Je	rmination er entaie
Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb Products; Siou Sian Jhang; Min Zong Huang; Je Shiea; National Sun Yat- Sen University, Kaohsiu	rmination per entaie ung, Taiwan
Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb Products; Siou Sian Jhang; Min Zong Huang; Je Shiea; National Sun Yat- Sen University, Kaohsiu TP 007 Ambient Analysis of Leachable Compounds f	rmination oer entaie ung, Taiwan irom
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Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb Products; Siou Sian Jhang; Min Zong Huang; Je Shiea; National Sun Yat- Sen University, Kaohsiu TP 007 Ambient Analysis of Leachable Compounds f Single-Use Bioreactors with Desorption Elect Ionization Time-of-Flight Mass Spectrometry;	rmination per entaie ung, Taiwan irom rospray Jian Liu ¹ ;
Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb Products; Siou Sian Jhang; Min Zong Huang; Je Shiea; National Sun Yat- Sen University, Kaohsiu TP 007 Ambient Analysis of Leachable Compounds for Single-Use Bioreactors with Desorption Elect Ionization Time-of-Flight Mass Spectrometry; Joseph H Kennedy ² ; Mike Ronk ¹ ; Liliana Marghit	rmination per entaie ung, Taiwan rom crospray Jian Liu¹; oiu¹; Hans
Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb Products; Siou Sian Jhang; Min Zong Huang; Je Shiea; National Sun Yat- Sen University, Kaohsiu TP 007 Ambient Analysis of Leachable Compounds for Single-Use Bioreactors with Desorption Elect Ionization Time-of-Flight Mass Spectrometry; Joseph H Kennedy²; Mike Ronk¹; Liliana Marghit Lee¹; Yasser Nashed-Samuel¹; ¹Amgen, Thousai	rmination per entaie ung, Taiwan rom crospray Jian Liu¹; oiu¹; Hans
Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb Products; Siou Sian Jhang; Min Zong Huang; Je Shiea; National Sun Yat- Sen University, Kaohsiu TP 007 Ambient Analysis of Leachable Compounds for Single-Use Bioreactors with Desorption Elect Ionization Time-of-Flight Mass Spectrometry; Joseph H Kennedy²; Mike Ronk¹; Liliana Marghit Lee¹; Yasser Nashed-Samuel¹; ¹Amgen, Thousai California; ²Prosolia, Inc., Indianapolis, IN	rmination per entaie ung, Taiwan from crospray Jian Liu ¹ ; oiu ¹ ; Hans nd Oaks,
Mass Spectrometry (TG-AMS) for Rapid Deter of Chemical Components in Plastic and Rubb Products; Siou Sian Jhang; Min Zong Huang; Je Shiea; National Sun Yat- Sen University, Kaohsiu TP 007 Ambient Analysis of Leachable Compounds for Single-Use Bioreactors with Desorption Elect Ionization Time-of-Flight Mass Spectrometry; Joseph H Kennedy²; Mike Ronk¹; Liliana Marghit Lee¹; Yasser Nashed-Samuel¹; 'Amgen, Thousai California; 'Prosolia, Inc., Indianapolis, IN TP 008 Gas Chromatography Coupled with ESI/APCI	rmination per entaie ling, Taiwan from crospray Jian Liu ¹ ; oiu ¹ ; Hans and Oaks, Dual
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Min Zong Huang; Jentaie Shiea; National Sun Yat-Sen

Using DART Mass Spectrometry for an Undergraduate Analytical Chemistry Laboratory; Nathan Cunningham; Hong Hanh Nguyen; Joseph A. Loo; UCLA, Los Angeles,

Rapid, Direct Technique for the Discrimination of Meat Tissues Originating from Different Animal Species for Food Authenticity; <u>Sara Stead</u>; Simon Hird; Julia Balog; Alex Hooper; Steve Pringle; Mike Wilson; Mike Morris;

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Waters corp, Manchester, UK

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- TP 011 Integration of GC/LC with ESI+APCI/MS for Analysis of Complicated Mixtures over a Wide Polarity Range; Sy chyi Cheng; Siou Sian Jhang; Min Zong Huang; Jentaie Shiea; National Sun Yat-Sen Univ., Kaohsiung, Taiwan
- TP 012 Direct Quantitative Analysis of Drugs of Abuse in Urine and Saliva; Chris Hopley; Bryan McCullough; Camilla Liscio; LGC, Teddington, UK
- TP 013 Liquid Microxtraction Coupled with Thermal Desorption Electrospray Ionization Mass Spectrometry for Rapid Screening of Veterinary Drug Residues in Foods; Peng Yu Chen; Jo Han Chou; Min Zong Huang; Jentaie Shiea; National Sun Yat- Sen University, Kaohsiung, Taiwan
- TP 014 Mobile Screening of Glycerin Contaminants using
 Paper Spray Portable Mass Spectrometry; Samanthi I
 Wickramasekara; Hongli Li; Dinesh Patwardhan; Steven
 Wolfgang; US Food and Drug Administration, Silver Spring,
- TP 015 Rapid Differentiation of Ganoderma Species by Direct Ionization Mass Spectrometry; Ho-Yi Wong; Bin Hu; Pui-Kin So; Chi-On Chan; Daniel Kam-Wah Mok; Zhong-Ping Yao; Department of Applied Biology & Chemical Technolog, The Hong Kong Polytechnic University, Hong Kong
- TP 016 Molecular Analyses of Algae using Desorption
 Electrospray Ionization (DESI) and Laser Desorption/
 Ionization (LDI) Mass Spectrometry; Dilrukshika S. W.
 Palagama; Raymond E. West III; Dragan Isailovic; The
 University of Toledo, Toledo, OH
- TP 017 Desorption Ionization of Illicit Drugs from Solid Phase Micro-Extraction Fibers at Increasing Temperature;

 Joseph Lapointe¹; Brian Musselman¹; Craig Aurand²;

 ¹Ionsense Inc., Saugus, MA; ²Sigma Aldrich, Bellefonte, PA
- TP 018 Defining Limit of Detection of Mini Surface Acoustic Wave Nebulization Chip by Using Different Types of Mass Spectrometer;; Tao Liang¹; Andrew Dennison²; Sung Hwan Yoon¹; Gloria Yen⁵; Yifan Li⁴; Scott Heron¹; Adam Stokes³; Anthony Walton²; Erik Nilsson⁵; David Goodlett¹; ¹Pharmacy School, University of Maryland Baltimore, Baltimore, MD; ²School of Chemistry, The University of Edinburgh, Edinburgh, UK; ³School of Engineering, The University of Edinburgh, Edinburgh, UK; ⁴Department of Engineering, Northumbria University, Newcastle, UK; ⁵Deurion LLC, Seattle, WA
- TP 019 Rapid Screening and Identification of Designer Drugs in Powders or Plant Materials using Paper Spray Ionization-Mass Spectrometry; Joseph H Kennedy¹; Kevin G. Shanks²; Justin Wiseman¹; Brian C. Laughlin¹; ¹Prosolia, Inc., Indianapolis, IN; ²AIT Laboratories, Indianapolis, IN
- TP 020 Thermal Desorption Electrospray Ionization Mass Spectrometry Combined with Principal Component Analysis for Rapid Classification of Cooking Oils; <u>Ting Hao Chang</u>; Siou Sian Jhang; Min Zong Huang; Jentaie Shiea; National Sun Yat- Sen University, Kaohsiung, Taiwan
- TP 021 Using Desorption Electrospray Ionization with Mass Spectrometry (DESI-MS) to Identify Silicone Oil Contamination on Components; Lance Miller; James Hochrein; Sandia National Laboratories, Albuquerque, NM
- TP 022 DART-MS Determination of Malachite Green and Leucomalachite Green in Fish Extract; Jia Shi¹;

 Xiaokun Duan²; Kai Liu²; Charles C. Liu²; Hongwei Zhao³;

 ¹Sichuan Aquaculture Bureau, Chengdu, Sichuan; ²ASPEC Technologies LTD, Beijing, China; ³Xiangpu Technology, Chengdu, Sichuan
- TP 023 In situ Detection and Imaging of Ergot Alkaloids in Ipomoea tricolor Seeds by LAESI-MS/MS; Gregory
 Boyce¹; Callee Walsh¹; Daniel Panaccione²; ¹Protea
 Biosciences, Morgantown, WV; ²West Virginia University,
 Morgantown, WV

- TP 024 A Continuous Microplasma-Coupled Sampling Device for Real-Time Monitoring of Environmental Quality during Space Missions; Matthew C. Bernier¹; Joel D. Keelor¹; Rosana M. Alberici²; Prabha Dwivedi¹; Daniel B. Gazda³; Thomas F. Limero³; William T. Wallace³; Ariel V. Macatangay⁴; Joshua M. Symonds¹; Thomas M. Orlando¹; Facundo M. Fernandez¹; ¹Georgia Institute of Technology, Atlanta, GA; ²ThoMSon Mass Spectrometry Laboratory, UNICAMP, Campinas, Brazil; ³Wyle Science, Technology, and Engineering Group, Houston, TX; ⁴NASA Johnson Space Center, Houston, TX
- TP 025 Monolayer-Coated Probe Electrospray Ionization
 Mass Spectrometry for Analysis of Individual Small
 Organisms and Single Cells; Jiewei Deng¹; Yunyun Yang²;
 Mingzhi Xu¹; Xiaowei Wang¹; Zhong-Ping Yao³; Tiangang
 Luan¹; 'Sun Yat-Sen University, Guangzhou, China; ²China
 National Analytical Center Guangzhou, Guangzhou, China;

 3The Hong Kong Polytechnic University, Hong Kong SAR,
 China
- TP 026 Analysis of Butylene Glycol Oligomer Samples by Temperature-Rising Direct Analysis in Real Time Mass Spectrometry (TR-DART-MS); Jun Watanabe¹; Kazumasa Kinoshita²; Takao Nishiguchi²; Chikako Takei²; Motoshi Sakakura³; Teruhisa Shiota³; ¹Shimadzu Corporation, Kyoto, Japan; ²Bio Chromato, Inc., Fujisawa, Japan; ³AMR, Inc., Tokyo, Japan
- TP 027 Development of a Simultaneous Analysis Method of Volatile Compounds by DART MS; Takehito Sagawa¹; Keiko Matsumoto²; Jun Watanabe²; Motoshi Sakakura³; Teruhisa Shiota³; ¹S & B Foods Inc., Tokyo, Japan; ²Shimadzu Corporation, Kyoto, Japan; ³AMR, Inc., Tokyo, Japan
- TP 028 DART in Forensic Toxicology Fast and Accurate Detection of Toxicants and Illicit Drugs in Human Blood and Urine Samples; Ying Zhang¹; Wei Zhang¹; Wenfang Zhang¹; Shiyang Qin¹; Daming Zhang¹; Xiaokun Duan²; Xiangtao Chen²; Charles C. Liu²; ¹Beijing Public Security Bureau, Beijing, China; ²ASPEC Technologies LTD, Beijing, China

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- TP 029 Gas-Phase IRMPD Modeling of Deprotonated Peptide Binding Frameworks for Divalent Transition Metal Ions; Robert C. Dunbar¹; Jonathan Martens²; Giel Berden²; Jos Oomens².³; ¹Case Western Reserve Univ, Cleveland, OH; ²Radboud University, Nijmegen, Netherlands; ³University of Amsterdam, Amsterdam, Netherlands
- TP 030 Conformation-Specific IR-UV Double-Resonance Spectroscopy and Structural Analysis of Methyl Esterified Leucine Enkephalin; Nicole Burke; Andrew DeBlase; James Redwine; John Hopkins; Timothy Zwier; Scott McLuckey; Purdue University, Lafayette, IN
- TP 031 Proton Migration in Tryptophan-Containing Radicals Elucidated by Infrared Laser Spectroscopy; Ning Zhao; University of Florida, Gainesville, FL
- TP 032 Unimolecular Decomposition of M(Pro2-H)+ (M=Mg, Ca, Sr, Ba, Mn, Fe, Co, Ni, Cu, Zn) by IRMPD, SORI-CID, and Theoretical Studies; Yasaman Jami Alahmadi; Travis. D Fridgen: Memorial University of NL. St. John's. Canada
- TP 033 Charge Solvation or Salt Bridge: Proton Affinity as a Structural Probe for Protonated Amino Acid Homodimers; Xianglei Kong; Nankai University, Tianjin, China
- TP 034 UltraViolet Action Spectroscopy of Peptidic Diazirines and Their Peptide Ion Complexes; Robert Pepin¹; Frantisek Turecek²; Steen Bronsted Nielsen³; ¹U of Washington, Chemistry, Lakewood, WA; ²University of Washington, Seattle, WA; ³University of Aarhus, Aarhus, Denmark



- TP 035 Towards Probing Hydrogen Bonded Networks and Electron Transfer States through the Characterization of Flurophores; Vaishnavi Rajagopal; Alessandra Ferzoco; Rowland Institute at Harvard, Cambridge, MA
- TP 036 Unravelling Environmental Effects on Light-Harvesters:
 Photodissociation Action Spectroscopy of Gas-Phase
 Chlorophylls and Porphyrins; Sydney Wellman; Rebecca
 Jockusch; Department of Chemistry, University of Toronto,
 Toronto, Canada
- TP 037 "Turn-On" Fluorophores to Probe the Conformation of Gaseous Biomolecules? Martin Czar; Stephen Sciuto;
 Rebecca A. Jockusch; Chemistry Department, University of Toronto, Toronto, Canada
- TP 038 Ultraviolet and Vacuum Ultraviolet Light Sources for Advanced Mass Spectrometry Techniques in Support of Nuclear Non-Proliferation; David Willingham; Benjamin Naes; Mindy Zimmer; Pacific Northwest National Laboratory, Richland, WA

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- TP 039 Strategies for Selective and Non-Selective Oxidative Labeling of Peptides and Proteins in the Gas-Phase via Ion/Ion Reactions; Alice Pilo; Jiexun Bu; Scott McLuckey; Purdue University, West Lafayette, IN
- TP 040 Roles of Metal-Peptide Interactions in Electron Capture Dissociation of Metal-Aβ Complexes; <u>Tao Jiang</u>; Kristina Hakansson; *University of Michigan, Ann Arbor, MI*
- TP 041 Gas-Phase Nucleophilic Substitution in Atmospheric Pressure Photoionization in the Presence of Halogenated Dopants; Tiina J Kauppila¹; Hendrik Kersten²; Thorsten Benter²; ¹University of Helsinki, Helsinki, Finland; ¹University of Wuppertal, Wuppertal, Germany
- TP 042 Multiply Charged Non-Covalent Complexes by UV/Vis-Photodissociation with Electron Transfer Dissociation and Collision-Induced Dissociation; Andy Dang; Christopher Shaffer; Frantisek Turecek; University of Washington, Seattle, WA
- TP 043 Design of Isoxazolium Reagents for the Gas-Phase Amidation of Carboxylic Acids via Ion/Ion Reactions; Zhou Peng; Scott A. McLuckey; Purdue University, West Lafayette. IN
- TP 044 Generation of Hydroxyalkyl Radicals with Photoinitiator and Their Reactions with Cysteinyl Peptides; Sarju Adhikari; Lei Tan; Yu Xia; Purdue University, West Lafayette, IN
- TP 045 Alkali Metal Adduct Radical Cations of Cysteine Derivatives: A Gas-Phase Reactivity and Structural Elucidation Study; Michael Lesslie¹; Sandra Osburn²; Giel Berden³; Jos Oomens³; Michael J. Van Stipdonk⁴; Victor Ryzhov¹; ¹Northern Illinois University, Dekalb, IL; ²Duquesne University, Munhall, PA; ³Radboud University Nijmegen, Nijmegen, Netherlands; ⁴Duquesne University, Pittsburgh, PA
- TP 046 Ion-Ion and Ion-Electron Activation Experiments in a Novel Linear Ion Trap; Dimitris Papanastasiou¹; Alexander Lekkas¹; Diamantis Kounadis¹; Ioannis Orfanopoulos¹; Andreas Mpozatzidis¹; Emmanuel Raptakis²; **Fasmatech, Athens, Greece; **Fasmatech SA, Athens, Greece
- TP 047 Bending Gold(I) Dicoordinate Complexes to Switch on C-X σ-Bond Activation; Athanasios Zavras¹;
 Abderrahmane Amgoune²; Didier Bourissou²; Richard A. J. O'hair¹; ¹University of Melbourne, Victoria, Australia; ²universite Paul Sabatier, Toulouse, France
- TP 048 Considerations for Attaining Improved ETD
 Performance for Top Down Applications; Christopher
 Mullen; Lee Earley; Chad Weisbrod; John E. P. Syka; JeanJacques Dunyach; Thermo Fisher Scientific, San Jose, CA

- TP 049 Conformational Differences of Leucine-Enkephalin Complexes Evaluated using Gas-Phase Hydrogen/
 Deuterium Exchange; Yinjuan Chen¹; Lei Yue²; Xunlei Ding³; Yuanjiang Pan²; Chuan-Fan Ding¹; ¹Fudan University, Shanghai, China; ²Zhejiang University, Hangzhou, China; ³North China Electric Power University, Beijing, China
- TP 050 Gas-Phase Ion/Molecule Reaction of CO₂ with Anilide Anions; Chongming Liu; Athula B. Attygalle; Stevens Institute of Technology, Hoboken, NJ
- TP 051 Gas-Phase Click Chemistry: 1,3-dipolar Cycloaddition of Alkynes with Azides via Ion/Ion Reactions; <u>Jiexun Bu;</u> Scott McLuckey; *Purdue University, West Lafayette, IN*
- TP 052 Impact of a Localized Radical Site on Dissociation of Peptides Modified Using an Alkyl-Nitroxide Spin Label Reagent; Julia Aponte; Jennifer Brodbelt; University of Texas Austin, Austin, TX
- TP 053 Identification of the Protonated Carboxylic Acid Functionality and Differentiation of Protonated Isomeric Hydroxybenzoic Acids via Regioselective Ion-Molecule Reactions; Rayikiran Yerabolu¹; John Kong¹; Joann Max¹; Raghavendhar Kotha¹; Minli Zhang²; Hilkka Kenttamaa¹; ¹Purdue University, West Lafayatte, Indiana; ²AstraZeneca, Roston, MA
- TP 054 Which Ion and Neutral Multipole and Anisotropic Polarizability Terms are Important in Ion—Molecule Collision Rates in Extreme Temperature Environments? Kent M. Ervin; University of Nevada, Reno, Reno, NV
- TP 055 Apparent Activation of H2O and Elimination of H2 from Gas-Phase Mixed Metal Complexes; Sandra Osburn; Alexandra Plaviak; Michael J. Van Stipdonk; Duquesne University, Pittsburgh, PA
- TP 056 Integrated Ion Dynamics Simulations in OpenFOAM:
 Flow, Transport, Chemical Reactions and SpaceCharge; Walter Wissdorf; Thorsten Benter; University of
 Wuppertal, Wuppertal, Germany
- TP 057 A Comparison of the Reactions of N-Methyl-6-dehydroquinolinium Cation with Nucleosides and Dinucleoside Phosphates in the Gas Phase and Aqueous Solution; Joann Max; Ashley Wittrig; Fanny Widjaja; Hilkka Kenttämaa; Purdue University, West Lafayette, IN
- TP 058 Conformational Effects on the Proton Affinity of Lysine Homolog Containing Oligopeptides Studied by Mass Spectrometry and Infrared Multiphoton Dissociation Spectroscopy; Patrickhenry Batoon; Jianhua Ren; University of the Pacific, Stockton, CA
- TP 059 Probing Chemistry Using Molecular Beams and Vacuum Ultraviolet Synchrotron Radiation; Biswajit
 Bandyopadhyay; Yigang Fang; Oleg Kostko; Musahid
 Ahmed; Lawrence Berkeley National Laboratory, Berkeley, California
- TP 060 Identification of the N-Monosubstituted N-Hydroxylamino Functionality in Protonated Analytes via Ion/Molecule Reactions in Tandem Mass Spectrometry; John Kong¹; Huaming Sheng¹; Weijuan Tang¹; Ravikiran Yerabolu¹; Peggy Williams¹; Minli Zhang²; Hilkka Kenttämaa¹; ¹Purdue University, West Lafayette, IN; ²AstraZeneca, Boston, MA

INSTRUMENTATION: GENERAL 061-079

- TP 061 PALMS: A Parallel Computational Engine for SIMION Simulating Multiple Ion Interactions; Konstantin Novoselov; Vladimir M. Doroshenko; Alexander Misharin; MassTech, Inc., Columbia, MD
- TP 062 Optimization of Ion Trap Isolation Methodology for Simultaneous Precursor Selection at the MS Level;

 Philip M Remes¹; Romain Huguet¹; Jarrett Egertson²;

 Michael J. Maccoss²; Vlad Zabrouskov¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Univ of Washington, Seattle, WA



- TP 063 Tracing Ions and Visualizing Charged Clusters in the Aerolens Under Transitory Gas Flow Conditions;

 Emmanuel Raptakis¹; Diamantis Kounadis¹; Alexander Lekkas¹; Athanasios Zacharos³; Ioannis Nikolos³; Dimitris Papanastasiou²; ¹Fasmatech SA, Athens, Greece; ²Fasmatech, Athens, Greece; ³Technical University of Crete, Chania, Greece
- TP 064 Sub 500ps Magnetic Ion Detector with Extended Operating Life; Dick Stresau; Yair Benari; Kevin Hunter; Peter Raffin; Wayne Sheils; Sid Sondur; Scott Morgan; ETP Electron Multipliers, Clyde, Australia
- TP 065

 Every Ion Counts: Optimization of the Quadrupole Mass Spectrometer for Improved Ion Transmission and Flat-Top Peaks; Mariya J. Antony Joseph¹; Simon Maher¹-²; Fred P. M. Jjunju¹; S. U. A. H. Syed³; John R. Gibson¹; Iain S. Young²; Ron M. A. Heeren³; Stephen Taylor¹; ¹Dept. of Electrical Engineering and Electronics, University of Liverpool, UK; ²Institute of Integrative Biology, University of Liverpool, UK; ³FOM Institute for Atomic and Molecular Physics, Amsterdam, Netherlands
- TP 066 Improve Single Reaction Monitoring (SRM) Screening Speed by Using Parallel System Design on Mass Spectrometer Control System; Qingyu Song; Eric Hemenway; Jew-Dong Kuo; Mary Blackburn; Thermo Fisher Scientific, San Jose, CA
- TP 067 A New High-Resolution, Temperature-Variable Ion Mobility Mass Spectrometer; Jakub Ujma¹; Kevin Giles²; Michael Morris²; Perdita Barran¹; ¹The University of Manchester, Manchester, UK; ²Waters Corporation, Wilmslow, UK
- TP 068 Next Generation Long Life Discrete-Dynode Detector; Kevin Hunter; Russell Jurek; Dick Stresau; Scott Morgan; Wayne Sheils; ETP Electron Multipliers, Clyde, Australia
- TP 069 Massively Parallel Simion Model of Quadrupole Analyzer Peak Shape; Ken Newton; Agilent Technologies, Santa Clara. CA
- TP 070 Enabling Fast Prototyping and Customization of Mass Spectrometer Control Software; <u>Jeff Brown</u>; Emmy Hoyes; Richard Newton; Christopher Jones; Darren Hewitt; Wright Steven; Rennie Birch; David Langridge; Keith Richardson; Richard Chapman; *Waters Corporation, Wilmslow, UK*
- TP 071 Simulation Results for Tolerance of Misalignment in Six Degrees of Freedom in Ceramic Plate Linear Ion Traps;

 Qinghao Wu; Yuan Tian; Ailin Li; Daniel Austin; Brigham Young University, Provo, UT
- TP 072 Fully Automated On-Line Sample Extraction and Analysis of Residual Pesticides in Agricultural Products by using On-Line SFE-SFC-MS; Takanari Hattori¹; Takato Uchikata¹; Hidetoshi Terada¹; Chigusa Ichikawa¹; Yasuhiro Funada¹; Yayoi Ichiki²; Miho Sakai³; Takashi Ando³; Yoshihiro Izumi⁴.⁵; Eiichiro Fukusaki⁵; Takeshi Bamba⁴.⁵; ¹Shimadzu Corporation, Kyoto, Japan; ²Miyazaki Enterprise Promotion Organization, Miyazaki, Japan; ³Miyazaki Agricultural Research Institute, Miyazaki, Japan; ⁴Kyushu University, Fukuoka, Japan; ⁵Osaka University, Suita, Japan
- TP 073 Surface Induced Dissociation Utilized to Characterize Protein Complexes Trapped in the Trap Cell of a Q-TOF Instrument; Jing Yan¹; Sophie R. Harvey¹; Jeff Brown²; Emmy Hoyes²; Vicki H. Wysocki¹; ¹The Ohio State University, Columbus, OH; ²Waters Corporation, Wilmslow, UK
- TP 074 Ion Mobility-Selected Trapping and Enrichment in Structures for Lossless Ion Manipulations (SLIM);

 Tsung-Chi Chen; Jeremy A. Sandoval; Spencer A. Prost; William E. Karnesky; Xing Zhang; Ian K. Webb; Ahmed M. Hamid; Randolph V. Norheim; Erin S. Baker; Yehia M. Ibrahim; Richard D. Smith; Pacific Northwest National Laboratory, Richland, WA

- TP 075 Velocity Distribution Measurement of Fullerene lons with and without Quadrupole Fields; Avinash Patil; Sin-Ciang Jiang; Kai-Chun Yen; Szu-Wei Chou; Wen-Ping Peng; National Dong Hwa University, Shoufeng, Hualien, Taiwan
- TP 076 Enhancing Ion Sampling Efficiency, Ion Transmission and Detection on a Triple Quadrupole Platform; Natsuyo Asano; Manabu Ueda; Wataru Fukui; Tairo Ogura; Kazuo Mukaibatake; Shimadzu Corporation, Kyoto, Japan
- TP 077 Quantifying and Improving the Lifetime of Hybrid
 Detectors; Stephen Ritzau; Matthew Breuer; Bruce
 Laprade; Jason Alston; PHOTONIS USA, Sturbridge, MA
- TP 078 High-Throughput Serum Peptide Profiling of a Clinical Cancer Cohort on a Novel MALDI-TOF-MS Platform; Yuri E.M. Van Der Burgt²; Hans Dalebout²; Simone Nicolardi²; Marco R. Bladergroen²; Wilma E. Mesker¹; Rob A.E.M. Tollenaar¹; Magnus Palmblad²; ¹Leiden University Medical Center, Leiden, Netherlands; ²Center for Proteomics and Metabolomics, LUMC, Leiden, Netherlands
- TP 079 Trajectory Calculations of Space Charge Effects in Ion Traps via an Iterative Solution of the Poisson Equation; David Langridge; Waters, Wilmslow, UK

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- TP 080 Characterizing an ESI-MS Interface Based on the Ion Utilization Efficiency; Jonathan Cox¹; Ioan Marginean²; Richard Smith¹; Keqi Tang¹; ¹Pacific Northwest National Laboratory, Richland, WA; ²GWU, Washington, DC
- TP 081 The Correlations between lons and Neutrals in Matrix-Assisted Laser Desorption/Ionization; I-Chung Lu; Yuan Tseh Lee; Chi-Kung Ni; Institute of Atomic and Molecular Sciences, Academ, Taipei, Taiwan
- TP 082 Aerodynamic Focusing Extractive Electrospray Ionization; Bijay Banstola; Fabrizio Donnarumma; Kermit K. Murray; Louisiana State University, Baton Rouge, LA
- TP 083 Soft Ionization, NIST identification and Capabilities for Quantitative Analysis in Conditioned Glow Discharge Ion Source; Alexander Kolosov; Anatoly Verenchikov; MSC-CG. Bar. Montenegro
- TP 084 Development of a Paper Spray Cartridge with Integrated SPE to Improve Sensitivity for Drug Detection;

 Chengsen Zhang; Nicholas Manicke*; IUPUI, Indianapolis,
- TP 085 Thermal Analysis-Photo Ionization Mass Spectrometry (TA-PIMS) for Analysis of Crude Oils and Toxic Tricresylphosphates in Jet-Turbine Oils; Mohammad Reza Saraji-Bozorgzad¹; Thorsten Streibel²; Robert Geissler³; Andreas Walte⁴; Thomas Denner⁵; Ralf Zimmermann⁶; ¹Photonion GmbH, Neuherberg, Germany; ²University Rostock, Rostock, Germany; ³Helmholtz Zentrum München, Munich, Germany; ⁴Photonion GmbH, Schwerin, Germany; ⁵Netzsch Gerätebau GmbH, Selb, Germany; ⁵University of Rostock, Rostock, N/A
- TP 086 Catalytic Effects of Electrosprayed Molecular Ions; Abraham Badu Tawiah; Ohio State University, Columbus, OH
- TP 087 Methodologies for Reducing the Charge of Electrospray Generated lons; Liang Wang; Peter T A Reilly; Washington State University. Pullman. WA
- TP 088 Development of a High-Flux Ion Soft-Landing Instrument for Preparation of Cluster-Based Supercapacitor Devices; Venkateshkumar Prabhakaran; Don Gunaratne; Yehia Ibrahim; Randolph Norheim; Grant Johnson; Julia Laskin; Pacific Northwest National Laboratory, Richland, WA
- TP 089 Suppressing the Background Interference and Enhancing the Performance of Electrospray Ionization Mass Spectrometry by Doping Concentrated Gaseous Acetonitrile; Fangjun Wang; Hanfa Zou; , Dalian, China



- TP 090 Multiplexed Tandem Mass Spectrometry by Modulation of Ionization Efficiency; Sepideh Rahbarirad; Andre Venter; Western Michigan University, Kalamazoo, MI
- TP 091 A Demonstration of the Organic Detection Capabilities of a Two Step Laser Desorption/Ionization Time-of-Flight Mass Spectrometer; Kyle Uckert¹; Stephanie Getty²; Andrej Grubisic³; Xiang Li⁴; William Brinckerhoff²; Timothy Cornish⁵; Nancy Chanover¹; Jamie E. Elsila²; Richard Zare⁶; ¹New Mexico State University, Las Cruces, NM; ²NASA GSFC, Greenbelt, MD; ³University of Maryland, College Park, MD; ⁴University of Maryland, Baltimore County, Greenbelt, MD; ⁵C&E Research, Inc., Columbia, MD; ⁵Stanford University, Stanford, Ca
- TP 092 A Universal Source for Ionization of Polar and Nonpolar Compounds: Testing Its Applicability to Petroleomic Studies; Heliara Lopes Nascimento¹; Marcos Pudenzi¹; Vanessa Santos¹; Celio Fernando Angolini¹; Pedro Vendramini¹; Jose Luiz Jara¹; Rosana Cardoso Lopes Pereira²; Wagner Leonel Bastos²; Michael Murgu³; Marcos N. Eberlin¹; ¹thomson Unicamp- Brazil, Sao Paulo, Brazil; ²Petrobras, RJ, Brazil; ³Waters Brazil, Barueri, SP Brazil
- TP 093 Selective Ionization of Carboxylic Acids for Positive Ion Tandem Mass Spectrometric Analyses in Complex Environmental and Bioanalytical Samples; Kyle

 D. Duncan¹,²; Erik T. Krogh¹,²; Christopher G. Gill¹,²;
 ¹University of Victoria, Victoria, BC, Canada; ²Appl. Env. Res. Labs. (AERL), Nanaimo, BC, Canada
- TP 094 Understanding the Relationship of Silicon Surface Morphologies and their Nanostructure-Initiator Mass Spectrometry (NIMS) Sensitivity; <u>Jian Gao</u>; Markus De Raad; Ron Zuckermann; Trent Northen; <u>Lawrence Berkeley National Lab</u>, <u>Berkeley</u>, <u>CA</u>
- TP 095 The PhoTorrent™ Atmospheric Pressure
 Photoionization (APPI) Source Utilized for High
 Efficiency Photoionization of Testosterone and 25-OH
 Vitamin D3; Ellie Majdi; Frenny Ruparelia; Sha Joshua Ye;
 IONICS Mass Spectrometry, Bolton, Canada
- TP 096 Enhancing Ion Abundances of Oligosaccharides by the Marangoni Effect in MALDI Mass spectrometry; Yin-Hung Lai; Yi-Hong Cai; Yi-Sheng Wang; Genomics Research Center, Taipei, Taiwan
- TP 097 The Use of Bursting Bubbles for the Specific Enrichment and Direct Molecular Analysis of Chemicals in Bulk Solution; Yunfeng Cai; Konstantin Chingin; Juchao Liang; Eric Handberg; Huanwen Chen; East China Institute of Tech., Nanchang, China
- TP 098 Signal Decrease and Recovery in MALDI and Guidelines for Choosing New Matrices; Chih-Yuan Lin¹; I-Chung Lu²; Jien Lian Chen¹; Hou-Yu Lin¹; Yuan Tseh Lee¹; Chi-Kung Ni¹; ¹Institute of Atomic and Molecular Sciences, Academ, Taipei, Taiwan; ²academia Sinica, Taipei, Taiwan
- TP 099 Laser Desorption-Radio Frequency Ionization (LD-RFI); Matthew R. Brantley; Abayomi D. Olaitan; Touradj Solouki; Department of Chemistry and Biochemistry, Baylor University, Waco, TX

HIGH MAS ACCURACY/HIGH PERFORMANCE MS: APPLICATIONS 100-117

- TP 100 Characterization of Dissolved Organic Matter from Brazilian Marine and Fresh Water by High Resolution Mass Spectrometry; Jose Javier Melendez; Marcos Eberlin; , Campinas, Brazil
- TP 101 Pharmaceutical Impurity Profiling on a Novel Q-TOF Platform with Particle SWARM Optimization Technology and Optimized Beam Shaping Optics; Christian Klein¹; Dorothy Yang¹; Ken Imatani¹; Pat Sandra²; Koen Sandra²;

 ¹Agilent Technologies, Santa Clara, CA; ²RIC, Kortrijk, Belgium

- TP 102 Development of Un-targeted Screening Method for Detection of Synthetic PDE-5 Inhibitor Drugs and Analogues Adulterated in Health Supplements on LCMS-IT-TOF; Jie Xing¹; Dinash Aravind²; Zhe Sun¹; May Yen Ang³; Zhaoqi Zhan¹; ¹Shimadzu (Asia Pacific) Pte Ltd, 79 Science Park, Drive #02-01/08, Singapore 118264; ²National Pharmaceutical Control Bureau, Jalan, Universiti, 46200 Petaling Jaya, Selangor, Malaysia; ³Shimadzu Malaysia Sdn Bhd, Kota Damansara,, 47810 Petaling Jaya, Selangor. Malaysia
- TP 103 Comprehensive Characterization of Low Molecular Weight Heparins Using High Resolution Mass Spectrometry; Annu Uppal; Dipankar Malakar; Faraz Rashid; Manoj Pillai; SCIEX, 121, Udyog Vihar, Phase IV, Gurgaon, Haryana, India
- TP 104 Forensic Analysis of Brand and Imitation Perfume
 Samples with GC, GC×GC, and HR-TOFMS; Elizabeth
 Humston-Fulmer; Michelle Page; Joe Binkley; LECO
 Corporation. St. Joseph. MI
- TP 105 Specific LC-High-Resolution-MS Guidelines for the Validation of Quantitative Methods and Intraday Assays;
 Baptiste Grund¹; Hugues Henry¹; Maciej Bromirski²;
 Bertrand Rochat¹; ¹CHUV, Lausanne, Switzerland; ²Thermo Fisher Scientific. Bremen. Germany
- TP 106 Characterization of humic acid from Brazilian soils by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Monica Johanna Martinez Mejia; Susanne Rath; Marcos Nogueira Eberlin; UNICAMP, Campinas, Brazil
- TP 107 Structural Characterization of MS/MS Product Ions
 Selected for the Detection of Regulated Veterinary
 Drugs; Alberto Nuñez; Steven Lehotay; USDA-ARS-ERRC,
 Wyndmoor. PA
- TP 108 A High Resolution Accurate Mass Approach for the Quantitation of Buprenorphine and Paroxetine in Rat Plasma; Keeley Murphy¹; Jonathan L. Josephs²; Maciej Bromirski³; Olaf Scheibner⁴; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Scientific, West Windsor, NJ; ³Thermo Fisher Scientific GmbH, Bremen, N/A; ⁴Thermo Fisher Scientific, Bremen, Germany
- TP 109 Enhancing Precursor and Product Ion Alignment of Chimeric Spectra; Roy Martin; Steve Ciavarini; Brad Williams; Scott Geromanos; Waters Corporation, Milford, MA
- TP 110 Core Facility Workflow for Characterization of Intact
 Proteins via High Resolution Mass Spectrometry; Andre
 Bui; John O'brien; Maria Person; University of Texas,
 Austin, TX
- TP 111 Interpretation of Two-Dimensional FT-ICR Mass Spectra: Noise, Phase and Isotopes; Maria van Agthoven¹; Mark Barrow¹; Lionel Chiron²; Marie-Aude Coutouly⁴; Christopher Wootton¹; Federico Floris¹; Marc-André Delsuc³; Christian Rolando⁵; Peter B. O'connor¹; ¹University of Warwick, Coventry, UK; ²CASC4DE, Illkirch-Graffenstaden, France; ³IGBMC, Illkirch-Graffenstaden, France; ⁵Université Lille 1, Sciences et Technologies, Villeneuve d'Ascq, France
- TP 112 Improved Characterization of Complex Proteins using Middle-Down 193 nm Ultraviolet Photodissociation;
 Victoria C. Cotham; Jennifer S. Brodbelt; University of Texas at Austin, Austin, TX
- TP 113 Sensitive Negative Chemical Ionization, Accurate Mass as Resolution and Detection Power–a New Approach to Analysis of Chlorinated Paraffins by GC/Q-TOF; Wei Gao¹; Yawei Wang¹; Wenwen Wang²; ¹Research Center for Eco-Environmental Sciences, Beijing, China; ²Agilent Technologies, Beijing, China



- TP 114 A Streamlined Workflow for the Profiling of Impurities Using High Resolution Accurate Mass Spectrometry; Jason Causon; AB SCIEX, Warrington, UK
- TP 115 Exploring the Complexity of Yeast Using Enhanced Chromatographic/Mass Spectral Resolution; David Alonso; Jeff Patrick; Joe Binkley; Leco Corporation, St. Joseph. MI
- TP 116 Peptide de novo Sequencing via Paired Single Residue-Transposed Digestions and Ultrahigh Resolution Fourier Transform Ion Cyclotron Resonance Tandem Mass Spectrometry; Naomi Brownstein^{1, 2}; Xiaoyan Guan¹; Yuan Mao³; Qian Zhang²; Peter DiMaggio⁴; Qiangwei Xia^{2, 3}; Lichao Zhang⁵; Alan Marshall⁶; Nicolas L. Young⁷; ¹National High Magnetic Field Lab, Tallahassee, FL; ²Florida State University, Tallahassee, Florida; ³Regeneron Pharmaceuticals, Inc., Tarrytown, NY; ⁴Imperial College London, South Kensington Campus, London, UK; ⁵University of Virginia, Charlottesville, VA; ⁶Ion Cyclotron Resonance Prog, Tallahassee, FL; ⁷NHMFL / FSU, Tallahassee, FL
- TP 117 Low-Abundance Isotope Enrichment in Individual Muscle Proteins Measured by High-Resolution Mass Spectrometry; Kelly Hines^{1, 2}; G. Charles Ford¹; Katherine Klaus²; Brian Irving²; Beverly Ford¹; Kenneth Johnson³; Ian Lanza^{1, 2}; K. Sreekumaran Nair^{1, 2}; ¹Mayo Clinic Metabolomics Resource Core, Rochester, MN; ²Mayo Clinic Division of Endocrinology, Rochester, MN; ³Mayo Clinic Medical Genome Facility Proteomic Core, Rochester, MN

HIGH MASS ACCURACY/HIGH PERFORMANCE MS: INSTRUMENTATION 118-126

- TP 118 Simulation of Off-Axis Ion Motion and Its Effect on Performance of a Dynamically Harmonized FT-ICR Analyzer Cell; Joshua Driver²; Jon Amster¹; Andriy Kharchenko³; Ron M.A. Heeren⁴; ¹University of Georgia, Athens, GA; ²Univ of Georgia, Athens, GA; ³FOM Institute for Atomic and Molecular Physics, Amsterdam, Netherlands; ⁴FOM Institute AMOLF, Amsterdam, Netherlands
- TP 119 Investigation of Self-Calibrated, Fine-Isotope-Line Fit Scoring in Combined HPLC-Fourier Transform Orbital Trapping MS for Candidate Formulae Elimination;

 Yongdong Wang; Ming Gu; Cerno Bioscience, Norwalk, CT
- TP 120 Non-Destructive Determination of Total Trapped Ion Charge Prior to Analysis by FT-ICR MS; Steve Beu¹; Christopher L. Hendrickson².³; ¹S C Beu Consulting, Austin, TX; ²National High Magnetic Field Lab, Tallahassee, FL; ³Florida State University, Tallahassee, FL
- TP 121 Dynamic Range Extension in FT-ICR Mass Spectrometry by Spectral Segmentation; Logan C. Krajewski¹; Christopher L. Hendrickson¹,²; Christie G. Enke³; Alan G. Marshall¹,²; ¹Department of Chemistry and Biochemistry, FSU, Tallahassee, FL; ²National High Magentic Field Laboratory, FSU, Tallahassee, FL; ³University of New Mexico. Placitas. NM
- TP 122 Absorption Mode Gets Even Better with its Svelte
 New Curves; David Kilgour¹; Konstantin Nagornov²;
 Steven Van Orden³; Anton Kozhinov²; Konstantin Zhurov²;
 Yury Tsybin².⁴; David Goodlett¹; ¹University of Maryland
 Baltimore, Baltimore, MD; ²Ecole Polytechnique Fédérale,
 Lausanne, Switzerland; ³Bruker Daltonics Inc., Billerica, MA;

 *Spectroswiss Sàrl. Lausanne, Switzerland
- TP 123 A Novel Method of m/z Drift Correction for oa-TOF Mass Spectrometers based on Construction of Libraries of 'Matrix' Components; Martin Green; Keith Richardson; Martin Palmer; Nick Tomczyk; Waters Corporation, Manchester, UK
- TP 124 Improvements for High-Resolution Analysis on a Modified Tribrid Mass Spectrometer; Jesse D.

 Canterbury¹; Nick Izgarian¹; Michael W. Senko¹; Eduard Denisov²; Alexander Makarov²; Thermo Fisher Scientific,

- San Jose, CA; ²Thermo Fisher Scientific (Bremen) GmbH, Bremen, Germany
- TP 125 Generation of Absorption-Mode FT Mass Spectra from a Commercial Data Station; Greg T. Blakney¹; Donald F. Smith¹; Nathan K. Kaiser¹; Steven C. Beu²; Alan Marshall¹.³; Christopher L. Hendrickson¹; ¹National High Magnetic Field Laboratory, Tallahassee, FL; ²S C Beu Consulting, Austin, TX; ³Dept of Chemistry/Biochemistry, Florida State Univ, Tallahassee, FL
- TP 126 Frequency Multiplication for High-Throughput
 Fourier-Transform Ion Cyclotron Resonance Mass
 Spectrometry; Tzu-Yung Lin¹; Mikhail V. Gorshkov²;
 Aleksey V. Tolmachev¹; Jared B. Shaw¹; Rosalie K. Chu¹;
 Richard Harkewicz¹; R. James Ewing¹; Mowei Zhou¹; David
 W. Koppenaal¹; Errol W. Robinson¹; Ljiljana Pasa-Tolic¹;
 ¹Pacific Northwest National Lab, Richland, WA; ²INEPCP
 RAS. Moscow, Russian Federation

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- **Democratizing and Expanding the Reach of DIA Mass** TP 127 Spectrometry: Developing OpenSWATH tools and Workflows within User-Friendly Galaxy-P Platform; Pratik Jagtap^{1,6}; Sarah Parker²; Bjoern Gruening³; Ira Cooke⁴; Hannes Roest⁵; George Rosenberger⁵; James Johnson⁶; Laurie Parker⁶; Jennifer Van Eyk²; Ruedi Aebersold^{7, 8}; Timothy Griffin^{1, 6}; ¹Center for Mass Spectrometry and Proteomics, UMN, St.Paul, MN: ²Advanced Clinical Biosystems Research Institute, Los Angeles, CA; 3University of Freiburg, Freiburg, Germany; ⁴La Trobe University, Melbourne, Australia; ⁵ETH Zurich, Zürich, SWITZERLAND; 6University of Minnesota, Minneapolis, MN; ⁷Department of Biology, IMSB, ETH Zurich, Zurich, Switzerland; 8Faculty of Science, University of Zurich. Zurich. Switzerland
- TP 128 Protein Quantitation Combining MS and MS/MS Data with Intelligent Workflows; Arzu Tugce Guler; Magnus Palmblad; Leiden University Medical Center, Leiden, Netherlands
- TP 129 A Pipeline for Integration and Visualization of Breast Cancer Subtype-Specific Peptidome; John A. Wrobel¹; Harsha P. Gunawardena¹; Jonathon O'Brien¹; Ling Xie¹; Kelly Ruggles²; David Fenyo²; Sherri Davies³; Bhajat Qaqish¹; Ding Li³; Reid Townsend³; Matthew Ellis³; Xian Chen¹; ¹University of North Carolina at Chapel Hill, Chapel Hill, NC; ²NYU Langone Medical Center, New York, NY; ³Washington University School of Medicine, St. Louis, MO
- TP 130 BatMass: Developer Friendly Extensible Software Platform for Visualization and Analysis of Raw MS Data and Processed Results; Dmitry Avtonomov; Chih-Chiang Tsou; Alexander Raskind; Alexey Nesvizhskii; University of Michigan, Ann Arbor, MI
- TP 131 Plugging Proteomics Peptide-Spectral Match Visualization into Galaxy; James Johnson¹; Thomas McGowan¹; Ira Cooke²; John Chilton³; Pratik Jagtap⁴; Timothy J. Griffin¹; ¹University of Minnesota, Minneapolis, MN; ²La Trobe University, Melbourne, Australia; ³Penn State University, State College, PA; ⁴Center for Mass Spectrometry and Proteomics, UMN, St.Paul, MN
- TP 132 Panorama Public: A Public Repository for Skyline Documents; Vagisha Sharma¹; Josh Eckels²; Birgit Schilling³; Jacob D. Jaffe⁴; Michael J. Maccoss¹; Brendan Maclean¹; ¹University of Washington, Seattle, WA; ²LabKey Software, Seattle, WA; ³Buck Institute for Research on Aging, Novato, CA; ⁴The Broad Institute, Cambridge, MA
- TP 133 Mass Spectrometry Quality Control: Instrument
 Monitoring and Pattern Mining Insights; Wout
 Bittremieux¹; Hanny Willems²; Lennart Martens³; Dirk
 Valkenborg²; Kris Laukens¹; *1University of Antwerp, Antwerp,
 Belgium; *2VITO, Mol, Belgium; *3University of Ghent, Ghent,
 Belgium



- TP 134 Performing Quality Control on Targeted Proteomics Assays using Skyline and Panorama; Josh Eckels¹; Vagisha Sharma³; Yuval Boss³; Huilin Shi³; Tom Dunkley⁴; Kristin Wildsmith⁵; Cory Nathe²; Aaron Robinson²; Richard S. Johnson⁶; Jacob D. Jaffe⁻; Michael J. Maccoss³; Brendan Maclean³; ¹LabKey Software, San Diego, CA; ²LabKey Software, Seattle, WA; ³University of Washington, Seattle, WA; ⁴F. Hoffmann-La Roche Ltd, Basel, Switzerland; ⁵Genentech, Inc, San Francisco, CA; ⁶University of Washington, Mercer Island, WA; ¹The Broad Institute, Cambridge, MA
- TP 135 API Controlled In-Depth Proteome Analysis by Utilizing an Inter-LC Run Logic on Benchtop Orbitrap MS;

 Andreas Kuehn; Yue Xuan; Katja Tham; Mathias Mueller;
 Florian Grosse-Coosmann; Oliver Lange; Markus Kellmann;
 Torsten Ueckert; Christoph Henrich; Thermo Fisher
 Scientific, Bremen, Germany
- TP 136 Enterprise Mass Spectrometry Software Enabling Biopharmaceutical Characterization from Discovery and Development to Production and Quality Control; Joe Shambaugh¹; Alessio Ceroni²; Arnd Brandenburg³; Claudio Schmid³; Peter Haberl²; ¹Genedata Inc, Lexington, MA; ²Genedata GmbH, Munich, Germany; ³Genedata AG, Basel. Switzerland
- TP 137 Quadrupole Time-Of-Flight Mass Spectrometry:
 Powerful Tool for Demystifying Traditional Chinese
 Medicine; Zheng-Xiang Zhang; Tao Bo; Agilent
 Technologies (China), Beijing, China
- TP 138 The MassIVE Repository for Community Reanalysis of Proteomics Big Data; Jeremy Carver; Mingxun Wang; Nuno Bandeira; University of California, San Diego, La Jolla, CA
- TP 139 RAId: a Knowledge Integrated Proteomics Web Service with Accurate Statistical Significance Assignment;
 Aleksey Ogurtsov; Gelio Alves; Yi-Kuo Yu; National Center for Biotechnology Information, NLM, Bethesda, MD
- TP 140 A Platform for Consolidating and Reconciling Information from GC/MS and LC/MS Analyses of Mixtures or Materials; Graham A. McGibbon; Karim Kassam; Brett Pautler; ACD/Labs, Toronto, Canada

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- TP 141 Host Cell Protein Analysis in Biotherapeutics by Liquid Chromatography-Mass Spectrometry Using Data-Independent MS Data Acquisition Workflows; Yuanwei Gao¹; Simion Kreimer¹; Mi Jin²; Zhijun Tan²; Nesredin Mussa²; Li Tao²; Zhengjian Li²; Alexander R. Ivanov¹; Barry L. Karger¹; ¹Barnett Inst., Northeastern University, Boston, MA; ²Bristol-Myers Squibb, Hopkinton, MA
- TP 142 Development of Data Independent Acquisition for Global Protein Adduct Analysis Applications to the Exposome; Caleb Porter; Michael Bereman; North Carolina State University, Raleigh, NC
- TP 143 Targeted Phosphoproteomics of Signal Transduction and Kinase-Substrate Analysis Using Data-Independent Acquisition Mass Spectrometry; Benjamin Parker¹; Guang Yang¹; Sean Humphrey²; Rima Chaudhuri¹; Xiuquan Ma³; Scott Peterman⁴; David James¹; ¹The University of Sydney, Sydney, Australia; ²Max Planck Institute for Biochemistry, Martinsried, Germany; ³Garvan Institute, Sydney, Australia; ⁴Thermo Fisher Scientific, Grimes, IA
- TP 144 SWATH Profiling of MAPK Pathway Mutant Cancer
 Cell Lines Reveals Similarities in response to drug
 inhibition independent of cell type; Christoph Krisp;
 Matthew Mckay; Mark Molloy; Australian Proteome Analysis
 Facility, Sydney, Australia
- TP 145 Quantitative Analysis of Endogenous Peptides in Human Saliva by the WiSIM-Data Independent Acquisition Approach; Yiying Zhu¹; Gordon Proctor²;

- Markus Hardt¹; ¹The Forsyth Institute, Cambridge, MA; ²King's College Dental Institute, London, UK
- TP 146 Stratification of Histologically Indistinguishable Prostate Cancer Tissue Biopsy Samples Using Quantitative Proteotypes Obtained by PCT-SWATH; Tiannan Guo¹; Li Li²; Ulrich Wagner³; Qing Zhong³; Christine Fritz³; Christian Fankhauser³; Cedric Poyet³; Rebecca Hartmann³; Andreas Beyer²; Peter Wild³; Ruedi Aebersold¹.⁴; ¹Dep Biol,Inst Mol Sys Biol, ETH Zurich, Zurich, Switzerland; ²CECAD, University of Cologne, Cologne, Germany; ³Institute of Surgical Pathology, University Hospit, Zürich, Switzerland; ⁴Faculty of Science, University of Zurich, Zurich, Switzerland
- TP 147 Improved Peptide Identification from Complex Proteomic Samples Using Variable Window Swath Acquisition and DIA-Umpire; Brett Larsen¹; Chih-Chiang Tsou²; Dmitry Avtonomov²; Alexey Nesvizhskii²; Anne-Claude Gingras¹; ¹LTRI, Toronto, Canada; ²University of Michigan, Ann Arbor, MI
- TP 148 Comparison of SWATH and Spectra Counting for Proteomic Biomarker Discovery in Atherosclerosis; Xiaoqian Liu¹; Zongming Fu²; Vidya Venkatraman¹; Jiamin Wang²; Dan Sullivan³; Grace Athas⁴; Richard Vander Heide⁴; David Herrington⁵; Jennifer Van Eyk¹.²; ¹Advanced Clinical Biosystems Research Institute, Los Angeles, CA; ²Johns Hopkins University School of Medicine, Baltimore, MD; ³Virginia Bioinformatics Institute, Blacksburg, VA; ¹Louisiana State University Health Sciences Cent, New Orleans , LA; ⁵Wake Forest University School of Medicine, Winston-Salem, NC
- TP 149 Large-Scale Proteome and Phosphoproteome
 Quantification by Data Independent Acquisition on
 Ultra High Field Q Exactive HF Mass Spectrometer; Wei
 Zhang; Jing Li; Thermo Fisher Scientific, Shanghai, China
- TP 150

 MS1 Peptide Ion Intensity Chromatograms in MS2
 (SWATH) Data Independent Acquisitions. Improving
 Post Acquisition Analysis of Proteomic Experiments.
 ; Matthew Rardin¹; Birgit Schilling¹; Lin-Yang Cheng²;
 Brendan Maclean³; Dylan Sorensen¹; Alexandria Sahu¹;
 Michael J. Maccoss³; Olga Vitek⁴; Bradford Gibson¹; ¹Buck
 Institute for Research on Aging, Novato, CA; ²Purdue
 University, West Lafayette, IN; ³Univ of Washington,
 Seattle, WA; ⁴Northeastern University, Boston, MA
- TP 151 Exploring Brazilian Spider Acanthoscurria gomesiana Venom by Data Dependent and Data Independent LC-MS Analyses; Thiago Abreu¹; Josias Pagotto¹; Caio Tardivo¹; André Zelanis²; Eduardo Kitano³; Solange Serrano³; Pedro Junior³; Alexandre Tashima¹; ¹EPM/ Universidade Federal de São Paulo, Sao Paulo, SP/Brazil; ²ICT/Universidade Federal de São Paulo, Sao Paulo, SP/ Brazil; ³LETA/Instituto Butantan, Sao Paulo, SP/Brazil
- TP 152 Subcellular Proteomics of α, -Antitrypsin Misfolding in a Eukaryotic Model of ER Stress and Disease; Adam Cryar¹; Peg Nyon¹; David Sutherland¹; Charis-Patricia Segeritz²; Bibek Gooptu³; Konstantinos Thalassinos¹; ¹Institute of Structural and Molecular Biology, London, UK; ²Wellcome Trust Medical Research Council Cambridge, Cambridge, UK; ³King's College London, Guy's Hospital, London, UK
- TP 153 Novel Strategies for Analysis of High-Resolution Data-Independent MS/MS Spectra for Rapid and Accurate Structural Confirmation of Lipids; Jeremy Koelmel¹; John Bowden²; Candice Ulmer¹; Rainey Patterson¹; Timothy Garrett¹; Chris Beecher¹; Richard A. Yost¹; ¹University of Florida, Gainesville, FI; ²NIST, Charleston, SC
- TP 154 Targeted Determination of Site-Specific N-Glycosylation on B Cell Antigen Receptor Using Data-Independent Acquisition; Kuan-Ting Pan¹; Chen-Chun Chen²; Kay-Hooi Khoo³; Henning Urlaub¹.⁴; ¹Bioanal. MS Group, Max Plank Inst for Biophys Chem, Goettingen, Germany; ²Genomics



- Research Center, Academia Sinica, Taipei, Taiwan; ³Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan; ⁴Dept. of Clin. Chem., Univ. Med. Center Goettingen, Goettingen, Germany
- TP 155 SWATH Analysis Identified Peptidases Associated with Prostate Cancer Aggressiveness; Jing Chen; Stefani Thomas; Punit Shah; Lijun Chen; Hui Zhang; Johns Hopkins University, Baltimore, MD
- TP 156 Accurate Determination of the Charge State of a Single Ion Detection; Steve Ciavarini; Scott Geromanos; Waters Corporation, Milford, MA
- TP 157 Unlocking Data Independent Acquisition:
 Using Predicted Spectral Libraries to Improve
 Comprehensiveness and Confidence; Michael Blank¹;
 David Horn¹; Iman Mohtashemi¹; Andreas FR Huhmer¹;
 Zhongqi Zhang²; ¹Thermo Fisher Scientific, San Jose, CA;
 ²Amgen, Thousand Oaks, CA
- TP 158 Revolutionizing Data Independent Acquisition on Q-q-OT-IT Mass Spectrometers; Michael Blank¹; Romain Huguet¹; Ryan Bomgarden²; Rosa Viner¹; Andreas Huhmer¹; Neelu Puri³; Vlad Zabrouskov¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Rockford, IL; ³Univeristy of Illinois. Rockford, IL
- TP 159 Using Ion Trap Resonance Excitation Collision-Induced Dissociation to Improve Data-Independent Acquisition (DIA); Ying Sonia Ting¹; Richard Johnson¹; Jarrett Egertson¹; Philip M. Remeš²; Romain Huguet²; Vlad Zabrouskov²; Michael J. Maccoss¹; ¹University of Washington, Seattle, WA; ²Thermo Fisher Scientific, San Jose, CA
- TP 160 Development of a High-Throughput Urine Analysis for Global Protein Profiling; Scott Peterman¹; David Sarracino¹; Bryan Krastins¹; Maryann Vogelsang¹; Gregory Byram¹; Gouri Vidali¹; Mary F Lopez¹; Amol Prakash²; ¹Thermo Fisher Scientific, Cambridge, MA; ²Otys Technology, Philadelphia, PA
- TP 161 Data-Dependent and Data-Independent Quantitative Analysis Applied in Parallel to the Study of Human Hippocampal Synaptosomes in Alzheimer's Disease; Cheryl F. Lichti¹; Wen-Ru Zhang¹; Petra Erdmann-Gilmore²; Rose Connors²; Yiling Mi²; Jason M. Held²; Giulio Taglialatela¹; ¹Univ. of TX Medical Branch, Galveston, TX; ²Washington University, Saint Louis, MO
- TP 162 Overcoming the Challenges in Data Independent Acquisition (DIA) via High Resolution Accurate Mass Orbitrap Based Mass Spectrometer; Yue Xuan¹; Jan Muntel²; Sebastian T. Berger²; Andreas FR Huhmer³; Hanno Steen²; Thomas Moehring¹; ¹Thermo Fisher Scientific, Bremen, Germany; ²Departments of Pathology, Boston Children's Hospit, Boston, MA; ³Thermo Fisher Scientific, San Jose. CA
- TP 163 Bottom-Up Peptide Analysis by Stable Isotope Ion Mobility Data-Independent Acquisition Proteomics;

 <u>Jaimeen Majmudar</u>; James Lawniczak; Ashesh Prakash;
 Brent Martin; *University of Michigan, Ann Arbor, MI*

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- TP 164 Cortex Metabolome Response to Chronic Arsenic
 Exposure via Drinking Water; Chensong Pan¹; Jie Zhang²;
 Sawyen Ow³; Bingjie Liu¹; ¹Bruker (Beijing) Scientific
 Technology Co. Ltd., Beijing, China; ²Institute of Urban
 Environment, CAS, Xiamen, China; ³Bruker Daltonics Pte
 Ltd., Singapore, Singapore
- TP 165 Mapping Multiple Nutrient Fates Simultaneously with Metabolomics Using the Q-Exactive Orbitrap; Liz Payne; Kevin Cho; Xiaojing Huang; Gary J. Patti; Washington University School of Medicine, St. Louis, MO

- TP 166 Non-targeted FTICR Mass Spectrometry Approach to Discover Ligand Biomarker of Receptor Kinase;

 Rebecca Hansen^{1, 2}; Carolyn Hutchinson¹; Hongqing Guo¹;

 Yanhai Yin¹; Young Jin Lee^{1, 2}; *Iowa State University, Ames, IA: *2Ames Laboratory-USDOE, Ames, IA
- TP 167 Non-targeted metabolomics reveals phytochemical diversity in onion: implications for human health and disease prevention; <u>Jacqueline Chaparro</u>; Shawna Matthews; Michael Bartolo; Henry Thompson; Corey Broeckling; Jessica Prenni; Adam Heuberger; *Colorado State University, Fort Collins, CO*
- TP 168 Multi-Dimensional Visualization Facilitating Quick
 Curation for High-Throughput Global Metabolomics;
 Hongoing Dai: Corey DeHaven: Metabolon. Durham. NC
- TP 169 Metabolomics Batch Data Analysis Workflow to Characterize Differential Metabolites in Bacteria; Yuqin Dai; Steven M. Fischer; Agilent Technologies, Santa Clara, CA
- TP 170 Metabolic and Lipidomic Biomarker Discovery for Type 1 Diabetes Using LC-MS Analysis of Primary T Cells; Candice Ulmer; Jing Chen; Timothy Garrett; Clayton Matthews; Richard A. Yost; University of Florida, Gainesville, FL
- TP 171 Isotope-based profiling identifies metabolites that are related to proliferation; Conghui Yao; Nathaniel Mahieu; Gary Patti; Washington University in St. Louis, Saint Louis, MO
- TP 172 Feasibility of Early Detection of Acute Pulmonary
 Exacerbations by Exhaled Breath Condensate
 Metabolomics; Xiaoling Zang¹; María Monge¹,³; Nael
 McCarty²; Arlene Stecenko²; Facundo Fernández¹; ¹Georgia
 Institute of Technology, Atlanta, GA; ²Emory University,
 Atlanta, GA; ³National Scientific and Technical Research
 Council, Buenos Aires, Argentina
- TP 173 Integrated Metabolomics and Transcriptomics Reveal Enhanced Specialized Metabolism in Medicago truncatula Root Border Cells; Bonnie Watson¹; Mohamed Bedair²; Ewa Urbanczyk-Wochniak²; David V. Huhman¹; Dong Sik Yang¹; Stacy Allen¹; Wensheng Li²; Yuhong Tang¹; Lloyd Sumner¹; ¹The Samuel Roberts Noble Foundation, Ardmore. OK; ²Monsanto. Chesterfield. MO
- TP 174 Global Metabolite Profiling Study in Rat Heart Tissues Associated with Myocardial Infarction; Miso Nam^{1, 2}; Youngae Jung¹; Jueun Lee¹; Do Hyun Ryu²; Geum-Sook Hwang^{1, 3}; **IKBSI, Seoul, Korea; **2sungkyunkwan University, Suwon, Korea; **3GRAST, Daejeon, Korea
- TP 175 Human Model of Hemorrhagic Shock: New Diagnostic Tools; Monika Tokmina-Lukaszewska¹; Brigit Noon¹; Xuelan Fang¹; Elizabeth Lusczek²; Kristine Mulier²; Greg Beilman²; Brian Bothner¹; ¹MSU; Bozeman, MT, Bozeman, MT; ²University of Minnesota, Minneapolis, MN
- TP 176 Parameter Optimization for Data Dependent
 Acquisitions in Metabolomics on an Orbitrap Fusion
 Tribrid Mass Spectrometer; Ulli Hohenester¹; Pierre
 Barbier Saint Hilaire¹; Benoit Colsch¹; Francois Fenaille¹;
 Marie-Françoise Olivier¹; Richard B. Cole²; Jean-Claude
 Tabet¹; Christophe Junot¹; ¹CEA de Saclay, Gif sur Yvette
 Cedex, France; ²Univ. P. et M. Curie (Paris 6), Paris Cedex
 05 France
- TP 177 Metabolic Profiling of Human Pluripotent Stem Cell Derived Endothelial Cells; Andreas A. Staempfli¹;
 Christoph Patsch¹; Gregor Dernick¹; Martin Graf¹; Stephan Mueller¹; Michael Hennig¹; Natalie Bordag²; ¹F. Hoffmann-La Roche AG, Basel, Switzerland; ²metanomics GmbH, Berlin, Germany
- TP 178 Complete Annotation of the Untargeted, LC/MS-Based Metabolomic Analysis of Escherichia coli; Nathaniel Mahieu; Amanda Chen; Xiaojing Huang; Gary J. Patti; Washington University, St. Louis, MO



- TP 179 Rapid Differential Expression Analysis of the Interactions of Metabolites Genotype-Pathogens in cacao (*Theobroma cacao L.*) Genotypes Infected by Ceratocystis cacaofunesta; Fábio Santos¹; Dilze Magalhães²; Edna Luz²; Marcos Eberlin¹; ¹UNICAMP, Campinas, Brazil; ²CEPLAC, Ilhéus, Bahia, Brazil
- TP 180 Elucidation of Biochemical Basis of Scab Resistance in Pecan Using Metabolomics; Zhentian Lei; Shelagh Henson; David Huhman; Bonnie Watson; Lloyd Sumner; The Samuel Roberts Noble Foundation, Ardmore, OK
- TP 181 Development of High-Performance Chemical Isotope Labeling LC-MS for Parallel Metabolomic Profiling of Cerebrospinal Fluid and Serum in Spinal Cord Injury; Yiman Wu¹; Femke Streijger²; Brian K. Kwon²,³; Liang Li¹; ¹Dept. of Chemistry, University of Alberta, Edmonton, Canada; ²ICORD, University of British Columbia, Vancouver, Canada; ³Dept. of Orthopaedics, Vancouver Spine Surgery Inst, Vancouver, Canada
- TP 182 Metabolite Profiling and Geological Fingerprinting of Angelica Radix by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry; Eunjung Son^{1,3}; Min-Sun Kim¹; A-Young Lee²; Dong-Seon Kim²; Mee Ree Kim³; Hyun Sik Kim¹; ¹KBSI, Cheongju-Si, S. KOREA; ²KIOM, Dajeon, Youseong-Ku; ³CNU, Dajeon, Youseong-Ku
- TP 183 Differentiating Yeast Strains by Untargeted Metabolomics Using UHPLC-HRMS/MS; Biao Ji¹; Joanie Emond¹; Jennifer Chiang²; Guri Giaever²; Corey Nislow²; Lekha Sleno¹; ¹UQAM, Montreal, Canada; ²UBC, Vancouver, Canada
- TP 184 Towards Comprehensive Coverage of the Zebrafish Embryo Metabolome using Liquid Chromatography Time of Flight Mass Spectrometry (LC-TOF-MS);

 Jeremiah Kelley; Claudia Maier; Oregon State University, Department of Chemistry, Corvallis, OR
- TP 185 Elucidating New Pathways in Cancer Metabolism by Untargeted Metabolomic Profiling of Isotopic Fates;

 Ying-Jr Amanda Chen¹; Xiaojing Huang²; Nathaniel Mahieu¹; Kevin Cho²; Gary J. Patti¹.²; ¹Washington University, St Louis, MO; ²Washington University School of Medicine, St. Louis, MO
- TP 186 GC/MS Metabolomic Analysis for the Optimization of Chondrocyte Differentiation of Mesenchymal Stem Cells in 3D Pellet Culture; Shujuan Tao; Andrea R. Tan; David Chen; Lewis M. Brown; Clark T. Hung; Columbia University, New York, NY
- TP 187 Structural Elucidation of the Metabolome using Isotopic Ratio Outlier Analysis (IROA) in combination with UHPLC-QTOF and Data-Independent Acquisition; Chris Beecher¹; Felice de Jong¹; Giuseppe Astarita²; ¹IROA Technologies, Ann Arbor, MI; ²Waters Corporation, Milford, MA
- TP 188 Untargeted Metabolomic Analysis of the Yeast Lipin Phosphatidate Phosphatase (Pah1p) Deletion Using Isotopic Ratio Outlier Analysis (IROA) and LC-HRMS; Yu-Hsuan Tsai¹; Timothy Garrett²; Yunping Qiu³; Robyn Moir⁴; Ian Willis⁴; Chris Beecher⁵; Richard Yost¹.²; Irwin Kurland³; ¹Dept. of Chemistry, Univ. of Florida, Gainesville, FI; ²Dept. of Pathology, Univ. of Florida, Gainesville, FI; ³Dept. of Medicine, Albert Einstein College of, Bronx, NY; ¹Dept. of Biochemistry, Albert Einstein College, Bronx, NY; ⁵IROA Technologies, Ann Arbor, MI
- TP 189 Metabolomic Profiling of Biofluids Using Laser
 Desorption Ionization on Nanopost Array Devices
 (NAPAchips); Trust Razunguzwa; Heather Anderson;
 Nicholas Morris; Matthew Powell; Protea Biosciences, Inc.,
 Morgantown, WV
- TP 190 Untargeted Metabolic Profiling Distinguishes Geneby-Diet "Metabotypes" at the Tissue Level in Mice;

 Ann Wells¹; William Barrington²; David Threadgill²; Arnold Saxton¹; Stephen Dearth¹; Shawn Campagna¹; Brynn Voy¹;

- ¹University of Tennessee-Knoxville, Knoxville, TN; ²Texas A&M University, College Station, TX
- TP 191 Metabolomic Analysis of Lung Epithelial Cells using Ion Mobility-Mass Spectrometry; James C. Poland; M. Ray Keller; Stacy D. Sherrod; John A. Mclean; Vanderbilt University, Nashville, TN
- TP 192 Metabolomic Profiling of Crustacean Neuroendocrine Tissues and Hemolymph by Capillary Electrophoresis-Electrospray Ionization-Mass Spectrometry; Xuefei Zhong; Chuanzi Ouyang; Ling Hao; Lingjun Li; University of Wisconsin Madison, Madison, WI
- TP 193 Profiling of Specialized Metabolites that Accumulate in Trichomes of Solanum quitoense; Steven Hurney; Michigan State University, East Lansing, MI

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- TP 194 Cerebrospinal Metabolomics of Persons with Familial Alzheimer's Disease; Farbod Fazlollahi; Yi Yi; Austin Quach; John Ringman; YingNian Wu; Kym Faull; UCLA, Los Angeles, CA
- TP 195 An Autonomous Workflow for Untargeted
 Metabolomics; Baljit Ubhi¹; Paul Benton²; Duane Rinehart²;
 Gary Siuzdak²; ¹SCIEX, Redwood City, CA; ²Scripps Center
 for Metabolomics & Mass Spec, San Diego, CA
- TP 196 Development of a Rapid LC-MS Method to Analyze Polar Metabolites in Complex Biological Samples; a Prelude to Kinetic Flux Profiling; Jay Kirkwood; Corey Broeckling; Jordan Steel; Rushika Perera; Jessica Prenni; Colorado State University, Fort Collins, CO
- TP 197 UPLC MS/MS-Driven Exploration of the Modulation of the Brain Metabolome by Centella asiatica; Parnian Lak¹²; Fereshteh Zandkarimi¹; Nora Gray³; Christopher Harris³;
 Luisa Zini⁴; Brian Searle⁴; Jeff Morré¹; Joseph Quinn³.⁵;
 Amala Soumyanath³; Jan F. Stevens².⁶; Claudia Maier¹²; ¹Department of Chemistry, Oregon State University,
 Corvallis, OR; ²Linus Pauling Institute, Oregon State
 University, Corvallis, OR; ³Oregon Health and Science
 University, Portland, OR; ⁴Proteome Software, Portland, OR;
 ⁵Portland Veterans Affairs Medical Center, Portland, OR;
 ⁵Pharmaceutical Sci. Oregon State University, Corvallis, OR
- TP 198 Serum Metabolomic Profile of Diabetic Brazilian Population; Kallyandra Padilha¹; Gabriela Venturini¹; Thiago Pires¹; Celso Blatt²; Alexandre Pereira¹; ¹Heart Institute, Sao Paulo, Brazil; ²Agilent Technologies Brazil Ltda, Life Sciences &, São Paulo, SP
- TP 199 Non-Lethal *in vivo* SPME Sampling of Fish Tissue in Combination with LC-HRMS Metabolites Profiling for Monitoring Internal Exposome; Vincent Bessonneau¹; Jennifer Ings²; Mark McMaster²; Richard Smith³; Leslie Bragg⁴; Mark Servos⁴; Janusz Pawliszyn¹; *Department of Chemistry, University of Waterloo, Waterloo, Canada; *Environment Canada, Burlington, Canada; *Mass Spectrometry facility, University of Waterloo, Waterloo, Canada; *Department of Biology, University of Waterloo, Waterloo, Canada
- TP 200 Application of Untargeted Metabolomics to Neurodegenerative Diseases; He Huang; Alexandra Taraboletti; Leah Shriver; The University of Akron, Akron, Ohio.
- TP 201 CE-MS Analysis of Metabolites in Rare Cells Identified via MALDI-MS Profiling of Cell Populations; Monika

 Makurath¹; Ta-Hsuan Ong¹; Troy Comi¹; Stanislav
 Rubakhin²; Jonathan Sweedler¹; ¹University of Illinois at
 Urbana-Champaign, Urbana, IL; ²Beckman Institute, UIUC,
 Urbana. IL
- TP 202 A Mass-Spectrometry-Based Metabolic Phenotyping Strategy to Investigate the Molecular Response to Ionizing Radiation; Evagelia Laiakis²; Katrin Strassburg³; Steven Lai¹; Robert Vreeken³.⁴; Thomas Hankemeier³; Jim



- Langridge¹; Robert Plumb¹; Albert Fornace Jr²; <u>Giuseppe Astarita</u>^{1, 2}; <u>'Waters Corporation, Milford, MA</u>; <u>'Georgetown University, Washington, DC</u>; <u>'Jeiden University, Leiden University, Netherlands</u>; <u>'Janssen Pharmaceutica, Discovery Sciences, Beerse, Belgium</u>
- TP 203 NanoLC-MS Reveals Chemical Differences Caused by Irradiation of Rodent Diets and may explain their Impact on Breast Cancer Risk; Stephen Barnes; Landon Wilson; Ali Arabshahi; Xiangqin Cui; Samuel C Cartner; Casey M Morrow; Trenton Schoeb; Clinton J Grubbs; University of Alabama at Birmingham, Birmingham, AL
- TP 204 Lipidomics Discovery for Serum Biomarkers; Clementina Mesaros; Nathaniel W Snyder; Andrew J Worth; Ian A Blair; University of Pennsylvania, Philadelphia, PA
- TP 205 isoMETLIN: A Database for Isotope-Based
 Metabolomics; Kevin Cho¹; Nathaniel Mahieu¹; Winnie
 Uritboonthai²; Gary Siuzdak²; Gary J. Patti¹; ¹Washington
 University School of Medicine, St. Louis, MO; ²The Scripps
 Research Institute, La Jolla, CA
- TP 206 Non-Targeted Metabolite Profiling of Dried Blood Spots in a Field Based Epidemiological Study; Corey Broeckling; Jay Kirkwood; Maggie Clark; Jennifer Peel; Jessica Prenni; Colorado State University, Fort Collins, CO
- TP 207 Enhanced Metabolite Profiling using Atmospheric Pressure Gas Chromatography (APGC) Coupled with Ion Mobility MS; Manoj Ghaste²; Giuseppe Astarita³; Fulvio Mattivi²; Vladimir Shulaev¹; ¹University of North Texas, Denton, TX; ²Fondazione Edmund Mach, San Michele all'Adige, TN, Italy; ³Waters Corporation, Milford, MA
- TP 208 Metabolomic Characterization of Hepatocellular
 Carcinoma by Analysis of Human Liver Tissues Using
 LC/GC-MS; Alessia Ferrarini; Cristina Di Poto; Rency
 Varghese; Mohammad R. Nezami Ranjbar; Habtom
 Ressom; Georgetown University, Lombardi Cancer Center,
 Washington, DC
- TP 209 Characterization of the Human Sweat Sub-Metabolome Using Dansyl Chloride Labeling and High-Resolution LC-MS; Kevin Hooton; Liang Li; University of Alberta, Edmonton. Canada
- TP 210 Effect of Mealybug Infestation on Grape Metabolomics; Shabeer TP Ahammed¹; Amala Udayakumar¹; Akanksha Singh²; Manoj Pillai²; ¹National Research Centre for Grapes, Pune, Maharashtra, India; ²SCIEX, 121, Udyog Vihar Phase IV, Gurgaon, Haryana, INDIA
- TP 211 Optimized LC-MS Platform for Large-Scale Untargeted Metabolic Profiling of Human Urine and Plasma;

 Kevin Contrepois; Lihua Jiang; Michael Snyder; Stanford University. Stanford. California
- TP 212 Combining SWATH Data Acquisition with Automated Mass Spectral Deconvolution of High-Resolution MS Data to Explore the Blood Exposome; Tomas Cajka¹; Hiroshi Tsugawa²; Stanley Hazen³; Oliver Fiehn¹; ¹UC Davis Genome Center, Davis, CA; ²RIKEN Center for Sustainable Resource Science, Yokohama, Japan; ³Cleveland Clinic Lerner Research Institute, Cleveland, OH
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- TP 301 Direct Determination of Trace Hormones in Drinking Water by Large Volume Injection at Sub ng/L Levels Using LC-MS/MS; David R. Baker; Neil J Loftus; Shimadzu, Manchester, UK
- TP 302 Supercritical Fluid Chromatography Triple-Quadrupole Mass Spectrometry: An Alternative to LC/MS/MS for High-Sensitivity and -Throughput Analysis of Multiresidue Pesticides; Yoshihiro Izumi^{1, 2}; Eiichiro Fukusaki²; Takeshi Bamba^{1, 2}; ¹Medical Institute of Bioregulation, Kyushu Univ., Fukuoka, Japan; ²Dept. Biotech., Grad. Sch. Eng., Osaka Univ., Osaka, Japan
- TP 303 Structural Elucidation and Estimation of the Acute Toxicity of the Major UV-Visible Photoproduct of Fludioxonil Detection in Grape Samples; Yannick Lassalle; Édith Nicol; Christophe Genty; Sophie Bourcier; Stéphane Bouchonnet; LCM UMR-9168, École Polytechnique, Palaiseau, France
- TP 304 Rapid Screening of the Potential Chemical Contaminants in Underground Water Using UHPLC-QTOF Mass Spectrometry; Jing Guo¹; Bing Du¹; Meiling Lu²; Jerry Zweigenbaum³; Thomas Glauner⁴; Yeru Huang¹; ¹Natl Res Center for Environ Anal Measurement, Beijing, China; ²Agilent Technologies (China) Limited, Beijing, China; ³Agilent Technologies US, Wilminton, DE; ⁴Agilent TechnologiesGmbH, Waldbronn, Germany
- TP 305 Direct Analysis of Pharmaceuticals and Personal Care Products (PPCPs) in Environmental Waters using a Newly Developed Triple Quadrupole Mass Spectrometer; Jian-Zhong Li²; Michael Thurman⁴; Imma Ferrer⁴; Craig Marvin³; Anabel Fandino¹; Na Pi Parra¹; ¹Agilent Technologies, Inc., Santa Clara, CA; ²Agilent Technologies, Inc., Beijing, China; ³Agilent Technologies, Wilmington, DE; ⁴University of Colorado, Boulder, Colorado
- TP 306 Applications of a Novel, High Performance LC-MS/MS Ion Source; Heather Gamble¹; Sha Joshua Ye¹; Ellie Majdi¹; Donald Gamble²; ¹IONICS Mass Spectrometry Group, Bolton, ON; ²St. Mary's University, Halifax, Canada

- TP 307 Cross Validation between LDTD-MS/MS and LC-MS/
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 Blachon; Alex Birsan; Serge Auger; Jean Lacoursière;
 Pierre Picard; Phytronix Technologies, Inc., Quebec, QC
- TP 308 Development of Electrochemical Methods Capable of Mimicking Oxidative Degradation Pathway of Model Pharmaceuticals; Marc-André Lecours; Gessie Brisard; Pedro A. Segura; University of Sherbrooke, Sherbrooke, Capada
- TP 309 Measuring a Slice of the Exposome: Targeted GC-MS/MS Analysis of Persistent Organic Pollutants (POPs) in Small Volumes of Human Plasma; Anthony Macherone¹.

 ²; Sarah Daniels³; Alex L. Maggitti⁴; Melissa Churley¹; Matthew McMullin⁴; Martyn T. Smith³; ¹Agilent Technologies, Wilmington, DE; ²Johns Hopkins School of Medicine, Baltimore, MD; ³University of California, Berkeley, CA; ⁴NMS Labs, Willow Grove, PA
- TP 310 Fate of Anti-Inflammatory Drug Diclofenac in Municipal Wastewater Treatment Plant: Quantification using LDTD Coupled with Tandem Mass Spectrometry; Linson Lonappan¹; Rama Pulicharla¹; Serge Auger²; Satinder K. Brar¹; Mausam Verma³; Roa Y. Surampalli⁴; ¹INRS-ETE, Université du Québec, Québec, Canada; ²Phytronix Technologies, Quebec, Canada; ³CO2 Solutions Inc., Quebec, Canada; ⁴University of Nebraska-Lincoln, Lincoln,
- TP 311 Determination of leachables in Orally Inhaled and Nasal Drug Products (OINDP) by GCMS/MS; Prashant Hase;
 Ankush Bhone; Durvesh Sawant; Dheeraj Handique; Sanket Chiplunkar; Ajit Datar; Jitendra Kelkar; Pratap Rasam;
 Shimadzu Analytical India Pvt. Ltd., Mumbai, India
- TP 312 Comparative Quantitation of Calibration Methods in Surface Water Analysis Using Online Preconcentration with Orbitrap Mass Spectrometry; Jaewon Choi¹; Wonseok Choi¹; Yun S. Kim¹; Charles Yang²; Dipankar Ghosh²; ¹K-water, 200 Shintanjinro Daeduck, KOREA; ¹Thermo Fisher Scientific. San Jose, CA
- TP 313 Atmospheric Pressure Ionization Coupled to Tandem Quadrupole Mass Spectrometry for the Analysis of Pyrethroids in Waste Water; Adam Ladak¹; Lauren Mullin³; Hernando Olivos¹; Douglas Stevens²; ¹Waters, Beverly, MA; ²Waters, Milford, MA; ³MTM Research Centre, Örebro University, Örebro, Sweden
- TP 314 Application of LC-MS/MS for the Improved Detection of Pesticides in Cannabis Samples; <u>Jared Russell</u>¹; Jeff Dahl²; Liling Fang¹; Willard Bankert¹; ¹Shimadzu Scientific Instruments, Pleasanton, CA; ²Shimadzu, Columbia, MD
- TP 315 Fast and sensitive analysis of drug residues in water using on line SPE-UHPLC-MS/MS with ultra-fast polarity switching; Mikael LEVI¹; Caroline DUFOUR²; Isabelle VECCHIOLI²; Stephane MOREAU³; ¹Shimadzu France, Noisiel, France; ²CARSO-LSEHL, Lyon, France; ³Shimadzu Europe GmbH, Duisburg, Germany
- TP 316 Research and Identification of Veterinary Antibiotic Residues in Environmental and Biological Matrices using LC-HESI-HRMS; Morgan Solliec; Audrey Roy-Lachapelle; Sébastien Sauvé; Université de Montréal, Montréal, Canada
- TP 317 Transformation of Antidepressant Pharmaceuticals
 During Chlorination Disinfection Processes in
 Wastewater Treatment; Melissa M. Schultz; Derrick
 Marshall; Kent Nakamoto; The College of Wooster,
 Wooster. OH
- TP 318 Screening and Quantitation of Micro Pollutants from Sewage Water in the Process of Bank Filtration Using UHPLC-HRMS; Patricia van Baar¹; Florian Wode¹; Uwe Duennbier¹; Maciej Bromirski²; Olaf Scheibner²; ¹Berliner Wasserbetriebe, Berlin, Germany; ²Thermo Fisher Scientific, Bremen, Germany



- TP 319 Highly Sensitive Detection of Pharmaceuticals and Personal Care Products (PPCPs) in Water Using Direct Injection; Dan-Hui Dorothy Yang; Yanan Yang; Agilent Technologies, Inc, Santa Clara, CA
- TP 320 Comparison of matrix effects in multi-residue pesticide analysis when using online SPE or direct injection in Liquid Chromatography-tandem Mass Spectrometry; Sigrid Baumgarten¹; Vincent Gohier²; Mikael Levi¹; ¹Shimadzu France, Noisiel, France; ²Laboratoire Départemental d'Analyse de Corrèze. Tulle. France
- TP 321 Quantitative Analysis of Source Water PPCP by Offline SPE with Orbitrap MS and LC-Tandem MS; <u>Jaewon Choi</u>¹; Wonseok Choi¹; Yun S. Kim¹; Charles T. Yang²; Dipankar Ghosh²; ¹Kwater, Daejeon, South Korea; ²Thermo Fisher Scientific. San Jose, California
- TP 322 Screening and Quantitation of 240 Pesticides in
 Difficult Food Matrices Using the Agilent 6545 QTOF
 Mass Spectrometer; Dorothy Yang; Christian Klein; Crystal
 Cody: Huy Bui; Agilent Technologies, Inc. Santa Clara, CA
- TP 323 Environmental Site Assessment using LC/MS/MS and GC/MS for Phenoxy Family of Pesticides: Data Comparison; Vyacheslav N. Fishman; Ying Yang; The Dow Chemical Company, Midland, MI

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- TP 324 Simultaneous Determination of Allergens in Food Products Discovered to Validated Using Microfluidic Chip-Based Nano-Liquid Chromatography/Quadrupole Time Of Flight(Chip/Q-TOF) and Ultra High Performance Liquid Chromatography Ifunnel/Tandem Mass Spectrometry(iFunnel/QQQ); Wen-Yen Lee; Shan-An Chan; Agilent, Taipei, Taiwan
- TP 325 High Sensitive Detection and Quantification of Synthetic PDE-5 Inhibitors Drugs and Analogues Adulterated in Health Supplements Using LC/MS/MS;

 Zhe Sun; Jie Xing; Zhaoqi Zhan; Customer Support Centre, Singapore (Asia Pacific) Pte Ltd, 79 Science Park Drive, #02-01/08, Singapore 118264
- TP 326 Food Contact Material (FCM) Migration Study using HR-LCMS and Novel Software Database Suite; Allan Brown¹; Kate Comstock²; Ekong Bassy²; David Kage²; Daniel Quinn²; 'Scholle Packaging, Northlake, IL; 'Thermo Fisher Scientific, San Jose, CA
- TP 327 Direct Detection of Chlorpyrifos in Honey by Neutral Desorption-Extractive Electrospray Ionization Mass Spectrometry; Xingxing Liu¹; Li-Ping Luo¹; Xiaowei Fang²; Eric Handberg²; Huanwen Chen²; ¹School of Life Sciences, Nanchang University, Nanchang, China; ²East China Institute of Tech., Nanchang, China
- TP 328 Differentiating Rice Varieties by SPME-GC-MS and NMR Chemical Profiling; Xinyi Wang; Peter B. Harrington; Department of Chemistry and Biochemistry, Ohio U, Athens, OH
- TP 329 Atmospheric Pressure Ionization GC Coupled to Time of Flight Mass Spectrometry for the Analysis of Agriculture Residues in Food Safety; Gordon Fujimoto¹; Andrew Baker²; Adam Ladak¹; Kerri Smith¹; ¹Waters Corporation, Beverly, MA; ²Waters, Inc., Pleasanton, CA
- TP 330 LC-MS/MS Analysis of Perfluoroalkyl Acids in Environmental Samples, Food Packaging Material and Food A Migration and Accumulation Study; Andre Schreiber¹; Liesl Krone²; KC Hyland³; Tom Biesenthal¹; Tanya Gamble¹; Chris Higgins⁴; ¹SCIEX, Concord, Canada; ¹Granbury High School, Granbury, TX; ³SCIEX, Redwood City, CA; ⁴Colorado School of Mines, Golden, CO
- TP 331 Investigating the Impact of Frozen Storage on the Anthocyanin Content of American Elderberry Fruit Juice Using Mass Spectrometry; Mitch Johnson¹; Andrew Thomas^{2, 3}; C. Michael Greenlief^{1, 2}; ¹University of

- Missouri, Columbia, MO; ²Center for Botanical Interaction Studies, MU, Columbia, MO; ³Southwest Research Center, University of Missouri, Mt. Vernon, MO
- TP 332 Quantitative Determination of Seven Fluorescent Whitening Agents Migration of paper cups by High Performance Liquid Chromatography Tandem Mass Spectrometry; ZhiFeng Du¹; XinDong Guo²; JinFeng Huang²; LiJun Li³; WenHai Jin⁴; HuaFen Liu⁵; HuaiEn Zhu⁴; ¹Sciex, GuangZhou, China; ²National Centre for Quality Supervision, GuangZhou, China; ³Sciex, BeiJing, BeiJing; ⁴Sciex, ShangHai, China; ⁵Sciex, America, America
- TP 333 HR-LCMS and GC-MS/MS Analyses of Non-Intentionally Added Substances and other Migrants from Plastic Food Contact Materials; Lan Cooper; Andrew Feilden²; Kate Comstock³; Cristian Cojocariu⁴; Paul Silcock⁴;

 1 Smithers Pira, Leatherhead, UK; 2 Smithers Rapra, Shrewsbury, UK; 3 Thermo Fisher Scientific, San Jose, CA;
 4 Thermo Fisher Scientific, RunCorn, UK
- TP 334 Quantitative Analysis of Illegal Dyes in Eggs Using LC/MS/MS; Rashi Kochhar; Shailendra Rane; Shruti Raju; Deepti Bhandarkar; Shailesh Damale; Ajit Datar; Jitendra Kelkar; Pratap Rasam; Shimadzu Analytical (India) Pvt. Ltd., Mumbai, INDIA
- TP 335 Simultaneous Determination of 20 Polyfluoroalkane Substances in Dietary Milk by QuEChERs Combining with On-Line Interference Trapping LC-MS/MS; Yucheng Yu¹; Dunming Xu¹; Meiling Lu²; Shan Zhou²; Yu Zhou¹; 'Xiamen Entry-Exit Inspection and Quarantine Bureau, Xiamen, CN; 'Agilent Technologies (China) Limited, Beijing, China
- TP 336 Puff by puff investigation of New Smoking Products such as e-cigarettes and 'Heat-Not-Burn' Devices Using Online Photoionization Mass Spectrometry; Sven Ehlert¹; Andreas Walte²; Ralf Zimmermann¹; ¹University of Rostock, Rostock, Germany; ²Photonion GmbH, Schwerin, Germany
- TP 337 Illegal Color Dyes in Food Matrix for Multi-Compounds Analysis with Agilent 6460QQQ and 6545Q-TOF; Shao-Zhen Wang¹; Yong Zhou²; Ping-Ya Wang²; Ai Chen²; Li Huang²; Jin-Lan Sun¹; Heng-Tao Dong¹; Chun-Ye Sun¹;

 'Agilent Technology, Inc., Shanghai, China; 'Institute for Food and Drug Control, Zhoushan, China
- TP 338 Determination of Chemical Contaminants in Marine Fish by GCMS/MS using QuEChERS as an Extraction Method; Ankush Bhone; Durvesh Sawant; Dheeraj Handique; Prashant Hase; Sanket Chiplunkar; Ajit Datar; Jitendra Kelkar; Pratap Rasam; Shimadzu Analytical (India) Pvt. Ltd., Mumbai, INDIA
- TP 339 The Analysis of Chlorinated Dioxins, Difurans and Polychlorinated Biphenyls in Edible Oils; Justin Blau; Greg Jeter; Fluid Management Systems, Watertown, MA
- TP 340 The Analysis of Chlorinated Dioxins and Difurans in Pet Food; Greg Jeter; Ryan Balgos; Fluid Management Systems, Watertown, MA
- TP 341 Determination of Brominated Fatty Acids in Brominated Vegetable Oils and Commercial Beverages by UPLC-MS-MS; Priyanka Chitranshi; Goncalo Gamboa Da Costa; FDA/NCTR, Jefferson, AR
- TP 342 Analysis of Mercury in Grouper by ICP MS: An Evaluation of Mercury Levels in the Commercial Catch;
 Marc E. Engel; FDACS, Tallahassee, FL
- TP 343 Analysis of Mycotoxins Using LC-MS/MS and a QuEChERS Sample Preparation Approach; Brian Kinsella; UCT, Bristol, PA
- TP 344 Development of an Interface for the Analysis of Volatiles Using a Portable Mass Spectrometer; Pilar Perez Hurtado¹; Elliott Palmer¹; Clive Aldcroft²; Hanna More²; Baker Andrew²; Mark Allen²; Jamey Jones²; Matthew Turner¹; Jim Reynolds¹; ¹Loughborough University, Loughborough, UK; ²Advion UK Ltd, Essex, UK



- TP 345 Analysis of 7 Plasticizers Released from Microwave-Treated Food Wraps Using GC-MS; Matt S. Chang; Sheng Hsiung Yang; Jermiah Y. Shen; Gaston J. Wu*; Department of Chemistry, NTNU, Taipei City, Taiwan (R.O.C.)
- TP 346 Low Level Quantitation of Steroids in Milk Using LC/
 MS/MS; <u>Durvesh Sawant</u>; Rashi Kochhar; Shailendra Rane;
 Shruti Raju; Deepti Bhandarkar; Shailesh Damale; Ajit
 Datar; Jitendra Kelkar; Pratap Rasam; Shimadzu Analytical
 (India) Pvt. Ltd., Mumbai, India
- TP 347 Rapid Authentication of Mixed Edible Oils by Matrix-assisted Laser Desorption/Ionization Mass Spectrometry; Tsz-Tsun Ng; Pui-Kin So; Bo Zheng; Zhong-Ping Yao; The Hong Kong Polytechnic University, Hong Kong, China
- TP 348 ICP-MS Method for the Determination of Boric Acid in Caviar; Jung Bok Kim¹; Jang So-Young¹; kim Joo Taek¹; Kim Myung Chul¹; Lee Ok Hwan²; Shin Jae Wook¹; ¹Korea Advanced Food Research institute, Seocho-Gu, KOREA; ²Kang-Won National University, Chuncheon, korea
- TP 349 High SensitivityAnalysis of Diarrhetic Shellfish Poisoning (DSP) Toxins Using LiquidChromatography Tandem Mass Spectrometry; Manami Kobayashi¹; Miho Kawashima²; Satoshi Yamaki¹; Yoshihiro Hayakawa³; ¹Shimadzu Corporation, Kanagawa, Japan; ²Shimadzu Corporation, Tokyo, Japan; ³Shimadzu Corporation, Kyoto, Japan
- TP 350 Determination of a Single Methodology for the Analysis and Quantitation of Multi-class Veterinary Drugs in Different Animal Matrices; Ed George; Charles T. Yang; Dipankar Ghosh; Mary Blackburn; Thermo Fisher Scientific, San Jose, CA
- TP 351 Accurate Multi-Mycotoxin Quantification in Feed Materials Using LC-MS/MS Methods and Isotopic or Structural Analog Dilution Strategies Revolutionize Mycotoxin Occurrence Understanding; Alexandros Yiannikouris; Joshua Martinez; Steve Mobley; Alltech Inc., Nicholasville, KY
- TP 352 Rapid Screening and Confirmation of PDE5 Inhibitors in Dietary Ingredients by DART-MS Ambient Ionization;
 Robert Goguen; Julie Carbonello; Elizabeth Crawford; Brian D. Musselman; IonSense, Inc., Saugus, MA
- TP 353 ELISA-based Screening for Alternative Nitrogenous Economic Adulterants in Milk Proteins; Nicholas Cellar¹; Michael Farrow¹; Nicholas Baldauf²; Todime M. Reddy¹; ¹Abbott, Columbus, OH; ²Advance Testing Laboratories, Cincinnati. OH
- TP 354 Study on Carbosulfan Metabolites in Vegetable by Ultra-High Performance Liquid Chromatography Tandem Quadrupole-Time Of Flight Mass Spectrometry;

 <u>Jianzhong Li</u>; Tao Bo; Agilent Technologies(China), Beijing, China
- TP 355 Quantitation of Chloramphenicol and Nitrofuran Metabolites in Aquaculture Products Using Microwave-Assisted Derivatization, Automated Solid-Phase Extraction and LC-MS/MS; Brian Veach; Food and Drug Administration, Jefferson, AR

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- TP 357 Rapid detection of Fluoroquinolone-Resistant Escherichia coli using Mass Spectrometry; Tiphaine Cecchini¹,²; Silpak Biswas³; Tanguy Fortin¹,⁴; Marc Galimand³; Gilles Zambardi⁵; Xavier Lacoux¹; Arnaud Salvador²; Gaspard Gervasi¹; Jerome Lemoine²; Patrice Courvalin³; Jean-Philippe Charrier¹; ¹bioMerieux, Marcy L'Etoile, France; ²ISA, Unit 5280 CNRS/UCBL-1, Villeurbanne, France; ³Unité des Agents Antibactériens, Institut Pasteur, Paris, France; ⁴Anaquant, Villeurbanne, France; ⁵bioMerieux, La Balme-Les-Grottes, France
- TP 358 Label-Free Quantitation Reveals the Importance of Host Cell Arginine Uptake in Francisella phagosomal Escape and Ribosomal Protein Amounts; Cerina Chhuon^{1, 3}; Elodie Ramond^{2, 3}; Gael Gesbert^{2, 3}; Ida Chiara Guerrera^{1, 3}; Marion Dupuis^{2, 3}; Mélanie Rigard⁴; Thomas Henry⁴; Monique Barel^{2, 3}; Alain Charbit^{2, 3}; *1Proteomics Platform Necker, Paris, France; *2INSERM U1151, Institut Necker-Enfants Malades, Paris, France; *3Universite Paris Descartes, Sorbonne Paris Cite, Paris, France; *4Centre International de Recherche en Infectiologie, Lyon, France
- TP 359 Application of Mass Spectrometry as a Confirmatory Tool for Campylobacter Species Identification; Philippe Raymond¹; Rebecca A Guy²; Maxime Gosselin-Théberge²; Sylvianne Paul¹; ¹Canadian Food Inspection Agency, St-Hyacinthe, Canada; ²Public Health Agency of Canada, St-Hyacinthe, Canada
- TP 360 Enhanced Detection and Identification of Shiga toxin 1 and 2 from Pathogenic Bacteria by MALDI-TOF-TOF-MS/MS-PSD and Top-Down Proteomic Analysis; Clifton K. Fagerquist; William J. Zaragoza; USDA/ARS, Albany, CA
- TP 361 Top-Down Analysis of Penicillin Binding Protein 2a from Methicillin Resistant Staphlococcus Aureus;

 Jason Neil¹; Helene Cardasis¹; Ping Yip¹; Vikrant Gohil¹;

 Alexander Cherkassky¹; James Stephenson²; ¹Thermo
 Fisher Scientific, Cambridge, MA; ²Thermo Fisher Scientific,
 Raleigh. NC
- TP 362 MALDI-TOF-MS for the Differentiation of Strains of Cyanobacteria by Their Secondary Metabolites Profile;

 João Luiz Bronzel Junior; Milena Luizete; Ana C. Codo;
 Humberto Milagre; UNESP Univ Estadual Paulista Institute of Chem, Araraquara, Brazil
- TP 363 MALDI-TOF-MS Identification and Characterization of Fungal Pathogens Associated with Cereal Grains;

 Kumaran Sivagnanam¹; Helene Perreault²; Tom Gräfenhan¹;

 1 Canadian Grain Commission, Winnipeg, Canada;

 2 University of Manitoba, Winnipeg, Canada
- TP 364 Monitoring Chemical Communication and Chemotypical Differentiation in Pseudomonas aeruginosa Microbial Communities Using Confocal Raman Microscopy and Secondary Ion Mass Spectrometry; Sage Dunham¹; Nameera Baig²; Nydia Morales-Soto²; Eric Lanni¹; Joshua Shrout²; Paul Bohn²; Jonathan Sweedler¹; ¹University of Illinois at Urbana Champaign, Urbana, IL; ²University of Notre Dame, Notre Dame, IN
- TP 365 MALDI Biotyper Analysis of Microorganisms Present in Saliva of Chronic Kidney Disease Individuals and their Association with Periodontal Disease; Levy Alves¹; Taciana Couto¹; Ana Ciamponi¹; Marcelo Fava²; Meriellen Dias³; Maria Anita Mendes³; ¹Faculdade de Odontologia São Paulo University, Sao Paulo, Brazil; ²Faculdade de Medicina São Paulo University, São Paulo University, São Paulo, Brazil; ³Engenharia Química Poli São Paulo University, São Paulo, Brazil
- TP 366 Metaproteomic Analysis of Human Cervical-Vaginal Fluid in Residual Pap Tests: Insights into the Cervical Microbiome; Somaieh Afiuni-Zadeh¹; Pratik Jagtap²; Timothy Griffin¹; Marnie Peterson¹; Amy Skubitz¹; ¹University of Minnesota, Minneapolis, MN; ²Center for Mass Spectrometry and Proteomics, UMN, St.Paul, MN



- TP 367 Glycoproteins with Fucosylated O-glycans are
 Associated with the Nuclear Membrane of Toxoplasma
 gondii; Edwin M Motari¹; Giulia Bandini¹; Catherine E.
 Costello²; Samuelson John¹; ¹Boston University School of
 Dental Medicine, Boston, MA; ²Boston University School of
 Medicine, Boston, MA
- TP 368 Identification of Food Borne Microorganism by MALDI-TOF MS; Miyoung Ha²; Eun Kyoung Choi¹; Jun Young Yang¹; Jooyeon Oh¹; <u>Sung Hun Kim</u>¹; Yangsun Kim¹; Kyu H Park¹; ¹ASTA, Suwon-Si, South Korea; ²Nonghyup Food Safety Research Institute, Seoul, South Korea
- TP 369 Analysis of Intact Cowpea Mosaic Virus by MALDI TOF Mass Spectrometry Incorporating Superconducting Tunnel Junction Cryodetection; Logan Plath¹; Jonathan Feldman¹; Anna Czapar²; Nicole Steinmetz²; Mark E. Bier¹;

 ¹Carnegie Mellon University, Pittsburgh, PA; ²Case Western Reserve University. Cleveland. OH
- TP 370 Dental Plaque meta-omics for Diagnosis of Oral and Systemic Disease; Timothy W. Rhoads¹; Nicholas W. Kwiecien¹; Anna E. Merrill¹; Michael S. Westphall¹; Sanjay Shukla²; Amit Acharya²; Joshua J. Coon¹; ¹University of Wisconsin, Madison, WI; ²Marshfield Clinic Research Foundation, Marshfield, WI

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- TP 371 Structural Dynamics of the 180 kDa HIV-1 Initiation Complex Investigated Using Hydrogen-Deuterium Exchange Mass Spectrometry; Devrishi Goswami¹; Steve Tuske²; Bruce D. Pascal³; Joseph D. Bauman²; Disha Patel²; Eddy Arnold²; Patrick R. Griffin¹; ¹The Scripps Research Institute, Jupiter, FL; ²Center for Advanced Biotechnology and Medicine, De, Piscataway, NJ; ³Informatics core, The Scripps Research Institute, Jupiter, FL
- TP 372 Revealing the Architecture of Protein Complexes by an Orthogonal Approach Combining HDXMS, CXMS and Disulphide Trapping; Kunhong Xiao¹; Sheng Li²;

 ¹Duke University Medical Cent, Durham, NC; ²University of California at San Diego, La Jolla, CA
- TP 373 Electrostatics-Driven Conformational Dynamics of Cellobiose Dehydrogenase Probed by Structural Mass Spectrometry; Alan Kadek^{1, 2}; Roland Ludwig³; Petr Halada¹; Petr Man^{1, 2}; ¹Institute of Microbiology CAS, Prague, Czech Republic; ²Faculty of Science, Charles University in Prague, Prague, Czech Republic; ³U. of Natural Resources and Applied Life Sciences, Vienna, Austria
- TP 374 Identifying Dynamical Profiles Associated with Toxicity of Rexinoid X Receptor Agonist by use of Hydrogen Deuterium Exchange Mass Spectrometry; Emily Cowart; Amanda Proper; Matthew Renfrow; Donald Muccio; University of Alabama at Birmingham, Birmingham, Al
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- TP 377 Mapping Calmodulin-Induced Conformational Changes during Activation of Neuronal Nitric Oxide Synthase by H/D Exchange Mass Spectrometry; Eric Underbakke¹; Brian Smith²; ¹lowa State University, Ames, IA; ²Medical College of Wisconsin, Mliwaukee, WI
- TP 378 Bottom-up HX-MS2 Analysis Applied to 620kDa of Unique Sequence; Morgan Hoeppner; Yaping Yu; Susan Lees-Miller; David Schriemer; University of Calgary, Calgary, Canada

- TP 379 Structural Changes during Dimerization of the Type IV Pilin from Pseudomonas aeruginosa strain K122-4 Measured by Time-Resolved Hydrogen-Deuterium Exchange; Cristina Lento; Gerald Audette; Derek Wilson; York University, Toronto, Canada
- TP 380 Probing Conformational Changes Occurring at the Calmodulin Interface upon Adenylate Cyclase Binding Using HDX-MS and Statistical Analysis; Darragh Patrick O'Brien; Stevenn Volant; Véronique Hourdel; Maryline Davi; Marie-Agnes Dillies; Daniel Ladant; Julia Chamot-Rooke; Alexandre Chenal; Sébastien Brier; Institut Pasteur, Paris, France
- TP 381 Changes in Structural Conformation of the C-terminal Domain of Human La Protein upon RNA binding by Hydrogen/Deuterium Exchange Mass Spectrometry;

 Kerene Brown; Mark Bayfield; Derek Wilson; York
 University, Toronto, ON
- TP 382 Curli Amyloid Protein Aggregation Studies by HDX
 Mass Spectrometry; Hanliu Wang; Qin Shu; Don L.
 Rempel; Carl Frieden; Michael L. Gross; Washington
 University, St Louis, MO
- TP 383 Dynamic Changes during Acid-Induced Activation of Influenza Hemagglutinin; Natalie Garcia; Miklos Guttman; Jamie Ebner; Alexander Mileant; Lee Kelly; University of Washington, Seattle, WA
- TP 384 Correlating Dynamic Conformational Sampling to Enzyme Catalysis: A Millisecond Timescale Hydrogen/
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 Peter Liuni; Derek Wilson; Department of Chemistry, York
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 Zachery Gregorich; Ying Peng; Ying-Hua Chang; Lichen
 Xiu: Santosh Valeia: Ying Ge: UW Madison. Madison. WI
- TP 386 Automated Glyco-Proteoform Network Analysis (PNA) on Top-Down MS (TDMS) Datasets; Steven M. Patrie¹
 ²; John Corbett^{1, 2}; Daniel Plymire¹; ¹University of Texas Southwestern Medical Center, Dallas, TX; ²University of Texas at Dallas, Richardson, TX
- TP 387 Rapid Generation of Accurate Information on Proteoforms Distribution and Relative Abundancy by UHR-QTOF MS; Schmit Pierre-Olivier¹; Wolfgang Jabs²; Stuart Pengelley²; Christian Albers²; Klaus Meyer²; Matt Willets³; ¹Bruker Daltonique S.A., Wissembourg, France; ¹Bruker Daltonik GmbH, Bremen, Germany; ³Bruker Daltonics, Billerica, MA
- TP 388 Novel Strategies to Address the Challenges in Top-Down Mass Spectrometry-Based Proteomics; Ying Ge; Zachery Gregorich; Leekyoung Hwang; Lichen Xiu; Santosh G Valeja; Ying-Hua Chang; Wenxuan Cai; Ying Peng; Song Jin; University of Wisconsin-Madison, Madison, WI
- TP 389 **pTop 1.0:** a Highly Efficient Search Engine for Intact Protein Identification; Lan Luo; Rui-Xiang Sun; Long Wu; Hao Chi; Chao Liu; Si-Min He; Institute of Computing Technology. CAS. Beijing. China
- TP 390 Improving Top-Down Proteomics Sequence Coverage through Complementary Fragmentation Approaches; Si Wu¹; Da Meng³; Li Cao⁴; Ljiljana Pasa-Tolic³; Xiaowen Liu²; ¹University of Oklahoma, Norman, OK; ²IUPUI, Indianapolis, IN; ³Pacific NW Nat¹l Lab, Richland, WA; ⁴vaccine production program laboratory, Gaithersburg, MD
- TP 391 A Searchable Public Repository for Archiving Known Proteoforms; Ryan Fellers; Richard Leduc; Bryan Early; Joseph Greer; Paul Thomas; Neil L. Kelleher; Northwestern University, Evanston, IL



- TP 392 **Top-down MS Analysis of Membrane-bound Light Harvesting Complex 2 from Purple Bacteria**; <u>Yue Lu</u>;
 Hao Zhang; Michael L. Gross; Robert E. Blankenship; *Washington University, St Louis, MO*
- TP 393 Optimizing Top Down Analysis of Proteins on an Orbitrap Fusion Tribrid Mass Spectrometer; Seema Sharma¹; Parag Mallick²; Tanya Stoyanova³; Christopher Mullen¹; Chad Weisbrod¹; Jesse Canterbury¹; David Horn¹; Vlad Zabrouskov¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Stanford University, Stanford, CA; ³University of California Los Angeles, Los Angeles, CA
- TP 394 Characterization of Tropomyosin Proteoforms in Skeletal Muscle by Top-Down Mass Spectrometry;

 Yutong Jin; Ying Peng; Yi-Chen Chen; Timothy Hacker; Ying Ge; University of Wisconsin-Madison, Madison, WI
- TP 395 Optimization of LC/MS Intact /Top-Down Protein
 Analysis on an Orbitrap Fusion Mass Spectrometer;
 Rosa Viner; Seema Sharma; Jesse D. Canterbury; David
 Horn; Vlad Zabrouskov; Thermo Fisher Scientific, San Jose,
 CA
- TP 396 In-Line Separation by Capillary Electrophoresis prior to Analysis by Top-Down Mass Spectrometry Enables Sensitive Characterization of Protein Complexes;

 Xuemei Han¹; Aaron Aslanian¹; Bryan Fonslow¹.²; Daniel McClatchy¹; Beth Graczyk³; Trisha N. Davis³; John Yates¹;

 ¹The Scripps Research Institute, La Jolla, CA; ²AB SCIEX, San Diego, CA; ³University of Washington, Seattle, WA
- TP 397 Exploring Depth and Breadth of a Protein Complex
 Mixture with Top-Down Data-Independent Acquisition
 Using an Orbitrap Fusion Tribrid Mass Spectrometer;
 Aaron Bailey; David Horn; Seema Sharma; Romain Huguet;
 Vlad Zabrouskov; Thermo Fisher Scientific, San Jose, CA
- TP 398 Performance Evaluation of the Q Exactive™ HF
 Hybrid Quadrupole-Orbitrap Mass Spectrometer
 for High-Throughput Top-Down Proteomics; Eugen
 Damoc¹; Ping Yip²; Leena Valmu³; Alexander Cherkassky²;
 Bernard Delanghe¹; Eduard Denisov¹; Oksana Gvozdyak²;
 Helene Cardasis²; Jason Neil²; Alexander Makarov¹; Jim
 Stephenson²; ¹Thermo Fisher Scientific, Bremen, Germany;
 ²Thermo Fisher Scientific, Cambridge, MA; ³Thermo Fisher
 Scientific, Vantaa, Finland
- TP 399 Automated Multi-Dimensional Top-Down Clinical Proteomics Platform for High Sensitivity and Quantitative Proteoform Analysis on Individual Patient Cerebrospinal Fluid; John Corbett^{1, 2}; Daniel Plymire¹; Steven Patrie^{1, 2}; **Inniversity of Texas Southwestern Medical Center, Dallas, TX; **2University of Texas at Dallas, Richardson, TX
- TP 400 Fractionation by Size Exclusion Chromatography of Proteins for Top-Down Analysis; <u>Lucia Geis-Asteggiante</u>¹; Suzanne Ostrand-Rosenberg²; Catherine Fenselau¹;

 1 University of Maryland, College Park, MD Maryland;
 2 University of Maryland Baltimore County, Baltimore, MD
- TP 401 A Novel Three Dimensional Liquid Chromatography
 Platform for Top-down Proteomics; Lichen Xiu; Santosh
 Valeja; Zachery Gregorich; Huseyin Guner; Song Jin; Ying
 Ge; University of Wisconsin-Madison, Madison, WI
- TP 402 Top-Down, High-Throughput Proteomics of Thermo-Stable Allergens Using Complementary MS/MS Fragmentation Strategies; Monica Carrera¹; Daniel Lopez Ferrer²; Chad Weisbrod²; Romain Huguet²; Jose Manuel Gallardo¹; Jae C. Schwartz²; Andreas Huhmer²; ¹CS/C, Vigo, SPAIN; ²ThermoFisher Scientific, San Jose, CA
- TP 403 Identification of Proteoforms from Yeast Lysate Using Measurements of Intact Mass and Lysine Count; Brian L. Frey; Michael R. Shortreed; Mark Scalf; Rachel A. Knoener; Anthony J. Cesnik; Lloyd M. Smith; University of Wisconsin, Madison, WI

PROTEINS: GENERAL

- TP 404 Evaluation of Different Alternatives to In-Gel-Digestion of Proteins; Moritz Neupärtl; Marion Bäumlisberger; Philip Hölltaler; Michael Karas; Goethe University, Frankfurt Am Main. Germany
- TP 405 Improving Protein LC/MS Analysis; Barry Boyes^{1, 2}; Stephanie Schuster¹; Joseph Kirkland¹; Benjamin Libert¹; Brian Wagner¹; Joseph Destefano¹; ¹Advanced Materials Technology Inc., Wilmington, DE; ²University of Georgia, Athens. GA
- TP 406 Integration of Electrochemistry with Ultra-Performance Liquid Chromatography/Mass Spectrometry (UPLC/MS);

 Yi Cai¹; Qiuling Zheng¹; Yong Liu²; Roy Helmy²; Joseph
 A. Loo³; Hao Chen¹; ¹Ohio University, Athens, OH; ²Merck
 Research Laboratories, Merck & Co., Inc., Rahway, NJ;

 ³University of California-Los Angeles, Los Angeles, CA
- TP 407 Mass Spectrometry of Collagen Preserved in Archaeological Specimens Including Human Bones; Shunsuke Fukakusa¹; Kazuki Kawahara²; Mehdi Moini³; Takashi Nakazawa¹; ¹Nara Women's University, Nara, Japan; ²Osaka University, Suita, Osaka; ³George Washington University, Washington DC
- TP 408 General Protein Analysis Using in-source CID and SEC Chromatography; Dale Schoener; John Cremin; Michael Buonarati; Intertek Pharmaceutical Services, El Dorado Hills, CA
- TP 409 A Knowledge-Based Approach to Developing a Mass Spectrometry Method for Detection of Gluten in "Free-From" Foods; Sophie Bromilow¹; Lee A Gethings²; Prof. Peter Shewry³; Michael Buckley¹; Michael Bromley⁴; Phil Johnson¹; Prof. Clare Mills¹; **University of Manchester, Manchester, UK; **Waters, Manchester, N/A; **Rothamsted Research, Harpenden, UK; **Synergy Health, Swindon, UK
- TP 410 Small Molecule Inhibition of Beta-2 Microglobulin
 Amyloid Formation Studied by Mass Spectrometry;
 Tyler Marcinko; Patrick Kiefer; William Warren; Kate
 Daborowski; Richard Vachet; University of Massachusetts,
 Amherst. MA
- TP 411 Use of MALDI-MS in the Detection of Non-Covalent Amyloid β Oligomers; Jasmine S.-H. Wang^{1, 2}; Kristina Jurcic¹; Shawn N. Whitehead²; Ken K.-C. Yeung¹;

 ¹Department of Chemistry and Biochemistry, London, ON;

 ²Department of Anatomy and Cell Biology, London, ON
- TP 412 Development of a Combined Workflow to Study the Relationship Between Cysteine Accessibility in the Active Site and Protein Aggregation; Natalya Atlasevich; Pilsoo Kang; Jianmei Kochling; Genzyme, Framingham, MA
- TP 413 Protein Characterization Involved in Mussel Byssal Threads Biogenesis by 2D-LC-MS/MS; Maxime
 Sansoucy¹; Cynthia Caron¹; Réjean Tremblay²; Isabelle
 Marcotte¹; Lekha Sleno¹; ¹UQAM, Montreal, Canada;
 ²UQAR-ISMER, Rimouski, Canada
- TP 414 Characterizing High Molecular Weight Glutentin Subunits in Canadian Wheat Varieties Using ESI-MS on Intact Protein; Ray Bacala; Dave Hatcher; Canadian Grain Commission, Winnipeg, Canada
- TP 415 Mass spectrometric characterization of Coenzyme Q biosynthesis; Arne Ulbrich; Catherine E. Minogue; Jon A. Stefely; Danielle C. Lohman; Andrew G. Reidenbach; Michael S. Westphall; David J. Pagliarini; Joshua J. Coon; University of Wisconsin, Madison, WI
- TP 416 Correlation between Protein Concentrations and Recovery in SDS PAGE; David Fabacher; Ute Bahr; Michael Karas; Goethe University, Frankfurt am Main, Germany
- TP 417 Venomics of Nephilingis cruentata Spider by Data Dependent and Data Independent Acquisition Methods in Mass Spectrometry; Rafael Lomazi¹; Thiago Abreu¹;



- Josias Pagotto¹; Eduardo Kitano²; Solange Serrano²; Pedro Silva Jr.²; Alexandre Keiji Tashima¹; ¹EPM/Universidade Federal de São Paulo, São Paulo, Brazil; ²LETA/ Instituto Butantan, Sao Paulo, Sao Paulo
- TP 418 On-target Tryptic Digest and MALDI-MS Analysis of Reproduction Proteins from Pieridae Butterflies; Måns Ekelöf; Maria Khihon Rokhas; Johan Jacksén; <u>Åsa Emmer;</u> KTH Royal Institute of Technology, Stockholm, SWEDEN
- TP 419 Trypsin modified membrane reactors for controlled and limited proteolysis followed by mass spectrometry;

 Wenjing Ning; Jinlan Dong; Merlin Bruening; Michigan State University, East Lansing, MI
- TP 420 Investigating the Cellular Interactions of BIRB796
 Analogs Using a Novel Chloroalkane Capture Tag;
 Marjeta Urh¹; Rachel Friedman Ohana¹; Robin Hurst¹;
 Thomas Kirkland²; Sergiy Levin²; Michael Ford³; Richard
 Jones³; Keith Wood¹; ¹Promega, Madison, WI; ²Promega
 Biosciences LLC, San Luis Obispo, CA; ³MS Bioworks LLC,
 Ann Arbor, MI
- TP 421 Characterization of a Novel NUDIX Hydrolase Using Limited Proteolysis, Bottom-Up, and Middle-Down Mass Spectrometry; Lauren R Devine; Robert O'Meally; Andres H de la Peña; Sandra B Gabelli; Robert N Cole; Johns Hopkins, Baltimore, MD
- TP 422 Protein Fractionation by Subcellular Location to
 Enhance Proteomic Coverage of Cultured Cells; Haiyan
 Wu; Ryan Bomgarden; Kay Opperman; John C. Rogers;
 Barb Kaboord: Thermo Fisher Scientific, Rockford, IL
- TP 423 Integrating Mass Spectrometry and Structural Biology Techniques to Investigate a Novel Bacterial Ferritin-Like Protein; Sally Vanden-Hehir¹; Didi He¹; Sophie Harvey²; C. Logan Mackay¹; Jon Marles-Wright¹; David J Clarke¹; ¹University of Edinburgh, Edinburgh, UK; ²Ohio State University, Columbus, OH

GLYCOPROTEINS: COMPLEX SAMPLES 424-448

- TP 424 Characterizing Time-Course GalNAc-T Reactions at the Molecular Level Using nanoLC-MS with Relative Quantification Yields New Insight into Clustered O-Glycosylation; Tyler Stewart¹; Kazuo Takahashi²; Milan Raska³; Qi Bian¹; Zhi-qiang Huang¹; Jan Novak¹; Matthew B. Renfrow¹; ¹University of Alabama at Birmingham, Birmingham, AL; ²Fujita Health University, Toyoake, Japan; ³University of Palacky, Olomouc, Czech Republic
- TP 425 The Use of MRM Methods for Glycan Discovery and Extensive Characterization of Site-Specific Glycosylation; Muchena J. Kailemia; Carlito Lebrilla; University of California, Davis, CA
- TP 426 Investigation of Detergent and Detergent Free Sample Preparations for Membrane Proteomics/
 Glycoproteomics of Breast Cancer Cells with different Clinicopathological Features; Yu Zhang; Rui Zhu; Shiyue Zhou; Yehia Mechref; Texas Tech University, Lubbock, TX
- TP 427 **Tissue-Specific Protein Glycosylation and the Detection of Sialic Acid Variants at the Glycopeptide Level;** <u>Katalin F. Medzihradszky;</u> Krista Kaasik; Robert J. Chalkley; *UCSF, San Francisco, CA*
- TP 428 Developing Methods for Analyzing N-Glycans Released from Low-Abundant Human Plasma Proteins; Cheylene Tanimoto; Sarah Totten; Sharon Pitteri; Stanford University School of Medicine, Palo Alto, CA
- TP 429 SugarCone: a Software of Automatic Glycopeptide Sequencing by Y1 and peptide ion of N- and O-linked Glycopeptide; Chein-Hung Chen; Hsin-Yu Hsieh; Jung-Lee Lin; Chung-Hsuan Chen; Academia Sinica, Taipei, Taiwan
- TP 430 Unraveling the Cell Surface Glycoproteome; Rebecca Sosa; Yanyan Qu; William Alley; University of Texas at San Antonio, San Antonio, TX

- TP 431 Comprehensive Monitoring of Glycopeptides
 Alternation in Cancer Patients by Multiple Reaction
 Monitoring and Precursor Ion Scan; Petra Darebna²;
 Petr Novak¹.²; Radek Kucera³; Ondrej Topolcan³; Miloslav
 Sanda⁴; Radoslav Goldman⁴; Petr Pompach¹.²; ¹Institute of
 Microbiology, Prague, Czech Republic; ²charles University,
 Prague, Czech Republic; ³Faculty Hospital in Pilsen, Pilsen,
 Czech Republic; ⁴Georgetown University, Washington, DC,
 DC
- TP 432 Glycomic Profiling of Biofluids and Exosomes by MALDI-FTICR; Huarong Xu; Thomas Powers; Roper Stephen; Richard R Drake; Medical University of South Carolina, Charleston, SC
- TP 433 Defining a Glycosylation Site of Human PSA Prompted by Missense Mutation by LC-MS/MS; Ehwang Song¹; Yunli Hu¹; Chuan-Yih Yu²; Haixu Tang²; Yehia Mechref¹;

 1 Texas Tech University, Lubbock, TX; Indiana University, Bloomington, IN
- TP 434 Mass Spectrometry Analysis of Glycoproteins of the Sulfate Reducer Archaeoglobus fulgidus; Deborah R. Leon¹; Cheng Lin¹; Nancy Leymarie²; Rachel R. Ogorzalek Loo³; Joseph A. Loo³; Robert P Gunsalus³; Catherine E. Costello²; ¹Boston University School of Medicine, Boston, MA; ²Boston University School of Medecine, Boston, MA; ³UCLA, Los Angeles, CA
- TP 435 The Characterization of Glycosylated Neuropeptides from the Lobster, Homarus americanus; Henry E. Pratt¹; Patsy S. Dickinson¹; Andrew E. Christie²; Elizabeth A. Stemmler¹; ¹Bowdoin College, Brunswick, ME; ²University of Hawaii at Manoa, Honolulu, HI
- TP 436 A Method for Simultaneous Analysis of N-Linked Glycans, Glycosites, and Site-Specific Glycan Heterogeneity for Comprehensive Characterization of Glycoproteins; Shisheng Sun²; Punit Shah¹; Shadi Toghi Eshghi¹; Weiming Yang¹; Namita Trikannad¹; Shuang Yang¹; Lijun Chen¹; Paul Aiyetan¹; Naser Uddin Hoti¹; Daniel W. Chan¹; Hui Zhang¹; ¹John Hopinks Dept. of Pathology, Baltimore, MD; ²Johns Hopkins University, Baltimore, Maryland
- TP 437 Site-specific modulation of surface glycoprotein sialylation upon short time stimulation of HeLa cells;

 María Ibáñez-Vea; Lylia Drici; Veit Schwämmle; Pernille
 Lassen; Giuseppe Palmisano; Lene Jakobsen; Martin R.
 Larsen; University of Southern Denmark, Odense, Denmark
- TP 438 HILIC and ERLIC Enrichment of Glycopeptides Derived From Breast and Brain Cancer Cells; Lauren Zacharias; Ehwang Song; Alyssa Hartmann; Rui Zhu; Parvin Mirzaei; Yehia Mechref; Texas Tech University, Lubbock, TX
- TP 439 An Optimized Method for the Deglycosylation, Enrichment, and Derivatization of N-linked Glycans from Proximal Biofluids; Crystal Daniels^{1, 2}; Jana Rocker^{1, 2}; Lewis Pannell^{1, 2}; ¹University of South Alabama, Mobile, AL; ²Mitchell Cancer institute, Mobile, AL
- TP 440 Comprehensive and High Throughput Quantitative Site-Specific N-Linked Glycosylation Analysis of Recombinant Glycoproteins; Xiaoying Jin¹; Dongyu Liu²; Lin Liu¹; Joanne Cotton¹; Clarence Wang²; Xiaokui Kate Zhang¹; ¹Sanofi Biotherapeutics, Framingham, MA; ²Genzyme, Framingham, MA
- TP 441 A Pipeline Employing Native MS to Analyze Glycoproteins and Glycoprotein Complexes from Endogenous Samples; Rafael D. Melani^{1, 2}; Luis H. F. do Vale³; Owen Skinner¹; Luca Fornelli¹; Marcelo V. Sousa³; Gilberto Domont²; Philip Compton¹; Neil L. Kelleher¹;

 1 Northwestern University, Evanston, IL; 2 Univ Federal Do Rio De Janeiro, Rio De Janeiro, Brazil; 3 Universidade de Brasília, Brasília, Brazil



- TP 442 Integrated N-Glycoproteomics-Based Assessment of Equivalence between Induced Pluripotent Stem Cells and Embryonic Stem Cells; Putty-Reddy Sudhir¹; Madireddy Pavana Kumari¹; Wei-Ting Hsu²; Hung-Chih Kuo²; Chung-Hsuan Chen¹; ¹GRC, Academia Sinica, Taipei, Taiwan; ²ICOB, Academia Sinica, Taipei, Taiwan
- TP 443 Identification of N-Glycans Using an Accurate Mass and Retention Time Database Yield Oligosaccharides Variations in Individual Serum; Ting Song¹; Stephen Madden²; Carlito Lebrilla¹; ¹University of California Davis, Davis, CA; ²Agilent Technologies, Inc., Santa Clara, CA
- TP 444 Quantification of Glycopeptides from Human Prostate Specific Antigen using Multiple Reaction Monitoring;

 Masaki Kurogochi¹; Toshio Nakamura¹; Yusuke Inohana²; Ichiro Hirano²; Junko Amano¹; ¹the noguchi institute, Tokyo, Japan; ²Shimadzu Corporation, Kyoto, Japan
- TP 445
 Analysis of N-Linked Glycopeptides Derived from Human Liver Tissues by LC-MS/MS; Minkun Wang^{1, 2}; Cristina Di Poto¹; Ehwang Song³; Rui Zhu³; Yehia Mechref³; Habtom Ressom¹; ¹Georgetown University, Lombardi Cancer Center, Washington, DC; ²Virginia Tech, Arlington, VA; ³Texas Tech University, Lubbock, TX
- TP 446 In-Depth Analysis of Site-Specific N-Glycosylated alpha 1 Acid Glycoprotein and Vitronectin from Human Plasma; Juyeon Lee¹; Heeyoun Hwang¹; Gun Wook Park¹²; Hyun Kyoung Lee¹.²; Jin Youn Kim¹; Jong Shin Yoo¹.²; ¹Korea Basic Science Institute, Chungbuk, South Korea; ²2Graduate School of Analytical Science and Technol, Daejeon, South Korea
- TP 447 Studying the Kinetics of N-glycan Release by PNGase F with MRM Quantitation of the Glycopeptides from Human Serum Glycoproteins; Yining Huang; Adam Kramer; Ron Orlando; University of Georgia, Athens, GA
- TP 448 Integrative Omics Analysis to Reveal the Molecular Biological Mechanism of Breast Cancer Brain Metastasis; Wenjing Peng; Rui Zhu; Shiyue Zhou; Ehwang Song; Parvin Mirzaei; Lauren Zacharias; Yunli Hu; Kameswara Rao Kottapalli; Yehia Mechref; Texas Tech University, Lubbock, TX

PROTEINS: PHOSPHOPROTEINS 449-462

- TP 449 A Global Survey of Protein Phosphorylation Reveals its Extensive Regulatory Network in Rat Fetal Neural Stem Cells; Shuxin Wang¹; Xuyang Zhao²; Qingsong Wang¹; Jianguo Ji¹; ¹Peking University, Beijing, China; ²Peking University Health Science Center, Beijing, China
- TP 450 Phosphoproteomics of Human Immunodeficiency Virus-1; Pratikkumar Rathod^{1, 2}; Hsin-Pin Ho^{1, 2}; Xu Yu³; Dr. Mathias Lichterfeld^{3, 4}; Dr. Emmanuel Chang^{1, 2}; ¹York College- City University of New York, Jamaica, NY; ²Graduate Center- City University of New York, New York, NY; ³Ragon Institute of MGH, MIT and Harvard, Cambridge, MA; ⁴Infectious Disease Division- MGH, Boston, MA
- TP 451 Using Phosphoproteomics to Reveal the ATM
 Dependent Mediators in the Late Phase of Replication
 Stress; Stephanie Munk; Luis I. Toledo; Louise von
 Stechow; Jiri Lukas; Jesper V. Olsen; NNF CPR, University
 of Copenhagen, Copenhagen, DENMARK
- TP 452 Label-free Quantitative Determination of LPS- and TNFα-induced Phosphorylation dynamics on IRAK4 involved in the Host Immune Response; Li Wang; Harsha P. Gunawardena; Xian Chen; University of North Carolina at Chapel Hill, Chapel Hill, NC
- TP 453 Phospho-Signaling Pathways and Cross-Talk in SKBR3
 Breast Cancer Cells; Fumio Ikenishi; Iuliana Lazar; Virginia
 Tech. Blacksburg, VA
- TP 454 Microfluidic Reactor for Fast Proteolytic Digestion and Enrichment in Phosphopeptides; Jingren Deng; Iulia M. Lazar; Department of Biological Sciences, Virginia Tech, Blacksburg, VA

- TP 456 Functionalized Multivalent Nanoparticles for Top-down Phosphoproteomics; Leekyoung Hwang; Bifan Chen; Serife Ayaz-Guner; Tania Guardado; Ying Peng; Zachery Gregorich; Song Jin; Ying Ge; University of Wisconsin-Madison, Madison, WI
- TP 457 Automated Phosphopeptide Spectral Library Searching for Fast and Confident Site Localisation; Veronika Suni¹; Susumu Imanishi¹; Garry Corthals¹.²; ¹Turku Centre for Biotechnology, Turku, Finland; ²University of Amsterdam, Amsterdam, The Netherlands
- TP 458 Identification of Phosphorylation Sites in Marine
 Microbes; Noelle Held; Mak Saito; Woods Hole
 Oceanographic Institution, Woods Hole, Massachusetts
- TP 459 A Sensitive Assay to Measure Total Protein Phosphorylation Level in Complex Protein Samples; Li Pan; Linna Wang; Chuan-Chih Hsu; Jiazhen Zhang; Anton Iliuk; Weiguo Andy Tao; Purdue University, West Lafayette, IN
- TP 460 Identification of Post-Translational Modifications on HEXIM1 that Regulate the Activation of P-TEFb and HIV Proviral Reactivation; Benlian Wang¹; Uri Mbonye²; Giridharan Gokulrangan³; Jonathan Karn²; Mark R. Chance¹; ¹Center for Proteomics and Bioinformatics, CWRU, Cleveland, OH; ²Dept. of Molecular Biology and Microbiology, CWRU, Cleveland, OH; ³PDM Department, Pfizer WRD, Andover, MA
- TP 461 Probing Phosphoproteome Changes Downstream of MAP4K4; Adam Schwaid¹; Chunyan Su²; Paula Loos®; Jiang Wu⁵; Chuong Nguyen⁴; Kathryn L. Stone³; Jean Kanyo³; Kieran Geoghegan⁴; Philip Carpino¹; Leonard Buckbinder²; Samit Bhattacharya¹; Robert Dow¹; ¹Worldwide Medicinal Chemistry, Pfizer, Cambridge, MA; ²CVMED Research Unit, Pfizer, Cambridge, MA; ³Yale School of Medicine, New Haven, CT; ⁴Pfizer Worldwide Research and Development, Groton, CT; ⁵Shire Pharmaceuticals, Lexington, MA; ⁵Neuroscience Research Unit, Pfizer, Cambridge, MA
- TP 462 Expanding the Role of TAK1 in Immune and Inflammatory Response Through Chemical Genetics and Proteomics; Rebecca Levin¹; Nicholas Hertz¹; Alma Burlingame¹; Kevan Shokat¹.²; ¹University of California, San Francisco, San Francisco, CA; ²Howard Hughes Medical Institute, Chevy Chase, MD

PROTEINS: MEMBRANE 463-472

- TP 463 Identification of Anti-Tumor Sclerotium rolfsii Lectin Binding Membrane Proteins from HT-29 Cells Using Micro-Fluidic Based LC System Coupled with QTOF-MS; Ravindra Gudihal¹; Srikanth Barkeer²; Sachin M Eligar²; Prajna Hegde²; Lu-Gang Yu³; Bale M Swamy²; Shashikala R Inamdar²; ¹Agilent Technologies India Pvt. Ltd, Bangalore, INDIA; ²Department of Studies in Biochemistry, KUD, Dharwad, India; ³Department of Gastroenterology,Uni of Liverpool, Liverpool, L69 3BX
- TP 464 Hign-pH Reverse Phase StageTip for Sensitive and Rapid Small-Scale Membrane Proteomic Profiling;
 Baby Rorielyn T. Dimayacyac-Esleta^{1,3}; Reta Birhanu Kitata^{1,2}; Wai-Kok Choong¹; Chia-Feng Tsai¹; Pei-Yi Lin¹; Shao-Hsing Weng¹; Susan D. Arco³; Ting-Yi Sung¹; Yu-Ju Chen¹; 'Academia Sinica, Taipei, Taiwan; ²MST, Taiwan International Graduate Program, Taipei, Taiwan; ³University of the Philippines, Diliman Quezon City, Philippines



- TP 465 Comparative LC-MS Profiling of the Cell Surface of NSCLC Cell Lines Bearing Oncogenic K-RAS Mutations; Xiaoying Ye; Robert Stephens; Gordon Whiteley; Josip Blonder; Leidos Biomedical Research, Inc., Fredrick Nationa, Frederick, MD
- TP 466 Proteomic Analysis of Membrane Protein Glycosylation and its Relationship to Transmembrane (TM) Domains; Bingyun Sun; Simon Fraser University, Burnaby, Canada
- TP 467 An Effective Method for Plasma Membrane Protein Enrichment for Proteomic Analysis of Small Tissue Samples; Geert Baggerman^{1,3}; Katrien Smolders²; Nathalie Lombaert²; Dirk Valkenborg^{1,3}; Lutgarde Arckens²; ¹Vito, Mol, Belgium; ²KULeuven, RU Neuroplasticity and Neuroproteomics, Leuven, Belgium; ³University Antwerp, Center for proteomics, Antwerp, Belgium
- TP 468 Applying Native nESI-IMS-MS and FPOP with LC-MS to the Study of Membrane Proteins; Tom G Watkinson;
 Antonio N Calabrese; Sheena E Radford; Alison E Ashcroft;
 University of Leeds, Leeds, UK
- TP 469 Interaction Landscape Analysis Reveals Porin-Localized Toxin Inactivation in Acinetobacter baumannii Cells; James Bruce; Xia Wu; Devin Schweppe; Chunxiang Zheng; Arti Navare; Juan Chavez; Jimmy Eng; Pradeep Singh; Colin Manoil; University of Washington, Seattle, WA
- TP 470 Effect of Surfactant, Solvents and Digestion Conditions on Digestion Efficiency of Drug Transporter Proteins by Trypsin; Buyun Chen; Liling Liu; Alan Deng; Brian Dean; Emile Plise; Laurent Salphati; Yuan Chen; Xiaorong Liang; Genentech. South San Francisco. CA
- TP 471 In Vivo, Stable-Isotope Labeling and MS Probe the Interaction of Warfarin with Vitamin K Epoxide Reductase; Guomin Shen¹; Hao Zhang²; Weidong Cui²; Weikai Li¹; Michael L. Gross²; ¹Washington University School of Medicine, St. Louis, MO; ²Washington University, St. Louis, MO
- TP 472 Activation and Oligomerization of Bax Studied by Ion Mobility Mass Spectrometry; <u>Jeroen Van Dyck</u>¹; Albert Konijnenberg¹; Frank Sobott¹.²; ¹University of Antwerp BAMS group, Antwerp, Belgium; ²Center for Proteomics, Antwerp, Belgium

PROTEINS: COMPLEXES 473-494

- TP 473 Effects of Charge State on the Structures of Protein lons: Results from Cation to Anion Proton Transfer Reactions; Ken Laszlo¹; Eleanor Munger²; Matthew Bush¹; ¹University of Washington, Seattle, WA; ²Carleton College, Northfield. MN
- TP 474 Mass Spectrometric Analysis of Surface Exposed
 Regions in the Hexadecameric Phosphorylase Kinase
 Complex; Mary Ashley Rimmer; Antonio Artigues; Owen W
 Nadeau; Maria T Villar; Victor Vasquez-Montes; Gerald M
 Carlson; University of Kansas Medical Center, Kansas City, KS
- TP 475 Analysis of Affinity-Isolated Endogenous Protein
 Complexes by Native Mass Spectrometry Using an
 Exactive Plus EMR Instrument; Paul Dominic B. Olinares;
 Julio C. Padovan; Brian T. Chait; The Rockefeller University,
 New York, NY
- TP 476 Surface-Induced Dissociation/Ion Mobility of Pyruvate Kinase: Interface Area and Subunit Packing; Aniruddha Sahasrabuddhe; Vicki Wysocki; The Ohio State University, Columbus, Ohio
- TP 477 Discovery of Lipid Acquisition Mechanism of Plasmodium vivax in Liver Stage by Interactome Technique; Supachai Topanurak¹; Peerut Chienwichai¹; Wang Nguitragool¹.²; Jetsumon Prachumsri²; ¹Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand; ²Mahidol Vivax Research Unit, Mahidol University, Bangkok, Thailand

- TP 478 CSNAP the 9th Subunit of the COP9 Signalosome Complex; Gili Ben-Nissan; Maria Gabriela Fuzesi-Levi; Rozen Shelly; Michal Sharon; Weizmann Institute of Science. Rehovot, Israel
- TP 479 Analysis of the Apoptosis Signal-Regulating Kinase Signalosome Dynamics by Targeted Mass Spectrometry; <u>Joel Federspiel</u>; Simona Codreanu; Daniel Liebler; *Vanderbilt University School of Medicine, Nashville,* TN
- TP 480 Structural Proteomics Analysis of the tau-Protein Microtubule; Karl Makepeace¹; Evgeniy Petrotchenko¹; Nicole Sessler¹; Christoph Borchers¹.²; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochem. & Microbiol., Univ. of Victoria, Victoria, BC, Canada
- TP 481 Crosslinking Analysis of Fibrin Polymerization; Karl Makepeace¹; Evgeniy Petrotchenko¹; Christoph Borchers¹. ²; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochem. & Microbiol., Univ. of Victoria, Victoria, BC, Canada
- TP 482 Changes in Ribosome Associated Proteins During Growth of E.coli; Santosh Misal; Aditi Dabir; James Reilly; Indiana University, Bloomington, IN
- TP 483 Deciphering the Topology of a Mitochondrial RNA
 Processing Complex in Trypanosomes with a
 Combination of Cross-linking and Mass Spectrometry;
 Yu Qian¹,²; Catherine E Costello¹; Ruslan Afasizhev²;
 ¹Boston University School of Medicine, Boston, MA; ²Boston
 University School of Dental Medicine, Boston, MA
- TP 484 A Study of the MEK1 Interactome Dynamics by Affinity Purification-Mass Spectrometry Reveals Novel Interactors; Laura Herring¹; Kyle Grant²; Kevin Blackburn¹; Jason Haugh¹; Michael Goshe¹; **North Carolina State University, Raleigh, NC; **2UNC-Chapel Hill, Chapel Hill, NC
- TP 485 Proteomic Analysis of the Essential Mitotic Activator Bora and its Regulation in the Human Cell Cycle;

 Andrew Grassetti; Mark Adamo; Scott Rusin; Arminja Kettenbach; Scott Gerber; Dartmouth Medical School, Hanover, NH
- TP 486 Structural Elucidation of Metalloprotein Complexes by Top-down Mass Spectrometry; Piriya Wongkongkathep; Huilin Li; Joseph A. Loo; UCLA, Los Angeles, CA
- TP 487 Affinity Proteomics Establishes NIMA-Related Kinases as Regulators of Cytokinesis through Control of Microtubule Motor Localization; Sierra Cullati; Scott Gerber; Geisel School of Medicine at Dartmouth, Lebanon, NH
- TP 488 **Discovering a New Subunit for an Old Complex**; Shelly Rozen; Maria Fuzesi-Levi; Gili Ben-Nissan Ben-Nissan; Michal Sharon; Weizmann Institute of Science, Rehovot, Israel
- TP 489 Filtering and Scoring of Results from AP-MS
 Experiments by Spectral Counts, Label-Free
 Quantitation and Enrichment Factor; Roman Mylonas¹.
 ²; Patrice Waridel²; Manfredo Quadroni²; ¹Vital-IT Group Swiss Institute of Bioinformatics, Lausanne, Switzerland;
 ²CIG University of Lausanne, Lausanne, Switzerland
- TP 490 New Developments for the CRAPome Resource for Scoring AP-MS Protein Interaction Data; <u>Dattatreya Mellacheruvu</u>¹; Zachary Wright¹; Anne-Claude Gingras²; Alexey Nesvizhskii¹; ¹University of Michigan, Ann Arbor, MI; ²Samuel Lunenfeld Research Institute, Mount Sinai H, Toronto. ON
- TP 491 Identification of Yeast Mediator Complex Interacting
 Proteins by 15N Metabolic Labeling; Henriette Uthe; Jens
 T. Vanselow; Andreas Schlosser; , Wuerzburg, Germany



- TP 492 Improving Detection Efficiency of Large, Complex Ions Generated Under Native Conditions Using an Electrically Biased Pixelated Detector; Tiffany Porta^{1, 2}; Andrey Dyachenko³; Shane R. Ellis^{1, 2}; Gert B. Eijkel¹; Bob Hommersom¹; Jerre van der Horst⁴; Dmitry Byelov⁵; Dirk-Jan Spaanderman²; Ronald Buijs²; Frans Giskes¹; Albert J.R. Heck³; Ron M.A. Heeren¹; **1M41 Institute Maastricht University, Maastricht, The Netherlands; **2FOM Institute AMOLF, Amsterdam, The Netherlands; **3Utrecht University, Utrecht, The Netherlands; **4MS Vision, Almere, The Netherlands; **5Omics2Image, Amsterdam, The Netherlands
- TP 493 Quantitative Measurement of the Protein Complex Landscape of Murine Tissues Using PCP-SILAC;
 Nichollas E Scott; Duncan Ferguson; Marjan Farahbod;
 Joerg Gsponer; Paul Pavlidis; Leonard J Foster; University of British Columbia, Vancouver, Canada
- TP 494 Stoichiometry Determination of Large Multiprotein Complexes using QConcat: Lessons Learned through Analysis of the 50 MDa Yeast Nuclear Pore Complex;

 Wenzhu Zhang; Javier Fernandez-Martinez; Michael P. Rout; Brian T. Chait; The Rockefeller University, New York, NY

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- TP 495 Substrate-Mimetic Chaperone Binding Sites in humanα-galactosidase A Identified by Proteolytic Affinity Mass Spectrometry; Stefan Maeser¹; Adrian Moise¹; Frederike Eggers¹; Stephan Rawer²; Michael Przybylski¹; ¹Steinbeis Centre Biopolymer Analysis and Biomedica, Ruesselsheim, Germany; ²Thermofisher Scientific, Darmstadt, Germany
- TP 496 Conformational Differences in Monoclonal Antibody
 Dimers Revealed by Hydrogen/Deuterium Exchange
 Mass Spectrometry; Jun Zhang; Christopher Woods; Mei
 Han: Feng He: Michael Treuheit: Amaen. Inc. Seattle. WA
- TP 497 Multiple Reaction Monitoring (MRM)-Based Quantitation of Oxidation During Hydroxyl Radical Protein Footprinting for Pharmaceutical Protein Conformation Analysis; Franklin E. Leach IIII¹; Peter J. Todd¹; Ron Orlando²; Joshua S. Sharp²; ¹Photochem Technologies, Athens, GA; ²University of Georgia, Athens, GA
- TP 498 Characterization of IgG and IgM Monoclonal Antibodies by Superconducting Tunnel Junction Cryodetection MALDI TOF Mass Spectrometry; Logan Plath; Jonathan Feldman; David Sipe; Mark E. Bier; Carnegie Mellon University, Pittsburgh, PA
- TP 499 Analytical Characterization of Therapeutic Monoclonal Antibodies in Cynomolgus Monkey Serum by Immunopurification and Mass Spectrometry; Rosalynn Molden; Haibo Qiu; Ning Li; Thomas Daly; Regeneron Pharmaceuticals, Tarrytown, NY
- TP 500 Automatic De Novo Identification and Profiling of Disulfide Bonds in Biopharmaceuticals; Anja Resemann¹; Rainer Paape¹; Jan Wiesner¹; Jason Wood²; Lars Vorwerg¹; Detlev Suckau¹; Wolfgang Jabs¹; ¹Bruker Daltonics, Bremen, Germany; ²Bruker Daltonics, Billerica, MA
- TP 501 **Evaluating Workflows for Sequence Variant Detection**; Hangtian Song; Thomas Slaney; <u>Wei Wu</u>; Richard Ludwig; Li Tao; Tapan Das; *Bristol-Myers Squibb Company, Bloomsbury, NJ*
- TP 502 LC-MS and LC-MS/MS Characterization of Asparagine
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 Antibodies of Therapeutic Interest; Jason X. Tang; Yuping
 Zhou; Eli Lilly & Company, Indianapolis, IN
- TP 503 High Throughput Peptide Mapping with the Vanquish UHPLC and Q Exactive HF; Martin Samonig¹; Remco Swart¹; Kai Scheffler²; Jonathan L. Josephs³; ¹Thermo Fisher Scientific, Germering, Germany; ²Thermo Fisher Scientific, Dreieich, Germany; ³Thermo Scientific, West Windsor, NJ

- TP 504 Comprehensive Characterization of Site-specific Engineered Antibody Drug Conjugate by Orbitrap Mass Spectrometer; Hongxia (Jessica) Wang¹; Terry Zhang¹; Brian J. Agnew²; Rosa Viner¹; Jonathan Josephs¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Eugene. OR
- TP 505 Intact Mass Analysis for Glycan Profiling of a Recombinant Therapeutic Protein Directly from Harvest Cell Culture; Yunqiu (Rachel) Chen; Li Zang; Biogen Idec, Cambridge, MA
- TP 506 Combination of Bottom-Up and Top-Down
 Characterization of Biologics Using a High Throughput
 Capable Workflow in Proteome Discoverer software;
 Torsten Ueckert¹; Kai Scheffler²; Carmen Paschke¹; Bernard
 Delanghe¹; ¹Thermo Fisher Scientific (Bremen) GmbH,
 Bremen, Germany; ²Thermo Fisher Scientific, Dreieich,
 Germany
- TP 507 Expression and Characterization of a TrastuzamabInterferon Fusion Protein in *Nicotiana benthamiania*Plant to include *in vitro* Assay Results; Earl L. White¹;
 Lindsay Bennett¹; Brian Berquist¹; Iqbal Grewal³; Sanjay
 Khare³; Vally Kommineni¹; Sylvain Marcel¹; Ryan Murry²;
 Ranjith Munigunti¹; Raj Sachdev³; Don Wilkerson¹; Isaac
 Wong¹; Barry Holtz¹; ¹Caliber Biotherapeutics, LLC, Bryan,
 TX; ²G-CON Manufacturing, Inc., College Station, TX;
 ³ImmunGene, Inc., Camarillo, CA
- TP 508 Characterization of an IgG-Cleaving Protease from Streptococcus equi with Improved Activity Against Mouse IgGs; Chris Hosfield¹; Philip Compton²; Luca Fornelli²; Paul Thomas²; Neil L. Kelleher²; Michael Rosenblatt¹; Marjeta Urh¹; ¹Promega Corp, Madison, WI; ²Northwestern University, Evanston, IL
- TP 509 IdeS Digest and Peptide Mapping of a Therapeutic Antibody Drug Conjugate for In-Depth Drug Conjugation Sites Analysis Using LC/MS; Alex Zhu¹; Ning Tang²; ¹Agilent Technologies, Wilmington, DE; ²Agilent Technologies, Santa Clara, CA
- TP 510 A Novel Data-Directed Approach for Comprehensive
 Disulfide Bond Mapping in Biotherapeutic Proteins;
 Stephane Houel; Scott Geromanos; Steve Ciavarini; Weibin
 Chen; Waters Corp. Milford, MA
- TP 511 Monitoring Disulfide Bond Scrambling-An Enzyme Digestion pH Study; Song Klapoetke; Michael J. Nold; KBI, Durham, NC
- TP 512 Mass Spectrometry Based Characterization of Multiple Critical Quality Attribute of Recombinant Human Collagen VII (rC7); Sheng Gu; Matthew Traylor; Craig Kaftan; Donald Gillies; Nicole Resendes; Bruce Tangarone; Shire, Lexington, MA
- TP 513 A General Method for Identifying Chromophores in Protein Therapeutics by Liquid Chromatography and Mass Spectrometry; Hangtian Song¹; Jianlin Xu²; Mi Jin²; Chao Huang²; Jacob Bongers³; Kelvin Bai³; Wei Wu¹; Richard Ludwig³; Li Tao³; Zhengjian Li²; Tapan Das³; ¹Bristol-Myers Squibb, Bloomsbury, NJ; ²Bristol-Myers Squibb, East Syracuse, NY; ³Bristol-Myers Squibb, Hopewell, NJ

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- TP 514 Targeted Proteomics of Human Metapneumovirus in Clinical Samples and Viral Cultures; Matthew Foster¹; Geoff Gerhardt²; Lynda Robitaille³; Guy Boivin³; Jacques Corbeil³; Arthur Moseley¹; ¹Duke University Medical Center, Durham, NC; ²Waters Corp., Milford, MA; ³Université Laval, Québec, Canada
- TP 515 An Ion-Current-Based, 44-plex Investigation of Influenza A Virus-Infected Mouse Lungs Revealed Altered Integrity of Lung Microvascular Barriers; Shichen Shen¹; Jun Li¹; Xiaomeng Shen¹; Andrew Ng¹; Chengjian Tu¹; Sina Ghaemmaghami²; Hulin Wu²; Martin Zand²; Jun Qu¹; ¹SUNY at Buffalo, Buffalo, NY; ²University of Rochester, Rochester, NY



- TP 516 Application of High Sensitivity LC-MS/MS for Autoimmune Antigen Discovery in Antibiotic-refractory Lyme Arthritis or Rheumatoid Arthritis; Qi Wang¹; Elise E. Drouin²; Chunxiang Yao¹; Jiyang Zhang³; Yu Huang¹; Allen C. Steere²; Catherine E. Costello¹; ¹Boston University School of Medicine, Boston, MA; ²Harvard Medical School, Boston, MA; ³National University of Defense Technology, Changsha, Hunan Province, China
- TP 517 The Proteome of Aedes aegypti Legs from Female versus Male Mosquitoes; Francine Perler; Colleen McClung; Ashley Luck; Cristian I. Ruse; New England BioLabs, Ipswich, MA
- TP 518 Differential Protein Expression by Pathogenic
 Leptospira in Response to Mammalian Host Signals;
 Jarlath Nally¹; Stephen Hyland²; Andre Grassmann³;
 Melissa Caimano⁴; Kjell Sergeant⁵; Jenny Renaut⁵; ¹NADC/
 USDA, Ames, IA; ²University College Dublin, Dublin,
 Ireland; ³Universidade Federal de Pelotas, Pelotas, Brazil;
 ⁴University of Connecticut, Farmington, CT; ⁵Luxembourg
 Institute of Science and Technology, Belvaux, Luxembourg
- TP 519 Protein Profiling of Three Distinct Chlamydia trachomatis Growth Forms; Ole Østergaard; Anja Olsen; Peter Lawætz Andersen; Frank Follmann; Niels Henrik Helweg Heegaard; Ida Rosenkrands; Statens Serum Institut, Copenhagen, Denmark
- TP 520 Investigation of Redox Control in *Chlamydia* Infection by Novel Chemical Tools and Mass Spectrometry;
 Hanzhi Wu; Rosine Dushime; Xiaofei Chen; Nelmi O.
 Devarie-Baez; Cristina M. Furdui; <u>Allen W. Tsang</u>; Wake Forest School of Medicine, Winston-Salem, NC
- TP 521 Quantitative and Structural Interaction Network of Nosocomial Pathogenesis; Devin Schweppe; Arti Navare; Xia Wu; Larry Gallagher; Colin Manoil; James Bruce; University of Washington, Seattle, WA
- TP 522 Novel inhibitor-Based Photoaffinity Labeling and MALDI Mass Spectrometry for Identification of Anti-Malarial Drug Targets.; David Wood; Michael Prinsen; Megh Singh; Christopher Eickhoff; Francis Sverdrup; Marvin Meyers; Saint Louis University, St. Louis, MO
- TP 523 Thioridazine Alters the Cell Envelope Permeability of *Mycobacterium tuberculosis*; Jeroen De Keijzer¹; Petra de Haas²; Arnoud de Ru¹; Evy Heerkens²; Leonard Amaral³; Dick van Soolingen²; Peter van Veelen¹; 'Leiden University Medical Centre, Leiden, the Netherlands; 'National Institute for Public Health (RIVM), Bilthoven, the Netherlands; 'Universidade Nova de Lisboa, Lisbon, Portugal
- TP 524 Membrane Proteome Characterization of Phenotypically Diverse Pseudomonas aeruginosa Cystic Fibrosis Isolates Reveals Adaptation to Host Lungs; Karthik Shantharam Kamath¹; Dana Pascovici²; Apurv Goel²; Anahit Penesyan¹; Vignesh Venkatakrishnan¹; Ian T Paulsen¹; Nicolle H Packer¹; Mark P Molloy¹.²; ¹Macquarie University, Sydney, Australia; ²Australian Proteome Analysis Facility, Sydney. Australia
- TP 525 Mycoplasma synoviae Infection Induced Proteomic Changes In Chicken Serum; Balamurugan
 Packialakshmi¹; Rohana Liyanage¹; Vijay Durairaj²;
 Jackson O Lay, Jr.¹; Naola Ferguson-Noel²; Narayan Rath³;
 ¹University of Arkansas, Fayetteville, AR; ²The University of Georgia, Athens, GA; ³PPPSRU, USDA-ARS, Fayetteville, AR
- TP 526 Molecular Anatomy of Streptococcus Pyogenes in Human Blood Plasma Using Absolute Quantification and Targeted Mass Spectrometry.; Kristoffer Sjoholm; Lotta Happonen; Johan Malmström; Lund University, Lund, Sweden
- TP 527 Succinylome Analysis Reveals the Involvement of Lysine Succinylation in Metabolism in Pathogenic Mycobacterium tuberculosis H37Rv; Mingkun Yang²; Zhongyi Cheng¹; Jing Gu²; Lijun Bi²; Feng Ge²; ¹PTM

- Biolabs, Inc, Hangzhou, China; ²Chinese Academy of Sciences. Wuhan, CN
- TP 528 Dynamic Regulation of Histone Deacetylase 5 (HDAC5) during HIV-1 Infection; Amanda Guise¹; Yang Luo²; Mark Muesing²; Ileana M. Cristea¹; **IPrinceton University, Princeton, NJ; **2Aaron Diamond AIDS Research Center, New York, NY
- TP 529 The Epstein-Barr Virus Protein Kinase BGLF4 Integrates DNA Damage Response and Mitotic Phosphorylation Signaling to Promote Virus Replication; Renfeng Li¹; Raja Sekhar Nirujogi².³; Sneha Pinto².³; Gangling Liao²; Harsha Gowda³; Tai-Chung Huang²; Patrick Shaw²; Xinyan Wu²; Akhilesh Pandey².³; S. Diane Hayward²; ¹Virginia Commonwealth University, Richmond, VA; ²Johns Hopkins University, Baltimore, MD; ³Institute of Bioinformatics, Bangalore, India

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- TP 530 Single Cell Proteome Profiling Using Highly Sensitive LC-MS System and In-Capillary Sample Preparation Method; Masaki Wakabayashi¹; Jordan Aerts²; Elena Romanova²; Stanislav Rubakhin²; Yasushi Ishihama¹; Jonathan Sweedler²; ¹Kyoto University, Kyoto, Japan; ²University of Illinois, Urbana, IL
- TP 531 Quantitatively Profiling Dynamic Proinsulin Processing by LC-MS; Dongwan Cheng; Junjie Hou; Fuquan Yang; Tao Xu; Institute of Biophysics, CAS, Beijing, China
- TP 532 Advancing Untargeted Proteomics to Single Cells for the 16-cell Xenopus Embryo using µCE-ESI-MS/MS;

 Camille Lombard; Sally, A. Moody; Peter Nemes; George Washington University, Washington, DC
- TP 533 MassAnalyzer as an Informatics Tool for Proteomics; Zhongqi Zhang; Da Ren; Gang Xiao; Pavel Bondarenko; Amgen, Inc., Thousand Oaks, CA
- TP 534 Fluorescence Complementation Mass Spectrometry (FCMS) for Identifying Direct Upstream Kinases; Lingfei Zeng¹; Wen-Horng Wang¹; Robert Geahlen¹; Chang-Deng Hu¹; Andy Tao²; ¹Department of MCMP, Purdue University, West Lafayette, IN; ²Department of Biochemistry, Purdue University, West Lafayette, Indiana
- TP 535 Population Proteome Investigation of Pathogenicity and Persistence of *Pseudomonas aeruginosa* in Cystic Fibrosis Patient Airways; Xia Wu; Benjamin Staudinger; Jayanthi Garudathri; Katherine Hisert; Colin Manoil; Pradeep Singh; James Bruce; *University of Washington, Seattle, WA*
- TP 536 Absolute Quantitation of Non-Standard Amino Acids in Proteins Guiding the Evolution of Orthogonal Translation Systems; Hans Rudolf Aerni^{1,2}; Miriam Amiram^{2,3}; Svetlana Rogulina^{1,2}; Farren J. Isaacs^{2,3}; Jesse Rinehart^{1,2}; ¹Cellular & Molecular Physiology, New Haven, CT; ²Systems Biology Institute, West Haven, CT; ³Molecular, Cellular and Developmental Biology, New Haven, CT
- TP 537 Discovering the Peptide Variants by Targeted Proteomics-Bioinformatics Pipeline; Jerry C.D. Chen; Chang Gung University, Taoyuan City, Taiwan (R.O.C)
- TP 538 In-Depth Melanoma Immunopeptidome for Anti-Tumor Immunotherapies; Michal Bassani-Sternberg¹; Eva Bräunlein²; Richard Klar²; Pavel Sinitcyn¹; Julia Slotta-Huspenina³; Angelika Werner⁴; Rüdiger Hein Rüdiger⁵; Christian Peschel²; Dirk H. Busch⁵; Juergen Cox¹; Angela M. Krackhardt²; Matthias Mann¹; ¹Max Planck Institute of Biochemistry, Martinsried, DE; ²Medizinische Klinik III, Klinikum rechts der Isar, Munich, DE; ³Institut für Allgemeine Pathologie und Pathologisc, Munich, DE; ⁴Institute of Surgery, Klinikum rechts der Isar, Te, Munich, DE; ⁵Department of Dermatology and Allergology, Technic, Munich, DE; ⁰Institut für Medizinische Mikrobiologie, Immunolog, Munich, DE



- TP 539 A Universal Method for Peptide Identification; Shannon Eliuk; Nina Soltero; Philip M Remes; Michael W. Senko; Vlad Zabrouskov; Thermo Fisher Scientific, San Jose, CA
- TP 540 Enhancing Electrospray Response in Proteomics through Chemical Additives Better Alternatives to DMSO; Peng Yu; Hannes Hahne; Bernhard Kuster; Technische Universität München, Freising, Germany
- TP 541 A New Probabilistic Score for the Chemical Cross-Linking Tandem Mass Spectrometry Data Analysis; Mihir Jaiswal^{1, 2}; Boris Zybaylov²; ¹University of Arkansas at Little Rock, University, Little Rock, AR; ²University of Arkansas for Medical Sciences, Little Rock, AR
- TP 542 Proteomic Analysis of Ancient Dental Calculus Reveals
 Differences in Host Immune Proteins and Microbiota;
 Rosa R. Jersie-Christensen¹; Anna Fotakis¹.²; Jan
 Refsgaard¹; Christian Kelstrup¹; Enrico Cappellini²; Jesper
 V. Olsen¹; ¹NNF, Center for Protein Research, University of
 Copenhagen, DK; ²Natural History Museum of Denmark,
 University of Copenhagen, DK
- TP 543 Mass Spectrometric Identification of Amino Acids Modified by 4-hydroxy-2-nonenal (HNE) as a Model for Proteome-Scale Analysis of Oxidative Stress;

 Roshanak Aslebagh¹; Steven J. Fliesler^{2, 3}; Bruce A. Pfeffer^{2, 3}; Costel C. Darie¹; ¹Clarkson University, Potsdam, NY; ²SUNY- University at Buffalo, Buffalo, NY; ³VA Western NY Healthcare System, Buffalo, NY
- TP 544 Using Advanced Proteome Modeling to Initiate Real-Time Intelligent Time Based Acquisitions; Scott Geromanos; Steve Ciavarini; Waters Corporation, Milford, MA
- TP 545 Hypoxia-Induced Alternative Splicing Proteomics in Cancer Cell lines; Liu Chia-Hsiun; Hsu Pang-Hung; , Keelung, R.O.C.
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 Stephanie Kaspar¹; Markus Lubeck¹; Annette Michalski¹;
 Pierre-Olivier Schmit²; ¹Bruker Daltonik GmbH, Bremen,
 Germany; ²Bruker Daltonique S.A., Wissembourg, France
- TP 547 Multiplexed Chemoproteomic Profiling as a Tool to Decipher the Intracellular Interactions between Proteins and Small Molecules Identified in Phenotypic Screens; Michael Ford¹; Richard Jones¹; Ravi Amunugama¹; Christopher Lietz^{2, 3}; Danette Daniels³; Rachel Ohana³; Sergiy Levin⁴; Thomas Kirkland⁴; Marjeta Urh³; Keith Wood³; ¹MS Bioworks, Ann Arbor, MI; ²University of Wisconsin, Madison, WI; ³Promega Corporation, Madison, WI; ⁴Promega Biosciences LLC, San Luis Obispo, CA
- TP 548 Proteomic Methods Comparison for Protein Identification and Quantitation of Muscle Proteins;

 Jeremy Keirsey¹; Liwen Zhang¹; Hui Meng²; Federica Montanaro³; Michael Lawlor²; Arpad Somogyi¹; ¹Ohio State University, Columbus, Ohio; ²Medical College of Wisconsin, Milwaukee, WI; ³Research Institute-Nationwide Children's Hospital, Columbus, OH
- TP 549 Spatiotemporal S-Nitrosoproteome Analysis in Cdk5/p25 Mouse Model of Neurodegeneration by SNOTRAP and Mass Spectrometry; Uthpala Seneviratne¹; Ravindra Kodihalli¹; Vadiraja Bhat²; Alexi Nott¹; John Wishnok¹; Li-Huei Tsai¹; Steven Tannenbaum¹; ¹Massachusetts Institute of Technology, Cambridge, MA; ²Agilent Technologies, Inc, Wilmington, DE
- TP 550 Deciphering Phenotypic Drug Screening Targets Using a Novel Chloroalkane Capture Tag; Rachel Friedman Ohana¹; Thomas A. Kirkland³; Carolyn C. Woodroofe³; Sergiy Levin³; Robin Hurst¹; Paul Otto¹; H. Tetsuo Uyeda³; Michael Ford²; Richard C. Jones²; Danette Daniels¹; Marjeta Urh¹; Keith Wood¹; ¹Promega Corporation, Madison, Wl; ²MS Bioworks, LLC, Ann Arbor, Ml; ³Promega Biosciences LLC, San Luis Obispo, CA

- TP 551 In-Depth Proteome Coverage by Iterative Data
 Dependent Acquisition on a Benchtop Orbitrap Mass
 Spectrometer; Mathias Mueller; Andreas Kuehn; Yue Xuan;
 Tabiwang N. Arrey; Thomas Rietpietsch; Florian GrosseCoosmann; Catharina Crone; Torsten Ueckert; Markus
 Kellmann; Thermo Fisher Scientific (Bremen) GmbH,
 Bremen. Germany
- TP 552 PERSID: A Proteomic Approach for Identification of S-Sulfhydration Sites in Protein Extracts; Changyuan Lu; Steven S Gross; Weill Medical College of Cornell, New York, NY
- TP 553 Accumulated Ion Monitoring (AIM) Enables Yoctomolar Absolute Sensitivity and Seven Orders of Magnitude Accurate Quantitation in Complex Proteomes; Paolo Cifani; Avantika Dhabaria; Alex Kentsis; Memorial Sloan-Kettering Cancer Center, New York, NY
- TP 554 **Peptides from RNAs Classified as Non-Coding**; Ruchi Chauhan; *Boston Children's Hospital, Neurology, Harvard, Boston, MA*
- TP 555 Rapid Proteomics Assessment of Toxin Exposed Human Cells to Elucidate Mechanism of Action; Jamie Allen¹; Jeffrey Spraggins¹; Ashley Jordan¹; William Burns¹; Jeremy L. Norris²; Eric P. Skaar²; D. B. Lacy²; Richard M. Caprioli²; ¹Vanderbilt University, Nashville, TN; ²Vanderbilt University School of Medicine, Nashville, TN

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- TP 556 Achieving Optimal Digestion Faster with Flash Digest:
 Potential Alternative to Multi-Step Detergent Assisted
 In-Solution Trypsin Digestion in Quantitative and
 Qualitative Proteomics Experiments; Vinit Shah; Michael
 Lassman; Haihong Zhou; Omar Laterza; Merck Research
 Laboratories. Rahwav. NJ
- TP 557 Rapid, Efficient and Reproducible Sample Preparation for Bottom-Up Proteomics by a Surfactant-Aided Precipitation/On-Pellet Digestion Strategy; Shichen Shen; Jun Li; Xiaomeng Shen; Chengjian Tu; Jun Qu; SUNY at Buffalo, Buffalo, NY
- TP 558 A Routine QC Method to Monitor High-Level LC and MS Performances on Complex Protein Digests; Stephanie Kaspar¹; Ole Hoerning¹; Nicolai Bache¹; Alexander Harder¹; Pierre-Olivier Schmit²; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Bruker Daltonique S.A., Wissembourg, France
- TP 559 On the Advantages of Admixed Lys-C/Lys-N Digests, for Proteome Depth and DeNovo Peptide Sequencing; Chris Adams; Anna Okumu; Allis S. Chien; Ryan Leib; Stanford University Mass Spectrometry, Stanford, CA
- TP 560 SPARSE Streamlined Proteomics And Robust Statistics Experiments: An Optimised Proteomics Pipeline to Increase Analytical Robustness, Accuracy, and Precision; Ronan O'Cualain; Julian Selley; David Knight; M13 9Pt Manchester, UK
- TP 561 On-chip Mesoporous Functionalized Magnetic
 Microspheres for Extended Bottom-Up Proteomics;
 Natalia Gasilova; Kristina Srzentic; Liang Qiao; Yury Tsybin;
 Hubert H. Girault; EPFL, Lausanne, Switzerland
- TP 562 A Simplified Affinity Proteomics Workflow for Rapid, Sensitive, Quantitative Analysis of Proteins in Plasma; John O'Grady¹; Kevin Meyer¹; Michael Stump²; Don Gray²; ¹Perfinity Biosciences, Inc, West Lafayette, IN; ²Bioanalytical Systems, Inc, West Lafayette, IN
- TP 563 Immuno-Proteomics Using Polyclonal Antibodies and Stable Isotope Labeled Affinity-Purified Recombinant Protein Fragments; Fredrik Edfors^{1, 2}; Tove Boström¹; Masato Habuka²; Björn Forsström^{1, 2}; Mathias Uhlén^{1, 2}; ¹Proteomics and Nanobiotechnology, KTH, Stockholm, SE; ²Science for Life Laboratory, KTH, Solna, SE



- TP 564 Closer Towards the Native State of Proteomes via Quantum Mechanical Protein Extraction; Hartmut Schlüter¹; Marcel Kwiatkowski¹; Refat Nimer¹; Marcus Wurlitzer¹; Sebastian Kruber²; Nils-Owe Hansen²; R.J. Dwayne Miller²; ¹UKE Mass Spec Proteomics, Hamburg, Germany; ²MPSD, Hamburg, Germany
- TP 565 Automated Sample Preparation Solutions for MS-Based Proteomics; Previn Naicker; Isak Gerber; Justin Jordaan; Stoyan Stoychev; CSIR, Pretoria, South Africa
- TP 566 FACS-Proteomics: Combining Intracellular Staining,
 Cell Sorting, and Mass Spectrometry for Proteome
 Analysis of Targeted Cell Subpopulations; Tony Ly;
 Arlene Whigham; Rosemary Clarke; Angus Lamond; Centre
 for Gene Regulation and Expression. Dundee, UK
- TP 567 Integrated Strong Cation-Exchange Hybrid Monolith with Capillary Zone Electrophoresis and Mass Spectrometry for Proteomic Analysis; Zhenbin Zhang; Norman J Dovichi; University of Notre Dame, Notre Dame, IN
- TP 568 Optimizing Virtual 2D gel/MS through the Analysis of *E. coli* and *M. mazei* Cell Lysate; Neil R. Quebbemann; Kate Liu; Rachel O. Loo; Joseph A. Loo; *University of California, Los Angeles, CA*
- TP 569 Title: Secretome Proteomic Analysis of Stimulated Macrophages Using Metabolic Labeling, Click Chemistry Enrichment, and LC-MS/MS; Jeffrey Martin; Cheryl Lu; Benbo Gao; Ru Wei; Peter Juhasz; Biogen Idec, Cambridge, MA
- TP 570 Efficient Desalting and Clean-Up Methods of Protein Digests in Proteomics; Shota Miyazaki¹; Naoyuki Sugiyama²; Chiaki Aoyama¹; Kosuke Osaka¹; Akira Jyukurogi¹; ¹GL Sciences Inc., Saitama, Japan; ²Kyoto University, Kyoto, Japan
- TP 571 Laser Ablation Sample Transfer for Tissue LC-MS/MS
 Proteomic Investigation; Fabrizio Donnarumma; Kermit K.
 Murray; Louisiana State University, Baton Rouge, LA
- TP 572 On-Bead Digestion Tackling the challenges of serum proteomics; Haiyan Zheng¹; Caifeng Zhao¹; Meiqian Qian¹; Swapan Roy²; Absari Arpa²; Matt Kuruc²; ¹Rutgers Center for Proteomics, Piscataway, NJ; ²Biotech Support Group LLC, Monmouth Junction, NJ
- TP 573 Optimization of Pulsed Proteolysis Conditions in Plasma Fractions Increases Sequence Coverage and Depth; Jon Reed^{1, 2}; Gogce Crynen^{1, 2}; Prashanthi Vallabhaneni¹; Rosa Joy¹; James Evans¹; Laila Abdullah¹; Thinh Nguyen¹; Fiona Crawford¹; ¹Roskamp Institute, Sarasota, FL; ²SRQ Bio, Sarasota, FL
- TP 574 Novel Method for Target Protein Identification Utilizing Immobilized Streptavidin Tips; Kim Alving; Aharon Cohen; Bing Wang; Genzyme, a Sanofi company, Waltham, MA
- TP 575

 Preparation of Sequence-Controlled Triblock
 Copolymer-Grafted Silica Microparticles by SequentialATRP for Highly Efficient Glycopeptides Enrichment;
 Yiting Pan; Weijie Qin; Xiaohong Qian; Beijing Proteome
 Research Center, Beijing, China
- TP 576 Identification of Cow Milk-Derived Caseins with Two Dimensional Thin Layer Chromatography Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry (2D-TLC-MALDI-IMS); Egidijus Machtejevas¹; Michael Schulz¹; Knut Behrend²; Sascha Rohn²; Katerina Matheis¹; ¹Merck KGaA, Darmstadt, Germany; ²University of Hamburg, Hamburg, Germany
- TP 577 Development of a Sample Enrichment Protocol Using Click Chemistry for Identification of Protein Targets of Reactive Metabolites in Liver Microsomes; André LeBlanc; Tze Chieh Shiao; René Roy; Lekha Sleno; UQÀM, Montréal, Canada
- TP 578 Cysteine-Selective Dimethylation (cysDML) and Oxidized cysDML (OxcysDML) Methods to Study Redox Signaling in Disease; Liqing Gu; Renã A. S. Robinson; University Of Pittsburgh, Pittsburgh, PA

- TP 579 A Hydrophobic Label-Based Depletion Methodology for Enrichment of Protein N-Terminal Peptides from Microgram-Level Samples; Brian Dill; Joseph Fernandez; Milica Tesic Mark; Henrik Molina; The Rockefeller University, New York, NY
- TP 580 Chemoselective digestion for middle-down proteomics and structural analysis of monoclonal antibodies;

 Kristina Srzentić¹; Konstantin Zhurov¹; Gennady Nikitin¹;

 Mario Cindrić²; Martin Kussmann¹.³; Yury Tsybin¹; ¹Ecole Polytechnique Federale, Lausanne, Switzerland; ²Ruder Boskovic Institute, Zagreb, Croatia; ³Nestlé Institute of Health Sciences, Lausanne, Switzerland
- TP 581 Flexible Automated Sample Preparation Workflows:

 Modified Automated Systems for Specific Immuno-MS
 and MS Workflows; David Colquhoun¹; Mohamed Nazim
 Boutaghou¹; Nishi Rochelle¹; Brett Noel²; Laurie Parker²;
 Kevin W. Meyer³; Scott Kuzdzal¹; Brian Feild¹; ¹Shimadzu
 Scientific Instruments, Columbia, MD; ²University of
 Minnesota, Minneapolis, MN; ³Perfinity Biosciences, West
 Lafayette, IN
- TP 582 Automated Sample Preparation Workflows for Quantitative Proteomics Applications; Oliver Popp¹;

 Lucas Luethy²; Tamara Kanashova¹; HaAn Nguyen¹; Julia Kikuchi¹; Guenter Boehm²; Thomas Blenkers³; Andreas Bruchmann³; Gunnar Dittmar¹; ¹MDC, Berlin, Germany; ²CTC Analytics, Zwingen, Switzerland; ³Axel Semrau GmbH, Sprockhovel, Germany
- TP 583 High pH Reversed-Phase Peptide Fractionation in a Convenient Spin-Column Format; Sergei Snovida¹; Xiaoyue Jiang²; Ramesh Ganapathy¹; Sijian Hou¹; Ryan Bomgarden¹; Paul Haney¹; Rosa Viner²; John C. Rogers¹; ¹Thermo Fisher Scientific, Rockford, IL; ²Thermo Fisher Scientific, San Jose, CA
- TP 584 MStern Blot High Throughput PVDF Membrane-Based Proteomic Samples Preparation for 96-Well Plates;

 Sebastian Berger¹; Saima Ahmed¹; Jan Muntel¹; Nerea Cuevas Polo¹; Richard Bachur²; Alex Kentsis³; Hanno Steen¹; 'Harvard Medical School/Children's Hospital Boston, Boston, MA; 'Boston Children's Hospital, Boston, MA; 'Cornell University, New York, NY
- TP 585 Online Membrane-Assisted Buffer Exchanger Coupled with Multijunction Capillary Isoelectric Focusing Device Enables Fractionation of Intact Human Plasma Proteins by pl; Mohammad Pirmoradian Najafabadi^{1,2}; Juan Astorga-Wells^{1,2}; Roman A. Zubarev¹; ¹Karolinska Institutet, Solna, Sweden; ²Biomotif AB, Stockholm, Sweden
- TP 586 Automated In-Gel Digestion on a Commercial Autosampler Directly Coupled to Nano LC-MS/MS;

 <u>Guenter Boehm</u>²; Achermann François¹; Reto Bolliger²; Natasha Buchs¹; Nicholas Doiron¹; Sophie Lagache Braga¹; Manfred Heller¹; ¹University of Bern, Dpt of Clinical Research, Bern, Switzerland; ²CTC Analytics AG, Zwingen, Switzerland

PROTEOMICS: QUANTITATIVE - STABLE ISOTOPE LABELING METHODS

587-605 TP 587 ITMSQ · A Software Tool for Multiple by Jon

- TP 587 ITMSQ: A Software Tool for Multiple b, y Ion
 Pairs based Isobaric Tandem Mass Spectrometry
 Quantification; Liqi Xie; Lei Zhang; Aiying Nie; Ying Zhang;
 Haojie Lu; Fudan university, shanghai, P.R.China
- TP 588 9-Plex Proteomic Labeling with Neutron-Encoded Amino Acids; Elyse Freiberger¹; Anna Merrill¹; Alex Hebert¹; William Wood²; Marwan ElMasri²; Michael S. Westphall¹; Joel Bradley²; Joshua J. Coon¹; ¹University of Wisconsin, Madison, WI; ²Cambridge Isotope Laboratories, Inc., Tewksbury, MA
- TP 589 **Performance Evaluation of NeuCode Mouse labeling**; Christopher Rose¹; <u>Emily Wilkerson</u>¹; Alan Attie¹; Joshua Baughman²; Joel Bradley³; Marwan ElMasri³; Alex Hebert¹;



- Mark Keller¹; Donald S Kirkpatrick²; Anna Merrill¹; Timothy Rhoads¹; Donald Stapleton¹; Michael S. Westphall¹; Clay Williams¹; William Wood³; Joshua J. Coon¹; ¹University of Wisconsin, Madison, WI; ²Genentech, Inc., South San Francisco, CA; ³Cambridge Isotope Labs., Andover, MA
- TP 590 Developmental Phosphoproteomics Identifies Casein Kinase 2 as a Therapeutic Target in Medulloblastoma;

 Teresa Purzner¹; John Sanders¹; Tom Hartl¹; James
 Purzner¹; Yoon-Jae Cho¹; Josh Elias¹; Matthew Scott²;

 ¹Stanford University, Stanford, CA; ²Carnegie Institution for Science, Washington, DC
- TP 591 Mapping Proteolytic Peptide Production Rates in Plasma Using Stable Isotope Labeled Proteins from the SILAC-Labeled HepG2 Secretome; John B. Mangrum; Erika J. Martin; Donald F. Brophy; Adam M. Hawkridge; Virginia Commonwealth University, Richmond, VA
- TP 592 Quantitation of Methylation Levels in Specifically-Modified Histone H3 Standards by Stable-isotope Labeling and Mass Spectrometry; Steven Toth; Wendell P. Griffith; , Toledo, OH
- TP 593 Identification of p53-Induced Changes to the Non-Small Cell Lung Cancer Proteome; Emmanuel Cudjoe; Khushboo Sharma; John Mangrum; David Gewirtz; Adam Hawkridge; Virginia Commonwealth University, Richmond, Virginia
- TP 594 PCSK9 and Its Variants: A Global Proteomic Study to Identify Interactors and Effects on Protein Trafficking;

 Ge Chu; Zhibin Ning; Janice Mayne; Daniel Figeys;

 University of Ottawa, Ottawa, ON
- TP 595 In-Depth Comparative Mapping of the Global Proteome between Primary and Metastatic Skin Melanoma Cells Derived from the Same Individual; Lei Guo; Weili Miao; Yongsheng Xiao; Yinsheng Wang; University of California, Riverside, Riverside, CA
- TP 596 Quantitative Proteomics Deciphers Druggable ALK Signaling in Neuroblastoma; Kristina B. Emdal; Anna-Kathrine Pedersen; Dorte B. Bekker-Jensen; Chiara Francavilla; Jesper V. Olsen; The NNF Center for Protein Research, Copenhagen, Denmark
- TP 597 Quantification of the Membrane Differential Proteomes by Stable Isotope Labeling and Spectral Counting Strategies; Ying Wai Lam^{1,2}; Bin Deng^{1,2}; Julia Fields^{1,2}; Kenneth Smith¹; Richard Voogt¹; Keith Mintz¹; **Iuniversity of Vermont, Burlington, VT; **2UVM/VGN Proteomics Facility, Burlington, VT
- TP 598 Quantitative Proteomic Profiling of the Newly
 Synthesized Proteins Associated with T Cell Growth;
 Qing Kong; Zengli Guo; Xin Wei; Cui Liu; Xian Chen; Yisong
 Wan; University of North Carolina at Chapel Hill, Chapel Hill,
 NC
- TP 599 Systematic Investigation of Cellular Response and Pleiotropic Effects in Atorvastatin-treated Liver Cells by MS-based Proteomics; Haopeng Xiao; Weixuan Chen; George Tang; Johanna Smeekens; Ronghu Wu; Georgia Institute of Technology, Atlanta, GA
- TP 600 Characterization of Progression-Related Signaling
 Networks in a Colon Cancer Metastasis Model Using
 Phosphoproteomics; Alissa Schunter; Xiaoshan Yue;
 Amanda B. Hummon; University of Notre Dame, Notre
 Dame, IN
- TP 601 Mass Defect-Based Pseudo-Isobaric a1 Ion Pairs
 Enabled Accurate Proteome Quantification with Wide
 Dynamic Range and Deep Coverage; Yuan Zhou; Jianhui
 Liu; Lihua Zhang; Yukui Zhang; Dalian Institute of Chemical
 Physics, Dalian, China
- TP 602 In vitro Metabolic Labeling of Human Gut Microbiota for Quantitative Metaproteomics; Xu Zhang; Zhibin Ning; Janice Mayne; Alain Stintzi; Daniel Figeys; Ottawa Institute of Systems Biology, Ottawa, Canada

- TP 603 Application of Stable Isotope-Labeled Protein Fragments to Investigate the Correlation of Protein and mRNA Levels in Human Cell Lines; Tove Boström¹; Frida Danielsson²; Emma Lundberg²; Henrik J Johansson³; Hanna Tegel⁴; Janne Lehtiö³; Mathias Uhlén²; Sophia Hober¹; Jenny Ottosson Takanen⁴; *1Department of Protein Technology, KTH, Stockholm, Sweden; *2Science for Life Laboratory, KTH, Stockholm, Sweden; *4Department of Proteomics, KTH, Stockholm, Sweden
- TP 604 Targeted Absolute Quantification of Protein by GeLC-MS/MS: Western Blot Takes the Back Seat; Mukesh Kumar¹; Shai Joseph¹; Martina Augsburg²; David Drechsel¹; Nadine Vastenhouw¹; Frank Buchholz²; Marc Gentzel¹; Andrej Shevchenko¹; ¹MPI-CBG, Dresden, Dresden, Germany; ²Medical Systems Biology Medical Faculty,TU Dresden, Dresden, Germany
- TP 605 Characterization of Clinically-Relevant Stable Isotope Labeled Recombinant Proteins For Use As Internal Standards in Quantitative MS Workflows; Kevin Ray; Pegah Jalili; David Rhee; Yongsheng Xiao; James J. Walters; Sigma-Aldrich, St. Louis, MO

BIOMARKER: QUANTITATIVE ANALYSIS (NON-PROTEIN, LIPIDS/METABOLITES/COMBOUNDS) 606-629

- TP 606 Renal Cell Carcinoma Biomarker Screening by High-Performance Liquid Chromatography - Tandem Mass Spectrometry; Sisi Chen¹; Casey Burton¹; Anthony Kaczmarek²; Honglan Shi¹; Yinfa Ma¹; ¹Missouri University of Science and Technology, Rolla, MO; ²Central Missouri Urology Clinic, Rolla, MO
- TP 607 A Fit-for-Purpose LC-MS/MS Method for the Quantitative Measurement of Creatinine in Human Plasma; Yue Zhao; Guowen Liu; Aida Angeles; Lisa Christopher; Xuewen Ma; Jim Shen; Mark Arnold; Bristol-Myers Squibb Co., Princeton,
- TP 608 The analysis of Sweat Biomarkers in Mechanically-Loaded Tissues Using SFC-MS; Julie Herniman¹; G. John Langley¹; Rachel Greenhill¹; Peter Worsley²; Dan Bader²; Tim Jenkins³; ¹Chemistry, University of Southampton, Southampton, UK; ²Health Sciences, University of Southampton, Southampton, UK; ³Waters Corporation, Wilmslow, UK
- TP 609 Method Development for the Determination of 24S-Hydroxycholesterol in Human Plasma by LC/
 APCI-MS/MS; Hiroshi Sugimoto; Masaaki Kakehi; Yoshinori Satomi; Hidenori Kamiguchi; Fumihiro Jinno; Takeda Pharmaceutical Company Limited, Fujisawa, Japan
- TP 610 Rapid and Selective Determination of 3-Nitrotyrosine in Human Blood Plasma; Oleg Timofeev¹; Jin Ji²; ¹Zintro Consulting, Monmouth Jct, NJ; ²Brunswick Laboratories, Inc., Southborough, MA
- TP 611 Quantification of Heparan Sulphate in Mucoploysaccharidoses Patient Urines using Novel Butanolysis Depolymerisation/Desulphation Sample Work-Up; Paul Trim; John Hopwood; Marten Snel; South Australian Health & Medical Research Inst., Adelaide, AUSTRALIA
- TP 612 A Sensitive LC-MS/MS Method for Quantitation of 7α-hydroxy-4-cholesten-3-one in Human Plasma; Dawei Zhou; Xingye Yang; <u>Manik Desai</u>; Jinn Wu; Xinping Fang; XenoBiotic Laboratories, Inc., WuXi AppTec, Inc., Plainsboro, NJ
- TP 613 Noninvasive Measurement of Aristolochic Acid-DNA Adducts in Urine Samples from Rats by Liquid Chromatography Coupled Electrospray Ionization Tandem Mass Spectrometry; Elvis Leung; HKUST, Hong Kong, China



- TP 614 Determination of Endogenous Cortisol in Human Plasma Using LC-MS/MS Techniques with A Combined Calibration Curve and Standard Addition Methods;

 Yansheng Liu¹; Yu-Hui Fu¹; David Winburn¹; Rodney Boughner¹; Stephen Wanaski²; Daniel Selness³; Gene Ray¹;

 **IKCAS LLC, Shawnee, KS; **Marathon Pharmaceuticals, LLC, Northbrook, IL: **Spaulding Clinical Reasearch, West Bend, WI
- TP 615 Aspects of Electrospray Ionization of 25 Hydroxy Vitamin D. Lessons Learned; Eduard Rogatsky; Daniel Stein; Albert Einstein College of Medicine, Bronx, NY
- TP 616

 LC-MS/MS Bioanalytical Support of Mouse Serial
 Microsampling Studies via Extraction of SubMicroliter Volumes: Examples Including the Biomarker
 S-Adenosylmethionine; Bao Hoang; Eric Britton; Casey
 Bonner; Danielle Pessolano; Sean Maki; Rick Luzietti;
 Angela Qi Shen; Steven Wiltshire; Agilux Laboratories,
 Worcester, MA
- TP 617 Using HILIC to Improve LC-MS Sensitivity for the Detection of DNA Adducts Derived from Tobacco Specific N-Nitrosamines; Lucie Loukotkova; Lei Guo; Frederick Beland; Goncalo Gamboa Da Costa; NCTR, US FDA. Jefferson. AR
- TP 618 The Ratio of 8-iso-prostaglandin F2α to Prostaglandin F2α Distinguishes Enzymatic from Nonenzymatic Isoprostane Formation; Fred Bjorn Lih; Thomas J. van 't Erve; Thomas E. Eling; Maria B. Kadiiska; Ronald P. Mason; Leesa J. Deterding; NIEHS / NIH. RTP, NC
- TP 619 Measurement of Flame Retardant Metabolites in Human Urine by Solid Phase Extraction- Ultra High Performance Liquid Chromatography-Tandem Mass Spectrometry; Nayana K. Jayatilaka; Paula Restrepo; Antonia M. Calafat; Liza Valentín-Blasini; Centers for Disease Control and Prevention, Atlanta, GA
- TP 620 Development of a High-Sensitivity Micro LC/MS Method for Estradiol Quantification in Human Plasma; Angela Doneanu¹; <u>James Murphy</u>²; ¹Waters, Milford, MA; ²Waters Corporation, Milford, MA
- TP 621 A Robust and Efficient Approach to Quantitation of Organic Acids in Biological Matrices; Vikki Tsefrikas; Kyle Goodsell; Dylan Bennett; Allysen Meymaris; Agilux Laboratories. Worcester. MA
- TP 622 Quantification of Monohydroxy-Polycyclic Aromatic Hydrocarbons (OH-PAHs) in Urine by Online SPE-HPLC-MS/MS; Yuesong Wang; Lei Meng; Erin Pittman; Alisha Etheredge; Kendra Hubbard; Debra Trinidad; Kayoko Kato; Xiaoyun Ye; Antonia Calafat; CDC, Atlanta, GA
- TP 623 A SWATH-MS Approach to the Secretome under Oxidative Stress Conditions: Proteins and Metabolites Unravelled; Sandra Anjo^{1, 2}; Vera Mendes¹; Mário Grãos¹; Bruno Manadas¹; ¹Center for Neuroscience and Cell Biology, Cantanhede, Portugal; ²Faculty of Sciences and Technology, Coimbra, Portugal
- TP 624 A Multi-Marker Panel for Measuring Oxidative Stress in Tissue Samples Using LC/MS/MS; Hideji Fujiwara; Christopher Holley; David Scherrer; Rohini Sidhu; Daniel Ory; Jean Schaffer; Washington University School of Medicine, St. Louis, MO
- TP 625 High-Throughput Intracellular Pteridinic Profiling by Liquid Chromatography Quadrupole Time-of-Flight Mass Spectrometry; Casey Burton¹; Rui Weng²; Li Yang²; Yu Bai²; Huwei Liu²; Yinfa Ma¹; ¹Missouri University of Science and Technology, Rolla, Missouri; ²Peking University, Beijing, China
- TP 626 Quantification of Quorum Sensing Molecules and their Interaction with Polymixin-B Hemoperfusion in Human Plasma by LC-HRMS; Claudio Medana; Federica Dal Bello; Valentina Santoro; Chiara Martano; Davide Medica; Alessandro Quercia; Vincenzo Cantaluppi; University of Turin, Torino, Italy

- TP 627 Measurement of Catecholamines in Rat and Minipig Plasma and Urine by Liquid Chromatography-Tandem Mass Spectrometry Coupled with Solid Phase Extraction; Huaibing He; Ester Carballo-Jane; Xinchun Tong; Lucinda Cohen; Merck & Co., Inc., Rahway, NJ
- TP 628 Towards a Multi-Analyte, High Dynamic Range, High Throughput LC/MS/MS Smoker Screening Method;

 Vincent Pagnotti; June Feng; Lanqing Wang; Benjamin Blount; U.S. Centers for Disease Control and Prevention,
- TP 629 Analysis of Radiation-Induced Injury by Targeted High-Throughput Metabolomics; Jace W. Jones¹; Claire L Carter¹; Gregory Tudor²; Alexander Bennett¹; Ann Farese¹; Isabel L Jackson¹; Zeljko Vujaskovic¹; Catherine Booth²; Thomas J MacVittie¹; Maureen A Kane¹; ¹University of Maryland, Baltimore, MD; ²Epistem, Ltd., Manchester, UK

DISEASE BIOMARKERS 630-654

- TP 630 Defining Molecular Mechanisms for the Anti-Colon Cancer Activity of Anthocyanin-containing Purple-fleshed Potato: A Shortgun Proteomic Approach; Jairam Vanamala^{1, 2}; Venkata Charepalli¹; Sridhar Radhakrishnan¹; Vadiraja Bhat³; Lavanya Reddivari¹; ¹Pennsylvania State University, University Park, PA; ²The Penn State Hershey Cancer Institute, Hershey, PA; ³Agilent Technologies, Wilmington, DE
- TP 631 From Metabolomic Phenotyping Data to Clinical Signatures; <u>Guido Krebiehl</u>; Guido Dallmann; Therese Koal; Wulf Fischer-Knuppertz; <u>Biocrates Life Sciences AG</u>, <u>Innsbruck</u>, <u>Austria</u>
- TP 632 Proteomics Profiling and Potential Biomarker Detection in Sjogren's Syndrome after Ultrasound-Assisted Gene Transfer of IL-17R:Fc Chimera; Changgong Wu¹; Zhimin Wang¹; Lee Zourelias¹; Hiteshi Thakker²; Michael Passineau¹; ¹Allegheny General Hospital, Pittsburgh, PA;

 2Greentree Medical Associates, Pittsburgh, PA
- TP 633 Mass Spectrometry Based Proteomics for Absolute Quantification of Proteins from Tumor Cells; Hong Wang; Sam Hanash; MD Anderson Cancer Center, Houston. TX
- TP 634 A Quantitative Proteomics Study of Cerebrospinal Fluid from Individual Niemann-Pick Disease, Type C1
 Patients; Stephanie M. Cologna¹; Brian C. Searle²; Paul S.
 Blank¹; Christopher A. Wassif¹; Nicole M. Yanjanin¹; Peter S.
 Backlund¹; Alfred L. Yergey¹; ¹National Institutes of Health,
 Bethesda, MD; ²Proteome Software Inc., Portland, OR
- TP 635 Identification of Stroke Metalloprotein Biomarkers and Metal Profile in Human Blood Plasma for Specialized Treatment; Keaton Nahan¹; Julio Landero Figueroa¹; Opeolu Adeoye²; Joseph Caruso¹; ¹Dept of Chemistry, University of Cincinnati, Cincinnati, Ohio; ²Medical Center, University of Cincinnati, Cincinnati, OH
- TP 636 Identification of Moesin as a New Endothelial Marker in Human Sepsis Using SILAC-Based Secretomics; Oh Kwang Kwon¹; Sae-kwang Ku²; Wonhwa Lee¹; Sunju Kim¹; Joung A Kim¹; Jin Young Kim³; Shin-Woo Kim¹; Sangkyu Lee¹; ¹Kyungpook National University, Daegu, Republic Of Korea; ²Daegu Haany University, Gyeongsan-si, Republic Of Korea; ³Korea Basic Science Institute, Ochang, Republic Of Korea
- TP 637 Identification of Early Proteomic Biomarkers of Nonclinical Cardiotoxicity; Li-Rong Yu; Zhijun Cao; Yuan Gao; Richard Beger; James Fuscoe; Varsha Desai; National Center for Toxicological Research, FDA, Jefferson, AR
- TP 638 Revealing Pathways In COPD-Associated Lung Cancer Via Large-Scale Quantitative Multi-omic Analysis;

 Brian J Sandri¹; Andy H Limper²; Pratik Jagtap³; Svetlana V Avdulov¹; Mark S Peterson¹; Carl Murie⁴; Yang Ping²; Ola Larsson⁴; Peter B Bitterman¹; Leeann Higgins³; Todd



- W Markowski³; Tim J Griffin³; Chris H Wendt^{1, 5}; ¹University of Minnesota, Minneapolis, MN; ²Mayo Clinic, Rochester, MN; ³Center for Mass Spectrometry and Proteomics, UMN, St.Paul, MN; ⁴Karolinska Institute, Solna, Sweden; ⁵VA Medical Center, Minneapolis, MN
- TP 639 NASH Mechanism Understanding Using MS Imaging:
 Discover New Disease State Biomarkers; Pierre-Maxence
 Vaysse¹; Anita M. van den Hoek²; Gregory Hamm¹; Robert
 Kleemann²; Jonathan Stauber¹; Hans M.G. Princen²;

 *ImaBiotech, MS Imaging Dept., Loos, France; *2TNO,
 Metabolic Health Research, Leiden, The Netherland
- TP 640 Development of Multi-Marker Diagnostic Platforms for Early Diagnosis of Hepatocellular Carcinoma; Areum Sohn; . Seoul. South Korea
- TP 641 Proteomic Identification of Head and Neck Cancer Patients with Persistent Human Papillomavirus Infections Associated with Improved Survival; Nicolas Schlecht¹; Nicole Kawachi¹; Yanhua Wang¹.³; Thomas Harris¹; Thomas Belbin¹; Peicheng Du²; Richard Smith³; Ruth Angeletti¹; Michael Prystowsky¹; Jihyeon Lim¹; ¹Albert Einstein College of Medicine, Bronx, NY; ²Rutgers University, Newark, NJ; ³Montefiore Medical Center, Bronx, NY
- TP 642 A Simple and Sensitive Method for the Analysis of Sphingolipid Glycosylation Enables the Differentiation of Ovarian Cancer Sub-Types; Arun Everest-Dass; Merrina Anugraham; Nicolle Packer; Macquarie University, Sydney, Australia
- TP 643

 Determination of Polyp & Cancer-free Resection
 Margins in Colonoscopy, Complex Pelvic and Colonic
 Surgery using Rapid Evaporative Ionization Mass
 Spectrometry; James L Alexander¹; Julia Balog¹.²; Alasdair
 J Scott¹; Abigail VM Speller¹; Laura J Muirhead¹; James
 Kinross¹; Julian P Teare¹; Zoltan Takats¹; ¹Imperial College
 London, London, UK; ²Waters Corporation, Wilmslow, UK
- TP 644 Development of a MS Assay to Identify Breast Cancer Candidate Biomarkers from Formalin-Fixed Paraffin Embedded (FFPE) Tissue; Ten-Yang Yen; Moe Thein; Roger Yen; Leslie Timpe; Bruce Macher; San Francisco State University, San Francisco, CA
- TP 645 Protein Profile of Schistosoma mekongi using GeLC-MS/MS Based Proteomics; Onrapak Reamtong¹; Polkit Sangvanich²; Supaporn Supaporn Nuamtanong¹; Phiraphol Chusongsang¹; Poom Adisakwattana¹; ¹Mahidol University, Bangkok, Thailand; ²Chulalongkorn University, Bangkok, Thailand
- TP 646 Diagnosis of Lung Tumor Types Based on Metabolomic Profiles in Lymph Node Aspirates; Daniel Sappington; , Little Rock, AR
- TP 647 Proteomic and Transcriptomic Profiling of an Inducible Model of Acute Myeloid Leukemia Reveals Novel Insights into Leukemogenesis; Jarrod Sandow; Gabriella Brumatti; Giuseppe Infusini; Paul Ekert; Andrew Webb; The Walter & Eliza Hall Institute, Parkville, Australia
- TP 648 The Oxidized Proteome of Peripheral Blood
 Mononuclear Cells: A Valuable Repository for Clinical
 Proteomics; Daniel Lopez Ferrer; Xiaolei Xie; Xiaoyue
 Jiang; Andreas Huhmer; Thermo Fisher Scientific, San
 Jose CA
- TP 649 Method for the Analysis of Neurosteroids in Human Serum to a LLOQ of 5 pg/mL; Vince Windisch¹; John Slemmon²; John Masucci²; Allan Xu¹; ¹Keystone Bioanalytical, Inc., North Wales, PA; ²Janssen Research and Development, Spring House, PA
- TP 650 The Quantitation of Glucosylsphingosine in Mouse Models of Gaucher Disease by Liquid Chromatography-Tandem Mass Spectrometry; Rick Hamler¹; Nastry Brignol¹; Sean Morrison¹; Angela Sanders²; Leo Dungan¹; Hui Hwa Chang¹; Kenneth J. Valenzano¹; Robert E. Boyd¹;

- Chau Dang¹; Lorne A. Clarke²; Sean W. Clark¹; Elfrida R. Benjamin¹; ¹Amicus Therapeutics, Cranbury, NJ; ²Dept of Medical Genetics, Univ of British Columbia, British Columbia, Canada
- TP 651 **Accurate Quantitation of Plasma** Globotriaosylsphingosine (lyso-Gb3) in Healthy Individuals and Fabry Patients by Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/ MS); Rick Hamler1; Nastry Brignol1; Robert Boyd1; Daniel G. Bichet²; Dominique P. Germain³; Roberto Giugliani⁴; Derralyn A. Hughes⁵; Raphael Schiffmann⁶; William R. Wilcox7; Hadis N. Williams1; Julie Yu1; Jay Barth1; Jeff Castelli¹; Kenneth J. Valenzano¹; Jeff Castelli¹; Elfrida R. Benjamin¹: ¹AMICUS Therapeutics, Paoli, PA: ²Hôpital du Sacré-Coeur, Montreal, Quebec, Canada; 3Hôpital Raymond Poincaré, University of Versailles, Garches, France; ⁴Medical Genetics Service, HCPA/UFRGS, Porto Allegre, Brazil: ⁵Royal Free Campus, University College London, London, UK; Baylor Research Institute, Dallas, Dallas, TX; ⁷Department of Human Genetics, Emory University, Atlanta,
- TP 652 Absolute Quantitation of Apolipoprotein E3 and E4 Isoforms from Human Cerebrospinal Fluid and Brain;

 Alaina Baker-Nigh¹; Kwasi Mawuenyega¹; Vitaliy Ovod¹;

 Hamideh Zakeri¹; Tom Kasten¹; Randall Bateman¹.²;

 ¹Washington University School of Medicine, Saint Louis,

 MO; ²Knight Alzheimer's Disease Research Center, St.

 Louis, MO
- TP 653 SWATH Analysis of Patient-Derived iPSC to Motor Neurons for the Discovery of Protein Network Perturbations that Underlie Motor Neuron Diseases;

 Andrea Matlock; Loren Ornelas; Ronald Holewinski;
 Berhan Mandefro; Lindsay Lenaeus; Anais Sahabian; Clive Svendsen; Dhruv Sareen; Jennifer E. Van Eyk; Cedars-Sinai, Los Angeles, CA
- TP 654 Detection of Breast Cancer Recurrence Using LC-MS/MS Targeted Metabolic Profiling; Jiangjiang Zhu¹; Lingli Deng¹.³; Danijel Djukovic¹; Haiwei Gu¹; Daniel Raftery¹.²; ¹University of Washington, Seattle, WA; ²Fred Hutchinson Cancer Research Center, Seattle, WA; ³Xiamen University, Xiamen. China

IMAGING MS: PHARMACEUTICAL APPLICATIONS 655-667

- TP 655 Utility of High Resolution MALDI Imaging in Drug Discovery: Histological Distribution of Gentamicin in Proximal Renal Tubules of Rats; Hidefumi Kaji¹; Hiroyuki Hashimoto¹; Masayoshi Saito¹; Takushi Yamamoto²; Noriyuki Ojima²; ¹Mitsubishi Tanabe Pharma Corporation, Saitama, Japan; ²Shimadzu Corporation, Kyoto, Japan
- TP 656 MALDI-Imaging Mass Spectrometry for Pharmacokinetics of Transcutaneous Medicine; Eishi Imoto; Osaka University, Suita City, Japan
- TP 657 Blocking NMDA Mediated DYN Neurotoxicity influences Brain Lipids Profile in Traumatic Brain Injury; Amina S.

 Woods¹; Shelley N Jackson¹; Aurelie Roux¹; Ludovic Muller¹;

 J Albert Schultz²; Brian M Cox³, ⁴; Carey Balaban⁵; ¹NIDA-IRP, NIH, Baltimore, MD; ²lonwerks, Inc., Houston, TX;

 ³Uniformed Services University, Bethesda, MD; ⁴Center for Neuroscience and Regenerative Medicine, Rockville, MD;

 ⁵University of Pittsburgh, Pittsburgh, PA
- TP 658 Visualizing Brimonidine Distribution in Pig Optic Nerve
 Tissue by Imaging Mass Spectrometry; Michelle Reyzer;
 Chad Chumbley; Michael DeLisi; Louise Mawn; Eva Harth;
 Robert Galloway; Richard Caprioli; Vanderbilt University,
 Nashville, TN
- TP 659 Small Molecule Analysis in Single Hair Strands for Evaluation of Drug Adherence with IR-MALDESI MSI; Elias Rosen¹; Corbin Thompson²; Mark Bokhart¹; Heather



- Prince²; Craig Sykes²; Angela DM Kashuba²; David C. Muddiman¹; ¹North Carolina State University, Raleigh, NC; ²University of North Carolina, Chapel Hill, NC
- TP 660 Mass Spectrometry Imaging of the Fly Brain; Andrew Ewing^{1, 2}; Nhu Phan²; John Fletcher¹; ¹Chalmers University, Gothenburg, Sweden; ²University of Gothenburg, Gothenburg , Sweden
- TP 661 Under the skin: Biomarkers of Cutaneous Defenses to Vaccines using Mass Spectrometry Imaging; Juliette Masure¹; Hélène Perrin²; Gregory Hamm¹; Maxence Wisztorski⁴; Melody Dufossé²; Charlotte Primard³; Jean-Pierre Both⁵; Michel Salzet⁴; Isabelle Fournier⁴; Anthony Larue⁵; Jonathan Stauber¹; Béhazine Combadière²; ¹ImaBiotech, MS Imaging Dept., Loos, France; ²INSERM U1135-Cimi-Paris, Paris, France; ³Adjuvatis, Lyon, Lyon; ⁴PRISM Lab. INSERM U1192, Univ. Lille1, Villeneuve d'Ascq, France; ⁵CEA-List, Gif-sur-Yvette, France
- TP 662 Distribution of Newly Coordinated ⁵⁷Fe-heme by MALDI FT-ICR MS Imaging Proved the Efficacy of Epoetin Beta Pegol (C.E.R.A.); Makoto Kihara; Mariko Noguchi-Sasaki; Yukari Matsuo-Tezuka; Keigo Yorozu; Mitsue Kurasawa; Hideyuki Yasuno; Yasushi Shimonaka; Chugai Pharmaceutical Co., Ltd, Kamakura, Japan
- TP 663 Blood-Brain Barrier Drug Targeting by Mass Spectrometry Imaging in Early Adme Profiling;

 Theodosia Vallianatou¹; Henrik Loden¹; Anna Nilsson¹;

 Mohammadreza Shariatgorji¹; Marcela Pereira²; Per Svenningsson²; Maria Karlgren¹; Per E. Andren¹; ¹Uppsala University, Uppsala, Sweden; ²Karolinska Institute, Stockholm. Sweden
- TP 664 MALDI-IMS-MSI for the Analysis of 3D Tissue-Engineered Psoriatic Skin Models; Amanda Harvey¹; Laura Cole¹; John Warwick²; Richard Bojar²; David Smith¹; Neil Cross¹; Malcolm Clench¹; ¹Sheffield Hallam University, BMRC, Sheffield, UK; ²Innovenn, York, UK
- TP 665 Mass Spectrometry Imaging of Drug Related Crystal-Like Structures in Frozen and Paraffin Embedded Rabbit Kidney Tissue Sections; Anne L. Bruinen^{1,} ²; Ronald de Vries³; Marjolein van Heerden³; Rob J. Vreeken³; Filip Cuyckens³; Ron M.A. Heeren^{1,2}; ¹FOM Institute AMOLF, Amsterdam, Netherlands; ²M4I, Maastricht University, Maastricht, NL; ³Janssen Pharmaceutica, Beerse. Be
- TP 666 Validating Quantitative Imaging Mass Spectrometry of Pharmaceuticals in Tissue Sections; Chad Chumbley¹; Michelle Reyzer¹; Gwendolyn Marriner²; Laura Via²; Clifton Barry III²; Richard Caprioli¹; ¹Vanderbilt University, Nashville, TN; ²NIH/NIAID, Bethesda, MD
- TP 667 A Nanostructured Matrices Assessment to Study Drugs Distribution in Solid Tumor Tissues by Mass Spectrometry Imaging; Silvia Giordano¹; Lavinia Morosi¹; Roberta Pastorelli¹; Massimo Zucchetti¹; Luigi Falciola²; Giuseppe Cappelletti²; Valentina Pifferi²; Melinda Morelli²; Sonja Visentin³; Enrico Davoli¹; ¹IRCCS Istituto Mario Negri, Milano, Italy; ²Chemistry Dept., University of Milan, Milano, Italy; ³Mol. Biotec. and Health Dept., University of Torino, Torino, Italy

IMAGING MS: DISEASE MARKERS 668-694

- TP 668 Imaging Mass Spectrometry Reveals the Decrease of Cardiolipin on Kidney of NASH Model Mouse; Takahiro Hayasaka; Hirotoshi Fuda; Shu-Ping Hui; Hitoshi Chiba; Hokkaido University, Sapporo, Japan
- TP 669 Using MALDI Mass Spectrometry Imaging to Uncover the Role of Ganglioside Metabolism in Neurodegeneration; Sarah Caughlin; Kristina Jurcic; Ken Yeung; David Cechetto; Shawn Whitehead; Western University, London, Canada

- TP 670 Functional Metabolic Multimodality Imaging by
 Dynamic Nuclear Polarization-Magnetic Resonance
 Imaging and Mass Spectrometry Imaging; Daisuke
 Miura; Fuminori Hyodo; Yoshinori Fujimura; ICMRN, Kyushu
 University. Fukuoka. Japan
- TP 671 MCAEF (Matrix Coating Assisted by an Electric Field):
 a Novel Technique for Enhanced Imaging of Biomarker
 Candidates for Prostate Cancer; Xiaodong Wang¹; Jun
 Han¹; Juncong Yang¹; Jingxi Pan¹; Christoph Borchers¹²; ¹University of Victoria-Genome BC Proteomics Centre,
 Victoria, BC, Canada; ²Dept. of Biochem. & Microbiol., Univ.
 of Victoria, Victoria, BC, Canada
- TP 672 Multimodal Mass Spectrometric Imaging for Targeted Metabolomics of Ovarian Cancer; Martin R. L. Paine¹; Rachel V. Bennett¹; Jaeyeon Kim²; L. DeEtte Walker¹; John McDonald¹; Martin M. Matzuk²; Facundo M. Fernández¹; ¹Georgia Institute of Technology, Atlanta, GA; ²Baylor College of Medicine, Houston, TX
- TP 673 Imaging Mass Spectrometry in Prostate Cancer Looking Beyond Histology; Kristina Schwamborn^{1,}
 ²; Roopika Menon³; Sven Perner³; Richard Caprioli²;
 ¹Technical University Munich, Munich, Germany; ²Vanderbilt University, Nashville, TN; ³Institute of Pathology, Bonn, Germany
- TP 674 Histological Examination of FFPE Pancreas Tumor Sections Combined with Imaging Mass Spectrometry Analysis at High Speed and Spatial Resolution; Jörg Kriegsmann^{1, 4}; Mark Kriegsmann²; Michael Becker³; Soeren-Oliver Deininger³; Mike Otto^{1, 4}; Rita Casadonte⁴;

 1 Center for Histology, Cytology and Molecular Diagn, Trier, Germany; 2University of Heidelberg, Heidelberg, Germany; 3Bruker Daltonik GmbH, Bremen, Germany; 4Proteopath GmbH, Trier, Germany
- TP 675 Tumor Classification Using Mass Spectrometry and Microarrays; Jone Garate¹; Roberto Fernández¹; Sergio Lage¹; Arantza Pérez-Valle²; Tarson Tolentino-Cortez²; Aintzane Asurmendi¹; Egoitz Astigarraga²; María D. Boyano¹; Gabriel Barreda-Gómez²; José A. Fernández¹; ¹University of Basque Country, Leioa, Spain; ²IMG Pharma Biotech, Zamudio, Spain
- TP 676 Imaging Mass Spectrometry of Liver Regeneration after Partial Hepatectomy in Mice Targeting Primary Bile Acids and Nucleotides; Kohta Iguchi¹; Yudai Tsuji²; Taisuke Nakamura²; Tomoyuki Nakamura³; Etsuro Hatano¹; Shinji Uemoto¹; Masaya Ikegawa²; ¹Kyoto University, Kyoto, Japan; ²Doshisha University, Kyoto, Japan; ³Kansai Medical University, Hirakata, Japan
- TP 677 Molecular Imaging of Lipid Alteration and Blood-Brain Barrier Disruption in a Mouse Model of Impact Concussive Traumatic Brain Injury; Bo Yan¹; Yi Pu¹; Andrew M. Fisher^{1, 2}; Chad A. Tagge^{1, 2}; Lee E. Goldstein^{1, 3}; Mark E. McComb¹; Catherine E. Costello¹; ¹Boston University School of Medicine, Boston, MA; ²College of Engineering, Boston University, Boston, Boston, MA; ³Boston University Photonics Center, Boston, MA
- TP 678

 3-Dimensional Molecular Imaging of the Optic Chiasm Glioma Microenvironment; David M. Anderson¹; Anne Solga²; David Gutmann²; Shannon Cornett³; Kristie Rose¹; Kevin Schey¹; Richard Caprioli¹; ¹Vanderbilt University School of Medicine, Nashville, TN; ²Washington University School of Medicine, St. Louis, MO; ³Bruker Daltonics Inc., Billerica, MA
- TP 679 Identification of Lipid Biomarkers of Human Colon Cancer Using Imaging Mass Spectrometry; Jone Garate¹; Joan Bestard-Escalas²; Roberto Fernandez¹; Daniel H. Lopez²; Sergio Lage¹; Rebeca Reigada²; Sam Khorrami^{2, 3}; Jose Reyes^{2, 4}; Isabel Amengual^{2, 5}; Gwendolyn Barcelo-Coblijn²; Jose A. Fernandez¹; ¹Universidad del Pais Vasco, Leioa, SPAIN; ²Research Unit, Hospital



- Universitari Son Espases, Palma, Spain; ³Gastroenterology Unit, Hospital Universitari Son E, Palma, Spain; ⁴Gastroenterology Unit, Hospital Comarcal de Inca, Inca, Spain; ⁵Anatomy Unit, Hospital Universitari Son Espases, Palma, Spain
- TP 680 Nutrient Sequestration at the Pathogen-Human Host Interface: Imaging Mass Spectrometry reveals Bacterial Subpopulations in Biofilms; Jessica Moore¹; Catherine Wakeman²; Michael Noto²; Boone Prentice¹; Jeffrey Spraggins¹; Michael Becker³; Jeremy L. Norris¹; Eric Skaar²; Richard Caprioli¹; ¹Vanderbilt University MSRC, Nashville, TN; ²Vanderbilt University School of Medicine, Nashville, TN; ³Bruker Daltonik GmbH, Bremen, Germany
- TP 681 Proteomic Mass Imaging of Pancreas from Type 2 Diabetes (T2D) Rat Model; Noriyuki Iwasaki¹; Kei Masuyama²; Hiroshi Wakazono²; Takashi Nirasawa¹; Hirofumi Fujigaya²; Masumi Higashiyama²; Daisuke Hibi²; Mayu Shukutani³; Yuki Kuzuhara³; Hiroyuki Yanagi²; Masaya Ikegawa³; ¹Bruker Daltonics K.K., Kanagawa, Japan; ²Ono Pharmaceutical Co.,Ltd., Osaka, Japan; ³Doshisha University, Kyoto, Japan
- TP 682 A MALDI-MS Imaging Study of Changes in Cardiolipin Distribution in Rat Model of Non-Alcoholic Steatosis;

 Hay-Yan J. Wang¹,²; Hsuan-Wen Wu¹; Kuan-Lun Su¹; Zhi-Fu Zheng¹; ¹National Sun Yat-Sen University, Kaohsiung, Taiwan; ²Kaohsiung Medical University, Kaohsiung, Taiwan
- TP 683 Visceral Leishmaniasis Biomarkers Discovery by MALDI Imaging Mass Spectrometry; Daniele F. O. Rocha¹; Vanesssa G. Santos¹; Caroline Jaegger¹; Katia Roberta A. Belaz¹; Anna Maria A. P. Fernandes A. P. Fernandes¹; Selma Giorgio²; Marcos N. Eberlin¹; ¹ThoMSon Lab., Chemistry Institute, UNICAMP, Campinas, Brazil; ²Biology Institute, UNICAMP, Campinas, Brazil
- TP 684 MALDI Imaging Mass Spectrometry Reveals Age-Related Deamidation and Truncation of Human Lens Insoluble Proteins; <u>Jamie L Wenke</u>; Kristie L Rose; Jeffrey Spraggins; Kevin L. Schey; *Vanderbilt University, Nashville,* TN
- TP 685 MALDI-MS Lipid Imaging and [11C] Acetate PET of Tumour Heterogeneity in Non-Small-Cell Lung Cancer; Fiona Henderson¹; David Lewis²; Philippa Hart³; Kevin Brindle²; Dmitry Soloviev²; Kaye Williams¹; Adam Mcmahon¹; ¹University of Manchester, Manchester, UK;

 2CRUK-Cambridge Institute, University of Cambridge, Cambridge, UK; ³Shimadzu, Manchester, UK
- TP 686 Large-Scale Mass Spectrometry Imaging Investigation of Cortical Spreading Depression in a Mouse Model of Migraine; Ricardo Carreira¹; Benjamin Balluff¹; Walid Abdelmoula¹; Jouke Dijkstra¹; Michel Ferrari¹; Else Tolner¹; Arn van den Maagdenberg¹; Liam Mcdonnell²; ¹LUMC, Leiden, NL; ²LUMC & PSF, Pisa, Italy
- TP 687 Investigation of Biomarkers of Laser-Induced Retinal Damage Using Mass Spectrometric Imaging; Richard F.
 Reich; Joseph M. Champaign; US Air Force, Usaf Academy, Colorado [CO]
- TP 688 Proteomic Imaging of amyloids in Brains from Amyloid Precursor Protein (APP) Transgenic Mice in comparison with Human Alzheimer Amyloid; Masaya Ikegawa¹; Tomohiro Miyasaka¹; Noriyuki Iwasaki²; Takashi Nirasawa²; Hiroyuki Sumikura³; Shigeo Murayama³; Yasuo Ihara⁴; ¹Doshisha University, Kyoto, Japan; ²Bruker Daltonics K.K., Yokohama, Japan; ³Tokyo Metropolitan Geriatric Hospital and Inst., Tokyo, Japan; ⁴Doshisha University, Graduate School of Brain Scie, Kyoto, Japan
- TP 689 Multimodal Imaging of Rat Brain, 1-3 Months Post Stroke: A MALDI MS Insight into Long Term Molecular Expression; Philippa Hart¹; Fiona Henderson²; Luis Mancera¹; Omar Belgacem¹; Herve Boutin²; Adam McMahon²; ¹Shimadzu, Manchester, UK; ²Wolfson

TP 690 Studies of Diabetic Myocardial Infarction: In Situ Hydrogel-Mediated Protein Digestion Augments the Identification of Protein Changes Detected by MALDI IMS; Audra Judd; Salisha Hill; Jeremy L. Norris; Michelle Boyzer: Joffroy Spragging: Kristia L. Bosse, Michael E. Hill

Molecular Imaging Centre, Manchester, UK

Reyzer; Jeffrey Spraggins; Kristie L. Rose; Michael F. Hill; Richard Caprioli; *Vanderbilt University School of Medicine, Nashville, TN*

Nashville, TN

- TP 691 Glycopathology Characterization of an N-Glycan Biomarker Panel for Pancreatic Cancer Tissues Using MALDI Imaging Mass Spectrometry and Other Methods; Thomas W. Powers¹; Benjamin A. Neely¹; Huiyuan Tang²; Huarong Xu¹; Peng Gao¹; Anand S. Mehta³; Brian H. Haab²; Richard R. Drake¹; ¹Medical University of South Carolina, Charleston, SC; ²Van Andel Institute, Grand Rapids, MI; ³Drexel University, Doylestown, PA
- TP 692 Polarity Switching Mass Spectrometry Imaging of Lipids Using Infrared Matrix-Assisted Laser Desorption Electrospray Ionization (IR-MALDESI) Coupled to a Q-Exactive Plus; Milad Nazari; Elias Rosen; David C. Muddiman; North Carolina State University, Raleigh, NC
- TP 693

 Visualizing Lipid Inflammatory Pathways in Advanced Pulmonary Tuberculosis Lesion Development by MALDI-MSI and Immunohistochemistry; Brendan Prideaux; Pei-Yu Chen; Nancy Ruel; Matt Zimmerman; Eliseo Eugenin; Véronique Dartois; PHRI, New Jersey Medical School, Rutgers, Newark, NJ
- TP 694 Ion Mobility Mass Spectrometry Imaging of the Human Intraocular Malignancy, Uveal Melanoma; Laura M Cole¹; Hardeep S Mudhar²; Karen Sisley²; Malcolm R Clench¹; ¹Sheffield Hallam University, Sheffield, UK; ²Royal Hallamshire Hospital. Sheffield. UK





WP 001 A Polar Reversed-Phase UPLC/Ultrahigh-Resolution MS Method for Molecular Profiling and Quantitation of Northboric Acids in Oil Sonds Process Woters June	MO; ² Center for CS3M, Rolla, MO; ³ Lincoln University of Missouri, Jefferson City, MO; ⁴ University of Missouri-Columbia, Columbia, MO WP 009 Fragmentation Trees for Automated <i>de novo</i>		
Biomarkers: Discovery272-296	Antibodies and Antibody: Drug Conjugates I	659-687	
Lipids: ID and Structural Analysis	H/D Exchange: Protein Structure/Function I		
Lipids: Quantitative Analysis243-255			
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Drug Metabolism: Quantitative Analysis			
Small Molecules: Quantitative Analysis	Imagng MS: Sample Preparation		
Supplements	LC-MS: Sample Preparation		
Food "omics": MS Characterization of Food and Nutritional	Nanoscale and Microfluidic Separations and MSInstrumentation: New Concepts		
Food Safety			
Energy: Biofuel and Minor Fuel Components035-047	Ambient Ionization: Instrumentation		
Nanomaterials	Ionization Mechanisms		
Elemental Analysis: General001-022	Peptides: PTM Identification		
7.00 0.00 pm Temove all vveaneous postero	Peptides: Quantitative Analysis I		
7:30 – 8:00 pm	Informatics: Skill and DIA Informatics: Peptide ID and Quantification Proteomics: Quantifative - Targeted Protein Quantification		
12:00 – 2:30 pm Even-numbered posters present			
10:30 am – 1:00 pmOdd-numbered posters present	Informatics: SRM and DIA		
7:30 – 8:00 am Set up all Wednesday posters	Biomarkers: Quantitative Analysis	207_308	

- WP 001 A Polar Reversed-Phase UPLC/Ultrahigh-Resolution
 MS Method for Molecular Profiling and Quantitation
 of Naphthenic Acids in Oil Sands Process Water; Jun
 Han¹; Karen Lin¹; Yi Yi²; John Gibson²; Christoph Borchers¹.
 ³; ¹University of Victoria-Genome BC Proteomics Centre,
 Victoria, BC, Canada; ²Alberta Innovates Technology
 Futures, Victoria, BC, Canada; ³Dept. of Biochem &
 Microbiol., Univ. of Victoria, Victoria, BC, Canada
- WP 002 Development of a μ-SPE-direct Sample Analysis
 Mass Spectrometry Method for the Identification and
 Quantification of Disinfection By-Products; Lydon
 Alexandrou¹; Oliver Jones¹; Andrew Minett²; ¹ACROSS,
 School of Applied Sciences, RMIT University, Melbourne,
 VIC. Australia: ²EPREP Pty Ltd, Mulgrave, VIC, Australia
- WP 003 Determination of As,Se and Zn in Superalloy by Dynamic Reaction Cell of Inductively Coupled Plasma Mass Spectrometry; Jingyu Hu; Yanxia Hou; Guowu Yang; Mei Han; Lixia Yang; , Beijing, BEIJNG
- WP 004 High Performence Liquid Chromatography Mass Spectrometry Identification of Tobacco-Specific Nitrosamines in Drinking Water; Xing-Fang Li¹; Beibei Chen²; Yichao Qian¹; ¹University of Alberta, Edmonton, Canada: ²Wuhan University, Wuhan, CN
- WP 005 GC/MS Analysis of Volatile Water Pollutants with Rapid On-Site Sample Preparation; Olga Polyakova¹; Viatcheslav Artaev²; Albert T. Lebedev¹; ¹Moscow State University, Moscow, Russian Federation; ²LECO Corporation, St Joseph. MI
- WP 006 GC-APLI for Trace Analysis of PAHs in Particulate
 Matter from Ambient Air; Masha Pitiranggon¹; Thomas
 Arthen-Engeland²; Verena Tellstroem²; Beizhan Yan¹;
 Carsten Baessmann²; ¹Lamont-Doherty Earth Observatory
 of Columbia Univ., Palisades, NY; ²Bruker Daltonik GmbH,
 Bremen, Germany
- WP 007 Experimental and Theoretical Insights into H2O
 Activation by Th+: The Spin-Orbit Effect; Richard Cox¹;
 Peter Armentrout²; ¹Department of Chemistry, University of
 Utah, Salt Lake City, UT; ²University of Utah, Salt Lake City,
- WP 008 Development of a Rapid Ion Chromatography-Tandem Mass Spectrometry Method for Simultaneous Analysis of Haloacetic Acids and Related Halogen Compounds; Runmiao Xue^{1, 2}; Honglan Shi^{1, 2}; John Yang³; Enos Inniss⁴; ¹Missouri University of Science and Technology, Rolla,

- WP 009 Fragmentation Trees for Automated de novo Interpretation of Impure Electron Ionization Spectra from Gas Chromatographic Complex Mixture Analysis: Chemical Deconvolution; Kevin Siek¹; Vasily Makarov²; Viatcheslav Artaev¹; Dmitry Mazur³; Albert T. Lebedev³;

 1LECO Corporation, Saint Joseph, MI; 2Mass Spectrometry Consulting Ltd., Bar, Montenegro; 3Moscow State University, Moscow. Russian Federation
- WP 010 Novel Approach for *in vivo* Metabolic and Contaminant Profiling of Underwater Ecosystems by LC-HRMS using Solid Phase Microextraction as a Sampling Tool; Barbara Bojko^{1,2}; Ezel Boyacı¹; Krzysztof Goryński^{1,2}; Thanos Dailianis³; Evangelina Yiantzi⁴; Eleftheria Psillakis⁴; Janusz Pawliszyn¹; *1University of Waterloo, Waterloo, Canada; *2Collegium Medicum, Nicolaus Copernicus University, Torun, Poland; *3Hellenic Centre for Marine Research, Heraklion, Crete, Greece; *Technical University of Crete, Chania, Greece
- WP 011 Determination of BMAA, DAB, AEG and Three Alkaloid Cyanotoxins in Lake Water using Dansyl Chloride Derivatization and UHPLC-HESI-HRMS Detection;

 <u>Audrey Roy-Lachapelle</u>; Morgan Solliec; Sébastien Sauvé; Université de Montréal, Montréal, Canada
- WP 012 Non-targeted Approach for the Evaluation of Concentration Fluctuations in the Effluent of Different Wastewater Treatment Plants; Matthias Ruff; Rahel Comte; Martin Loos; Heinz Singer; Eawag, Duebendorf, Switzerland
- WP 013 Thermal Desorption Gas Chromatography High Resolution Time-of-Flight Mass Spectrometry (TD-GC-HRT MS) for Analysis of Geochemical Biomarkers; Giovana Bataglion¹; Clécio Klitzke²; Joe Binkley²; Jeffrey Patrick²; Marcos Eberlin¹; ¹Unicamp, Campinas, SP-Brazil; ²LECO Corporation, St. Joseph, MI
- WP 014 Detection of Toxic Substances in Environmental Samples by Liquid Chromatography-Tandem Mass Spectrometry and Metabolomics; Sam Li; Wenlin Zhang; Si Ni Lee; Le Rong; Thawatchai Maneerung; Chi-Hwa Wang; Koon Gee Neoh; National University of Singapore, Singapore, Singapore
- WP 015 Accurate Mass Quantification of Brominated Flame Retardants in Milk by Q-TOF Based; Xin Ma; Zheng-xiang Zhang; Tao Bo; Agilent Technologies, Beijing, China



- WP 016 Screening Lake Trout for Perfluorinated and Polyfluorinated Compounds in Lake Trout Using UPLC-QToF in Mse Mode; Sadjad Fakouri Baygi; Bernard Crimmins; Thomas Holsen; Clarkson University, Potsdam, NY
- WP 017 The Detection of Trace Organic Pollutes by the Ion-Molecular Reaction of Arylnitrenium Ions in Gas Phase via Mass Spectrometry; Lei Yue¹; Chuanfan Ding²; Yuanjiang Pan¹; ¹Department of chemistry, Zhejiang University, Hang Zhou, China; ²Department of chemistry, Fudan University, Shang Hai, China
- WP 018 Method Optimization for the Separation and Quantification of Key Metabolites in Daphnia magna tissues; Philippe Venne¹; Viviane Yargeau²; Pedro A. Segura¹; ¹University of Sherbrooke, Sherbrooke, Canada; ²McGill University, Montreal, Canada
- WP 019 Determination of Phthalates in Environmental Matrices;
 Oihana Ros Ibarretxe¹; Grazina Pacepavicius²; Tommy
 Bisbicos²; Ailette Prieto Sobrino¹; Asier Vallejo Ruiz¹;
 Mehran Alaee²; ¹University of the Basque Country (UPV/EHU), Bilbao, Spain; ²Environment Canada, Burlington,
 Canada
- WP 020 Uranium Quantification in Ores by Microwave Plasma Torch Tandem Mass Spectrometry; Meiling Yang; Eric Handberg; Juchao Liang; Huanwen Chen; East China Institute of Tech., Nanchang, China
- WP 021 Orbitrap Mass Spectrometry Characterization of Water Samples Derived from Athabasca Lean Oil Sands and Mixed Surficial Materials; John Headley¹; Kerry M. Peru¹; Chris Swyngedouw²; Ian Fleming³; ¹Environment Canada, Saskatoon, Canada; ²Exova, Calgary, Canada; ³University of Saskatchewan, Saskatoon, Canada
- WP 022 Soil Humic Acids- A Potential Common Source and Formation Process Elucidated by ESI-FTICR-MS;
 Nicole DiDonato; Hongmei Chen; Derek Waggoner; Patrick Hatcher; Old Dominion University, Norfolk, VA

NANOMATERIALS 023-034

- WP 023 The Evaluation of Amine Core Dendrimers as
 Calibrants for Electrospray Ionization (ESI) and MatrixAssisted Laser Desorption/Ionization (MALDI) Mass
 Spectrometry; Brittany K. Casey; Scott M. Grayson; Tulane
 University. New Orleans. LA
- WP 024 Single Particle Inductively Coupled Plasma-Mass Spectrometry Analysis of Nanoparticles Uptake by Crops; Yongbo Dan².³; Honglan Shi²; Xingmao Ma¹.³; Weilan Zhang¹; Runmiao Xue²; Chady Stephan⁴; ¹Southern Illinois University, Carbondale, IL; ²Missouri University of Science and Technology, Rolla, MO; ³CS3M center at Missouri University of Sci&Tech, Rolla, MO; ⁴PerkinElmer Inc, Woodbridge, On
- WP 025 Investigation of Substrate-Assisted Laser Desorption for Gold Nanoparticle Analysis with ICP MS; Iva
 Benešová¹; Kristýna Dlabková¹; Tomáš Vaculovič¹.²; Viktor Kanický¹.²; Jan Preisler¹.²; ¹Masaryk University, Brno, Czech Republic; ²CEITEC MU, Brno, Czech Republic
- WP 026 A Novel Carrier Based on TiO₂ Suitable for Isolation of His-tagged Recombinant Proteins and Peptides; Rudolf Kupcik; Jan Macak; Pavla Krulisova; Pavel Rehulka; Zuzana Bilkova; University of Pardubice, Pardubice, Czech Republic
- WP 027 Surface Characterization of Nanometer-Thick Organic Layers on Nanomaterials using Ambient Ionization Mass Spectrometry; Sharanya Reddy; Chady Stephan; Craig Whitehouse; PerkinElmer, Shelton, CT
- WP 028 Enhanced LDI-MS Detection of Gold Nanoparticles in Biological Samples using the Synergy between Added Matrix and the Gold Core; Alyssa Marsico; Sukru Gokhan Elci; Daniel Moyano; Gulen Yesilbag Tonga; Bradley Duncan; Ryan Landis; Vincent M. Rotello; Richard Vachet; University of Massachusetts Amherst, Amherst, MA

- WP 029 Polypyrrole/Multi-walled Carbon Nanotube Composites
 Combined with GC-MS/MS for Determination of
 Ultraviolet Filters and its Metabolites in River Water and
 Urine; Yu-Chen Liao; Yu-Min Liu; Maw-Rong Lee; National
 Chung-Hsing University. Taichung, Taiwan
- WP 030 Solid Matrices for the Small Molecule Analysis using MALDI-TOF Mass Spectrometry; Jo-II Kim; Jae-Chul Pyun; Yonsei University, Seoul, South Korea
- WP 031 The Use of Ion Mobility Spectrometry-Mass Spectrometry (IMS-MS) to Elucidate Arm-Dispersity within Star Polymers; Scott M. Grayson¹; Casey D. Foley²; Boyu Zhang¹; Sarah Trimpin²; 'Tulane University, New Orleans, LA; ²Wayne State University, Detroit, MI
- WP 032 Quantitative Analysis of Drug Loading on Nanoparticlebased Cancer Therapeutics using Scanning Particle Mobility Mass Spectrometry; Sherrie Elzey¹; De-Hao Tsai²; Tae Joon Cho²; Julien Gigault²; Vincent Hackley²; ¹TSI Incorporated, Shoreview, MN; ²National Institute of Standards and Technology, Gaithersburg, MD
- WP 033 Binding Selectivity of Cucurbit[5]uril (CB5) and Substituted Cucurbit[5]uril For Anions in the Gas Phase; <u>Jiewen Shen</u>; David V. Dearden; *Brigham Young University*. Provo. UT
- WP 034 9.4 T FT-ICR Mass Spectrometer with Cluster Ion Source for Analysis of Formation and Structure of Metallofullerenes and Other Nanomaterials; Paul W. Dunk^{1, 2}; Nathan K. Kaiser²; Alan G. Marshall^{1, 2}; Harold W. Kroto¹; ¹Florida State University, Tallahassee, FL; ²National High Magnetic Field Laboratory, Tallahassee, FL

ENERGY: BIOFUEL AND MINOR FUEL COMPONENTS 035-047

- WP 035 Quantification of an Anionic Surfactant in Brine Using Solvent Extraction Followed by Spectrophotometry, Evaporative Light Scattering Detection, and Mass Spectrometry; Mark Romanczyk; Xueming Dong; Ravikiran Yerabolu; Hilkka Kenttamaa; Purdue University, West Lafayette. IN
- WP 036 Chemical Fingerprinting of Fast and Slow Pyrolysis Oils with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry; Janne Janis; University of Eastern Finland, Joensuu, Finland
- WP 037 Screening of Ligands as Copper Sequestrating Agent by Electrospray Mass Spectrometry (ESI-MS): A Clue for Additivation of Diesel Fuel; Cécile Perret¹; Hélène Nierengarten³; Amandine Racaud⁴; Géraldine Papin⁴; Aziz Jouaiti²; Mir Wais Hosseini²; Emmanuelle Leize-Wagner¹; ¹LSMIS UMR 7140 CNRS/University of Strasbourg, Strasbourg, France; ²LTM UMR 7140 CNRS/University of Strasbourg, Strasbourg, France; ³Service de Spectrométrie de Masse UMR 7177, Strasbourg, France; ⁴CReS TOTAL, Solaize, France
- WP 038 Field-portable GC/MS for the Direct Analysis of Fuel Tracers; Philip Tackett; Cynthia Liu; Leonard Rorrer; Mitch Wells; Dennis Barket, Jr; FLIR Systems, West Lafayette, IN
- WP 039 Structural Effects on the Ionization Response of Lignin Model Compounds during Electrospray Ionization; <u>Fan Huang</u>; Bert C. Lynn; *University of Kentucky, Lexington, KY*
- WP 040 Biomarker Identification in Crude Oil by using Gas Chromatography/ High-Resolution Mass Spectrometry with Electron Ionization and Field Ionization; Masaaki Ubukata; A. John Dane; Robert B. Cody; JEOL USA, INC., Peabody, MA
- WP 041 Thin-film Pyrolysis High Resolution Mass Spectrometry of Glucose-based Carbohydrates: Real-time Monitoring of Products and Their Temporal Profiles; Daniel Cole; Carolyn Hutchinson; Young Jin Lee; Iowa State Univ Chemistry Dept, Ames, IA
- WP 042 Analysis of Biodiesel Contamination In Jet Fuel using Supercritical Fluid Chromatography-Electrospray Ionisation Mass Spectrometry (SFC-ESI-MS); Waraporn



- Ratsameepakai¹; Julie Herniman¹; Tim Jenkins²; G John Langley¹; ¹University of Southampton, Southampton, UK; ²Waters Corporation, Wilmslow, UK
- WP 043 Molecular Level Characterization of Solid Graphite Pitches by High Resolution MALDI Ion Mobility Mass Spectrometry; Wen Zhang; Hans Joachim Räder; Klaus Müllen; MPI for Polymer Research, Mainz, Germany
- WP 044 The Carbon Isotopic (13C/12C) Signature of Sugar Cane Bioethanol: Certifying the Major Source of Renewable Fuel from Brazil; Laura A. Neves1; Gabriel F. Sarmanho1; Valnei. S. Cunha1; Romeu J. Daroda1; Marcos N. Eberlin2; Maíra Fasciotti1.2; 1INMETRO, Duque De Caxias, Brazil; 2University of Campinas, UNICAMP, Campinas, Brazil
- WP 045 Fragmentation of Deprotonated Model Compounds with Lignin Carbohydrate Linkages upon Collision Activated Dissociation (CAD); Christopher Marcum; Weijuan Tang; Huaming Sheng; Tiffany Jarrell; Hilkka Kenttämaa; Purdue University, West Lafayette, IN
- WP 046 Characterization of a Municipal Solid Waste
 Pyrolysis Oil by Electrospray Ionization FT-ICR Mass
 Spectrometry; Rebecca Beasley¹; Alan G. Marshall¹.

 ²; Ryan P. Rodgers^{1, 3}; ¹The Florida State University,
 Tallahassee, FL; ²Ion Cyclotron Resonance Prog,
 Tallahassee, FL; ³Future Fuels Institute, Tallahassee, FL
- WP 047 Exploring Mechanisms of Fast Pyrolysis of Lignin via Tandem Mass Spectrometry and Quantum Chemical Calculations: A Synthetic Model Compound Study; Priya Murria; Jinshan Gao; John C. Degenstein; Huaming Sheng; Matthew R. Hurt; John J. Nash; Hilkka I. Kenttämaa; Purdue University, West Lafayette, U.S.

FOOD SAFETY 048-082

- WP 048 Improved Analysis of Veterinary Drug Residues in Biological Tissues by UHPLC-MS/MS; ; Alan Lightfield; U.S. Dept. of Agriculture, Wyndmoor, PA
- WP 049 Applications of Liquid Chromatography-High Resolution Mass Spectrometry for the Analysis of Pesticides in Fresh Produce and Teas; Kelli Simon¹; Jon Wong¹; Alexander Krynitsky¹; Zhengwei Jia²; Jian Wang³; James Wittenberg¹; Hoon Park¹; ¹FDA, College Park, MD; ²Shanghai Institute for Food and Drug Control, Shanghai, China; ³Canadian Food Inspection Agency, Calgary AB, Canada
- WP 050 Determination of Pesticides in Foods using Dopant-optimized Gas Chromatography-Atmospheric Pressure Chemical Ionization Quadrupole-Time-of-Flight Mass Spectrometry; Kyung Hoon Cha^{1, 2}; Shin-Kwon Kang²; Sawyen Ow²; Jong Hwa Lee¹; Jung-Hak Lee¹; Jeong-Han Kim¹; Dong-Ho Kim³; ¹Seoul National University, Seoul, Korea; ²Bruker Korea Ltd., Seongnam-Si, Korea; ³Experimental Research Institute, NAQS, Gimcheon-si, Korea
- WP 051 The Use of Silica Plate Imprinting for Molecular Trapping Followed by Laser Desorption Ionization Mass Spectrometry; <u>Diogo Noin De Oliveira</u>; Mônica Ferreira; Rodrigo Catharino; *Innovare Biomarkers Laboratory UNICAMP, Campinas, Brazil*
- WP 052 New Analytical Tools to Tackle an Old Problem:
 Strategies for the Screening and Identification of
 Mycotoxins in Food by UHPLC/QTOF/MS; Elisabeth
 Varga¹; Emma Rennie²; Thomas Glauner³; Michael Sulyok¹;
 Maria Vandamme²; Rudolf Krska¹; Franz Berthiller¹; ¹Univ
 of Natural Resources and Life Sciences, Vienna (BOKU),
 Austria; ²Agilent Technologies Inc, Santa Clara, CA; ³Agilent
 Technologies Sales&Services GmbH, Waldbronn, Germany
- WP 053 Fast GC-MS/MS Analysis of Multicomponent Pesticides Residues (360) in Food Matrices using UFMS Technology; Hendrik J. Schulte¹; Hans-Ulrich Baier¹; Stephane Moreau¹; Klaus Bollig²; ¹SHIMADZU Europa

- Gmbh, Duisburg, Germany; ²Shimadzu, Duisburg, N/A
 WP 054
 A Comparative Study of Targeted Screening Method
 by LC/MS/MS and Un-targeted Screening Method by
 LC-TOF in Residual Pesticides Analysis; <u>Zhaoqi Zhan</u>;
 Jie Xing; Zhe Sun; Zhi Wei Ting; Yin Ling Chew; Customer
 Support Centre, Shimadzu (Asia Pacific), Pte Ltd, Singapore
- WP 055 Applying 'Fast GC-MS/MS' using Triple Quadrupole Technology to Increase Productivity for Pesticide Residue Analysis in QuEChERS Extracts; Cristian Cojocariu¹; Mike Hetmanski²; Richard Fussell²; Dominic Roberts¹; Paul Silcock¹; Sergio Guazzotti³; Jason Cole³; ¹Thermo Fisher Scientific, Runcorn, UK; ²Food and Environment Research Agency, York, UK; ³Thermo Fisher Scientific, Austin. TX
- WP 056 Quantitative and Qualitative Confirmation of Pesticides in Beet Extract Using High Resolution Accurate Mass (HRAM) Mass Spectrometry; Charles T. Yang²; Dipankar Ghosh²; Olaf Scheibner¹; ¹Thermo Fisher Scientific, Bremen, Germany; ²Thermo Fisher Scientific, San Jose, CA
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- WP 068 Optimisation and Validation of a Multi-class, Multi-residue Method for Veterinary Drug Confirmation in Animal Derived Food by UHPLC-MS/MS; David Baker¹; Neil J Loftus¹; Laetitia Fages²; Eric Capodanno²; Mikael Levi³; ¹Shimadzu, Manchester, UK; ²Phytocontrol, Nimes, France; ³Shimadzu France, Marne-La-Vallée, France
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- Hayakawa²; ¹Shimadzu Corporation, Tokyo, Japan; ²Shimadzu Corporation, Kyoto, Japan; ³Miyazaki Enterprise Promotion Organization, Miyazaki, Japan; ⁴Miyazaki Agricultural Research Institute, Miyazaki, Japan
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Agilent Technologies, Santa Clara, CA

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 Redwood City, CA; ³AB SCIEX, Warrington, UK; ⁴Institut de
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 ⁵IGBMC,INSERM, CNRS, Université de Strasbourg,
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- WP 253 Label-free Quantification of Isomeric Wax Esters by Direct Infusion ESI MS/MS: A Study of Human Meibomian Gland Secretions; Jianzhong Chen¹; Kari Green²; Kelly Nichols¹; ¹University of Alabama at Birmingham, Birmingham, AL; ²University of Florida, Gainesville, Fl
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 2University of Massachusetts, Amherst, MA
- WP 274 Proteomics Analysis of the Cerebral Cortex after
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 1/Institute of Chemistry of São Carlos, São Carlos, São Paulo; ²USP, São Carlos, Brasil
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- Pocock⁴; Malcolm Ward¹; ¹Proteome Sciences, Cobham, UK; ²University of Eastern Finland, Kuopio, Finland; ³2The Sahlgrenska Academy, University of Gothenburg, Gothenberg, Sweden; ⁴UCL Institute of Neurology, London, IJK
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- WP 296 Development and Application of a Simple Nano-Proteomic Platform (SNaPP) for Effective Analysis of Sub-microgram Proteome Samples; Paul D. Piehowski¹; Eric L. Huang¹; Daniel J. Orton¹; Moore J. Ronald¹; William B. Chrisler¹; Rosalie K. Chu¹; Kristin E. Burnum-Johnson¹; Xiaofei Sun²; Sudhansu K. Dey²; Liu Tao¹; Wei-Jun Qian¹; Richard D. Smith¹; **Pacific Northwest National Lab, Richland, WA; **Cincinnati Children's Hospital Medical Center, Cincinnati, OH

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- WP 301 Absolute Quantification of Apolipoprotein A1 using

- Fully Isotopically Labeled Protein Standard by LC-MRM/MS in Human Serum; Qingqing Wang^{1, 2}; Suhong Zhang¹; Lili Guo¹; Christine Busch¹; Wenying Jian³; Naidong Weng³; Clementina Mesaros¹; Ian A. Blair¹; ¹University of Pennsylvania, Philadelphia, PA; ²Beijing Institute of Radiation Medicine, Beijing, C.N; ³Johnson & Johnson, Philadelphia, PA
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- WP 318 A Novel DIA-based Translational Analysis Pipeline Applied to the Discovery and Verification of potential Biomarkers for Type 2 Diabetes; Amol Prakash¹; Scott Peterman²; David Sarracino²; Maryann Vogelsang²; Patrick Muraca³; Allison B. Goldfine⁴; Mary Elizabeth Patti⁴; Mary F Lopez³; ¹Optys Tech Corporation, Philadelphia, PA; ²ThermoFisher Scientific, Cambridge, MA; ³Nuclea Biotechnologies, Pittsfield, MA; ⁴Joslin Diabetes Center and Harvard Medical School, Boston, MA

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- WP 327 DeMixQ: Novel Peptide Propagation Scheme for Label-Free Quantification Solves the Problem of Missing Values in Data-Dependent Acquisition; Bo Zhang¹; Lukas Käll²; Roman Zubarev¹; ¹Karolinska Institutet, Stockholm, Sweden; ²Royal Institute of Technology, Stockholm, Sweden
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- WP 329 Supervised, Image-Based Analysis of Triple-SILAC Labeled Phospho-Peptides; Peter Askovich¹; Frank Schmitz^{1,2}; Alan Diercks¹; Alan Aderem¹; ¹Seattle Biomedical Research Institute, Seattle, WA; ²Celgene, Seattle, WA
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 Shenzhen, China; '2University of Cambridge, Cambridge,
 UK; 'Beijing Institute of Genomics, Beijing, China
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 Smallegan¹; James Dowell¹.²; ¹Wisconsin Institute for
 Discovery, Madison, WI; ²UW-Madison, Madison, WI
- WP 337 Towards Modified Peptide Identification using Blazmass; Lin He; Robin Park; John Yates; The Scripps Research Institute, La Jolla, CA
- WP 338 An Intensity Based Quantification Strategy for HR-PRM



- Dependent Detection of Low D3-Leu Tracer Enrichment in APOA-I; Brett Pieper; Wilson Goh; Masanori Aikawa; Sasha Singh; Brigham and Women's Hospital/Harvard Medical Sch, Boston, MA
- WP 339 Impact of Various Gel Storage Conditions on Overall LC-MS Identification Outcome; Michaela Scigelova¹; Petra Dvorakova²; Lenka Hernychova²; Martina Zahradnikova²; Torsten Ueckert¹; Bernard Delanghe¹;

 1 Thermo Fisher Scientific, Bremen, Germany; 2 Masarykuv onkologicky ustav. Brno. Czech Republic

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- WP 340 Analysis of Angiotensinogen Redox Switch Involved in the Pathogenesis of pre-Eclampsia by Targeted LC-MS/MS; Lina Dahabiyeh¹; David Tooth²; Rob Layfield²; Aiwu Zhou³; Robin Carrell⁴; Yahui Yan⁴; Randy Read⁴; David Barrett¹; ¹University of Nottingham, School of Pharmacy, Nottingham, UK; ²Biomedical Sciences School, Nottingham University, Nottingham, UK; ³Shanghai Jiatong University, Shanghai, China; ⁴University of Cambridge, Cambridge, UK
- WP 341 Optimization of Signature Peptide Formation for LC-MS/MS Quantification of Humanized Monoclonal Antibody
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 inVentiv Health Clinical, Québec, Canada
- WP 342 Quantification of Low Abundant Amino
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 Christof Lenz¹.²; Henning Urlaub¹.²; Marina V. Rodnina¹;
 ¹Max Planck Institute for Biophysical Chemistry, Goettingen,
 Germany; ²University Medical Center (UMG), Goettingen,
 Germany
- WP 343 A Single, Rapid Integrated Method to Quantify the Anti-Inflammatory Protein, TSG-6, by On-Column Proteolytic Digestion Followed by LC/ESI-MSMS; Joshua Emory²; Benjamin Oyler¹; Timothy Varney²; Kathleen Housman²; Jonathan Oyler²; ¹University of Maryland, Baltimore, Whiteford, MD; ²USA Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD
- WP 344 Systematic Comparison of Internal Standard Platforms for Absolute Protein Quantification of Cytokines by MRM-MS; Kerry Bauer^{1, 2}; Illarion Turko^{1, 2}; Karen Phinney¹; ¹National Institute of Standards and Technology, Gaithersburg, MD; ²Institute for Bioscience and Biotechnology Researc, Rockville, MD
- WP 345 Absolute Quantification of Key Pathway Proteins Reveals SOS1 as the Bottleneck of ERK Response in the Ras-MAPK Pathway; Tujin Shi¹; Mario Niepel²; Carrie D. Nicora¹; Yuqian Gao¹; Thomas L. Fillmore³; William B. Chrisler¹; Matthew J. Gaffrey¹; Ronald J. Moore¹; Tao Liu¹; David G. Camp II¹; Richard D. Smith¹; Karin D. Rodland¹; Peter K. Sorger²; H. Steven Wiley³; Wei-Jun Qian¹; ¹PNNL, Richland, WA; ²Harvard Medical School, Boston, MA; ³EMSL, PNNL, Richland, WA
- WP 346 Gaining Insight into Complex Biology During the Drug Discovery Process Using Quantitative Immunocapture MicroFlow LC-MS/MS; Eugene F. Ciccimaro; Bogdan Sleczka; Yongxin Zhu; John T. Mehl; Bryan Parks; Susan Kuklenyik; David M. Schieltz; Michael Gardner; Jon Rees; McWilliams Lisa; Yulanda Williamson; John R. Barr; Centers for Disease Control and Prevention, Atlanta, GA
- WP 358 Multiplexed Mass Spectrometry Analysis of Metabolic Reprogramming in Colorectal Cancer Cells; <u>Josiah Hutton</u>¹; Lisa Zimmerman^{1,2}; Robbert Slebos^{1,2}; Daniel Liebler^{1,2}; 'Vanderbilt University Medical Center, Nashville, TN; 'Jim Ayers Institute, Nashville, TN
- WP 359 Evaluating Challenges Associated with Fast

- Quantitation of Multiple Proteins using a UHPLC-triple Quadrupole Electrospray Ionization Mass Spectrometer (LC-QQQ ESI-MS); Rohana Liyanage¹; Jennifer Gidden¹; Jeremy Post²; David Colquhoun²; Ben Figard³; <u>Jackson O. Lay Jr¹</u>; ¹University of Arkansas, Fayetteville, AR; ²Shimadzu Scientific Instruments, Columbia, MD; ³Shimadzu Scientific. Houston, TX
- WP 360 A Complete Solution for the Reproducible and Standardized Evaluation of Candidate CVD Protein Biomarkers in Human Plasma; Andrew Percy¹;

 Juncong Yang¹; Darryl Hardie¹; Nicole Sessler¹; Yassene Mohammed¹.²; Christoph Borchers¹.³; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC, Canada; ²Center for Proteomics & Metabolom., Leiden UMedCtr, Leiden, The Netherlands; ³Dept. of Biochem. & Microbiol., Univ. of Victoria, Victoria, BC, Canada
- WP 361 Toward the Development of Scheduled MRM Analysis for Proteome-Wide Profiling of GTP-binding Proteins;

 Ming Huang; Yongsheng Xiao; Yinsheng Wang; University of California Riverside, Riverside, CA
- WP 362 Affinity Tag- and *in vitro* Expression-Based Synthesis of Stable Isotope-Labeled Peptides for Quantitative Proteomics; Feng Xian^{1, 2}; Quanhui Wang^{1, 2}; Haidan Sun¹; Xiaomin Lou¹; Jin Zi²; Guixue Hou^{1, 2}; Lin Wu¹; Siqi Liu^{1, 2}; ¹Beijing Institute of Genomics, CAS, Beijing, China; ²BGI-Shenzhen, Shenzhen, China

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- WP 363 Natural Flanking Sequences for Peptides Included in Quantification Concatamer Internal Standard; <u>Crystal Cheung</u>¹; Kyle Anderson²; Meiyao Wang¹; Illarion Turko²;

 1/BBR, Rockville, Maryland; 2NIST, Gaithersburg, MD
- WP 364 Quantification of Histone Post-Translational
 Modifications by Mass Spectrometry; Zuo-Fei Yuan¹;
 Shu Lin¹; Rosalynn C. Molden²; Xing-Jun Cao¹; Natarajan
 V. Bhanu¹; Xiaoshi Wang¹; Simone Sidoli¹; Shichong
 Liu¹; Benjamin A. Garcia¹; ¹University of Pennsylvania,
 Philadelphia, PA; ²Princeton University, Princeton, NJ
- WP 365 Ultrafast and Robust Optimization of Peptide MRMs
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 Spectrometer; <u>Jeff Dahl</u>; David Colquhoun; Shimadzu
 Scientific Instruments, Columbia, MD
- WP 366 Generation of Reproducible Mass Spectra by MALDI and Its Application to Quantification of Peptides and Proteins; Sung Hee Ahn¹; Jeong Hee Moon²; Seong Hoon Lee¹; Myung Soo Kim¹; ¹Seoul National University, Seoul, Korea; ²Medical Proteomics Research Center, KRIBB, Daejeon, Korea
- WP 367 **Bioanalysis of Therapeutic Peptides by LC/MS/MS:**Challenges and Strategies; <u>Eric Ma</u>; Moucun Yuan;
 William Mylott; Bruce Hidy; Rand Jenkins; *PPD, Richmond, VA*
- WP 368 On-line Preservation for *in vivo* Microdialysis with MS³
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 Laude¹; Diana Meske¹; Kramer Catherine¹; Eric Lemister¹;
 Edita Navratilova¹; Frank Porreca¹.²; ¹The University of
 Arizona, Tucson, AZ; ²Mayo Clinic, Phoenix, AZ
- WP 369 Efficient Micro-Scale Basic Reverse Phase Peptide Fractionation for Global and Targeted Proteomics; Hyoung Joo Lee; Hye-Jung Kim; Daniel C. Liebler; Department of Biochemistry, Vanderbilt University, Nashville, TN
- WP 370 Application of a Fluorescent Peptide Assay to the Optimization of Peptide Generation from Patient-derived Breast Cancer Xenografts; Yiling Mi¹; Petra Erdmann-Gilmore¹; Rose Connors¹; Matthew R. Meyer¹; Shunqiang Li¹; Sherri R. Davies¹; Matthew J. Ellis²; R. Reid Townsend¹; ¹Washington University School of Medicine, St.



- WP 371 Identification and Characterization of Impurities in a VLP-Peptide Conjugate Vaccine by LC-MS; Melissa Thompson; Barbara Kelly; Kevin Bullock; John Amery; Pfizer Inc., Chesterfield, MO
- WP 372 Absolute Quantification of Flavin-containing
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 by UPLC-MS/MS-based Targeted Quantitative Proteomic
 Approach; Yao Chen; Michael Zhuo Wang; Pharmaceutical
 Chemistry, University of Kansas, Lawrence, KS
- WP 373 Higher Isobaric Multiplexing for Discovery Proteomics of Genomically-Characterized Patient-Derived Breast Cancer Xenografts; Xuya Wang³; Petra Erdmann-Gilmore¹; Alan E. Davis¹; Henry W. Rohrs¹; Shunqiang Li¹; Sherri R. Davies¹; Matthew J. Ellis¹; Ryan Bomgarden⁴; Rosa Viner²; John C. Rogers⁴; David Fenyo³; Jason M. Held¹; R. Reid Townsend¹; ¹Washington University, St Louis, MO; ²Thermo Fisher Scientific, San Jose, CA; ³New York University, New York, NY; ⁴Thermo Fisher Scientific, Rockford, IL
- WP 374 Using Mass Spectrometry in Protein Quantification for Influenza Vaccine Quality Control: To Label or Not to Label? Terry D. Cyr; Daryl G.S. Smith; Lisa Walrond; Marybeth Creskey; Genevieve Gingras; Yves Aubin; Health Canada, Ottawa, Canada
- WP 375 Fast, Sensitive, Robust SPE-LC-MS/MS Method for Quantitation of Insulin Analogues in Clinical Studies; Lei Xiong¹; Witold Woroniecki¹; Rahul Baghla²; Suma Ramagiri³; Gary Impey³; <u>Hua-Fen Liu</u>¹; ¹AB SCIEX, Redwood City, California; ²AB SCIEX, Gurgaon, India; ³AB SCIEX, Concord, ON
- WP 376 LC/MS/MS Analysis of Oxytocin and ARG-Vasopressin in Human Plasma/Serum using Strata™-X-CW Solid Phase Extraction and a Luna PFP(2) HPLC Column; Xianrong (Jenny) Wei; Sean Orlowicz; Phenomenex, Torrance, CA
- WP 377 Development of the Ultra-Sensitive Liquid
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 Hou; Jerry Gardella; Edward Wells; Steve Unger; Worldwide
 Clinical Trials Drug Development Solutio, Austin, TX
- WP 378 LC-MS/MS Quantification of SOM230 (Pasireotide), a Cyclic Peptide, in Monkey Plasma; Yunlin Fu; Wenkui Li; Jimmy Flarakos; Francis Tse; Novartis Institutes for Biomedical Research, East Hanover, NJ
- WP 379 High Throughput Quantitation of 46 Histone PTMs through Unscheduled SRM-based Method Development on a Nano-HPLC Triple Quadrupole Platform; Jenny Chen¹; Tommy Cheung²; David Arnott²; Yan Chen¹; Keith Waddell¹; Cindy Lai¹; ¹Thermofisher Scientific Inc., San Jose, CA; ²Genentech, South San Francisco, CA
- WP 380 MRM Analysis together with ATP Affinity Probes for the Quantitative Discovery of Target Kinases of MM-3-51 in Du-145 Cells; Weili Miao; Lei Guo; Yinsheng Wang; Riverside, CA
- WP 381 Impact of Mobile Phase Modifiers and Supercharging Reagents on Charge State Distribution and Sensitivity of Therapeutic Peptides by LC-HRMS; Jean-Nicholas Mess; Daniel Villeneuve; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada
- WP 382 Development of an LC-MS/MS Method for Variegin Quantitation: Application to Pre-Clinical Pharmacokinetic Studies; Norrapat Shih^{1,2}; R. Manjunatha Kini^{1,2}; ¹Dept. of Biological Sciences, National University of Singapore, Singapore; ²NUS Graduate School for Integrative Sciences, & Engineering, Singapore

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- Among Enzymes of Central Metabolism; Rob Oslund¹; Jung-Min Kee¹; Anthony Couvillon²; Vivek Bhatia³; Tom Muir¹; David H. Perlman¹; ¹Princeton University, Princeton, NJ; ²Cell Signalling Technologies, Danvers, MA; ³Heartflow, Inc, Redwood City, CA
- WP 384 Concomitant Analysis of Phosphoproteome and N-linked Sialioproteome by Stepwise Metal Oxide Chromatography; Miao-Hsia Lin; Chia-Feng Tsai; Wei-Ting Lai; Pei-Yi Lin; Yu-Ju Chen; Academia Sinica, Taipei, Taiwan
- WP 385 Determining the Binding Sites of β-Cyclodextrin and Peptides by Electron-Capture Dissociation Tandem Mass Spectrometry; Yulin Qi; Dietrich Volmer; Saarland University, Saarbrücken, Germany
- WP 386 Development and Application of a Modified Biotin Switch Assay to Quantify Sulfenic Acid Modification of Proteins; Ru Li; Shujun Lin; Juergen Kast; The Biomedical Research Centre, UBC, Vancouver, Canada
- WP 387 A Chemical Derivatization Strategy for Profiling Protein Methylation; Zhibin Ning; Alexandra Star; Anna Mierzwa; Sylvain Lanouette; Janice Mayne; Jean-Francois Couture; Daniel Figeys; Ottawa Institute of Systems Biology, Ottawa, Canada
- WP 388 Characterizing Growth Phase-Dependent Changes in the Bacillus subtilis Acetylome and Proteome using Label-Free Quantification; Todd M. Greco¹; Valerie J. Carabetta²; David Dubnau²; Ileana M. Cristea¹; *1Princeton University, Princeton, NJ; *2New Jersey Medical School, Rutgers University, Newark, NJ
- WP 389 Towards Global Sulfation Analysis: Integrating Weak Anion Exchange and Ultraviolet Photodissociation Mass Spectrometry with Strategic Modulation of Peptide Basicity; Michelle Robinson¹; Jennifer Brodbelt²;

 1 University of Texas at Austin, Austin, TX; 2 The University of Texas, Austin, TX
- WP 390 In-depth Mouse Muscle Ubiquitylome Characterization using diGly Enrichment Followed by MudPIT;
 Punitee Garyali; Whitney Smith-Kinnaman; Peter Roach;
 Amber Mosley; Indiana University SOM, Department of Biochemistry, Indianapolis, IN
- WP 391 Analysis Of Alexa-594 Modified Peptides By Electrospray – Ionization Mass Spectrometry And Electron-Transfer Dissociation; <u>Julian Whitelegge</u>1; Joseph Capri1; Piotr Ruchala1; Marcella Gilmore2; Don Laudicina2; 1
- WP 392 Single-probe Ionization Device: Application to the Detection of Sulfated Peptides and Sugars; Rachel Vowcicefski; Ning Pan; Zhibo Yang; University of Oklahoma, Norman. OK
- WP 393 Glycopeptidomics: Characterizing Global Glycoprotein and Site Heterogeneity; Robert J. Chalkley¹; Shouling Xu¹. ²; Peter R. Baker¹; Katalin F. Medzihradszky¹; ¹UCSF, San Francisco, CA; ²Carnegie Institution for Science, Stanford, CA
- WP 394 Characterization of Glycopeptides by Hot Electron
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 Leon¹; Catherine E. Costello²; Joseph Zaia¹; Cheng Lin¹;

 ¹Boston University School of Medicine, Boston, MA; ²Boston
 University, Boston, MA
- WP 395 Discovery and Characterization of Post-Translationally Modified Peptides with No Mass Shifts; Erik T. Jansson; Itamar Livnat; Hua-Chia Tai; Stanislav S. Rubakhin; Jonathan V. Sweedler; University of Illinois at Urbana-Champaign, Urbana, IL
- WP 396 Integrated Proteomic and Glycoproteomic Analyses of Prostate Cancer Cells; Punit Shah; Xiangchun Wang; Weiming Yang; Shadi Toghi Eshghi; Shisheng Sun; Naser Hoti; Jered Pasay; Abigail Rubin; Hui Zhang; Johns Hopkins



- University, Baltimore, MD
- WP 397 Multi-acylation of Melittin by Iysophosphatidylcholines (IysoPCs) and diacylphosphatidylcholines (diacylPCs) and the Enhanced Reactivity of Melittin Towards IysoPCs; Vian S. Ismail; John M. Sanderson; Jackie A. Mosely; Durham University, Durham, UK
- WP 398 Identification of S-Glutathionylated Cysteine Residues in Murine Hepatic Proteins by nLC-CID-ETD MS/MS following Immunoaffinity Enrichment; Susana Comte-Walters; Tiffany Ancrum; Danyelle Townsend; Lauren Ball; Medical Univ of S Carolina, Charleston, SC
- WP 399 Ultra-Low Flow Capillary Electrophoresis Mass Spectrometry for Proteome Wide PTM Identification and Quantification; Klaus Faserl; <u>Herbert H. Lindner</u>; *Biocenter*, Division of Clinical Biochemistry, Innsbruck, Austria
- WP 400 pGlyco: A Novel Pipeline for the Identification of Intact Glycopeptides; Wen-Feng Zeng¹; Mingqi Liu²; Yang Zhang²; Jianqiang Wu¹; Pan Fang²; Weiqian Chao²; Chao Liu¹; Hao Chi¹; Ruixiang Sun¹; Si-Min He¹; Pengyuan Yang²; ¹ICT, Chinese Academy of Sciences, Beijing, China; ²Institutes of Biomedical Sciences, Fudan Universit, Shanghai. China
- WP 401 PARP9 Inhibits ADP-ribosylation of STAT1 by PARP14; <u>lwao Yamada</u>^{1, 2}; Hideo Yoshida^{1, 2}; Hiroshi lwata¹; Masanori Aikawa¹; Sasha A. Singh¹; 'Brigham and Women's Hospital, Boston, MA; 'Kowa Company, Ltd., Tokyo, Japan
- WP 402 ETD Fragmentation Improves the Global Analysis of Ubiquitylated Proteins; Tanya Porras-Yakushi; Michael J Sweredoski; Sonja Hess; Caltech, Pasadena, CA
- WP 403 An Improved Strategy for Characterizing Arginine
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 Center for Protein Research, Copenhagen N, Denmark
- WP 404 Characterization of Polyubiquitin Chains: Linear and Branched Ubiquitin Trimers; Amanda Lee; Yeji Kim; Emma K. Dixon; Tanuja R. Kashyap; Yan Wang; David Fushman; Catherine Fenselau; University of Maryland, College Park, MD
- WP 405 Global Analysis of Arginine Methylation and *in vivo* CARM1 Substrates via IAP-MS; Evgenia Shishkova¹; Lu Wang²; Alexander H. Hebert¹; Michael S. Westphall³; Wei Xu²; Joshua J. Coon¹; ¹Department of Biomolecular Chemistry, Madison, WI; ²Department of Oncology, Madison, WI; ³Univ of Wisconsin, Madison, WI
- WP 406 Comparison and Combination of Search Engines to Discover and Characterize PTM Signatures in Biology; Xiaoyue Jiang¹; Keith Waddell¹; Michael Blank¹; Kai Fritzemeier²; Bernard Delanghe²; Rosa Viner¹; Andreas FR Huhmer¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Thermo Fisher Scientific, Bremen, Germany
- WP 407 **Data Independent Acquisition Dependent Acquisition**; <u>Richard S. Johnson</u>; Han-Yin Yang; Michael J. Maccoss; *University of Washington, Seattle, WA*
- WP 408 Improved Strategy for Identification of ATM/ATR
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 Kathrine B. Sylvestersen; Dorte B. Bekker-Jensen; Michael
 L. Nielsen; NNF Center for Protein Research, Copenhagen,
 Denmark
- WP 409 A D-Amino Acid-Containing Neuropeptide Discovery Funnel; Itamar Livnat; Hua-Chia Tai; Erik Jansson; Stanislav Rubakhin; Jonathan Sweedler; University of Illinois at Urbana-Champaign, Urbana, IL
- WP 410 Identification of Amadori Products on Proteins from Roasted Peanut Extracts using MS3 Approaches and Novel Computational Methods; Katina L. Johnson¹; Geoffrey A. Mueller¹; Soheila J. Maleki²; Anna Pomes³; Jason G. Williams¹; ¹National Institute of Environmental Health Science, Research Triangle Park, NC; ²US Department of Agriculture, New Orleans, LA; ³Indoor

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Biotechnologies, Charlottesville, VA

- <u>Gu</u>¹; Deyun Wang²; Huijuan Li¹; Mohammed Shameem¹; Yan-Hui Liu¹; *¹Merck, Kenilworth, NJ; ²Lancaster Labs, Lancaster, PA*
- WP 412 SUMOylation Dynamics in Response to Replication Stress Reveals Novel SUMO Target Proteins and SUMO Sites Relevant for Genomic Stability; Zhenyu Xiao¹; Jer-gung Chang¹; Ivo Hendriks¹; Jón Sigurðsson²; Jesper Olsen²; Alfred Vertegaal¹; ¹Leiden University Medical Center, Leiden, Netherlands; ²Novo Nordisk Foundation Center for Protein Researc, Copenhagen, Denmark
- WP 413 Determination of the Disulfide Linkages Present in Synthetic Ssm6a, a Novel Na 1.7 Inhibitory Peptide from Centipede Venom by Partial Reduction; John Hui; John Robinson; Chris Spahr; Justin Murray; Stone D.-H. Shi; Therapeutic Discovery, Amgen Inc, Thousand Oaks, CA
- WP 414 Deep, Quantitative Coverage of the Lysine Acetylome using Novel Anti-Acetyl-Lysine Antibodies and an Optimized Proteomic Workflow; Tanya Svinkina¹; Hongbo Gu²; Jeffrey C. Silva²; Philipp Mertins¹; Jana Qiao¹; Shaunt Fereshetian¹; Jacob D. Jaffe¹; Eric Kuhn¹; Namrata D. Udeshi¹; Steven A. Carr¹; ¹Broad Institute of MIT and Harvard, Cambridge, MA; ²Cell Signaling Technology, Inc., Danvers. MA
- WP 415 Isocyanic acid Neutral Loss Ion Reduce False Positive Identification of Arginine Citrullination in Database Searchs of LC-MS/MS Data; Tatiana N. Boronina¹; Raghothama Chaerkady²; Maximilian Konig¹; Felipe Andrade¹; Robert O'meally¹; Lauren DeVine¹; Robert Cole¹; Johns Hopkins School of Medicine, Baltimore, MD; ²Johns Hopkins University, Baltimore, MD
- WP 416 CESI-MS Analysis of Asparagine Deamidation and Aspartate Isomerization in Polypeptides; Bettina Sarg; Klaus Faserl; Herbert H. Lindner; Div. of Clin. Biochemistry, Biocenter Innsbruck, Innsbruck, Austria
- WP 417 Glycopeptides Automatically Assigned Using ESI-MS/
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 Spec Consultants, Fair Lawn, NJ; ²Genzyme, Waltham, MA

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- WP 419 Thermally Induced Dissolution of Salts in Matrix-Assisted Laser Desorption/Ionization; Chuping Lee; I-Chung Lu; Yuan Tseh Lee; Chi-Kung Ni; Academia Sinica, Taipei, Taiwan
- WP 420 The Effect of Ultra-Low Flow on the Ionization of Biotherapeutics; Andras Guttman; AB Sciex, San Diego, CA
- WP 421 Supermetallization of Peptides and Proteins during Electrospray Ionization; Maria Indeykina^{1, 2}; Yury Kostyukevich^{2, 4}; Marina Rodchenkova^{1, 2}; Alexey Kononikhin^{1, 2}; Igor Popov^{2, 3}; Eugene Nikolaev^{2, 4}; *Institute for Biochemical Physics, Moscow, Russian Federation; *Institute for Energy Problems of Chemical Physics, Moscow, Russian federation; *Moscow Institute of Physics and Technology, Dolgoprudny, Russian Federation; *Skolkovo Institute of Science and Technology, Skolkovo, Russian Federation
- WP 422 Protonation in Electrospray Ionization Mass Spectrometry; Yixin Zou¹; Georgia Dolios²; Yukui Zhang³; Rong Wang²; ¹Zhejiang Haochuang Biotech Co.,Ltd,



- Hangzhou, China; ²Mount Sinai School of Med, New York, NY; ³Dalian Institute Chemical Physics, CAS, Dalian, China
- WP 423 On the Ionization Mechanism in Atmospheric Pressure Negative Ion Mass Spectrometry The Role of Ozone and CO₂ –; Valerie Derpmann¹; Florian Stappert²; Hendrik Kersten²; Thorsten Benter²; ¹Carl Zeiss SMT GmbH, Oberkochen, Germany; ²University of Wuppertal, Wuppertal, Germany
- WP 425 Fundamentals of Ionizing PEG Oligomers Using Matrix-Assisted Ionization: Determination of the Role of Cation/Anion Pairing; Joshua Fischer; Casey Foley; Sarah Trimpin; Wayne State University, Detroit, MI
- WP 426 Stereoselectivity of ESI-dependent Electrochemical Reactions; Ashraf Madian¹; Samantha Kaiser¹; Samantha Leidner¹; Denise Hayward²; Dave Loffredo²; Andrew Thiel²; Daniel Copeland¹; ¹One2One® Pharmaceutical R&D, Hospira Inc., Lake Forest, IL; ²Global Pharmaceutical R&D, Hospira Inc., Lake Forest, IL
- WP 427 Generation and Evolution of Electronically Excited Species in Spark Discharge Plasmas A Time and Mass Resolved Study; Sebastian Klopotowski; Hendrik Kersten; Thorsten Benter; University of Wuppertal, Wuppertal, Germany
- WP 428 Formate Actuated Reduction of Organic Molecules
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 Tummala; Baxter Healthcare, Round Lake, IL
- WP 429 Influence of Transfer Capillary Temperature on Adduct Formation in AP-MALDI MS; Anna Schultheis; Bernhard Spengler; Analytical Chemistry, Giessen, Germany

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- WP 431 Metabolic Analysis of Single Human Cells by Capillary Microsampling Electrospray Ionization Mass Spectrometry and Stable Isotope Labeling; Linwen Zhang¹; Linda L. Allworth²; Akos Vertes¹; ¹the George Washington University, Washington, DC; ²Thomas Jefferson HS for Science and Technology, Alexandria, VA
- WP 432 Single-Step Elution and Nib-Based Electrospray Ionization from Noviplex Sample Collection Cards; Steven L. Reeber; Gary L. Glish; University of North Carolina at Chapel Hill, Chapel Hill, NC
- WP 433 Study of Biological Samples with a Home-Built Low-Temperature-Plasma Mass Spectrometry Imaging (LTP-MSI) System; Abigail Moreno Pedraza; Robert Winkler; CINVESTAV Unidad Irapuato, Irapuato, Mexico
- WP 434 Comparison of Air and Nitrogen Gas Sources for DART Mass Spectrometry; William A. Harris; Douglas B. Henderson; Johnny K. Ho; Danielle N. Dickinson; Northrop Grumman, Linthicum Heights, MD
- WP 435 Improved Spatial Resolution for Mid-IR Laser Ablation Electrospray Ionization Mass Spectrometry in Transmission Geometry; Richard Thurston; Rachelle Jacobson; Akos Vertes; George Washington University, Washington, District of Columbia
- WP 436 Direct Tissue Analysis And Characterization
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 Lafavette. IN
- WP 437 Co-registered Topographical, Band-Excitation Nanomechanical and Mass Spectral Imaging using a Combined Atomic Force Microscopy/Mass

- Spectrometry Platform; Olga Ovchinnikova; Tamin Tai; Vera Bocharova; Mahmut Baris Okatan; Alex Belianinov; Vilmos Kertesz; Stephen Jesse; Gary J. Van Berkel; Oak Ridge National Laboratory, Oak Ridge, TN
- WP 438 Gas Assisted AC Pipette Tip Electrospray Source; Yunqing Huang; Gong-Yu Jiang; Chao Gao; Qiao Jin; Wenjian Sun; Shimadzu Research Laboratory(Shanghai) Co.,Ltd., Shanghai, China
- WP 439 Cross-platform Applicability of DESI-MSI Effect of Ion Source Setups and MS Analysers on Performance and Information Recovery; Jocelyn Tillner¹; Emrys Jones¹; Steve Pringle²; Tamas Karancsi³; James L Walsh⁴; Ian Gilmore⁵; Josephine Bunch⁵; Zoltan Takats¹; ¹Imperial College London, London, UK; ²Waters Corporation, Wilmslow, UK; ³Waters Research Centre, Budapest, Hungary; ⁴University of Liverpool, Liverpool, UK; ⁵National Physical Laboratory, Teddington, UK
- WP 440 On-line Planar Chromatography/Mass Spectrometry using Spray Ionization; Michael Wei; Elizabeth Dhummakupt; Richard A. Yost; University of Florida, Gainesville, FL
- WP 441 Mass Spectrometry on the Go; Christopher Pulliam¹; Ryan Bain¹; Joshua Wiley²; R. Graham Cooks¹; ¹Purdue University, West Lafayette, IN; ²California Institute of Technology, Pasadena, CA
- WP 442 Comparative Study of LC-MS Analysis of Peptide Mixtures by Thermal Ionization under Ambient Conditions and ESI; Evgeny Kukaev^{1, 2}; Alexey Kononikhin^{1, 3}; Igor Popov^{1, 2}; Eugene Nikolaev^{1, 3}; ¹Moscow Institute of Physics and Technology, Moscow, Russia; ²Emanuel Institute of Biochemical Physics, Moscow, Russia; ³Institute for Energy Problems of Chemical Physics, Moscow, Russia
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- WP 444 The Microwave Plasma Torch as a Combined Molecular and Atomic Ambient Ionization Source; Kenyon Evans-Nguyen¹; Ashley Windom¹; Colleen Quinn¹; Hilary Brown²; Spiros Manolakos³; Theresa Evans-Nguyen³; **IUniversity of Tampa, Tampa, FL; **Purdue University, West Lafayette, IN; **3The Charles Stark Draper Laboratory, Inc., Tampa, FL
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 ³LUMC & PSF, Pisa, Italy
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 Alessandra Tata^{1, 2}; Jinzi Zheng²; Howard Ginsberg³; David Jaffray^{2, 4}; Demian Ifa¹; Arash Zarrine Afsar^{2, 3}; ¹Department of Chemistry, CRMS, York University, Toronto, Canada; ²Techna, University Health Network, Toronto, Canada; ³Dept. of Sugery, University of Toronto, Toronto, Canada
- WP 545
 New Biomarkers Discovery Approach based on Morphological Evaluation of Mass Spectrometry Imaging (MSI) Dataset: A Case Study; Gael Picard de Muller; Gregory Hamm; Fabien Pamelard; David Bonnel; Kevin Lorgouilloux; Jonathan Stauber; ImaBiotech, MS Imaging Dept., Loos, France
- WP 546 Mass Spectrometry Imaging of Proteins after On-Tissue Digestion: Approaching Cellular Resolution in Fresh-Frozen and FFPE Tissue; Andreas Roempp; Katharina Huber; Pegah Khamehgir-Silz; Bernhard Spengler; Justus Liebig University, Giessen, Germany
- WP 547 In situ Assaying the Activity of Ammonia Lyase Mutants
 Demonstrated by a Bi-Substrate Model Reaction with
 DESI IM MS Imaging; Cunyu Yan¹; Fabio Parmeggiani¹;
 Jason Schmidberger¹; Emrys Jones²; Emmanuelle Claude²;
 Nicholas J. Turner¹; Sabine L. Flitsch¹; Perdita Barran¹;
 ¹University of Manchester, Manchester, UK; ²Waters MS
 Technologies Centre, Wilmslow, UK
- WP 548 Examination of Plasmodium berghei Oocysts in the Mosquito using MALDI Fourier Transform Imaging Mass Spectrometry; Berin Boughton¹; Daniel Sarabia²; Dean Goodman²; Mark Condina³; Geoff McFadden²; Ute Roessner²; ¹Metabolomics Australia, University of Melbourne, Parkville, Australia; ²School of Biosciences, The University of Melbourne, Parkville, VIC, Australia; ³Bruker Pty Ltd, Melbourne, VIC, Australia
- WP 549 An Investigation into Multi-Model Tissue Imaging on a Single Section by DESI and MALDI TOF Mass Spectrometry; Mark Towers¹; Emrys Jones¹; Anna Mroz²; Zoltan Takats²; Emmanuelle Claude¹; Jim Langridge¹; ¹Waters Corporation, Wilmslow, UK; ²Imperial College London, London, UK
- WP 550 Visualization of Lipids Involved in the Growth of Pseudomonas putida Biofilm using Matrix-Assisted Laser Desorption Ionization Mass Spectrometry Imaging; Bin Li¹; Sage Dunham¹; Travis King²; Kensey R. Amaya²; Jonathan Sweedler¹; ¹University of Illinois at Urbana-Champaign, Urbana, IL; ²ERDC-CERL, Environmental Chemistry Laboratory, Champaign, IL
- WP 551 A Comprehensive Study of the Brain Lipidome Using Silver Nanoparticles (Colloidal and Implanted); <u>Ludovic Muller</u>¹; Aurelie Roux¹; Shelley N Jackson¹; J. Albert Schultz²; Amina S. Woods¹; ¹NIH/NIDA-IRP, Baltimore, MD; ²Ionwerks, Houston, TX
- WP 552 Enhancing in situ Biomolecule Identification by Novel Combination of Multiplexed Mass Spectrometric Imaging with DDA on a MALDI Orbitrap Platform;

 Chuanzi OuYang¹; Bingming Chen²; Lingjun Li¹.²;

 ¹Department of Chemistry, UW-Madison, Madison, WI;
 ²School of Pharmacy, UW-Madison, Madison, WI
- WP 553 Advanced Multi-modal Mass Spectrometry Applied to the Complexity of Lipid Imaging Analysis; Katherine Kellersberger; Shannon Cornett; Michael Easterling; Bruker Daltonics, Billerica, MA



WP 554 Molecular Mapping of Alzheimer's Disease – Imaging Mass Spectrometry; Andrea Kelley¹; George Perry¹; Rudolph J. Castellani²; Stephan Bach¹; ¹University of Texas at San Antonio, San Antonio, Tx; ²University of Maryland School of Medicine, Baltimore, MD

ION MOBILITY: STRUCTURES 555-575

- WP 555 Understanding the Roles of Electronic and Steric Effects in Separating Isomers using Differential Mobility Spectrometry; Chris J. Lock¹; J. Larry Campbell¹; Chang Liu¹; J.C. Yves Leblanc¹; Jefry Shields²; John Janiszewski²; Christian Ieritano³; Gene Ye³; Gillian Hawes³; Moaraj Hasan³; W. Scott Hopkins³; ¹SCIEX, Concord, ON, Canada; ²Pfizer, Groton, CT; ³University of Waterloo, Waterloo, ON, Canada
- WP 556 Characterizing Biomolecular Ion Structure using Ion Mobility Spectrometry Coupled with Gas-Phase Hydrogen Deuterium Exchange And Tandem Mass Spectrometry; Stephen Valentine; Mahdiar Khakinejad; Samaneh Ghassabi-Kondalaji; Gregory Donohoe; Jim Arndt; West Virginia University, Morgantown, WV
- WP 557 Ion Mobility Spectrometry of Foldamers:
 Characterization of the Folding State; Frederic Rosu^{1, 2}; Xuesong Li^{1, 3}; Victor Maurizot^{1, 3}; Ivan Huc^{1, 3}; Valerie Gabelica^{1, 4}; ¹Univ. Bordeaux, IECB, Bordeaux, France; ²CNRS UMS 3033, IECB, Pessac, France; ³CNRS UMR 5284, CBMN, Pessac, France; ⁴INSERM, U869, ARNA Laboratory, Bordeaux, France
- WP 558 Effect of Temperature, Charge, and Time on the Electrical Mobility of Minimally Perturbed Electrosprayed Protein Ions in the Gas Phase; Michel Attoui¹; Juan Fernandez de la Mora²; ¹Physics Department, University of Paris 12, Paris, France; ²Yale University Mechanical Engineering Departmen. New Haven. CT
- WP 559 What Happens to DNA Duplexes in the Gas Phase?

 Massimiliano Porrini^{1,2}; Frederic Rosu³; Valerie Gabelica^{1,2};

 ¹University of Bordeaux, IECB, Pessac, France; ²INSERM,

 U869, ARNA laboratory, Bordeaux, France; ³CNRS, UMS

 3033, IECB, University of Bordeaux, Pessac, France
- WP 560 Ion Mobility Quadrupole Time-of-Flight (IM Q-TOF) Mass Spectrometric Applications of Monoclonal Antibody and its Derivatives; David Wong; Agilent Technologies, Inc., Santa Clara, CA
- WP 561 The Influence of Lipid Bilayer Physicochemical Properties on the Conformer Preferences of the Model Ion Channel Gramicidin A; John Patrick^{1, 2}; David H. Russell^{1, 2}; ¹Texas A&M University, College Station, TX; ²Texas A&M University, College Station, TX
- WP 562 Conformational Landscapes of Model Proteins
 Measured on a Commercial Drift Tube Ion Mobility-Mass
 Spectrometer; Ewa Jurneczko¹; Jody C. May¹; George C.
 Stafford²; John C. Fjeldsted²; John A. McLean¹; ¹Vanderbilt
 University, Nashville, Tennessee; ²Agilent Technologies,
 Santa Clara. CA
- WP 563 On the Role of Penultimate Proline Isomerizations in Neuropeptide Conformations; Matthew Glover; David Clemmer; Indiana University, Bloomington, IN
- WP 564 Ion Mobility Mass Spectrometry as a Tool to Perform Structural Characterization of Peptides Bearing Disulfide Bond(s); Philippe Massonnet¹; Gregory Upert²; Michel Degueldre¹; Denis Morsa¹; Nicolas Smargiasso¹; Nicolas Gilles²; Loic Quinton¹; Edwin De Pauw¹; ¹Laboratory of Mass Spectrometry Ulg, Liège, Belgium; ²CEA/DSV/iBiTec-S/SIMOPRO, Gif sur Yvette, France
- WP 565 Extracting Collision Cross-sections of Ion Mobility
 Unresolved Isomers Using Tandem Mass Spectrometry
 and Chemometric Deconvolution; Brett Harper; Elizabeth
 Neumann; Touradj Solouki; Baylor University, Waco, TX
- WP 566 The Role of Inter- and Intramolecular Interactions on

- the Conformer Preferences of Biomolecules during Electrospray Ionization; Kelly Servage¹; Joshua Silveira²; Kyle Fort³; David H. Russell¹; ¹Texas A&M University, College Station, TX; ²Bruker Daltonics, Billerica, MA; ³Utrecht University, CH Utrecht, The Netherlands
- WP 567 Correlating Ion-Neutral Collision Cross Sections to Protein Native Conformation and Energy Folding Landscape; Shu-Hua Chen; David H. Russell; Texas A&M University, College Station, TX
- WP 568 Investigation of Ion Mobility Mass Spectrometry
 Analysis of Electrochemically Generated Oxidation
 Products of Opiates and Comparison with Theoretical
 CCS Values; Cris Lapthorn¹; Frank Pullen¹; Susana da
 Silva Torres²; Mark R. Taylor²; Russell Mortishire-Smith³;
 Jayne Kirk³; Andrew Baker⁴; ¹University of Greenwich,
 Chatham Maritime, UK; ²Pfizer, Sandwich, UK; ³Waters
 Corp. Manchester, UK; ⁴Waters, Inc., Pleasanton, CA
- WP 569 Ion Mobility Mass Spectrometry for Structural Analysis of Protein Therapeutics; <u>Carly Ferguson</u>; Michael Boyne; Ashley Gucinski; Food and Drug Administration, St. Louis, MO
- WP 570 Changes in Drift Spectra Intensity Distribution of Cyclodextrin Negative Ions with Solution pH; Paul S.

 Blank¹; Christian Klein²; Julie Wight³; Ruwan Kurulugama²; Stephanie Cologna¹; Peter S. Backlund¹; Alfred L. Yergey¹;

 ¹NICHD, NIH, Bethesda, MD; ²Agilent Technologies, Santa Clara, CA; ³Agilent Technologies, Poolesville, MD
- WP 571 Protein Structure Collapse in the Gas-phase Revealed by Ion Mobility and Molecular Dynamics; Lain D G
 Campuzano; Morgan Lawrenz; Carlos Larriba Andaluz;
 Taranger Inc., Thousand Oaks, CA; ²University of Minnesota, Bloomington, IN
- WP 572 Probing Solution-Related Structures of Disordered Peptide Indolicidin with IMS-MS and IMS-IMS-MS Techniques; Neelam Khanal; Maissa M. Gaye; David E. Clemmer; Department of Chemistry, Indiana University, Bloomington, IN
- WP 573 Electrospray Ionization of Proteins: Conformations
 Versus Aggregates Probed by Ion Mobility/Mass
 Spectrometry; Kent Gillig; Chung-Hsuan Chen; Academia
 Sinica, Taipei, Taiwan
- WP 574 Effect of beta-Cyclodextrin on Protein Structure Investigated by Ion Mobility-Mass Spectrometry; Yinjuan Chen¹; Xinhua Dai²; Peng Xiao²; Xiang Fang²; Chuan-Fan Ding¹; ¹Fudan University, Shanghai, China; ²National Institute of Metrology. Beijing, China
- WP 575 Evidence for Differential Structural Preferences of the Leu7Pro Mutant Neuropeptide Y Signal Peptide Probed by Ion Mobility-Mass Spectrometry; Zhengwei Chen; Christopher Lietz; Lingjun Li; University of Wisconsin-Madison, Madison, WI

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- WP 576 Investigating Changes in the Gas-Phase Conformation of Heparin/HS binding Proteins Using Traveling Wave Ion Mobility Spectrometry (TWIMS); Yuejie Zhao¹; Lingyun Li²; Robert Linhardt²; Yongmei Xu³; Jian Liu³; Arunima Singh¹; Robert Woods¹; Jon Amster¹; ¹University of Georgia, Athens, GA; ²Rensselaer Polytechnic University, Troy, NY; ³University of North Carolina, Chapel Hill, NC
- WP 577 Utilizing High Throughput IMS-MS Measurements to Study Noncovalent Protein/Ligand Interactions Kinetics; Daniel J. Orton¹; Ryan T. Kelly²; Yehia M. Ibrahim¹; Xing Zhang¹; Tridib Ghosh²; John R. Cort¹; Richard D. Smith¹; Erin S. Baker¹; **Pacific Northwest National Laboratory, Richland, WA; **2Environmental Molecular Sciences Laboratory PNNL, Richland, WA
- WP 578 Application of Ion Mobility Mass Spectrometry for the Analysis of Ruthenium-Arene Complexes; Lzabella Czerwinska; Johann Far; Christopher Kune;



- Nicolas Smargiasso; Denis Morsa; Edwin De Pauw; Mass Spectrometry Laboratory, GIGA-R, University of Liege, Belgium
- WP 579 Evaluating Ion Mobility-Mass Spectrometry as a Tool for Discovering Conformationally-Selective Src Kinase Inhibitors; Jessica Rabuck-Gibbons; Matthew Soellner; Brandon Ruotolo; University of Michigan, Ann Arbor, MI
- WP 580 Mass and Mobility Distributions of Labile Metal Complexes of Uranium, Barium, Cesium and Lanthanum; <u>Austen Davis</u>; Brian H. Clowers; Washington State University, Pullman, WA
- WP 581 Ion Mobility-Mass Spectrometry for Screening Libraries of Rationally-designed Bifunctional Small Molecule Libraries Capable of Chemical and Structural Amyloid Modulation; Richard A. Kerr¹; Younwoo Nam²; Michael Beck¹; Mi Hee Lim²; Brandon T. Ruotolo¹; ¹University of Michigan, Ann Arbor, MI; ²Ulsan National Institute of Science and Technology, Ulsan, South Korea
- WP 582 Ion Mobility Mass Spectrometry: A New Approach for Polymer Drug Carrier and Delivery Characterization;

 Jean R. N. Haler¹,²; Denis Morsa¹; Johann Far¹; Philippe
 Lecomte²; Christine Jérôme²; Edwin De Pauw¹; ¹Mass
 Spectrometry Laboratory, University of Liège, Liège,
 Belgium; ²CERM, University of Liège, Liège, Belgium
- WP 583 Neuropeptide Inspired Alzheimer's Disease Therapeutic Discovery Utilizing Ion Mobility Mass Spectrometry;

 Molly Soper; Brandon Ruotolo; University Of Michigan, Ann Arbor, MI
- WP 584 A Collision Induced Unfolding Assay for differentiating ATP-competitive and Allosteric Protein Tyrosine Kinase Inhibitors; James Keating; Jessica Rabuck-Gibbons; Brandon Ruotolo; University of Michigan, Department of Chemistry, Ann Arbor, MI
- WP 585 Ion Mobility-Mass Spectrometry Reveals the Early Assembly of Amyloid β-protein: The effects of Familial Mutations A2T and A2V; Xueyun Zheng¹; Robin Roychaudhuri²; David Teplow²; Michael T. Bowers¹; ¹University of California, Santa Barbara, CA; ²University of California. Los Angeles. CA
- WP 586 Effect of Glycosaminoglycan Disaccharide Binding on the Structural Heterogeneity and Dynamics of the Chemokine CCL5; Hiroki Sakai; Christian Bleiholder; Florida State University, Tallahassee, FL

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- WP 587 Monitoring Protein Stabilization by Multiple Analytical Techniques; Krishnamoorthy Kuppannan¹; Margaret Covington¹; Florin Dan¹; Yujing Tan¹; Yongfu Li¹; David Meunier¹; Danielle Dodge¹; Joshua Katz²; ¹The Dow Chemical Company, Midland, MI; ²The Dow Chemical Company, Collegeville, PA
- WP 588 Multisubunit Protein Interactions and Protein-Ligand Binding Sites Revealed By Surface Induced Dissociation Ion Mobility-Mass Spectrometry; Yue Ju; Royston Quintyn; Vicki Wysocki; The Ohio State University, Columbus, Ohio
- WP 589 Screening Glycolipids Against Proteins using Electrospray Ionization Mass Spectrometry and Picodiscs; Jun Li; Elena Kitova; John Klassen; University of Alberta, Edmonton, Canada
- WP 590 The GFP Interactome: Implications for Assessing GFP-tagged Protein Interactions using Immunoaffinity Purification-Mass Spectrometry Analysis; Tara Nash; Kevin Blackburn; Steven Clouse; Michael Goshe; North Carolina State University, Raleigh, NC
- WP 591 Native nano-ESI-MS Application in Fragment Based Drug Discovery: Investigating Antagonism of Protein-Protein Interactions; Agni Faviola Mika Gavriilidou¹; Finn Holding²; Renato Zenobi¹; ¹ETH, Department of Chemistry

- & Applied Biosciences, Zurich, Switzerland; ²Astex Pharmaceuticals, Cambridge, UK
- WP 592 Enhanced I-DIRT (el-DIRT): Improved Identification of Specific Protein-Protein Interactions in Cellular Milieux by Glutaraldehyde Stabilization and Stable Isotope
 Labeling MS; Roman Subbotin; Julio Padovan; Brian Chait;
 The Rockefeller University, New York, NY
- WP 593 Quantifying Protein–Glycolipid Interactions in Different Lipid Environments using Electrospray Ionization Mass Spectrometry; Ling Han; Elena Kitova; John Klassen; University of Alberta, Edmonton, Canada
- WP 594 Protein-Protein Interaction (PPI) In Lectin Affinity
 Chromatography; Jihoon Shin¹; Youngwon Jung²;
 Wonryeon Cho¹; ¹Wonkwang University, Iksan, Republic of
 Korea; ²Yonsei University, Seoul, Republic of Korea
- WP 595 Use of Native Mass Spectrometry for Quantification of Protein Complex; Wenjing Li; Bao Tran; Sung Hwan Yoon; Keely Pierzchalski; Jianshi Yu; David R Goodlett; Maureen A Kane; University of Maryland, Baltimore, MD
- WP 596 Mutual Stabilization of Helix Structures in the Three-Helix Bundle Protein KIX Studied by Electron Capture Dissociation; Eva-Maria Schneeberger; Moritz Schennach; Kathrin Breuker; University of Innsbruck, Innsbruck, Austria
- WP 597 Epitope Mapping of West Nile Virus Envelope Protein Bound to a Therapeutic Antibody by FPOP and HDX:

 Method Development; Yining Huang¹; Manolo Plasencia¹; Melissa A. Edeling²; Christopher A. Nelson²; Don L. Rempel¹; Henry W. Rohrs¹; Daved H. Fremont²; Michael L. Gross¹; ¹Washington University in St. Louis, St. Louis, MO; ²Washington University School of Medicine. St. Louis. MO
- WP 598 193nm UVPD of Natively Ionized DHFR for Elucidation of Protein-Ligand Interactions and Conformational Movements upon Inhibition by Methotrexate; Michael Cammarata; Ross Thyer; Jennifer Brodbelt; The University of Texas, Austin, TX
- WP 599 Epitope Mapping of WNV Envelope Protein Bound to a Therapeutic Antibody by FPOP: Correlation of Interface Dynamics and Oxidative Labeling; Manolo Plasencia¹; Yining Huang¹; Melissa A. Edeling²; Christopher A. Nelson²; Don L. Rempel¹; Henry W. Rohrs¹; Daved H. Fremont²; Michael L. Gross¹; *Washington University in St. Louis, St. Louis, MO; *2Washington University School of Medicine, St. Louis. MO
- WP 600 Tannins (Procyanidins) Binding to a Salivary Peptide (Histatin 5) Studied using Electrospray Ionization Tandem Mass Spectrometry (ESI-MS/MS) and Molecular Simulations; Joshua M. Shraberg¹; Steven W. Rick¹; Nalaka Rannulu¹; Richard B. Cole¹.²; ¹Dept. Of Chemistry, U. Of New Orleans, New Orleans, LA; ²Univ. P. et M. Curie (Paris 6). Paris Cedex 05. France
- WP 601 Determining the Cooperativity and Structural Effects of Copper Binding to the Homotetramer CsoR; Alexander D. Jacobs¹; Feng-Ming Chang¹; Lindsay J. Morrison²; Jonathan M. Dilger¹; Vicki H. Wysocki²; David P. Giedroc¹; David E. Clemmer¹; ¹Indiana University, Bloomginton, IN; ²Ohio State University, Columbus, OH
- WP 602 Drugging the Undruggable: IM-MS Functional Binding Assay for Small Molecule Inhibitors of Conformationally Dynamic Proteins; Chris Nortcliffe¹; Giovanna Zinzalla²; Perdita Barran¹; ¹University of Manchester, Manchester, UK; ²Karolinska Institutet, Stockholm, Sweden
- WP 603 Protein Interaction Partners of Protein Phosphatase 2A Catalytic Subunit in Rat β-Islet cells Using Quantitative Mass Spectrometry; Divyasri Damacharla; xiangmin Zhang; Danjun Ma; Yue Qi; Anjaneyulu Kowluru; Zhengping Yi; Wayne State University, Detroit, MI
- WP 604 Combining Native MS and IM-MS for Structural Elucidation of the yeast mRNA 3'-end Maturation Complex CFIA; Johann Stojko¹; Adrien Dupin²; Sébastien



Fribourg²; Alain Van Dorsselaer¹; Sarah Cianférani¹; ¹LSMBO, DSA, IPHC, Strasbourg, France; ²INSERM, U869, IECB, Bordeaux, France

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- WP 605 Allosteric Activation of Tumor Suppressor PP2A by a Small Molecule Activator Series Revealed using Hydroxyl Radical Footprinting; Janna Kiselar¹; Giri Gokulrangan²; David Kastrinsky³; Nilesh Zaware³; Michael Ohlmeyer³; Mark R Chance¹; Goutham Narla¹; ¹Case Western Reserve Univ, Cleveland, OH; ²Pfizer Biotherapeutics WRD, Andover, MA; ³Mount Sinai Hospital, NY, NY
- WP 606 Structural and Biochemical Characterisation of Oligomeric Alpha-Synuclein by Ion Mobility Spectrometry Mass Spectrometry; Eva Illes-Toth²; Mafalda Ramos²; Roberto Cappai¹; Caroline Dalton²; David Smith²; ¹University of Melbourne, Melbourne, VIC; ²Sheffield Hallam University, Sheffield, UK
- WP 607 Probing Ligand Interactions of the Chemokine Receptor CXCR7 by Mass Spectrometry; Liwen Wang¹; Martin Gustavsson²; Tracy Handel²; Mark R. Chance¹; ¹Case Western Reserve Univ, Cleveland, OH; ²University of California, San Diego, San Diego, CA
- WP 608 Charge Detection Mass Spectrometry Measures DNA
 Packaging in Bacteriophage P22 above 50 MDa and
 Resolves Four Morphologies in Mutant P22; David
 Keifer; Kevin Bond; Martin Jarrold; Indiana University,
 Bloomington. IN
- WP 609 A Hybrid MS-based Strategy Provides Structural Insights into Transient Protein Assemblies; Argyris Politis; King's College London, London, UK
- WP 610 Exploring the Protein-Protein Chemical Crosslinking of a Highly Non-Iso-Stoichiometric Protein Complex; Yeva Mirzakhanyan; Tuan ngo; Paul Gershon; UC-Irvine, Irvine,
- WP 611 Molecular Architecture of the Yeast Mediator Complex;

 Michael Trnka¹; Philip Robinson²; Riccardo Pellarin¹; Sali

 Andrej¹; Roger Kornberg²; AL Burlingame¹; ¹University of

 California, San Francisco, San Francisco, CA; ²Stanford

 University, Stanford, CA
- WP 612 A Structural Proteomics Study of High-Density
 Lipoprotein (HDL); Jason Serpa¹; Teddy Chan²; Gordon
 Francis²; Evgeniy Petrotchenko¹; Christoph Borchers¹,³;
 ¹University of Victoria-Genome BC Proteomics Centre,
 Victoria, BC, Canada; ²Ctr. for Heart Lung Innov., UBC & St.
 Paul's Hosp., Vancouver, BC, Canada; ³Dept. of Biochem. &
 Microbiol., Univ. of Victoria, Victoria, BC, Canada
- WP 613 Probing Intact Red Cell Membranes using Zero-length Chemical Cross-linking and Mass Spectrometry (CX-MS); Roland Rivera-Santiago^{1, 2}; Sandra Harper²; Sira Sriswasdi³; David Speicher²; **Iuniversity of Pennsylvania, Philadelphia, PA; **2The Wistar Institute, Philaldephia, PA; **3University of Tokyo, Tokyo, Japan
- WP 614 Structural Proteomics Study of Native α-synuclein in Solution; Nicholas Brodie¹; Evgeniy Petrotchenko¹; Christoph Borchers^{1,2}; 'University of Victoria-Genome BC Proteomics Centre, Victoria, BC, Canada; 'Dept. of Biochem. & Microbiol., Univ. of Victoria, Victoria, BC, Canada
- WP 615 Use of Ion Mobility and Cross Linking Mass
 Spectrometry with Hybrid Modelling to Delineate the
 Structure of CbpA; Konstantinos Thalassinos; Harpal
 Sahota; Adam Cryar; Maya Topf; Institute of Structural and
 Molecular Biology, London, UK
- WP 616 Fragmentation and Aggregation of Physiological and Parkinson- Synucleins Revealed by Ion Mobility- MS and HDX- MS; Michael Przybylski¹; Kathrin Lindner¹; Nicolas Pierson²; Ying Zhang³; Brindusa-Alina Petre¹;

- Stefan Schildknecht¹; Michael Gross³; David Clemmer²; ¹Steinbeis Centre Biopolymer Analysis, Konstanz, Germany; ²Indiana University Dept. Chemistry, Bloomington, IN; ³Washington University St.Louis, St. Louis, MO
- WP 617 HDL Particle Size Versus the HDL Proteome; <u>David Schieltz</u>; Jon Rees; Zsuzsanna Kuklenyik; Bryan Parks; Michael Gardner; Lisa McWilliams; Yulanda Williamson; John R Barr; Centers For Disease Control and Prevention, Atlanta. GA

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- WP 618 Discovering a Connection between Structural Sensitivity to pH & Interaction with FcRn in IgG1
 Molecules; Benjamin Walters¹; Pernille F. Jensen³;
 Vincent Larraillet⁴; Tom Patapoff²; Kasper Rand³; Jennifer Zhang¹; ¹Protein Analytical Chemistry, Genentech, South San Francisco, California; ²Early Stage Pharmaceutical Development, Genentech, South San Francisco, California; ³Dept. of Pharmacy, U. of Copenhagen, Copenhagen, Denmark; ⁴pRed, Roche Innovation Center, Penzberg, Germany
- WP 619 New Model for Prediction and Comparison of Perresidue Deuterium Uptake Level and Structure of Peptides Ion on the Gas Phase; Samaneh Ghassabi Kondalaji¹; Mahdiar Khakinejad¹; Stephen Valentine²; ¹Morgantown, WV; ²West Virginia University, Morgantown, WV
- WP 620 HDX-MS Characterization of New Class of Multimerization Selective Inhibitors of HIV-1 Integrase; Venkatasubramanian Dharmarajan¹; Matthew Plumb²; Matthew Gibson²; Mamuka Kvaratskhelia²; Patrick R. Griffin¹; ¹The Scripps Research Institute, Jupiter, FL; ²The Ohio State University, Columbus, OH
- WP 621 Effects of Class II and III UAB Rexinoids on the Dynamics of Nuclear Receptors by Hydrogen

 Deuterium Exchange Mass Spectrometry; Amanda

 Proper; Emily Cowart; Donald Muccio; Matthew Renfrow; University of Alabama at Birmingham, Birmingham, AL
- WP 622 Examining Liposome Association and Small Molecule Inhibition of Fatty Acid Amide Hydrolase (FAAH) by Hydrogen/Deuterium Exchange Mass Spectrometry;

 Brent Kochert; Alexandros Makriyannis; John Engen;
 Northeastern University. Boston. MA
- WP 623 Characterization of the Conformation of Therapeutic Antibody Oxidation Variants with Optimized Hydrogen/
 Deuterium Exchange Mass Spectrometry; Terry Zhang¹;
 David Horn¹; Shanhua Lin²; Xiaodong Liu²; Jonathan
 Josephs¹; ¹ThermoFisher, San Jose, CA; ²ThermoFisher,
 Sunnyvale, CA
- WP 624 Assessment of HOS of IgG2 Monoclonal Antibodies using Two Proteases in a Single Column Approach to Enhance the Sequence Coverage; Sasidhar N Nirudodhi¹; Justin Sperry¹; Jason Rouse²; James A. Carroll¹; ¹Pfizer, Chesterfield, MO; ²Pfizer, Inc., Andover, MA
- WP 625 Hydrogen/Deuterium Exchange Mass Spectrometry Reveals Conformational Changes between Human Phosphatase PP2Cα and a Catalytically Inactive Metal Binding Site Mutant; Elyssia S. Gallagher 1,2; Subrata Debnath³; Sharlyn J. Mazur³; Lisa M. Miller Jenkins³; Stewart R. Durell³; Ettore Appella³; Jeffrey W. Hudgens 1,2; 1National Institute of Standards and Technology, Rockville, MD; 2Institute for Bioscience & Biotechnology Research, Rockville, MD; 3National Cancer Institute, NIH, Bethesda, MD
- WP 626 Mapping Protein-Protein Interaction Sites and Protein Dynamics using HDXMS: How Binding to CK Stabilizes the Ankyrin Repeat Domain of ASB9; Deepa Balasubramaniam; UCSD, La Jolla, CA



- WP 627 Impact of Unpaired Cysteines on the Conformation and Antigen Binding of Two Different Monoclonal Antibodies by Hydrogen/Deuterium Exchange Mass Spectrometry;

 Hui-Min Zhang; Jin Li; Ben Walters; Jennifer Zhang; Yung-Hsiang Kao; Genentech, South San Francisco, CA
- WP 628 Stepwise Sequential Protein Folding by a Hydrogen Exchange Mass Spectrometry Method; Wenbing Hu; Zhongyuan Kan; Benjamin Walters; Leland Mayne; S. Walter Englander; University of Pennsylvania, Philadelphia, PA
- WP 629 Hydrogen/deuterium Exchange Mass Spectrometry Reveals Soybean Lipoxygenase Conformational Flexibility; Anthony T. lavarone; Adam R. Offenbacher; Judith P. Klinman; UC Berkeley, Berkeley, CA
- WP 630 Local Folding Energies/Rates of Wild-Type
 Staphylococcal Nuclease Determined by Protein
 Equilibrium Population Snapshot H/D Exchange
 Electrospray Ionization Mass Spectrometry (PEPS-HDX-ESI-MS); Rohana Liyanage; Hayden Pacl; Julie
 Rhee; Jennifer Gidden; Wesley Stites; Jackson O Lay Jr;
 University of Arkansas. Fayetteville, AR
- WP 631 **Profiling Protein Dynamics in SET Domain Containing Proteins**; Kristian E. Teichert^{1, 2}; Roxana E. Iacob¹;
 Thomas E. Wales¹; Roodolph St. Pierre²; Mette Ishoey²;
 Sixun Chen³; Joshiawa Paulk²; James E. Bradner²; John R.

 <u>Engen¹</u>; **Northeastern University, Boston, MA; **2Dana Farber Cancer Institute, Boston, MA; **3Broad Institute, Cambridge,
- WP 632 Biophysical Analysis of the C-Terminal Tail of EGF Receptor Tyrosine Kinase using HDX-MS and Smallangle X-ray Scattering; Theodore Keppel; Kwabena Sarpong; John Monsey; Jian Zhu; Ron Bose; Washington University, St. Louis, MO
- WP 633 Probing the Interface between the Sulfite Reductase Subunits, Hemoprotein and Flavoprotein, by H/D Exchange monitored by FT-ICR MS; Yeqing Tao¹; Isabel Askenasy³; Nicolas L. Young²; M. Elizabeth Stroupe³; Alan G. Marshall¹.²; ¹Department of Chemistry and Biochemistry, Tallahassee, FL; ²NHMFL, Tallahassee, FL; ³Department of Biological Science and Institute, Tallahassee, FL
- WP 634 Hydrogen Exchange Mass Spectrometry (HDX-MS)
 Reveals Local Structural Perturbations in Mutant Forms
 of Apolipoprotein A-I; Christopher Wilson¹; Madhurima
 Das²; Xiaohu Mei²; Olga Gursky²; John R. Engen¹;

 1Northeastern University, Boston, MA; Boston University
 School of Medicine, Boston, MA
- WP 635 Investigation of Protein-Protein Interactions in the Human Pyruvate Dehydrogenase Complex by Hydrogen/Deuterium Exchange Mass Spectrometry; Junjie Wang¹; Jieyu Zhou¹; Natalia S. Nemeria¹; Mulchand S. Patel²; Frank Jordan¹; ¹Rutgers, the State University of New Jersey, Newark, NJ; ²University at Buffalo, Buffalo, NY
- WP 636 Unraveling Dynamic Interactions within the Peripheral Stalk of F, ATP Synthase by HDX-MS; Courtney Fast; Siavash Vahidi; Carla Busnello; Yumin Bi; Stanley Dunn; Lars Konermann; Univ. of Western Ontario, London, ON
- WP 637 A Key Tryptophan in the Tec-family Tyrosine Kinase
 Btk Allosterically Regulates Kinase Activation; Thomas
 E. Wales¹; Raji E. Joseph²; Amy H. Andreotti²; Amy H.
 Andreotti²; John R. Engen¹; ¹Northeastern University,
 Boston, MA; ²lowa State University, Ames, IA
- WP 638 How Well Do We Understand Protein HDX Protection Patterns? A Molecular Dynamics Simulation Study;
 Robert Mcallister; Lars Konermann; Univ. of Western Ontario, London, ON
- WP 639 Ligand-Induced Changes in Structure and Dynamics of the Dihydrodipicolinate (DHDPS) Synthase Enzyme Complex Studied by HDX-MS; Modupeola Sowole¹; Sarah Simpson²; Yulia Skovpen²; David Palmer²; Lars

- Konermann¹; ¹University of Western Ontario, London, Canada; ²University of Saskatchewan, Saskatoon, Canada WP 640 Structural Analysis of SynGAP by HDX-MS; Quinlin Hanson; Eric Underbakke; Iowa State University, Ames, IA
- WP 641 Combining Native MS, IM-MS and HDX-MS for Structural Characterization of Bcd1p/Rtt106p complex involved in the box C/D snoRNPs Assembly Machinery; Guillaume Terral¹; Benoit Bragantini²; Jean-Michel Saliou¹; Alain Van Dorsselaer¹; Xavier Manival²; Bruno Charpentier²; Sarah Cianférani¹; ¹Laboratoire de Spectrométrie de Masse BioOrganique, Strasbourg, France; ²Ing. Moléculaire et Physiopathologie Articulaire, Vandoeuvre-lès-Nancy, France
- WP 642 Gas-phase Hydrogen/Deuterium Exchange can be
 Used to Detect Conformational Differences in Protein
 Structure and Distinguish between Conformational
 Families; Helen S Beeston¹; James R Ault¹; Henry C
 Fisher¹; Steven D Pringle²; Jeffrey M Brown²; Alison E
 Ashcroft¹; ¹University of Leeds, Leeds, UK; ²Waters
 Corporation, Wilmslow, UK
- WP 643 Protein Structural Dynamics at the Gas/Water Interface Examined by Hydrogen Exchange Mass Spectrometry;

 Yiming Xiao¹; Lars Konermann²; 'University of Western Ontario, London, Canada; ²Univ. of Western Ontario, London. ON
- WP 644 Lipid Packing Density Alters the Conformation of Membrane-Associated HIV-1 Nef; Gregory F. Pirrone¹; Michael S. Kent²; John R. Engen¹; 'Northeastern University, Boston, MA; ²Sandia National Laboratories, Albuquerque, NM
- WP 645
 WP 646
 Tryptophan289 Single Point Mutation Modulates the Dynamic Properties of Human Monoacylglycerol Lipase:
 A Hydrogen Deuterium Exchange Mass Spectrometry
 Study; ioannis karageorgos^{1, 2}; Elyssia S. Gallagher^{1, 2}; Nikolai Zvonok³; Alexandros Makriyannis³; Jeffrey W. Hudgens^{1, 2}; *1National Institute of Standards and Technology, Rockville, MD; *2Institute for Bioscience & Biotechnology Research, Rockville, MD; *3Center for Drug Discovery, Northeastern University, Boston, MA
- WP 647 Millisecond HX-MS to Detect Residual Helicity in a Disordered Protein using a Denatured State Reference; Mohammed Al-Nagshabandi^{1, 2}; David D. Weis¹; ¹University of Kansas, Lawrence, ks; ²Soran University, Erbil, Iraq

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- WP 648 Influence of Lipid Environment on Gramicidin A Dimer Conformation Probed using Nanodiscs and ESI-IMS-MS;

 Emma-Dune Leriche; Xuxin Fan; Elena N. Kitova; John S. Klassen; University of Alberta, Edmonton, Canada
- WP 649 Conformational Changes of an Allosteric Enzyme Probed in Solution and in the Gas-Phase:

 IM-MS, HDX-MS and AUC Studies of MtATPphosporibosyltransferase; Kamila Pacholarz^{1, 2}; Thomas Jowitt¹; Rebecca Burnley³; Victoria Ordsmith²; Massimiliano Porrini⁴; Gérald Larrouy-Maumus⁵; João Pisco⁵; Rachel Garlish³; Richard Taylor³; Luiz de Carvalho⁵; Perdita Barran¹;

 'University of Manchester, Manchester, UK; 'University of Edinburgh, Edinburgh, UK; ³UCB, Slough, UK; ⁴Institute Européen de Chimie et Biologie, Pessac, France; ⁵MRC National Institute for Medical Research, London, UK
- WP 650 Probing GPCR-ligand Interaction by Chemical Crosslinking and Mass Spectrometry; Bill Huang; Ji-Won Lee; Hee-Yong Kim; NIAAA/NIH, Rockville, MD
- WP 651 Insights into Gas-phase Protein Conformations from Matrix Assisted Ionization (MAI) using Ion Mobility Spectrometry-Mass Spectrometry; Daniel Woodall¹; Shameemah Thawoos¹; Corinne Lutomski¹; Sarah Trimpin¹.

 2; 'Wayne State University, Detroit, MI; ²Cardiovascular Research Institute, Detroit, MI



- WP 652 Development of a Rapid & Sensitive Shape Selective Screen to Monitor the Folding/Assembly of Recombinant Proteins; Owen Cornwell¹; Daniel Higazi²; Nicholas Bond²; Matthew Edgeworth¹; James Scrivens¹;

 1 University of Warwick, Coventry, UK; MedImmune, Cambridge, UK
- WP 653 Ion Mobility Mass Spectrometry Reveals (Non)-Structural Order in p27; Rebecca Beveridge¹; Yongqi Huang²; Rahul Das³; Rohit Pappu³; Richard Kriwacki²; Perdita Barran¹; 'University of Manchester, Manchester, UK; 2St. Jude Children's Research Hospital, Memphis, TN; 3Washington University. St. Louis, MO
- WP 654 Protein Conformational Study by Selected
 Accumulation Ion Mobility Spectrometry-Electron
 Capture Dissociation Tandem Mass Spectrometry;
 Yi Pu¹; Rebecca S. Glaskin²; Mark E. Ridgeway³; Melvin
 A. Park³; Cheng Lin²; Catherine E. Costello¹.²; ¹Boston
 University, Boston, MA; ²Boston University School of
 Medicine, Boston, MA; ³Bruker Daltonics, Billerica, MA
- WP 655 Effect of Post-Translational Modifications on the Metal Binding and Conformation of Alpha-Synuclein; Aimee Paskins; Rebecca Mason; Cathrine Duckett; Caroline Dalton; David Smith; Sheffield Hallam University, Sheffield, UK
- WP 656 Analysis of p85α Molecular Architecture using
 Chemical Cross-Linking; Evan T Brower¹; Raghothama
 Chaerkady¹; Qing Wang¹; Mathias Schäfer²; Andrea
 Sinz³; Kenneth W. Kinzler¹; Bert Vogelstein¹; L. Mario
 Amzel¹; Robert N. Cole¹; Sandra B. Gabelli¹; ¹Johns
 Hopkins University, Baltimore, MD; ²Universität zu Köln,
 Greinstrasse, Germany; ³Martin-Luther-Universität, Halle-Wittenberg, Germany
- WP 657 Twisting the Twist: an Ion Mobility-Mass Spectrometry study of the p53:MDM2 interaction; Eleanor Dickinson; University of Manchester, Manchester, UK
- WP 658 Mapping the Protein Structural Changes by Quantitative Cross-linking; Zdenek Kukacka^{1,2}; Michal Rosulek^{1,2}; Daniel Kavan^{1,2}; Petr Pompach^{1,2}; Petr Novak^{1,2}; *Institute of Microbiology, Prague, Czech Republic; *2Charles University, Prague, Czech Republic

ANTIBODIES AND ANTIBODY: DRUG CONJUGATES I 659-687

- WP 659 Characterization of Host Cell Proteins in the Protein A Purification of a Variety of Monoclonal Antibodies;
 Chong-Feng Xu; Zhenzhen Wang; Daniel Xu; Christina Alves; Li Zang; Biogen Idec, Cambridge, MA
- WP 660 Mass Spectrometry Characterization of SJCD3 MAb and Comparison with OKT3; Bo Zhai¹; Aaron Shafer¹; Kevin van Cott²; Chao-Xuan Zhang¹; Michael Meagher¹; ¹St Jude Children's Research Hospital, Memphis, TN; ²University of Nebraska-Lincoln, Lincoln, NE
- WP 661 A Universal Solution for the Pre-Clinical Bioanalysis of Humanized Therapeutic Monoclonal Antibodies in Plasma; Kwasi Antwi; Urban Kiernan; Eric Niederkofler; Thermo Fisher Scientific, Tempe, AZ
- WP 662 In-depth Identification of Protein Images by Combining High Mass Resolution MALDI-FTICR Imaging and High Performance qTOF nLC-MS/MS; Arnd Ingendoh¹; Matt Willetts²; Shannon Cornett²; **IBruker Daltonik, Bremen, Germany; **2Bruker Daltonics, Billerica, MA
- WP 663 Comprehensive Characterization of a Representative Antibody-Drug Conjugate by CESI-MS; Bryan Fonslow²; Eric Johansen¹; Hans Dewald²; ¹SCIEX, Redwood City, CA; ²SCIEX, Brea, CA
- WP 664 Rapid Identification and Quantitation of Disulfide Bonds in Antibodies and Other Purified Proteins; Wilfred H.

 Tang; Yong Joo Kil; Kevin L. Crowell; Marshall W. Bern; Eric Carlson; Chris Becker; Protein Metrics Inc., San Carlos, CA
- WP 665 Characterization of Monoclonal Antibodies and ADCs

- Zhang; ThermoFisher Scientific, Shanghai, China
 WP 666 Exact de novo Sequencing of a Monoclonal Antibody
 with Fab Glycosylation; Marshall W. Bern¹; David
 Morgenstern²; Beatrix Ueberheide²; Walter Bogdanoff³;
 Rehecca Dubois³¹ Protein Metrics, San Carlos, CA¹²New
 - Morgenstern²; Beatrix Ueberheide²; Walter Bogdanoff³; Rebecca Dubois³; ¹Protein Metrics, San Carlos, CA; ²New York University, New York, NY; ³University of California, Santa Cruz, CA

using a Benchtop Orbitrap Mass Spectrometer; Xiaoxi

- WP 667 De novo Sequencing Our Polyclonal Immune Response
 Without B-cell Sequencing; Adrian Guthals¹; Yutian
 Gan²; Wendy Sandoval²; Nuno Bandeira¹.³; †University of
 California, San Diego, La Jolla, CA; ²Genentech, South
 San Francisco, CA; ³Skaggs School of Pharmacy, UC San
 Diego, La Jolla, CA
- WP 668 Investigation of Anti-Drug-Antibody Impact on LC-MS/ MS Bioanalysis of Unconjugated Payload of Antibody Drug Conjugate in a Monkey Toxicity Study; Hang Zeng¹; Ragu Ramanathan¹; Frank Barletta¹; Michael Giovanelli²; Rick Steenwyk¹; ¹PDM, Pfizer, Inc., Groton, CT; ²DSRD, Pfizer, Inc, Groton, CT
- WP 669 Understanding of Critical Quality Attributes of Biopharmaceuticals In Vivo; Yinyin Li¹; Emma Zhang²; Peter Li²; Billy Wu²; Patrick Swann¹; Yelena Lyubarskaya¹; ¹Biogen Idec, Cambridge, MA; ²BioAnalytix Inc, Cambridge, MA
- WP 670 Characterization of Degradants of a Therapeutic Monoclonal Antibody via Combined Topdown and Bottom Up LC-MS/MS; Antonio Triolo¹; Elisa Libralesso¹; Francesca Boscaro²; Francesca Romana Dani²; Elena Michelucci²; Giuseppe Pieraccini²; Gloriano Moneti²; ¹Menarini Ricerche Spa, Firenze, Italy; ²CISM Centro di Servizi di Spettrometria di Massa, Firenze, Italy
- WP 671 Localizing the Conjugation Sites of Cysteine-Conjugated Antibody Drug Conjugates by Improved LC-MS Subunit Analysis for ADC Positional Isomer Identification; Henry Shion¹; Robert Birdsall¹; Liuxi Chen¹; Ying-Qing Yu¹; Frank W. Kotch³; April Xu²; Thomas J. Porter⁴; Weibin Chen¹; ¹Waters Biopharmaceutical Business Operations, Milford, MA; ²3Pfizer Analytical Research & Development, Pearl River, NY; ³2Pfizer Bioprocess Research & Development, Pearl River, NY; ⁴4Pfizer Analytical Research & Development, Andover, MA
- WP 672 Rapid LC/MS Identification of mAbs Utilizing CDR Masking; Amy Hilderbrand¹; Rashmi Jain²; Nisana Andersen¹; Benjamin Moore¹; Chenchen Wang¹; Cleo Salisbury¹; ¹Genentech, South San Francisco, CA; ²University of California San Diego, San Diego, CA
- WP 673 Evaluation of Hemoglobin as a Carrier of Anti-HIV Drug (Adefovir) in Macrophage-targeting Drug Delivery System; Shengsheng Xu; Igor A. Kaltashov; University of Massachusetts-Amherst, Amherst, Massachusetts
- WP 674 Analysis of Antibody Drug Conjugate using High Flow HPLC Coupled to Time-of-Flight Mass Spectrometry;
 Ravindra Gudihal; Sundaram M Palaniswamy; Sudha Rajagopalan; Agilent Technologies India Pvt. Ltd, Bangalore, India
- WP 675 Immunocapture LC-MS/MS Hybrid Assays for Conjugated-Antibody and Total-Antibody in Antibody Drug Conjugate (ADC) Bioanalysis; Huidong Gu; Ang Liu; Frank Zambito; Alexander Kozhich; Heather Myler; Anne-Françoise Aubry; Mark Arnold; Jian Wang; Bristol-Myers Squibb, Princeton, NJ
- WP 676 Full Validation of Therapeutic Antibody Sequences by Middle-Up Mass Measurements and Middle-Down Protein Sequencing; Anja Resemann¹; Wolfgang Jabs¹; Anja Wiechmann¹; Elsa Wagner²; Olivier Colas²; Waltraud Evers¹; Eckhard Belau¹; Lars Vorwerg¹; Catherine Evans³; Alain Beck²; Detlev Suckau¹; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Centre d'Immunologie Pierre-Fabre,



- St. Julien-en-Genevois, France; ³Bruker Daltonics Ltd, Coventry, UK
- WP 677 Enhancing Characterization Antibody-based Biologic using Differential Mobility and Mass Spectrometry;

 Tanya Gamble 1; J.C. Yves Leblanc 1; Eric Johansen 2; Suma Ramagiri 1; SCIEX, Concord, ON, ON; SCIEX, Redwood, CA
- WP 678 Comprehensive LC/MS Characterization of a Broadly Neutralizing HIV-1 mAb; <u>Li Cao</u>; Vera Ivleva; Jie Liu; Deepika Gollapudi; Jonathan Cooper; Richard Schwartz; VPP, NIAID, NIH, Gaithersburg, MD
- WP 679 Application of Data Independent Acquisition for Top-Down Characterization of IgG Light; Sahana Mollah; Melanie Juba; Xu Wang; AB SCIEX, Redwood City, CA
- WP 680 Mass Spectrometry Rearrangement by Collision Induced Dissociation of Cleavable ADC Linker Containing Aminobenzylcarbamate Group; Xidong Feng; Dahui Zhou; Kenneth Dirico; Russell G Dushin; Chakrapani Subramanyam; Christopher J O'Donnell; Justin Stroh; Michael J Shapiro; Pfizer Worldwide Research, Groton, CT
- WP 681 Characterization of Glycosylation and Amino Acid Sequence Features of Pig Immunoglobulins; Paul Lopez¹; Lauren Girard¹; Andrey Oliveira¹; Edward Bodnar¹; Apolline Salama²; Jean-Paul Soulillou²; Helene Perreault¹; ¹University of Manitoba, Winnipeg, Canada; ²UMR INSERM 10-64, Université de Nantes, Nantes, France
- WP 682 A Universal Immunocapture-LC-MS/MS Workflow for Biological Compound Quantitation in Preclinical Studies; Lei Xiong¹; Witold Woroniecki¹; Suma Ramagiri²; Gary Impey²; Hua-Fen Liu¹; ¹AB SCIEX, Redwood City, California: ²AB SCIEX, Concord, ON
- WP 683 Characterization of Charge Variants of Therapeutic
 Antibodies A (taA) in CEX Fractions by Bottom-up and
 Top-down MS; Chien-Wen Hung; Benedetto Aquilino; Urs
 Hanke; Claudia Torella; Christoph Roesli; Florian Wolschin;
 Andreas Seidl; Sandoz Biopharmaceuticals, Oberhaching,
 Germany
- WP 684 **Two Approaches that Facilitate Antibody Analysis**; <u>Nick DeGraan-Weber</u>; James P. Reilly; *Indiana University, Bloomington, IN*
- WP 685 Automated Affinity Capture and Rapid On-Tip Digestion to Accurately Quantitate in vivo Deamidation of Therapeutic Antibodies; John C. Tran; Daniel Tran; Phillip Chu; Denise Krawitz; Amy Hilderbrand; Kathy Kozak; Yichin Liu; Jianyong Wang; Genentech, South San Francisco, CA
- WP 686 Rapid Comprehensive Comparison of Five Versions of Bevacizumab Avastin versus Its Biosimilars; Chris Becker¹; Yong Kil¹; Eric Carlson¹; David Morgenstern²; Beatrix Ueberheide²; ¹Protein Metrics Inc., San Carlos, CA; ²NYU School of Medicine, New York, NY
- WP 687 Top Down LC/MS Characterization of RP-HPLC Impurities of Monoclonal Antibody by High Energy Collision –Induced Dissociation; Jia Zhao; flora gu; yan-hui liu; Huijuan Li; Mohammed shameem; Merck, Kenilworth, NJ









7:30 – 8:	7:30 – 8:00 am Set up all Thursday posters		s Peptides	Peptides: Fragmentation Mechanisms		
10:30 am – 1:00 pmOdd-numbered posters present			Phosphopeptides: Quantitative Analysis			
12:00 – 2:30 pm Even-numbered posters present		t Peptides	Peptides: Quantitative Analysis II			
2:30 pmRemove all Thursday posters			Peptides: Sequence Analysis			
			Peptides	s: General and Peptidomics	373-390	
Ambient Ionization: Fundamentals001-019			9 LC-MS:	LC-MS: Proteins and Peptides		
Instrumentation: Mini/Portable/Fieldable MS020-032				LC-MS: General		
GCMS: Instrumentation and Applications			1 Informat	Informatics: Crosslinking and Structural Analysis		
Polymers	i	062-083		Informatics: Protein ID and Quantification Informatics: Systems Biology		
		084-104				
		105-119		al Cross-Linking		
Environm	ental Analysis: General	120-149		Biomolecular Structure Analysis: Covalent Labeling Antibodies and Antibody: Drug Conjugates II		
Forensics	S	150-187				
		188-213		: PTMs		
		own Metabolites214-23		ics: Quantitative - Chemical Labeling Methods		
		Analysis232-246	6 Protein	Therapeutics: Quantitative Analysis	593-617	
Drug and	Metabolite Analysis: Novel	Approaches for Dried		ars		
		247-256		ility: Complex Mixtures		
		s257-286		ility: Small Molecule and Metabolomics		
		287-297		MS: Method Development II		
Challeng	es in Identification	298-31	1 Imaging	MS: Small Molecules	672-689	
ThD 004	AMBIENT IONIZATION 001-0	19		Benzyl Carbanion Transfer in the Fragment N-(phenylsulfonyl)-benzeneacetamides: A	Gas-phase	
THP 001		hization Efficiencies in Dopant- MS; Carolyn Hutchinson; Daniel		Intramolecular SNAr Reaction; Shanshan S Chai; Yaqin Liu; Chang Li; <u>Yuanjiang Pan</u> ; Zhe University, Hangzhou, China		
ThD 002	, ,	• • • • • • • • • • • • • • • • • • • •	ThD 011		lioloctric	
THE 002	2 High Sensitive and Throughput Direct Analysis of Genotoxicity Acrylamide Generated by High Temperature Food Processes using DART-MS Combined with Corona++™; Motoshi Sakakura¹; Hiroshi		THEOTI	A Study of the Gas-Phase Chemistry in a Dielectric Barrier Discharge using Argon and Hydrogen-		
				Doped Argon as the Support Gases; Wade		
				Farnsworth; Brigham Young University, Provo		
		kai¹; Teruhisa Shiota¹; Kanako	ThP 012	ThP 012 Contained-Electrospray: A New Spray Ionization		
		Mitsuo Takayama ² ; ¹ AMR Inc., Meguro-Ku,		Process for Improving Ion Yeilds for Comp		
	Japan; ² Yokohama City Univ., Yokohama, Japan			during ESI-MS Analysis; Dmytro Kulyk; Abra	•	
ThD 003				Tawiah; Ohio State University, Columbus, OH		
1111 000	3 Comparison of Internal Energy Distributions of Ions Created by Electrospray Ionization and Laser Ablation- Liquid Vortex Capture/Electrospray Ionization; John F. Cahill; Vilmos Kertesz; Olga S. Ovchinnikova; Gary J. Van		ThP 013	Zero Volt Paper Spray Ionization and its Me		
			1111 010	Yafeng Li¹; Michael Wleklinski¹; Soumabha Ba		
				Sarkar ² ; Rahul Narayanan, T. Pradeep ² ; R. Gr		
		l Laboratory, Oak Ridge, TN		² ; ¹ Purdue University, West Lafayette, Indiana,		
ThP 004		nt from Tissue Ablation for		Institute of Technology Madras, Chennai, Indi		
1111 00-1		and Sampling; Fan Cao; Kermi	it ThP 014	Generation of Multiply Charged Ions using		
		University, Baton Rouge, LA		MALDI Ion Source without Heated Ion Tran		
ThP 005	The Potential of Peptide/			Pavel Ryumin ¹ ; Jeff Brown ^{1, 2} ; Rainer Cramer ¹		
1111 000		Ionisation Mass Spectrometry	•	Reading, Reading, UK; ² Waters Corporation,		
		Detection; Elzbieta Gurdak ¹ ;		A Comparison of Atmospheric Pressure Su		
	Andrew Hook ² ; Alexander S		0.0	Sampling Methods: DESI, PADI, AP-MALDI		
		ory, Teddington, UK; ² University		Tara La Roche Salter ¹ ; Rory Steven ¹ ; Elizabet		
	of Nottingham, Nottingham			² ; Alan Race ¹ ; Ian Gilmore ¹ ; Josephine Bunch ¹		
ThP 006		Ion ESI Ionization Efficiencies		Physical Laboratory, Teddington, UK; ² Univers		
000	for a Diversity of Small Acidic Molecules with Widely			Birmingham, Birmingham, UK; ³ University of N	•	
		ttila; Shelsea Hurdle; Stephen		Nottingham, UK		
		y; James Madison University,	ThP 016	Hydrophobic Paper Spray Ionization Mass		
	Harrisonburg, VA	,,	0.0	Spectrometry; Kathryn M. Davis; Abraham B	adu-Tawiah [.]	
ThP 007	3 ,	onization Mass Spectrometry		The Ohio State University, Columbus, OH	,	
		Kenneth Swanson; Sandra	ThP 017	•	lonization	
	· ·	niv. of North Carolina at Chapel		Mass Spectrometry for Enhanced Detection		
	Hill, Chapel Hill, NC	and an orapor		in Complex Samples: Mechanism and Appl	-	
ThP 008		ession in Negative-ion Mode		Hu ¹ ; Yun-Yun Yang ² ; Jie-Wei Deng ^{1, 3} ; Zhong-F		
	9	fluoroethanol Addition; Phillip		¹ Hong Kong Polytechnic University, Hong Kon	•	
		on; <i>University of Michigan, Ann</i>		² China National Analytical Center Guangzhou		
	Arbor, MI	,,		China; ³ Sun Yat-Sen University, Guangzhou, G		
ThP 009		mbient Ionization Mechanisms	: ThP 018	Fundamental Studies of Atmospheric Pres		
7111 000	Studies Leading to the In		, 010	Dielectric Barrier Discharge Jet used for De		
	Intensities in Rapid Evap			Mass Spectrometry; Gerardo Gamez; Songy		
		ones¹; Ottmar Golf¹; Steven		Xiaoxia Gong; Marcel Kroschk; John Usala; 7		

Spectrometry; Emrys A Jones¹; Ottmar Golf¹; Steven Pringle²; Tamas Karancsi³; Zoltan Takats¹; ¹Imperial College London, London, UK; ²Waters Corporation, Manchester,

UK; ³Waters Research Center, Budapest, Hungary

University, Lubbock, TX
ThP 019 Toward Understanding Factors that Influence Globular

Anna Susa; Evan Williams;, Berkeley, CA

Protein Ion Charge in Native Electrospray Ionization;



INSTRUMENTATION: MINI/PORTABLE/FIELDABLE MS 020-032

- ThP 020 Development, Study and Application of Hand Portable GC/MS as a Field Investigative Tool for the First Responder; Gareth Dobson; Smiths Detection, Edgewood,
- ThP 021 The Research of the Scan Function About Linear Ion Trap at Low Vacuum; Hao Lv¹; Zhanfeng Zhao¹; Eric Handberg²; Zhiquan Zhou¹; ¹Harbin Institute of Technology at Weihai, Weihai, China; ²East China Institute of Tech., Nanchang, China
- ThP 022 Application of Sub-Ambient Pressure Gas
 Chromatography to the Development of a Miniature
 Ion-Trap GC/MS; Conor Mullens; Daniel Debord; Corey
 Stedwell; Michael Spencer; David Rafferty; 1st Detect,
 Webster. TX
- ThP 023 Improvements to Membrane Inlet Interface for Subsea in-situ mass spectrometry; Brian Gregson; Gary Hendrick; David Fries; Spyglass Technologies, Inc., St. Petersburg, FL
- ThP 024 Evaluating Ion Trap Materials for Hand Portable, High Pressure Mass Spectrometry; Kenion Blakeman; Tina Stacy; Craig Cavanaugh; J. Michael Ramsey; University of North Carolina, Chapel Hill, NC
- ThP 025 Combining Real-Time Portable Membrane Introduction Mass Spectrometer and Whole Air Sampling Canister Data for Atmospheric Analysis of Volatile Organic Compounds; Nicholas G. Davey^{1, 4}; Ryan J. Bell^{3, 4}; Isobel J. Simpson²; Donald R. Blake²; Erik T. Krogh^{1, 4}; Christopher G. Gill^{1, 4}; **Iuniversity of Victoria, Victoria, BC, Canada; **2UC Irvine, Irvine, CA; **3Beaver Creek Analytical LLC, Boulder, CO; **Appl. Env. Res. Labs. (AERL), Nanaimo, Canada
- ThP 026 Optimization of the Cylindrical Ion Trap Geometry
 Operated at High Pressure; Dmitriy Chernookiy; Bruno
 Coupier; J. Michael Ramsey; University of North Carolina,
 Chapel Hill, Chapel Hill, NC
- ThP 027 Low Voltage RF Amplitude Scanning with Multi-Frequencies for Ion Trap Mass Spectrometry; Seung Yong Kim¹; Jong Rok Ahn¹; Wanseop Jeong¹; Mo Yang¹; Eungnam Kim²; Jin-Young Choi²; Hyun Sik Kim¹; ¹Korea Basic Science Institute, Ochang-Eup Cheongju-Si, South Korea; ²Korea University, Seoul, Korea
- ThP 028 Real-time Sample Analysis using Remote Sampling
 Probe and Miniature Mass Spectrometer; Chien-Hsun
 Chen¹; Ziqing Lin¹; R. Graham Cooks²; Zheng Ouyang¹;
 ¹Biomedical Engineering, Purdue University, West
 Lafayette, IN; ²Chemistry Department, Purdue University,
 West Lafavette. IN
- ThP 029 Manipulation of Trapped Ions in High Pressures in CITs and SLITs; Andrew Hampton; J. Michael Ramsey; UNC Chapel Hill, Chapel Hill, NC
- ThP 030 Making Sense of Water Quality: A Portable MS-UV Sensing Platform for Real-Time Monitoring in Aquaculture; Simon Maher¹.³; Barry Smith²; Mariya Juno³; Fred Jjunju³; Behnam Bastani¹.³; Lei Su³; Urszula Salaj-Kosla⁴; Liam Lewis⁴; Jean-Michel Mortz⁵; Dag Hammer⁶; Gyda Christophersen⁶; Pat O'Leary¹; Allan MacMaster⁶; Stephen Taylor².³; Iain Young¹; ¹Institute of Integrative Biology, University of Liverpool, UK; ²Q Technologies, Liverpool, UK; ³Dept. Electrical Engineering & Electronics, University of Liverpool, UK; ⁴Cork Institute of Technology, Cork, Ireland; ⁵BAMO-IER GmbH, Mannheim, Germany; ⁰Teknologisk Institutt as, Oslo, Norway; ¹Faaltech Technologies, Cork, Ireland; ⁰Anglesey Aquaculture Ltd, Beaumaris, UK
- ThP 031 Characterization of Small Organic Molecules and Proteins by Matrix-Assisted Ionization-Portable Mass Spectrometry; Zachary Devereaux; Sarah Trimpin; Wayne State University, Detroit, MI

ThP 032 Improvement of a Micro- Time of Flight Mass-Spectrometer based on MEMS Technologies; Romain Mahieu²; Laurent Duraffourg²; Marc Gely²; Thomas Alava²; Charles-Marie Tassetti¹; Frederic Progent¹; ¹CEA, DAM, DIF, F-91297 Arpajon, France; ²CEA LETI, Grenoble, France

GCMS: INSTRUMENTATION AND APPLICATIONS 033-061

- ThP 033 Analysis of FAMEs Using Cold El GC/MS for Enhanced Molecular Ion Selectivity; Adam J. Patkin; Sharanya Reddy; Andrew N. Tyler; PerkinElmer, Shelton, CT
- ThP 034 Simultaneous Determination of 74 kinds of pesticides in Chinese Herbal Medicine Listed in Chinese Pharmacopoeia (2015) by GPC-GC-MS/MS; Yang Huiyan; Fan Jun; Huang Taohong; Shin-ichi Kawano; Yuki Hashi; Shimadzu, Shanghai, China
- ThP 035 Improved Analysis of Allergens in Cosmetics by Cold El GC/MS; Sharanya Reddy; Thomas Dillon; Adam Patkin; Bill Hahn: PerkinElmer. Shelton. CT
- ThP 036 Determination of Chemicals in Consumer Goods, Food Commodities and Drugs in a Rapid Method with Limited Sample Prep; Louis Maljers¹; Gordon van 't Slot²; ¹Bruker, Fremont, Ca: ²Bruker, Bremen, Germany
- ThP 038 Assessing the Thermal Stability and Degradation Characteristics of Chemical Warfare Nerve Agents via Pyrolysis GC-MS; Jeffrey Mcguire¹; John Carpin¹; Matthew Parrish²; ¹US Army ECBC, Aberdeen Proving Ground, MD; ²LEIDOS, Gunpowder, MD
- ThP 039 Evaluation of Direct and Dopant-Assisted APLI in GC-MS Applications; Faezeh Dousty¹; Hendrik Kersten²; Thorsten Benter²; Rob O'Brien³; ¹University of British Columbia Okanagan, Kelowna, BC, Canada; ²University of Wuppertal, Wuppertal, Germany; ³Supra Res & Dev, Kelowna, BC, Canada
- ThP 040 High Mass Accuracy Measurements and Elemental Composition Determination of Molecular Ions and Fragments of Pesticides with Single Quadrupole GC/MS Systems; Ming Gu; Hongliang Xu; Yongdong Wang; Cerno Bioscience. Norwalk. CT
- ThP 041 Rapid Analysis of Polychlorinated Biphenyls (PCBs) in Vegetables by QuEChERS-based Extraction and GPC-GCMS; Xizhi Wang¹; Shiheng Luo¹; Feifei Tian¹; Jun Fan²; Guixiang Yang¹; Taohong Huang²; Shin-ichi Kawano²; Yuki Hashi²; ¹Shimadzu Global COE, Shimadzu (China) Co.,Ltd., Beijing, China; ²Shimadzu Global COE, Shimadzu (China) Co.,Ltd., Shanghai, China
- ThP 042 Charcterization of Rose and Other Essential Oils and Synthetic Additives in them Using GC/MS with Cold El Source; Avinash Dalmia; Urs Steiner; Perkinelmer, Shelton, CT
- ThP 043 Chemometric Methods for Botanical Classification of Chinese Honey According to Their Volatile Profiling by Solid-Phase Microextraction and Gas Chromatography-Mass; Hui Chen¹; Linghe Jin²; Chunlin Fan¹; Guofang Pang¹; Wenwen Wang³; Philip L. Wylie⁴; Joerg Riener⁵; Kumi Shiota Ozawa⁶; ¹Chinese Academy of Inspection and Quarantine, Beijing, China; ²Shandong Agriculture University, Tai'an, China; ³Agilent Technologies, Beijing, China; ⁴Agilent Technologies, Wilmington, DE; ⁵Agilent Technologies, Waldbronn, Germany; ⁶Agilent Technologies, Barueri, Brazil
- ThP 044 SIMAT: GC-SIM-MS Analysis Tool; Mohammad R Nezami Ranjbar²; Cristina Di Poto¹; Yue Wang²; Habtom Ressom¹; ¹Georgetown University, Lombardi Cancer Center, Washington, DC; ²Virginia Tech, Arlington, VA



- ThP 045 A Spike-In Experiment for Assessment of GC-MS-based Analysis of Metabolites in Human Plasma;
 Rency Varghese; Yue Luo; Cristina Di Poto; Mohammad R
 Nezami Ranjbar; Habtom Ressom; Georgetown University,
 Lombardi Cancer Center, Washington, DC
- ThP 046 Rapid Screening of Different Groups of Steroids by Multiple Selected Ion Monitoring in Biological Fluids;

 Dick Bernhard; Bruno Vogt; Genevieve Escher; Inselspital Nephrology, Hypertension, Bern, Switzerland
- ThP 047 New, Innovative Thermal Modulator Design for Two-Dimensional Gas Chromatography/ Mass Spectrometry Analysis; Gaetano Stallone¹; Massimiliano Saini Fasanotti²; Ilaria Ferrante²; ¹Volatome, Giovinazzo, Italy; ²DANI Instruments SpA, Cologno Monzese, Italy
- ThP 048 Evaluation of Methylisothiazolinone (MI) Extraction from Sunscreen using Supported Liquid Extraction prior to GC/MS Analysis; Rhys Jones¹; Lee Williams¹; Alan Edgington¹; Helen Lodder¹; Adam Senior¹; Geoff Davies¹; Steve Jordan¹; Claire Desbrow¹; Victor vandell²; Elena Gairloch²; ¹Biotage GB Limited, Cardiff, Mid Glamorgan; ²Biotage LLC, Charlotte, NC
- ThP 049 Identification of High-Molecular Weight Brominated Flame Retardants in Environmental Samples using GC/Q-TOFMS; Viorica Lopez-Avila; Jennifer Sanderson; Agilent Technologies, Santa Clara, CA
- ThP 050 Open Probe Fast GC-MS Real Time Analysis with Separation; Aviv Amirav; Uri Keshet; Alexander Fialkov; Tal Alon; Tel-Aviv University, Tel-Aviv, Israel
- ThP 051 GC Coupled to an Orbitrap-MS with a Novel
 Atmospheric Pressure Photoionization (APPI) Ion
 Source; Joerg Hippler¹; Oliver Knoop¹; Amela Bronja¹;
 Duxin Li¹; Robert Ahrends²; Oliver J. Schmitz¹; ¹University
 of Duisburg-Essen, Essen, Germany; ²Leibniz-Institut für
 Analyt. Wissensch. ISAS -, Dortmund, Germany
- ThP 052 A Microfabricated Chromatographic Chip Integrated with a Peak-Refocusing Cold Trap for a Multi-dimensional GC/MS Analysis; Sanggoo Kim; Sungmin Lim; Korea Basic Sci. Institute, Seoul, South Korea
- ThP 053 Two-Dimensional Comprehensive Gas Chromatography Multi-Reflection Time-Of-Flight Mass Spectrometry: A Unique Tool to Merge Accurate Mass Information with High Chromatographic Resolution; Thomas Groeger¹; Ralf Zimmermann²; Benedikt Weggler¹; Martin Sklorz²; Aimee Sutherland¹; Juergen Wendt³; ¹Helmholtz Zentrum Muenchen, Oberschleissheim, Germany; ²University of Rostock, Rostock, Germany; ³LECO Instrumente GmbH, Moenchengladbach, Germany
- ThP 054 Extending the Range of Compounds Amenable for GC-MS Analysis; Alexander Fialkov; Tal Alon; Aviv Amirav; Tel Aviv University, Tel Aviv, Israel
- ThP 055 Analysis of Metabolites in Human Plasma Using Stable Isotopes and Ultra-Fast GC-MS/MS System; Yumi Unno¹; Shuichi Kawana¹; Yukihiko Kudo¹; Takero Sakai¹; Shin Nishiumi²; Masaru Yoshida²; Noriyuki Ojima¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Kobe University Graduate School of Medicine, Kobe, Japan
- ThP 056 Automated Development of the Comprehensive
 Compound Database for Targeted MRM-based
 Metabolomics of Arabidopsis Plants using GC-MS/
 MS Technology; Feroza K. Choudhury¹; Dwain Cardona²;
 Amith Reddy¹; Ron Mittler¹; Vladimir Shulaev¹; ¹University of
 North Texas, Denton, TX; ²Thermo Fisher Scientific, Austin, TX
- ThP 057 Screening for Hundreds of Pesticide Residues Using a GC/Q-TOF with an Exact Mass Pesticide Database in Various Food Matrices; Joerg Riener¹; Samanta Uclés²; Philip L. Wylie³; Wenwen Wang⁴; Jennifer Gushue⁵; Amadeo Fernández-Alba²; ¹Agilent Technologies, Waldbronn, Germany; ²University of Almería, Almeria, SPAIN; ³Agilent Technologies, Wilmington, DE; ⁴Agilent Technologies Co. Ltd, Beijing, China; ⁵Agilent Technologies, Santa Clara, CA

- ThP 058 A Comparison of ITEX Dynamic Headspace/GC/
 MS to Other Enrichment Techniques for Analysis of
 Flavoring Compounds; Douglas Doster; Aspen Research
 Corporation, New Germany, MN
- ThP 059 Determination of Residual Styrene Monomer in Copolymers by Headspace Solid Phase Microextraction Followed by GC/MS Using Isotope Dilution Calibration;

 Dayna Turner; Andrei Stefanescu; Novus International, Saint Charles. MO
- ThP 060 Software for Improved Sample Identification and Provision of Elemental Formula from Quadrupole based GC-MS Data; <u>Tal Alon</u>^{1,2}; Aviv Amirav¹; <u>**Tel Aviv University</u>, Tel Aviv, Israel; <u>**Afeka Tel-Aviv Academic College of Engineering</u>. Tel Aviv, Israel
- ThP 061 Gas Chromatography Plasma-Assisted Reaction Chemical Ionization Mass Spectrometry: Quantification of Organohalogens at High Sensitivity; Haopeng Wang¹; Carina Minardi¹; Hamid Badiei²; Kaveh Kahen²; Kaveh Jorabchi¹; ¹Georgetown University, Washington, DC; ²PerkinElmer Inc., Woodbridge, Canada

POLYMERS 062-083

- ThP 062 Ion Mobility-Mass Spectrometry: A Novel Approach to Screening for Extractable and Leachable Components from Packaging Material; Baiba Cabovska¹; Eleanor Riches²; Cristina Nerin³; Margarita Aznar³; Pilar Alfaro³;

 1 Waters Corporation, Milford, MA; 2 Waters Corporation, Wilmslow, UK; 3 CPS-University of Zaragoza, Zaragoza, Spain
- ThP 063 Comprehensive Extractables Analysis of Medical Grade
 O-ring; Dan Ewing¹; Bill Hurley²; Andrew Feilden³; Michael
 Creese³; Kate Comstock⁴; Ekong Bassey⁴; John Schmelzel⁴;
 ¹Parker Hannifin O-ring Division, Lexington, KY; ²Darcoid
 Nor-Cal Seal, Oakland, CA; ³Smithers Rapra, Shawbury,
 UK; ⁴Thermo Fisher Scientific. San Jose, CA
- ThP 064 Characterization of Facial Cleansers by Kendrick Mass Defect Analysis using MALDI Spiral-TOFMS; Kanae Teramoto¹; Masaaki Ubukata²; Robert Cody²; Hiroaki Sato³; ¹JEOL Ltd., Akishima, Japan; ²JEOL USA Inc., Peabody, MA; ³Advanced Industrial Science and Technology (AIST), Tsukuba, Japan
- ThP 065 Role of the Matrix in Fragile End-Group Cleavage upon MALDI of Synthetic Polymers; Christophe Chendo; Trang N.T. Phan; Didier Gigmes; Laurence Charles; Aix-Marseille University, Marseille, France
- ThP 066 Trapped Ion Mobility Mass Spectrometry for Improved Additive Detection and Polymer Identification; Jan Jordens¹; Matthieu Besemer¹; Ynze Mengerink¹; Mark Ridgeway²; Melvin A. Park²; Maarten Honing¹; ¹Resolve, Geleen, Netherlands; ¹Bruker Daltonics, Inc., Billerica, MA
- ThP 067 Simultaneous Identification of Trace Organic Impurities in Purified Terephthalic Acid (PTA) by Ultra-High Performance Liquid Chromatography—Quadrupole Time-Of-Flight Mass Spectrometry; Yidan Guo; SINOPEC, Shanghai, China
- ThP 068 Structural Elucidation of Co-Polymer-Like Surfactants using MALDI Hi-Energy Collision Induced Dissociation;
 Roberto Castangia²; Martin Resch Resch¹; Matthew
 Openshaw²; Omar Belgacem²; ¹Shimadzu, Manchester, UK;
 ²Shimadzu, Kratos, Manchester, UK
- ThP 069 A Tandem Mass Spectrometry-Based Method to Assess the Architectural Purity of Synthetic Polymers: The Case of a Cyclic Polylactide; Thomas Josse¹; Julien De Winter¹; Philippe Dubois¹; Olivier Coulembier¹; Antony Memboeuf²; Pascal Gerbaux¹; **Iuniversity of Mons, Mons, N/A; **2Université de Bretagne Occidentale, Brest, France
- ThP 070 Mass Spectrometry Characterization of Glycopolymers with Controlled Branching; Sahar Sallam¹; Chrys Wesdemiotis¹; Liau Walter²; Andrea Kasko²; ¹The University of Akron, Akron, OH; ²University of California, Los Angeles, CA



- ThP 071 Matrix Assisted Laser Desorption Ionization Mass Spectrometry of Plasma Polymerized Styrene; Lee Elliott; , Carbondale, Illinois
- ThP 072 The Analysis of Cationic Polymers by MALDI-TOF MS; Julie McGettrick; *University of Montana, Missoula, MT*
- ThP 073 Characterization of Fatty Acid Methyl Ester Ethoxylates by Liquid Chromatography-Electrospray Ionization

 Mass Spectrometry; Jian Li; Yan Liu; Sinopec Shanghai
 Research Institute of Petrochemic. Shanghai. China
- ThP 074 Rapid Identification of Nylons by Temperature-Rising Direct Analysis in Real Time Mass Spectrometry (TR-DART-MS); Chikako Takei¹; Kazumasa Kinoshita¹; Takao Nishiguchi¹; Haruo Shimada²; Katsuyuki Maeno²; Yasuo Shida³; ¹BioChromato,Inc., Fujisawa, Japan; ²Shiseido Research Center, Yokohama, Japan; ³University of Yamanashi. Kofu. Japan
- ThP 075 Identification of Additives in a Molded Nitrile Rubber by PY/GCxGC/HRTOFMS; Koji Okuda¹; Jun Onodera¹; Daniel Barabino²; Akihiko Kusai¹; ¹JEOL Ltd., Akishima, Japan; ²JEOL USA, INC., Peabody, MA
- ThP 076 Density of Coordination Sites (DOCS): A Concept Reconciles Supramolecular Design, Complexity,
 Stability and Mass Spectrometry Characterization; Bin Sun; Ming Wang; Alejandro Cisneros; Xiaopeng Li; Texas State University, San Marcos, TX
- ThP 077 Improved Analysis of Ultra-High Mass Polymers in MALDI-TOF Mass Spectrometry; Steffen M. Weidner¹; Stefan Johannes Gabriel¹; Ulrich Panne¹; Robert Steinhoff²; Renato Zenobi²; Clemens Schwarzinger³; ¹Federal Institute f. Material Research and Testing, Berlin, Germany; ²ETH Zurich, Zurich, Switzerland; ³Johannes Kepler Universität, Linz, Austria
- ThP 078 Multidimensional Mass Spectrometry Analysis of Polyglycerol; Ahlam Alalwiat; Sahar Sallam; Chrys Wesdemiotis; The University of Akron, Akron, U.S.A
- ThP 079 Citric Acid-Capped Iron Oxide Nanoparticles as an Effective MALDI Matrix for Polymer Analysis; Qiaoli Liang; Jennifer Sherwood; Thomas Macher; Yuping Bao; Carolyn J. Cassady; University of Alabama, Tuscaloosa, AL
- ThP 080 Preparation of Candidate Standard Reference Material (SRM) 2860 Restricted Substances in Polyvinyl Chloride (PVC) and Measurement of Phthalates by Gas Chromatography/Mass Spectrometry; Bruce A. Benner.

 Jr. 1; David P. Owen²; Katherine Stahl²; Kristi Utecht²; Leena Pitkänen¹; André M. Striegel¹; ¹NIST, Gaithersburg, MD; ²BASF, Pasadena, TX
- ThP 081 Characterisation of a Polydisperse Cationic Polyethylenimine (PEI) Lipid using MALDI-MS, LC-ELSD-TOFMS, SEC-MALS, NMR and Solid State NMR; Lena von Sydow; Johan Broddefalk; Gunnar Grönberg; Pernilla Korsgren; Sara Richardson; Anna Svensk Ankarberg; Staffan Schantz; AstraZeneca R&D, Mölndal, Sweden
- ThP 082 Enrichment and MALDI-MS Analysis of Peptides by Amphiphilic Homopolymer-Based Reverse Micelle with Different Functionalities; Bo Zhao; Feng Wang; Sankaran Thayumanavan; Richard Vachet; University of Massachusetts Amherst, Amherst, MA
- ThP 083 Simplification of Pharmaceutically Relevant Polymer Mass Spectra via Gas-Phase Ion/Ion Reactions with Carborane Anions; Carl Luongo¹; Stella Betancourt¹; Steven Cummings²; Christopher Reed²; Scott McLuckey¹;

 1Purdue University, West Lafayette, IN; 2University of California Riverside, Riverside, CA

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ThP 084 Automatic Optimization of MS and MS/MS Assays for Dilute Samples or Weak Transitions; Bennett Kalafut; Thermo Fisher Scientific, San Jose, CA

- ThP 085 Investigation for Gas-phase Fragmentation of N-phenyl Ferrocene Imine Derivatives Studied by Mass Spectrometry; Yawen Mo; , Hangzhou, P.R. China.
- ThP 086 Low Energy Collision-Induced Dissociation Tandem
 Mass Spectrometry of Metal-Yersiniabactin Complexes:
 An Empirical and Theoretical Study; Daryl Giblin; Eun-lk
 Koh; Jan R. Crowley; Michael Gross; Jeffrey P. Henderson;
 Washington University, St Louis, MO
- ThP 087 Ambulation of Incipient Proton, and Elimination of an Alcohol or Alkene during Gas-phase Dissociation of Protonated Alkyl Dihydrocinnamate; Sihang Xu; Athula Attygalle; Stevens Institute of Technology, Hoboken, NJ
- ThP 088 Utilizing Gas-phase Fragmentation Chemistry for Multicomponent Mixture Analysis; Maha T. Abutokaikah; Benjamin J. Bythell; Univ. of Missouri-St. Louis, St. Louis,
- ThP 089 Formation of Superoxide [O₂·] Anion Adducts from Amides under Atmospheric Pressure Helium-Plasma Ionization (HePI) Conditions; Isra Hassan; Spencer Pinto; Athula Attygalle; Stevens Institute of Technology, Hoboken, N.I.
- ThP 090 Hydrogen Attachment Dissociation (HAD): A Novel Fragmentation Mass Spectrometry for Singly and Multiply Charged Peptide Ions; Hidenori Takahashi¹; Sadanori Sekiya¹; Takashi Nishikaze¹; Kei Kodera¹; Shinichi Iwamoto¹; Motoi Wada²; Koichi Tanaka¹; ¹Shimadzu Corporation, Kyoto, Japan; ²Doshisha University, Kyotanabe, Japan
- ThP 091 Impact of Cobalt Oxidation State and β Ligand on Ion Formation in Electrospray Ionization and Collision-Induced Dissociation of Cobalamins; Liqiong Fang; Almary Chacon; Peifeng Hu; Baxter Healthcare Corporation, Round Lake, IL
- ThP 092 Characterization of End Group Functionalized Poly(Nisopropylacrylamides) by Using Multiple ETD/CAD Stages; Selim Gerislioglu; Chrys Wesdemiotis; The University of Akron, Akron, OH
- ThP 093 Investigation for Gas-phase Fragmentation of N-phenyl Ferrocene Carboxamides in ESI Mass Spectrometry; Linji Chen; Hangzhou, P.R. China.
- ThP 094 Proton Transfers in the Fragmentation of Protonated N-benzylbenzamides in Electrospray Ionization Mass Spectrometry; Yunfeng Chai; Yuanjiang Pan; Zhejiang University, Hangzhou, China
- ThP 095 Investigation for Gas-phase Fragmentation of 3-Idolphenyl Phenyl Sulfides by APCI Mass Spectrometry; Chenlu Wang; , Hangzhou, China
- ThP 096 Dissociative Benzyl Cation Transfer in the Fragmentation of Protonated 3-[(5-aryl-1,3,4-oxadiazol-2-yl)methyl]benzo[d]thiazol2(3H)-ones; Ye Wang; , Hangzhou, China
- ThP 097 Carboranes: Gas Phase Properties of Large Caged Molecules; Omar Hamdy; Ryan R. Julian; University of California, Riverside, Riverside, CA
- ThP 098 ESI-Induced Oxygen Transfer from Nitro Group to Alkyl Chain in N-alkyl-2-nitroanilines; George Mathai¹; June Cyriac¹; Justin Paulose¹; Daryl Giblin²; Michael Gross²;

 ¹Sacred Heart College, Kochi, India; ²Department of Chemistry, Washington University, St. Louis, MO
- ThP 099 Probing Dissociation of Collisionally Excited Non-Covalent Complexes by Energy-Resolved CID and Computational Chemistry; Glenn Carroy¹; Vincent Lemaur¹; Julien De Winter¹; Denis Morsa²; Jérôme Cornil¹; Edwin De Pauw²; Pascal Gerbaux¹; ¹UMONS, Mons, Belgium; ²ULG, Liège, Belgium
- ThP 100 Proton-bound Complex Mediating retro-Michael Type Fragmentation of Protonated Bicyclic Caprolactams in the Orbitrap HCD Cell; Yunyuan Dong; Hangzhou, P.R. China



- ThP 101 Integrating Proton Transfer Reactions and Ultraviolet
 Photodissociation for Improving Analysis of Intact
 Proteins; <u>Dustin Holden</u>; William Mcgee; Jennifer Brodbelt;
 The University of Texas, Austin, TX
- ThP 102 Photofragmentation of Red Azo Dyes using Visible
 Wavelength Range; Martin Clemen; <u>Tassilo Muskat</u>; Jürgen
 Grotemeyer; *Inst. f. Phys. Chem der CAU zu Kiel, Kiel,*Germany
- ThP 103 Influence of Ion Storage Location and Multiple Fill/
 Laser Pulse Sequence on Top-Down UVPD using a
 Modified Orbitrap Fusion Mass Spectrometer; Chad
 R. Weisbrod¹; Dustin D. Holden²; John E. P. Syka¹; JeanJacques Dunyach¹; Nick Izgarian¹; Eugene Zhuk¹; Jennifer
 S. Brodbelt²; Jae C. Schwartz¹; ¹ThermoFisher Scientific,
 San Jose, CA; ²The University of Texas, Austin, TX
- ThP 104 Cysteine-selective Proteomics: Selenium-Based Chromophore for Selective S-Se Bond Cleavage with 266 nm Ultraviolet Photodissociation; W. Ryan Parker; Jennifer Brodbelt; The University of Texas, Austin, TX

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- ThP 105 ESI-MS of a Thermochromic and Photoresponsive
 Cyanometalate Fe/Co Square; Philip J. Ferko; Stephen M.
 Holmes; Benjamin J. Bythell; University of Missouri-Saint
 Louis, Saint Louis, MO
- ThP 106 Gas-Phase Proton Affinities of Proline-Containing
 Dipeptides from the Extended Kinetic Method; Kathy
 Huynh; John Poutsma; College of William & Mary,
 Williamsburg, VA
- ThP 107 Collision Cross Sections for 20 Protonated Amino Acids: Comparison of FTICR-MS, IMS and TWIMS Results; Anupriya Anupriya; Chad Jones; David V. Dearden; Brigham Young University, Provo, Utah
- ThP 108 Investigating Gd* Oxidation Reactions and Determining the GdO* Bond Energy Using Guided Ion Beam Mass Spectrometry; Maria Demireva; JungSoo Kim; Arjun Kafle; Peter Armentrout; University of Utah, Salt Lake City, UT
- ThP 109 Covariance Images from Laser-Induced Coulomb
 Explosions in Helium Droplets; Michael Burt¹; Alexandra
 Lauer¹; Kasra Amini¹; James Pickering¹; Mark Brouard¹; Lars
 Christiansen²; Lauge Christensen²; Benjamin Shepperson²;
 Henrik Stapelfeldt²; ¹University of Oxford, Oxford, UK;
 ²Aarhus University, Aarhus, Denmark
- ThP 110 Determination of Gas-Phase Acidity for Biologically
 Active Organic Compounds; Zachary Buen; Patrickhenry
 Batoon; Alec Follmer; Bhupinder Padda; Jianhua Ren;
 University of the Pacific, Stockton, CA
- ThP 111 Study of Proline-containing Peptide Structures by Simulated Annealing Molecular Dynamics Simulation;
 Doyong Kim; Texas A&M, College Station, TX
- ThP 112 Cyclic Ring Closure Reactions of Xanthene Dyes
 Observed by Collision induced Dissociation and Photo
 Dissociation; Claus Gernert; Heiko Bannick; Sarah Seulen;
 Jurgen Grotemeyer; Christian-Albrechts-Univ, Kiel, Germany
- ThP 113 Structures and Unimolecular Chemistry of Beta-Methylaminoalanine (BMAA) Complexes with Alkali and Alkali Earth Metal Cations; Bryan Linford; Travis Fridgen; Memorial University of NL, St. John's, Canada
- ThP 114 Solving the Controversy Surrounding the Marker Fragment at 193 for the Positive Identification of 8-iso Prostaglandin F2α; Sabu Sahadevan¹; SawYen Ow¹; Kun-Yi Chien²-³; Lang-Ming Chi²-⁴; Jau-Song Yu²-⁵; ¹Bruker Taiwan Co. Ltd., Sijhih, Taiwan; ²Molecular Medicine Research Center, CGU, Tao-Yuan, Taiwan; ³Department of Biochemistry, CGU, Tao-Yuan, Taiwan; ⁴Medical Research and Development, CGMH, Tao-Yuan, Taiwan; ⁵Department of Cell and Molecular Biology, CGU, Tao-Yuan, Taiwan
- ThP 115 Characterization of Gas-Phase Tungsten Dithiolene Anions; <u>Taylor Souza</u>; Partha Basu; Michael J. Van Stipdonk; *Duquesne University, Pittsburgh*, *PA*

- ThP 116 ESI-MS/MS and DFT Computations on Negative and Positive Ions from 4-aminoalkyl-3-hydroxy-1,2,5-Oxadiazoles Featuring a Novel Heterocyclic Biomimetic of the Carboxylic Group; J. Stuart Grossert¹; Donatella Boschi²; Marco Lolli²; Robert White¹; ¹Dalhousie University, Department of Chemistry, Halifax, Canada; ²Departimento del Farmaco, Universita di Torino, Torino, Italy
- ThP 117 Gas-Phase Acidities of Phosphorylated Amino Acids and Their Amino Acid Amides; Chelsea E. Plummer; Michele L. Stover; David A. Dixon; Carolyn J. Cassady; The University of Alabama, Tuscaloosa, AL
- ThP 118 A UVPD and Molecular Dynamics Approach to Understanding How Specific Charge Sites Impact Gas-Phase Protein Structure; Lindsay Morrison; Jennifer Brodbelt; The University of Texas, Austin, TX
- ThP 119 Gas-phase Acidities of Linear and Branched Hexanols: "Intrinsic acidity" and Conformational Effects on Gas-Phase Ion Thermochemistry; Alex A. Nickel; Jerry G. Lanorio; Surja B. Ghale; Kent M. Ervin; University of Nevada, Reno, Reno, NV

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- ThP 120 EPA Method 557 Quantitation of Haloacetic Acids,
 Bromate and Dalapon in Drinking Water Using Ion
 Chromatography and Tandem Mass Spectrometry;
 Jonathan Beck; Hans Schweingruber; Terri Christison;
 Thermo Fisher Scientific. San Jose. CA
- ThP 121 The Switch from Chlorine to Chloramine for Drinking Water: Lower Regulated DBPs vs. Higher iodo-DBPs Which is Safer? Hannah Liberatore¹; Susan Richardson¹; Yukako Komaki²; Susana Kimura¹; Elizabeth Wagner²; Michael Plewa²; ¹University of South Carolina, Columbia, SC; ²University of Illinois at Urbana-Champaign, Urbana, IL
- ThP 122 Advanced Solvent Based Methods for Molecular Characterization of Soil Organic Matter by High Resolution Mass Spectrometry; Rosalie K. Chu¹; Malak M. Tfaily¹; Nikola Tolic¹; Christopher R. Anderton¹; Kristyn M. Roscioli²; Errol W. Robinson¹; Nancy J. Hess¹; Ljiljana Pasa-Tolic¹; ¹Pnnl, Richland, WA; ²Idaho National Laboratory, Idaho Falls, ID
- ThP 123 Travelling Wave Ion Mobility Enhanced Separation of Poly-Halogenated Dioxins and Furans in Controlled Burn Samples; Kari Organtini¹; Lauren Mullin^{2, 3}; Adam Ladak³; ¹The Pennsylvania State University, State College, PA; ²MTM Research Centre Örebro University, Örebro , Sweden; ³Waters Corporation, Milford, MA
- ThP 124 Application of LC-MS/MS to the Analysis of Degradation and Mineralization of the Textile Dye Acid Yellow 42 by Solar photoelectro-Fenton; Loreto Villegas¹; Lidia Espinoza²; Ricardo Salazar²; ¹Dep. Ciencias del Ambiente, Univ. de Santiago, Santiago, CHILE; ²Dep. Qca de Materiales, Univ. de Santiago, Santiago, Chile
- ThP 125 Analysis of Human Serum for Perfluorinated
 Compounds by Reversed Phase High Performance
 Liquid Chromatography Multiple Reaction Monitoring
 Tandem Mass Spectrometry; Michael Stagliano; Gabriel
 LaMore; Matthew Geiger; Sara Tomechko; Michigan
 Department of Community Health, Lansing, MI
- ThP 126 Identification of Biodegradation Products of the Ionic Liquid 1-butyl-3-methylimidazolium Chloridey Liquid Chromatography-Mass Spectrometry (LC-MS); Wisam Alisawi; Andre Venter; Western Michigan University, Kalamazoo, MI
- ThP 127 Rapid Quantification of Perfluorinated Compounds in Drinking and Surface Water Using LC-MS/MS; Jeremy Post; Christopher Gilles; William Lipps; Shimadzu Scientific Instruments, Columbia, MD
- ThP 128 Characterizing the Range of Low Molecular Weight
 Organic Compounds in Nitrogen-Limited Arctic Soils
 using Nano-Electrospray Mass Spectrometry; Mallory



- P. Ladd^{1, 2}; Paul Abraham²; Richard Giannone²; Richard J. Norby^{1, 2}; Robert Hettich^{1, 2}; ¹University of Tennessee, Knoxville, TN; ²Oak Ridge National Laboratory, Oak Ridge, TN
- ThP 129 Utilizing High Efficiency Electron Ionization and MS/MS to Reduce Injection Volumes and Sample Extract Volumes for EPA 8270; Matthew Curtis¹; Fred Feyerherm³; Dale Walker³; Ron Honnold²; ¹Agilent Technologies, Santa Clara, CA; ²Agilent Technologies, Riverside, CA; ³Agilent Technologies, Houston, TX
- ThP 130 A Rapid LCMS Method for Evaluation of EPA 1694 and 6810 Contaminants in Drinking Water; Rachel Lieberman; Jeremy Post; Jonathan Edwardsen; Christopher Gilles; William Lipps; Shimadzu Scientific Instruments, Columbia, MD
- ThP 131 Mass Spectrometry-based Chemical and Biological Evaluation of Agricultural Dusts; Paulos Chumala; John Gordon; Shelley Kirychuk; Brooke Thompson; Wojciech Dawicki; George Katselis; College of Medicine, University of Saskatchewan. Saskatoon. Canada
- ThP 132 Quantitation of Incurred Leuco Crystal Violet Residues in Tilapia and Channel Catfish by ESI-LC-MS; Megan Czerniejewski; Southern Illinois University, Carbondale, IL
- ThP 133 Perfluoroperhydrophenanthrene, an Alternative
 Calibrant/Lock Mass for Electron Ionization High
 Resolution MS; Paul Peterman; US Geological Survey,
 Columbia. MO
- ThP 134 Characterizing Polar Organic Contamination of a
 Landfill Leachate by Target and Non-Target Screening
 Using Q-Exactive Mass Spectrometer; Heinz Singer;
 Philipp Longrée; Eawag, Duebendorf, Switzerland
- ThP 135 Secondary Organic Aerosol from Gas Phase Methylsiloxane Oxidation; Yue Wu; Murray Johnston; University of Delaware, Newark, Delaware
- ThP 136 Determination of 5 Odorous Compounds in Water by GC-MS/MS using Purge-and-Trap Technique; Liu Xiaohua; , Guangzhou, China
- ThP 137 Rapid, High Throughput Quantitation of Cyanotoxins in Natural Water by UHPLC-MS-MS; Thomas Russell¹; Deborah Schordock²; ¹Shimadzu Scientific, INC, Columbia, MD; ²North East Ohio Regional Sewer District, Cleveland,
- ThP 138 Determination of Volatile Organic Compounds (VOCs)
 Present in the Interiors of Car by using GCMS/MS with
 Static and Dynamic Headspace; Sanket Chiplunkar;
 Ankush Bhone; Durvesh Sawant; Dheeraj Handique;
 Prashant Hase; Ajit Datar; Jitendra Kelkar; Pratap Rasam;
 Shimadzu Analytical (India) Pvt. Ltd., Mumbai, India
- ThP 139 Analysis of N-nitrosamines in Water by Gas
 Chromatography, Electron Ionization Tandem Mass
 Spectrometry; Ron Honnold¹; Matthew Curtis²; Dale
 Walker²; ¹Agilent Technologies, Riverside, CA; ²Agilent
 Technologies, Santa Clara, CA
- ThP 140 Highly Sensitive and Selective Quantification of Microcystin Toxins in Drinking Water By UHPLC-MS/MS; Alan Mckeown¹; Geoffrey Faden²; ¹Advanced Chromatography Technologies Ltd, Aberdeen, UK; ²MACMOD Analytical Inc., 103 Commons Court, Chadds Ford, PO Box 587, PA 19317
- ThP 141 Hyphenation and Automation of Large-Volume Online-SPE with Liquid Chromatography Mass Spectrometry; Andreas Bruchmann¹; Thorsten Teutenberg²; Jochen Türk²; Claudia vom Eyser²; Steffen Wiese²; Christoph Portner²; Andreas Mohren³; ¹Axel Semrau GmbH & Co.KG, Sprockhoevel, Germany; ²IUTA, Duisburg, Germany; ³Universität Duisburg Essen, Essen, Germany
- ThP 142 Screening and Identification of Environmental Pollutants in Sediments and Fish using High Resolution GC/Q-TOF; Praveen Kutty¹; Anthony Gravell¹; Sofia Nieto²; Kai Chen²; 'Natural Resources Wales, Wales, UK; 'Agilent Technologies, Inc., Santa Clara, CA

- ThP 143 Highly Oxidized Species in Fresh and Aged Secondary Organic Aerosol (SOA); Peijun Tu; Murray Johnston; University of Delaware, Newark, DE
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 ¹Shimadzu Corporation, Kyoto, Japan; ²Kyushu University,
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 ¹CEA, iBiTec-S, SPI, LEMM, Gif Sur Yvette, France;
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 ¹Interdisciplinary Research Center on Biology, Shanghai, China; ²Shanghai Institute of Organic Chemistry, Shanghai, China; ³SCIEX. China, Shanghai, China
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- ThP 431 XLH: A Tool to Harmonize and Integrate Output from Multi-Threaded XL-MS Workflows and Multiple, Parallel XL-MS Crosslink Detection Programs; Paul Gershon; UC-Irvine, Irvine, CA
- ThP 432 Confident Identification of Chemical Crosslinks in Nonspecifically-Digested LC-MS/MS Samples by Locus-Centric Aggregate Scoring; Mark Adamo¹; Andrew Grassetti²; Scott Gerber²; ¹Norris Cotton Cancer Center, Lebanon, NH: ²Geisel School of Medicine, Lebanon, NH
- ThP 433 Identification via Shotgun Mass Spectrometry of Unlabelled Chemical Crosslinks in Protein Complexes, using XCorr, Exact p-valuecalibration, and Parsimonious Search; J. Jeffry Howbert; William Noble; University of Washington, Seattle, WA
- ThP 434 LC-MS/MS Peptide Mapping with de novo Sequencing for Cross-Linking Peptide Analysis; Baozhen Shan; Lei Xin; Bioinformatics Solutions Inc., Waterloo, Canada
- ThP 435 A Novel Statistical Learning Model for Mass Spectrometric Identifications of Cross-Linked Peptides;

 Chao Ji; James P. Reilly; Predrag Radivojac; Haixu Tang;
 Indiana University, Bloomington, IN
- ThP 436 Kojak: Efficient Analysis of Chemically Cross-Linked Protein Complexes; Michael R. Hoopmann¹; Alex Zelter²; Richard S. Johnson²; Michael Riffle²; Michael J. Maccoss²; Trisha N. Davis²; Robert L. Moritz¹; ¹Institute for Systems Biology, Seattle, WA; ²University of Washington, Seattle, WA
- ThP 437 SIM-XL: A Powerful and User-Friendly Tool for Peptide Cross-Linking Analysis; Diogo Borges Lima¹; Tatiani B de Lima²; Tiago S Balbuena³; Ana Gisele C. Neves-Ferreira⁴; Valmir C Barbosa⁵; Fabio C Gozzo²; Paulo C Carvalho¹; ¹Lab Proteomics Protein Engineering ICC Fiocruz, Curitiba, PR; ²Dalton Mass Spectrometry Laboratory Unicamp, Campinas, SP; ³College of Agricultural and Veterinary Sciences, Jaboticabal, SP; ⁴Laboratory of Toxinology IOC Fiocruz, Rio de Janeiro, RJ; ⁵Systems Engineering and Computer Science Program, Rio de Janeiro. RJ



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- ThP 438 ProMex: A New Feature Extraction Algorithm for Top-down Mass Spectrometry Based on Summed Spectra;

 Jungkap Park; Paul D. Piehowski; Christopher S. Wilkins;

 Anil K. Shukla; Yufeng Shen; Samuel H. Payne; Richard D. Smith; Sangtae Kim; PNNL. Richland, WA
- ThP 439 A Facile Synthetic Route Towards A Novel Isobaric Tag Architecture For Increased Multiplexing and Improved Complement Reporter Ion Formation; Craig Braun¹; Martin Wühr¹; Brian Erickson¹; Gregory Bird²; Steven Gygi¹; Wilhelm Haas¹; **Harvard Medical School, Boston, MA; **2Dana Farber Cancer Institute, Boston, MA
- ThP 440 High Quality Top-Down Proteomics Analysis Using R;
 Christian Heckendorf¹; Roger Theberge²; Jean Spencer¹;
 Catherine E. Costello¹; Mark E. Mccomb¹; ¹Boston
 University School of Medicine, Boston, MA; ²Boston
 University School, Boston, MA
- ThP 441 New Functionality for the Trans-Proteomic Pipeline:

 Tools for the Analysis of Proteomics Data; Luis

 Mendoza¹; David Shteynberg¹; Joseph Slagel¹; Michael R.
 Hoopmann¹; Henry Lam²; Jimmy K Eng³; Eric Deutsch¹;
 Robert L Moritz¹; ¹Institute For Systems Biology, Seattle,
 WA; ²Hong Kong University of Science and Technology,
 Hong Kong, China; ³University of Washington, Seattle, WA
- ThP 442 Morpheus Spectral Counter: A Computational Tool for Label-Free Quantitative Mass Spectrometry using the Morpheus Mass Spectrometry Search Engine; David C Gemperline; Mark Scalf; Richard D Vierstra; UW Madison, Madison, Wisconsin
- ThP 443 A Common Data Analysis Pipeline for the Clinical Proteomics Tumor Analysis Consortium (CPTAC); Paul Rudnick¹; Sanford Markey²; Jeri Roth²; Yuri Mirokhin²; Nathan Edwards³; Stephen Stein²; ¹Spectragen Informatics, Rockville, MD; ²NIST, Gaithersburg, MD; ³Georgetown University Medical Center, Washington, DC
- ThP 444 Development of Sample-Specific Spectral Libraries to Increase Coverage of Mass Spectrometry-Based Proteomic Data for Samples of Limited Available Amounts; Krishan Kumar¹; Himanshu Grover²; Simion Kreimer¹; David Fenyo²; Alexander R. Ivanov¹; Barry L. Karger¹; ¹Barnett Inst., Northeastern University, Boston, MA; ²New York University, New York, NY
- ThP 445 A Novel Approach for Relative Protein Quantitation by Spectral Counting; Guoan Zhang; Jingjing Deng; Thomas Neubert: Skirball Institute. NYUMC. New York, NY
- ThP 446 MASH Suite Pro: A Comprehensive Tool for Top-down Proteomics; Wenxuan Cai¹; Huseyin Guner¹; Santosh Valeja¹; Ying Peng¹; Xiaowen Liu²; Ying Ge¹; ¹UW-Madison, Madison, WI; ²Indiana University-Purdue University, Indianapolis, IN
- ThP 447 De novo Sequencing of E.coli Lysate Using a Single Series of Fragment Ions via Chromophore Tagging and 351 nm UVPD; Scott Robotham¹; Andrew Horton¹; Joe Cannon²; Edward Marcotte¹; Jennifer Brodbelt¹; ¹University of Texas at Austin, Austin, TX; ²Tufts University, Medford, MA
- ThP 448 Combination Optimization of Search Engines and Post-Processing Approaches to Maximize Peptide/
 Protein Identification for Analyzing High Accuracy Mass Spectra; Chengjian Tu¹; Quanhu Sheng²; Danjun Ma³; Xiaomeng Shen¹; xue Wang¹; Yu Shyr²; Zhengping Yi³; Jun Qu¹; ¹University at Buffalo, Buffalo, NY; ²Vanderbilt University School of Medicine, Nashville, TN; ³Wayne State University, Clawson, MI
- ThP 449 A Novel Ion-current-based MS1 Strategy with Hybrid High-field Orbitrap Enables Large-Scale, Accurate, Extensive Proteomic Quantification with Extremely Low Missing Data; Xiaomeng Shen^{1,3}; Jun Li^{2,3}; Chengjian Tu^{2,3}; Shichen Shen^{1,3}; Xue Wang⁴; Jun Qu^{2,3}; ¹Dept.

- of Biochemistry at SUNY at Buffalo, Buffalo, NY; ²Dept. of Pharmaceutical Sci. at SUNY at Buffalo, Buffalo, NY; ³Center of Excellence in Bioinformatics&Life Sci., Buffalo, NY; ⁴Rosewell Park Cancer Institute, Buffalo, NY
- ThP 450 TopPIC: A Software Tool for Top-Down Mass Spectrometry-Based Proteoform Identification and Characterization; Qiang Kou¹; Likun Xun¹; Xiaowen Liu¹·²; ¹Indiana University Purdue University Indianapolis, Indianapolis, IN; ²Indiana University School of Medicine, Indianapolis, IN
- ThP 451 Large Scale Quantitation of Stable Isotope Labelled Proteomes Using Retention and Drift Time Profiling;
 Andrew Collins¹; Antony McCabe¹; Ian Morns³; Johannes
 PC Vissers²; Andrew R Jones¹; ¹Institute of Integrative
 Biology, University of Liverpool, UK; ²Waters Corporation,
 Manchester, UK; ³Nonlinear Dynamics Limited, Newcastle
 upon Tyne, UK
- ThP 452 New Method for Evaluating the Protein Significance in the Label-free Quantification; Lei Xin; Baozhen Shan; Bioinformatics Solutions Inc., Waterloo, Canada
- ThP 453 Deep, single shot human cell line protein profiling using DIA and Spectronaut on a Q Exactive HF; Roland Bruderer¹; Yue Xuan²; Oliver Bernhardt¹; Tejas Gandhi¹; Lukas Reiter¹; ¹Biognosys AG, Schlieren, Switzerland; ²ThermoFisherScientific, Bremen, Germany

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- ThP 454 proBAM: Facilitating Genome-Based Sharing,
 Interpretation and Integration of Proteomics Data;
 Xiaojing Wang; Gabriela Codreanu; Robbert Slebos;
 Matthew Chambers; David Tabb; Daniel Liebler; Bing
 Zhang; Vanderbilt University, Nashville, TN
- ThP 455 A Novel Analytical-Informatics Platform Reveals the Hidden Tryptic Peptidome and Improves Multi-omic Applications; Candace R. Guerrero¹; Pratik Jagtap²; James Johnson¹; Getiria Onsongo¹; Trevor Wennblom¹; Jae-Woong Chang¹; Susan K. Van Riper²; Todd Markowski²; Jeongsik Yong¹; Timothy J. Griffin¹; ¹University of Minnesota, Minneapolis, MN; ²Center for Mass Spectrometry and Proteomics, UMN, St.Paul, MN
- ThP 456 Comparative Study of Predicted Highly Expressed Genes with the Proteins Detected from Clostridium thermocellum Grown on Switchgrass; Suresh Poudel^{1, 2}; Richard Giannone¹; Intawat Nookaew¹; David Ussery¹; Robert Hettich¹; ¹Oak Ridge National Laboratory, Oak Ridge, TN; ²University of Tennessee, Knoxville, TN
- ThP 457 Peptide Centric Functional Enrichment for Complex Proteomics Datasets; Vikram Mitra¹; David Britton¹; Vadim Farztdinov¹; Alberto Quaglia²; Yoh Zen³; Claire Russell¹; Malcolm Ward¹; Emma Lahert¹; Ian Pike¹; ¹Proteome Sciences plc, Cobham, UK; ²Institute of Liver Studies,King's College Hospital, London, UK; ³University Graduate School of Medicine, Kobe, JP
- ThP 458 Antibody Identification from a Polyclonal Mixture using Immunoproteogenomics; Stefano Bonissone¹; Yana Safonova².³; Eugene Kurpilyansky².³; Ekaterina Starostina²; Alla Lapidus².³; Wendy Sandoval⁴; Jennie Lill⁴; Pavel Pevzner¹; ¹University of California at San Diego, San Diego, CA; ²St. Petersburg Academic University, St Petersburg , Russia; ³St. Petersburg State University, St. Petersburg, Russia: ⁴Genentech. South San Francisco. CA
- ThP 459 Glioblastoma Multiforme Subtype Classification:
 Integrated Analysis of Protein and Gene Expression
 Data; <u>Durairaj Renu</u>¹; Vadiraja Bhat³; Mona Al-Gizawiy²;
 Carolina B. Livi³; Stephen Madden³; Christine A. Miller³;
 Michael Rosenberg³; Kathleen Schmainda²; Prateek
 Singh¹; Pramila Tata¹; Shama P. Mirza²; ¹Strand Life
 Sciences, Bangalore, India; ²Medical College of Wisconsin,
 Milwaukee, WI; ³Agilent Technologies, Inc., Santa Clara, CA



- ThP 460 Comprehensive Database Search Strategy for Proteogenomics; Harsha P. Gunawardena¹; John Wrobel¹; Jonathon O'Brien¹; Ling Xie¹; Kelly Ruggles²; David Fenyo²; Sherri Davies³; Li Ding³; Reid Townsend³; Matthew Ellis⁴; Bhajat F. Qaqish¹; Xian Chen¹; ¹University of North Carolina at Chapel Hill, Chapel Hill, NC; ²NYU Langone Medical Center, New York, NY; ³Washington University School of Medicine, St. Louis, Missouri; ⁴Baylor College of Medicine, Houston. TX
- ThP 461 Mitochondria-driven Cancer Pathways in Triple Negative Breast Cancer; Jun H. Park¹; Vadiraja B. Bhat²; Santhosh Kumar¹; Sajna A. Vithayathil¹; Nagireddy Putluri¹; Efrosini Tsouko¹; Taraka R. Donti¹; Daniel E. Frigo¹; Chad J. Creighton¹; Michael T. Lewis¹; Arun Sreekumar¹; Lee-Jun Wong¹; Benny A. Kaipparettu¹; ¹Baylor College of Medicine, Houston, TX; ²Agilent Technologies, Wilmington, DE
- ThP 462 Proteomic Analysis Augments Lipidomic and Metabolomic Understanding of Hepatic Changes on High Fat Diets; Devin L. Drew¹; Daniela M. Schlatzer²; Michelle A. Puchowicz²; Mark R. Chance²; David A. Peake¹; Junhua Wang¹; Andreas F. Huhmer¹; ¹Thermo Fisher Scientific, San Jose, CA; ²Case Western Reserve University, Cleveland. OH
- ThP 463 Statistical and Pathway Analysis of Protein Data;

 Stephen Madden¹; Joseph C. Roark¹; Vadiraja Bhat¹;

 Carolina B. Livi¹; Christine A. Miller¹; Mona Al-Gizawiy²;

 Kathleen Schmainda²; Shama P. Mirza²; ¹Agilent

 Technologies, Inc., Santa Clara, CA; ²Medical College of

 Wisconsin, Milwaukee, WI
- ThP 464 Harnessing Public Data Repositories for Metaproteomics; Natalie Castellana; Digital Proteomics, LLC., San Diego, CA
- ThP 465 Multi-Omics Analysis of Estradiol and Propyl Pyrazole Triol Treatment Effects in MCF7 Cells as Part of the Human Toxome Project; Vadiraja B. Bhat²; Carolina B. Livi²; Christine Miller²; Rick A. Fasani²; Michael Rosenberg²; Renxiang Chen³; Henghong Li³; Albert J. Fornace Jr.³; James D. Yager¹; Shelly Odwin-DaCosta¹; Kim Boekelheide⁴; Marguerite M Vantangoli⁴; Melvin E. Andersen⁴; Patrick D McMullen⁴; Salil Pendse⁴; Alex Maertens¹; Thomas Luechtefeld¹; Andre Kleensang¹; Mounir Bouhifd¹; Thomas Hartung¹; ¹Johns Hopkins University, Baltimore, MD; ²Agilent Technologies, Santa Clara, CA; ³Georgetown University, Washington, DC; ⁴Brown University, Providence, RI
- ThP 466 Active Data Canvas: Web-Based Visual Analytic Tool to Link Data to Knowledge; Joon-Yong Lee; Debjit Ray; Vladislav A. Petyuk; Richard D. Smith; Nick Cramer; Samuel H. Payne; Pacific Northwest National Laboratory, Richland, WA
- ThP 467 Combining Ribosome Profiling and Proteomics to
 Discover Micropeptides, Translation Products from
 Small Open Reading Frames; Volodimir Olexiouk; Jeroen
 Crappé; Steven Verbruggen; Wim Van Criekinge; Gerben
 Menschaert; Ghent University, Gent. Belgium
- ThP 468 Automated Classification of Translated Genomic Elements Identified by Proteomics Informed by Transcriptomics; Shyamasree Saha¹; Jun Fan¹; Vanessa Evans²; Gary Barker²; Kate Heesom²; David Matthews²; Conrad Bessant¹; ¹Queen Mary, University of London, London, UK; ²University of Bristol, Bristol, UK

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ThP 469 Prediction of Tertiary Structure of SalBIII Protein using Chemical Cross-Linking and Hydrogen/Deuterium Exchange (HDX) Coupled with Mass Spectrometry; Hugo César Ramos De Jesus¹; Gabriela D. Tormet Gonzalez¹; Tiago S. Balbuena²; Luciana Gonzaga de Oliveira¹; Fabio C Gozzo¹; ¹UNICAMP, Campinas, Brazil; ²UNESP, Jaboticabal, SP

- ThP 470 Mapping Dynamic Interactions of a DNA Repair Enzyme with Its DNA Substrate by Site-Specific proTein-DNA UV Cross-Linking and Mass Spectrometry; Fiona Flett; C. Logan Mackay; Heidrun Interthal; University of Edinburgh, Edinburgh, UK
- ThP 471 Development of Electrochemical Mass Spectrometry for Probing Protein Three Dimensional Structures Using Isotope Labeled Cross-Linkers; Qiuling Zheng; Hao Chen; Ohio University, Athens, OH
- ThP 472 Monitoring of Human Haptoglobin-Hemoglobin Interaction Interface using Chemical Cross Linking and Hydrogen/Deuterium Exchange; Zdenek Kukacka^{1, 2}; Petr Man^{1, 2}; Petr Novak^{1, 2}; Petr Pompach^{1, 2}; *Institute of Microbiology, Prague, Czech Republic; *Faculty of Sciences, Charles University in Prague, Prague, Czech Republic
- ThP 473 Structural MS Analysis of Aldolase using a Dual Crosslinker Approach and the New CID-cleavable Crosslinker, MC4; Lolita Piersimoni; Angela Walker; Hye Kyong Kweon; Hollis D Showalter; Philip C Andrews; University of Michigan, Ann Arbor, MI
- ThP 474 A New Strategy to Identify Cross-linked Peptides With a Diazirine Photoactivatable Cross-linker; Andre De Carvalho Jorge; Alexandre Ferreira Gomes; Fabio C Gozzo; IQ University of Campinas, Campinas, SP
- ThP 475 Chemical Crosslinking Coupled with Mass
 Spectrometry Elucidates Open-to-Closed Protein
 Domain Movement; Yue-He Ding¹; Xu Dong²; Da-Chuan
 Guo²; Chao Liu³; Si-Min He³; Chun Tang²; Meng-Qiu Dong¹;
 ¹National Institute of Biological Sciences, Beijing, Beijing,
 China; ²Wuhan Institute of Physics and Mathematics, CAS,
 Wuhan, China; ³Institute of Computing Technology, CAS,
 Beijing, China
- ThP 476 Quantitative Cross-Linking for Conformational Changes
 Analysis; Luana Oliveira Dos Santos¹; Marcelo Yudi
 Icimoto²; Alyne Marem Silva Barbosa²; Leandro Mantovani
 Castro³; Emer Suavinho Ferro³; Vitor Oliveira²; Fabio C.
 Gozzo¹; ¹University of Campinas, Campinas, SP; ²Federal
 University of São Paulo, São Paulo, SP; ³University of São
 Paulo. São Paulo. SP
- ThP 477 Mapping the Interaction between AGH Peptide and 14-3-3 Epsilon by Cross-Linking/MS and Molecular modelling; Elidiane G Da Silva¹; Leandro M Castro²; Tiago S Balbuena³; Emer S Ferro²; Fabio C Gozzo¹; ¹/Q University of Campinas, Campinas, Brazil; ²University of São Paulo, São Paulo, Brazil; ³UNESP, Jaboticabal, Brazil
- ThP 478 Leiker, an Enrichable Chemical Cross-linker, Markedly Improved Structural Analysis of Large Protein Complexes and Protein-Protein Interactions; Dan Tan¹; Qiang Li¹; Meijun Zhang¹; Chao Liu²; Pan Zhang¹; Yue-He Ding¹; Sheng-Bo Fan²; Li Tao¹; Bing Yang¹; Xiangke Li¹; Junjie Liu³; Xiaohui Liu¹; Hongwei Wang³; Si-Min He²; Ning Gao³; Keqiong Ye¹; Meng-Qiu Dong¹; Xiaoguang Lei¹.⁴; ¹National Institute of Biological Sciences, Beijing, Beijing, China; ²Institute of Computing Technology, CAS, Beijing, China; ³Tsinghua University, Beijing, China; ⁴Peking University, Beijing, China
- ThP 479 Leveraging Surface Modified Peptides for Reactivity Normalization in Chemical Crosslinking-Mass Spectrometry (CXMS) Experiments and Potential for Distance Restraint Prediction; Donna Hogan¹; Yang Tang¹; Timothy Street²; David Agard³; Feixia Chu¹; ¹University of New Hampshire, Durham, NH; ²Brandeis University, Waltham, MA; ³University of California, San Francisco, San Francisco, CA
- ThP 480 Chemical Crosslinking Coupled with Mass
 Spectrometry Enables Characterization of Protein
 Encounter Complexes; Zhou Gong¹; Yue-He Ding²; Da-Chuan Guo¹; Wei-Ping Zhang³; Meng-Qiu Dong²; Chun
 Tang¹; ¹Wuhan Institute of Physics and Mathematics, CAS,
 Wuhan, China; ²National Institute of Biological Sciences,



- Beijing, Beijing, China; ³Zhejiang University School of Medicine, Hangzhou, China
- ThP 481 Structural Study of Thyroid Hormone Receptor Complexes using Chemical Crosslinking Mass Spectrometry; Adriana Pianaro¹; Tábata Renée Doratioto²; Juliana Fattori²; Tiago Santana Balbuena³; Ana Carolina Migliorini Figueira²; Fábio César Gozzo¹; ¹Instituto de Química UNICAMP, Campinas, Brazil; ²Laboratório Nacional de Biociências, CNPEM, Campinas, São Paulo/ Brazil; ³Departamento de Tecnologia, UNESP, Jaboticabal, São Paulo/ Brazil
- ThP 482 Structural Analyses of the Oligomerization Mechanism of Amyloid β Peptides; Ayumi Tanaka¹; Shigeto Iwamoto¹; Takashi Saito²; Hitomi Yamaguchi¹; Sosuke Yoshinaga¹; Yoshihiko Takinami³; Sawyen Ow⁴; Jouji Seta³; Toshiyuki Kohno⁵; Takaomi C. Saido²; Hiroaki Terasawa¹; ¹Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan; ²RIKEN Brain Science Institute, Wako, Saitama, Japan; ³Division of Application, Bruker Daltonics K. K., Yokohama, Japan; ⁴Application, Bruker Sdn. Bhd., Selangor, Malaysia; ⁵Kitasato University School of Medicine, Sagamihara, Japan
- ThP 483 Probing Ebola Viral VP35 Protein Structures by
 Chemical Cross-linking and Mass Spectrometry; C.
 Ken Chanthamontri¹; Hao Zhang¹; David Jordan¹; Gai
 Liu¹; Christopher Basler²; Daisy W. Leung¹; Gaya K.
 Amarasinghe¹; Michael L. Gross¹; ¹Washington University,
 St Louis, MO; ²Icahn School of Medicine at Mount Sinai,
 New York, NY
- ThP 484 Protein Structure Determination in Biological Matrices using 3D Proteomics and Computational Biology; Adam Belsom¹; Michael Schneider²; Lutz Fischer¹; Oliver Brock²; Juri Rappsilber^{1,2}; **Wellcome Trust Centre for Cell Biology, Edinburgh, UK; **2Technische Universität, Berlin, Germany
- ThP 485 Cross-linking Shows that Psb28, an Accessory Protein Factor, Binds to D1 and Cytochrome b559 in the Photosystem II Complex; Daniel A. Weisz; Haijun Liu; Hao Zhang; Himadri Pakrasi; Michael Gross; Washington University in St. Louis, University City, MO
- ThP 486 Topology Analysis of Ragulator Protein Complex by Chemical-Cross Mass Spectrometry; Marcel Nakahira¹; Nadia Rasheed¹; Juliana Smetana¹; David Sabatini³; Tiago Balbuena²; Fabio Gozzo¹; ¹University of Campinas, Campinas, Brazil; ²Universidade Estadual Paulista, Jaboticabal, Brazil; ³Whitehead Institute for Biomedical Research, Cambridge, MA
- ThP 487 Chemical Cross-Linking and Mass Spectrometry to Determine the Interaction Network of Protein Complexes; Nha-Thi Nguyen-Huynh¹; Grigory Sharov²; Clément Potel¹; Pélagie Fichter²; Simon Trowitzsch³; Imre Berger³; Valérie Lamour²; Patrick Schultz²; Noëlle Potier¹; Emmanuelle Leize-Wagner¹; ¹LSMIS UMR 7140 CNRS/ Unistra, Strasbourg, France; ²Integrated Structural Biology Department, IGBMC, Illkirch, France; ³European Molecular Biology Laboratory (EMBL), Grenoble, France
- ThP 488 Novel Crosslinking Chemistry for Protein Interaction
 Profiling and Bioconjugation; Tristan McClure-Begley;
 Brady Worrell; Tao Gong; Christopher Ebmeier; Douglas
 Chapnick; Xuedong Liu; Christopher Bowman; William Old;
 University of Colorado, Boulder, CO
- ThP 489 Protein Cross-linking in Electrospray Droplets; William Mcgee; Michael Cammarata; Victoria Cotham; Jennifer Brodbelt; The University of Texas, Austin, TX
- ThP 490 Crosslinked Peptide Analysis using ETD Fragmentation of Sulfur-containing Crosslinkers for Protein Interaction Mapping; Mark Larance; Angus Lamond; Centre for GRE, University of Dundee, Dundee, UK
- ThP 491 Structure Characterizations and Distributions of Rose Bengal induced DNA-protein Crosslinks between Lysine and 2'-deoxyguanosine by ESI-ITMS; Jiawei Gong; University of Cincinnati, Cincinnati, OH

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- ThP 493 Mapping the Solvent Exposed Lysine Residues of Native Apolipoprotein B-100; Parisa Pirani¹; Ujwal Patil¹; Angela Ellender¹; Casey Grimm²; Yang Cai³; Matthew Tarr¹; ¹University of New Orleans, New Orleans, LA; ²Southern Regional Research Center, New Orleans, LA; ³The Research Institute for Children, New Orleans, New Orleans, LA;
- ThP 494 Cyclization of an Amine-reactive Tag as a Tool to
 Probe Local Chemical Environments of Proteins; Jake
 Rosenberg; Jennifer Brodbelt; The University of Texas,
 Austin. TX
- ThP 495 Fast Photochemical Oxidation of Proteins (FPOP) and Nativespray/ECD Probe the Structural Differences Between Wild-type and Mutant SOD1; Ben Niu¹; Hao Zhang¹; Weidong Cui¹; Jill Zitzewitz²; Sagar Kathuria²; C. Robert Matthews²; Michael L. Gross¹; ¹Washington University, Saint Louis, MO; ²University of Massachusetts Medical School. Worcester. MA
- ThP 496 Fast Photochemical Oxidation of Proteins (FPOP) for Quantitative Residue-level Analysis of Conformational Changes in Amyloid Beta Aggregation; Ke Li; Ying Zhang; Don Rempel; Michael Gross; Washington University, St. Louis, MO.
- ThP 497 Probing the Conformational Change of Cyanobacterial Orange Carotenoid Protein Photoactivation Using FPOP; Junqing Zhang; Washington University in St. Louis, St. Louis, MO
- ThP 498 Epitope Mapping of Human Interleukin 23 Interacting with Antibody by Fast Photochemical Oxidation of Proteins; Jing Li¹; Guodong Chen²; Richard Huang²; Hui Wei²; Adrienne Tymiak²; Michael Gross¹; ¹Washington University in St. Louis, St. Louis, MO; ²Bristol-Myers Squibb, Princeton. NJ
- ThP 499 Development of a Micro-Flow System for Single Cell Protein Footprinting Analysis; Aimee Rinas; Lisa Jones; Indiana University Purdue University Indianapolis, Indianapolis, IN
- ThP 500 Covalent Labeling Techniques for Characterizing Higher Order Structure of Monoclonal Antibodies; Parminder Kaur¹,²; Janna Kiselar¹; Wuxian Shi¹; Sichun Yang¹; Mark Chance¹,²; ¹Case Western Reserve Univ, Cleveland, OH; ²NeoProteomics, Inc., Cleveland, OH
- ThP 501 Finding and Identifying Large and Extensively Modified Peptides in MS Data from Footprinting Experiments;

 Henry W. Rohrs; Manolo Plasencia; Jing Li; Ke Li; Michael Gross; Washington University, St Louis, MO
- ThP 502 Host-pathogen Interactome Response to Type III
 Secretion; Arti Navare; Devin Schweppe; Benjamin
 Staudinger; Pradeep Singh; James Bruce; University of
 Washington, Seattle, WA
- ThP 503 Standardization of Hydroxyl Radical Protein Footprinting Data using a Radical Dosimeter in High Resolution Footprinting of Lysozyme; Boer Xie; Complex Carbohydrate Research Center, UGA, Athens, GA
- ThP 504 CXCL4 dimer-dimer Interface Characterization by High Resolution Hydroxyl Radical Protein Footprinting;

 Zixuan Li¹; Tracy Handel²; Joshua Sharp¹; ¹University of Georgia, Athens, GA; ²University of California San Diego, San Diego, CA
- ThP 505 Ultra-fast Photolytic Protein Labelling under Solid-Phase Conditions; <u>Daniel Ziemianowicz</u>; David Schriemer; University of Calgary, Calgary, Canada



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- ThP 506 Structural and Functional Characterization of Pathogenic GPI-specific Monoclonal Antibodies αGPI1H3 and αGPI46H9; Kwabena Frimpong-Manso Opuni¹; Samuel Solomon²; Yelena Yefremova¹; Cornelia Koy¹; Harald Illges².³; Michael O. Glocker¹; ¹Proteome Center Rostock, Rostock, Germany; ²University of Konstanz, Konstanz, Germany; ³University of Applied Sciences, Bonn, Germany
- ThP 507 Measurement of Cysteine -linked ADCs under Native Conditions using an Orbitrap Mass Analyzer; Jing Li¹; Shujun Yang²; ¹Thermo Fisher Scientific, Shanghai, China; ²NewBio Therapeutics, Inc, Shanghai, China
- ThP 508 Analysis of non-Deglycosylated Antibody-Drug-Conjugates by TripleTOF® High Resolution Quadrupole-Time-Of-Flight Instrument and Effective Reconstruction Software; Milla-Riina Neffling¹; Bruno Genet²; David Bugnazet²; Eric Lacassie²; Justin Blethrow³; Eric Johansen³; ¹SCIEX, Warrington, UK; ²Sanofi-Vitry Biologics SCP/Analytics, Vitry-Sur-Seine, France; ³SCIEX, Red Wood Shores, CA
- ThP 509 Rapid Method for Monitoring Monoclonal Antibody (mAb) Production in Biotechnological Processes using Quantitative MALDI-TOF-MS; Robert Steinhoff¹; Jasmin Krismer¹; Martin Pabst²; Renato Zenobi¹; ¹ETH Zurich, Zurich, Switzerland; ²Polytherics, Cambridge, UK
- ThP 510 Quantitative Analysis of Post Translation Modification of Protein Therapeutics at a Subunit Level by Spectral Deconvolution; Ming Gu¹; Kadir Ilker Sen²; Yongdong Wang¹; Darryl Davis²; 'Cerno Bioscience, Norwalk, CT;

 ²Janssen Pharmaceutical Companies of Johnson & John, Springhouse, PA
- ThP 511 High Sensitivity Native Mass Spectrometry
 Characterization of Antibody Fluorescent Conjugates
 (AFC); Caroline S. Chu¹; Gregory Staples¹; Andy Gieschen²;
 Ning Tang¹; ¹Agilent Technologies, Santa Clara, CA; ²Agilent Technologies, La Jolla, CA
- ThP 512 Combining Top Down and Bottom Up MALDI TOF/
 TOF Data in the de novo Sequencing of Monoclonal
 Antibodies; Andy Mahan¹; Yazen Jmeian²; Darryl Davis¹;

 ¹Johnson and Johnson, Spring House, PA; ²Janssen
 Research & Development, Radnor, PA
- ThP 513 Application of Capillary Electrophoresis Coupled to Quadrupole Time-of-Flight Mass Spectrometry for the Analysis of Immunoconjugates; Suresh Babu CV¹; Anne Basler²; Sina Bunzendahl²; Rainer Kneuer²; ¹Agilent Technologies, Bangalore, India; ²Novartis Institutes for Biomed. Research, Basel, Switzerland
- ThP 514 Enhancing LC/MS Sensitivity and Spectral Quality of Reduced Antibodies and Antibody Drug Conjugates;

 Wei Ding; Difei Qiu; Scott Miller; Bristol-Myers Squibb, New Brunswick, NJ
- ThP 515 Mass Spectrometric Investigation of Maleimide Linker Hydrolysis in Antibody-drug Conjugates; Ling Xu¹;
 Laura Packer¹; Yue Zhang²; Shaoxia Yu¹; Jing-Tao Wu¹;
 Mark Qian¹; ¹Takeda Pharmaceutical International Inc.,
 Cambridge, MA; ²BioAnalytix Inc, Cambridge, MA
- ThP 516 Collision Induced Unfolding of Intact Antibodies,
 Biotherapeutics and Biosimilars: Rapid Characterization
 of Disulfide Bonding Patterns and Structures; Yuwei
 Tian; Linjie Han; Adam Buckner; Brandon Ruotolo;
 Department of Chemistry, University of Michigan, Ann Arbor,
 MI
- ThP 517 Peptide Mapping of Antibody Drug Conjugate using CE-ESI-MS; Suresh Babu Cv; Ravindra Gudihal; Palaniswamy Meenakshi-SundaR M; Nilanjan Guha; Sudha Rajagopalan; Agilent Technologies, Bangalore, India
- ThP 518 Analysis of Herceptin Oxidation Variants Using a

- Supermacro Porous Reverse Phase Column Coupled with an Orbitrap Mass Spectrometer; Shanhua Lin¹; Terry Zhang²; Hongxia (Jessica) Wang²; Jonathan L. Josephs²; Xiaodong Liu¹; ¹Thermo Fisher Scientific, Sunnyvale, CA; ²Thermo Fisher Scientific, San Jose, CA
- ThP 519 Comprehensive Analysis of Intact Antibody Drug
 Conjugates using an Integrated Microfluidic HPLCChip MS Workflows; Caroline S. Chu¹; Andy Gieschen²;
 M Sundaram Palaniswamy³; Ning Tang¹; ¹Agilent
 Technologies, Santa Clara, CA; ²Agilent Technologies, La
 Jolla, CA; ³Agilent Technologies Inc, Bangalore, India
- ThP 520 Drug-to-Antibody Ratio Characterization of Antibody Drug Conjugate by Ion Mobility Mass Spectrometry;
 Richard Huang¹; David Passmore²; Vangipuram Rangan²; Shrikant Deshpande²; Adrienne Tymiak¹; Guodong Chen¹;

 IBristol-Myers Squibb, Princeton, NJ; **Bristol-Myers Squibb, Redwood City, CA
- ThP 521 Conformational Epitope Mapping of Angiopoietin-2 (ANG-2) Specific Monoclonal Antibodies (mAb) by Partial Trypsin Digestion Followed by nanoLC-MRM; Lei Wang¹; Tetsuo Sekino²; Kenji Abe²; Mark Matijevic¹; Jesse Chow¹; Yoshiya Oda¹; ¹Eisai Inc, Andover, MA; ²EIDIA Co., Ltd., Inashiki, Japan
- ThP 522 Overcoming Method-Related Challenges During
 Antibody Drug Conjugate Characterization by LC/MS;
 Jacquelynn Smith¹; Paul Brown¹; Cecily Swabowski¹; Jason
 Rouse²; James Carroll¹; Olga Friese¹; ¹Biotherapeutics
 Pharm. Sci., Pfizer Inc., St. Louis, MO; ²Biotherapeutics
 Pharm. Sci., Pfizer Inc., Andover, MO
- ThP 523 Characterization of Trisulfide Modifications of Recombinant Antibodies by Intact Mass Measurement and Non-Reduced Peptide Mapping; Bianca Grünwalder; Vincent Larraillet; Oliver Popp; Annette N.D. Scharf; Maximiliane Hilger; pRED, Roche Innovation Center, Penzberg, Germany
- ThP 524 An Optimized Approach for the Sensitive Detection of Sequence Variants in Biotherapeutic Proteins; Paul W.

 Brown¹; James Carroll¹; Jason Rouse²; ¹Pfizer, St. Louis,

 MO: ²Pfizer, Andover, MA
- ThP 525 Strategy for the Quantification of a Paclitaxel conjugated ADC (DAR ≥ 1) in Rat Plasma by LC-HRMS;

 <u>Jean-Nicholas Mess;</u> Fabio Garofolo; *Algorithme Pharma Inc., Laval, Canada*
- ThP 526 Separation and Characterization of Intact mAb
 Conjugate Charge Variants via Microfluidic CE-ESI with
 Online MS Analysis; Erin A. Redman¹; J. Scott Mellors²; J.
 Michael Ramsey¹; ¹University of North Carolina at Chapel
 Hill, Chapel Hill, NC; ²908 Devices Inc., Boston, MA
- ThP 527 Quantitation of Cytotoxic Free Drug Released From an ADC into Conditioned Cell Culture Media; Maria Christina Malinao; Josh Snyder; Julien Dugal-Tessier; Christopher Kemball; Min Wu; Brian Mendelsohn; Agensys, Inc., Santa Monica, CA
- ThP 528 Analysis of Therapeutic Proteins Using Hydrophobic Interaction / Reversed-phase 2D-LC/MS with Multiple Heart-cutting; Gregory Staples; Hongfeng Yin; Kevin Killeen; Agilent Technologies, Santa Clara, CA
- ThP 529 Use of Signature Ions with Accurate Mass and Collision Induced Dissociation to Unambiguously Assign Toxin Locations for Antibody Drug Conjugates; Michael Bacica¹; Aaron Wrobleski²; Jon Fitchett¹; Bryan Jones¹; ¹Lilly Biotech Center-San Diego, San Diego, CA; ²LRL DCRT, Indianapolis, IN
- ThP 530 A Comprehensive Quantitative Study of Monoclonal Antibody (mAb) by Q-TOF/MS and Ion Mobility Q-TOF/MS; Ning Tang; David L Wong; Agilent Technologies, Santa Clara, CA



- ThP 531 Rapid Detection of Deamidation in Monoclonal Antibodies using Ultrahigh-Resolution QTOF Mass Spectrometry; Wolfgang Jabs¹; Waltraud Evers¹; Anja Wiechmann¹; Jason Wood²; Guillaume Tremintin³; Detlev Suckau¹; Keith Johnson⁴; Heather DeGruttola⁴; Lisa Marzilli⁴; Jason Rouse⁴; ¹Bruker Daltonik GmbH, Bremen, Germany; ²Bruker Daltonics Inc, Billerica, MA; ³Bruker Daltonics Inc, Fremont, CA; ⁴Pfizer Inc, Andover, MA
- ThP 532 Upstream Quality Control of Therapeutic Antibodies using Automated IdeS Digestion and Subunit Separation in Combination with Ultrahigh-Resolution QTOF Analysis; Martin Hedström¹; Fredrik Olsson²; Dag Erlandsson¹; Anja Wiechmann³; Catherine Evans⁴; Guillaume Tremintin¹s; Jason Wood⁶; Detlev Suckau³; Wolfgang Jabs³; ¹CapSenze HB, Lund, Sweden; ²Genovis AB, Lund, Sweden; ³Bruker Daltonik GmbH, Bremen, Germany; ⁴Bruker Daltonics Ltd, Coventry, UK; ⁵Bruker Daltonics Inc, Fremont, CA; ⁶Bruker Daltonics Inc, Billerica, MA

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- ThP 533 Broad Spectrum Lysine Acylation Profiling to Investigate Regulation of SIRT5 using Four Different Acyl-Lysine PTM Antibodies; Hongbo Gu¹; Rami Najjar¹; Justin Mason¹; Jian Min Ren¹; Matthew Hirschey²; Jeffrey Silva¹; ¹Cell Signaling Technology, Danvers, MA; ²Sarah W. Stedman Nutrition and Metabolism Center. Durham. NC
- ThP 534 Comprehensive Profiling of Protein Lysine Acetylation in Human Esophageal Carcinoma Cell SHEEC; Kai
 Zhang¹; Shanshan Tian¹; Guijin Zhai¹; Zhenchang Guo¹;
 Zhongyi Cheng²; ¹Tianjin Medical University, Tianjin, China;
 ²PTM Biolabs, Inc, Hangzhou, China
- ThP 535 MS-based Quantitative Proteomics using SILAC Mouse Reveals the Rhythmicity of the Circadian PTMome in the Liver; Loïc Dayon¹; Daniel Mauvoisin²; Antonio Núñez Galindo¹; Jingkui Wang³; Fèlix Naef³; Martin Kussmann¹; Fréderic Gachon²; ¹NIHS, Molecular Biomarkers, Lausanne, CH; ²NIHS, Circadian Rhythm Group, Lausanne, CH; ³Institute of Bioengineering, EPFL, Lausanne, CH
- ThP 536 Proteoform Dynamics in the CNS: 3D Spatial Mapping of Myelin Basic Protein by Top Down; <u>Daniel Plymire</u>; John Corbett; Steven Patrie; *University of Texas Southwestern Medical Center, Dallas, TX*
- ThP 537 Identification of Liver Proteins Targeted by Reactive Metabolites using LC-MS/MS; Makan Golizeh; André Leblanc; Lekha Sleno; UQAM, Montreal, Canada
- ThP 538 High Sensitivity LC-MS and LC-MS/MS Peptide Mapping Method for Characterization of Post-Translational Modifications in Therapeutic Antibodies; Jason X. Tang; Yuping Zhou; Eli Lilly & Company, Indianapolis, IN
- ThP 539 Novel Activity Based Protein Profiling Probe Identifies Putative Denitrase in Microglia; Harris Bell-Temin^{1, 2}; Jennifer Guergues¹; Annie Carpenter¹; Christina Carlson¹; Stanley M. Stevens Jr. ¹; ¹University of South Florida, Tampa, FL; ²University of Pittsburgh, Pittsburgh, PA
- ThP 540 Systematic Identification of the Lysine Acetylation in Rice (*Oryza sativa*); Yehui Xiong²; Zhongyi Cheng¹; Wende Liu²; Guo-Liang Wang³; ¹PTM Biolabs, Inc, Hangzhou, China; ²Institute of Plant Protection, Chinese Academy of, Beijing, CN; ³Ohio State University, Columbus, OH
- ThP 541 A Chemical Proteomics Approach for Global Analysis of Lysine Mono-Methylation; Zhixiang Wu¹; Zhongyi Cheng²; Mingwei Sun¹; Xuelian Wan¹; Ping Liu¹; Tieming He²; Minjia Tan¹; Yingming Zhao¹.³; ¹Shanghai Institute of Materia Medica, Shanghai, China; ²PTM BioLab (Hangzhou) Co. Ltd, Hangzhou, China; ³Ben May Department of Cancer Research, The University of Chicago, Chicago, IL
- ThP 542 N-terminome Analysis of the Human Mitochondrial Proteome; Alvaro Sebastian Vaca Jacome¹; Thierry

- Rabilloud²; Christine Schaeffer-Reiss¹; Magali Rompais¹; Daniel Ayoub¹; Lydie Lane^{3, 4}; Amos Bairoch^{3, 4}; Alain Van Dorsselaer¹; Christine Carapito¹; ¹IPHC, UdS, CNRS, UMR 7178, Strasbourg, France; ²Laboratoire de Chimie et Biologie des Métaux (CEA), Grenoble, France; ³CALIPHO Group Swiss Institute of Bioinformatics, Geneva, Switzerland: ⁴Faculty of medicine. Geneva. Switzerland
- ThP 543 Identification of Sites of Ubiquitination and Sumoylation on Proteins Involved in the Maintenance of Genome Integrity; Matthew Schellenberg; Katina Johnson; Andrea Adams; R. Scott Williams; Jason Williams; NIEHS, Rtp, NC
- ThP 544 Identifying Aberrant PTMs of Mutated Tumor Suppressor p53 by Advanced Mass Spectrometry for Unraveling Upstream Signaling for Inactivation of p53; Houjiang Zhou¹; Kehan Song²; Frank McCaughan¹; Trevor Littlewood¹; Kathryn Lilley¹; Gerard Evan¹; ¹Department of Biochemistry, University of Cambridg, Cambridge, UK; 2 School of Basic Medical, Fudan University, Shanghai, China
- ThP 545 The Effect of Histone Modifications on Peptide Ionization by ESI, and Fragmentation by ECD and CAD;

 Barbara Storch; Kathrin Breuker; University of Innsbruck, Innsbruck, Austria
- ThP 546 Global Profiling of Protein Lysine Malonylation in Escherichia coli; Litong Nie¹; Jun Zhu²; Lili Qian¹; Yingming Zhao¹,³; Zhongyi Cheng²; Minjia Tan¹; ¹Shanghai Institute of Materia Medica, Shanghai, China; ²PTM Biolab (Hangzhou) Co. Ltd, Hangzhou, China; ³Ben May Department for Cancer Research, the University of Chicago, Chicago, IL
- ThP 547 Metabolite-Driven Protein Modification: Lysine
 Acylations in Syntrophic Bacteria Elucidate Substrate
 Metabolism; Hong Hanh Nguyen¹; Phuong Nguyen¹;
 Robert Gunsalus¹; Michael McInerney²; Joseph Loo¹;
 Rachel Ogorzalek Loo¹; ¹University of California, Los
 Angeles, Los Angeles, CA; ²University of Oklahomna,
 Norman. OK
- ThP 548 Identification and Characterizations of Posttranslational Modifications of RNF168, a Protein Involved in DNA Damage Response; Zi Wang; Yinsheng Wang; University of California, Riverside, Riverside, CA
- ThP 549 Post-Translational Modification by the Type III Effector HopZ3 Modulates Tomato Host Immunity by Acetylation of Bacterial and Plant Proteins; Andrew Manning; Jiyoung Lee; Don Wolfgeher; Stephen Kron; Jean Greenberg; University of Chicago, Chicago, IL
- ThP 550 Site-Specific Reactivity of Nonenzymatic Lysine
 Acetylation; Josue Baeza; Michael Smallegan; John Denu;
 University of Wisconsin-Madison, Madison, WI
- ThP 551 Identification of Specific Protein-Protein Interactions via Detecting Post-Translational Modifications; I-Hsuan Chen; Meng-Chieh Chen; Chang-Deng Hu; Weiguo Andy Tao; Purdue University, West Lafayette, IN
- ThP 552 Mass Spectrometric Analysis to Determine Oxidative Modification and Related Activity Changes of Human Phosphohistidine Phosphatase 1; Daniel Martin; Sameer Varma; Stanley M. Stevens, Jr; University of South Florida, Tampa. FL
- ThP 553 Bacterial Protein Acetylation in Response to Carbon Overflow: Quantifying Changes in Acetylation Status of Escherichia coli Metabolic Networks by Label-Free Proteomics; Birgit Schilling¹; David Christensen²; Dylan J. Sorensen¹; Alexandria K. Sahu¹; Robert Davis²; Linda I. Hu³; Arti Walker-Peddakotla²; Bozena Zemaitatis²; Alan J. Wolfe²; Bradford W. Gibson¹; ¹Buck Institute for Research on Aging, Novato, CA; ²Loyola University Chicago, Maywood, IL; ³University of Wisconsin, Madison, WI
- ThP 554 Validation of Novel Plasmodium falciparum
 Histone Modifications using Linear Ion-Trap Mass
 Spectrometers; Anita Saraf¹; Serena Cervantes²; Zhihui



- Wen¹; Michael Washburn¹; Karine G LeRoch²; Laurens Florens¹; ¹Stowers Institute for Medical Research, Kansas City, MO; ²University of California Riverside, Riverside, CA
- ThP 555 Addressing dynamic range limitations in the multiplex approach to identifying regulatory glutathione modifications of protein cysteines in mouse heart;

 Jessica B Behring¹; Chunxiang Yao¹; Xiaoyan Yin²; Di Shao¹; Yosuke Watanabe¹; Stephen A Whelan¹; Xiang Ray Weng¹; Wilson S Colucci¹; Catherine E Costello¹; Richard A Cohen¹; Reiko Matsui¹; Mark E Mccomb¹; Markus M Bachschmid¹; ¹Boston University School of Medicine, Boston, Ma; ²BUMC & NHLBI Framingham Heart Study, Framingham, MA
- ThP 556 Effect of Exposure to Diacetyl in Mice: A Proteomic and Metabolomic Approach; Leticia Dias Lima Jedlicka; Aleksandro Martins Balbino; Giuseppe Bruno Neto; Richardt Gama Landgraf; Liliam Fernandes; Alexandre Keiji Tashima; Nilson Antonio Assunção; UNIFESP, São Paulo, Brasil
- ThP 557 A Mass Spectrometry Cleavable Approach for the Identification and Differentiation of Farnesylated/
 Geranylgeranylated Peptides; Ruchika Bhawal;
 Shahinuzzaman A.d.a; Saiful Chowdhury; University of Texas at Arlington, Arlington, TX
- ThP 558 Localization and Quantification of Gamma-Carboxyglutamic Acid Residues in Proteins by

 Deuterium Exchange Decarboxylation (DEXDEC); Jonas

 Borch¹; Morten Rasmussen¹; Thomas Nylandsted Krogh²;

 ¹University of Southern Denmark, Odense M, Denmark;

 ²Novo Nordisk A/S, Måløv, Denmark
- ThP 559 Uncovering Novel Redox Regulated Cysteines in the Mitochondrial Proteome Governed by Distinct Sites of Reactive Oxygen Species Production; Casey Quinlan¹; Matthew Egan²; Shin-Cheng Tzeng²; Bradford Gibson³; Martin Brand³; Jason Held²; ¹Oncology Research Unit, Pfizer Inc, La Jolla, CA; ²Washington University Medical School, Saint Louis, MO; ³Buck Institute for Research on Aging, Novato, CA
- ThP 560 Cracking Histone H4's PTM Code by Middle-Down FT-ICR MS/MS analysis; Tingting Jiang^{1,2}; Alan A. Shomo^{1,2}; Nathan K. Kaiser²; Christopher L. Hendrickson²; Alan G. Marshall^{1,2}; Nicolas L. Young²; **IFlorida State University, Tallahassee, FL; **National High Magnetic Field Laboratory, Tallahassee, FL
- ThP 561 LC-MS/MS Analysis of S-Palmitoyl Proteins from Biological Samples Reveals Potential Limitations of the Metabolic Labeling Approach; Yuhuan Ji; Minjing Liu; Markus M. Bachschmid; Catherine E. Costello; Cheng Lin; Boston University School of Medicine, Boston, MA
- ThP 562 Site-Specific Identification of Ethanol-Induced Histone Protein Nitration Using Mass Spectrometry; Crystina
 L. Kriss; Ashley Culver-Cochran; Dale Chaput; Stanley M. Stevens, Jr; University of South Florida, Tampa, FL
- ThP 563 Mass Spectrometric Fragmentation Studies on Peptides Containing Chemically Modified Arginine Residues;

 Maheshika Wanigasekara; Ruchika Bhawal; Saiful Chowdhury; University of Texas at Arlington, Arlington, TX
- ThP 564 Analysis of Chlorination, Bromination, Nitration,
 Nitrosylation, and Oxidation in Hemoglobin of Diabetes
 Mellitus Patients by Nanoflow LC-NSI/MS/MS; Ya-Fen
 Yang¹; Pin-Fan Chen²; Hauh-Jyun Candy Chen¹; 'National
 Chung Cheng Univ., Ming-Hsiung, Chia-Yi, Taiwan;

 2Buddhist Dalin Tzu Chi General Hospital, Dalin, Chia-Yi,
 Taiwan

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ThP 565 Molecular Mechanisms of Regulatory T Cell (Treg)-Mediated Rapid Suppression in Human Conventional T Cell Signalling Monitored by Phosphoproteomics;

- Nadine A. Binai¹; Rubin N. Joshi²; Francesco Marabita²; Jesper Tegnér²; Angelika Schmidt²; Albert J.R. Heck¹; ¹Utrecht University, Utrecht, Netherlands; ²Karolinska Institute, Solna, Sweden
- ThP 566 Global-scale Analysis of Protein Nucleocytoplasmic
 Trafficking in Rat Hepatocytes after Ethanol Exposure;
 Shikha Mahajan; Crystina L. Kriss; Stanley M. Stevens, Jr;
 University of South Florida, Tampa, FL
- ThP 567 Comparison and Validation of iTRAQ, emPAI, and Intensity-Based, Label-Free Quantification for Expression Proteomics using an Ultrahigh-Resolution QqTOF; Adam Dowle¹; Julie Wilson²; Stephanie Kaspar³; Rachel Bates¹; David Ashford¹; Jerry Thomas¹; ¹Technology Facility, Dept. Biology, Univ. of York, York, UK; ²Depts. Mathematics and Chemistry, Univ. of York, York, UK; ³Bruker Daltonik GmbH, Bremen, Germany
- ThP 568 Quantitative Proteomic Analysis of Proteins on Cerebral Ischemia Injury Mice by Deuterium Isobaric Amine Reactive Tagging (DiART) Mass Spectrometry; Hailong Song^{1, 3}; Hui Zhou^{1, 3}; Zhe Qu^{1, 3}; Dennis Y Chuang^{1, 2}; Jiankun Cui^{1, 3}; Agnes Simonyi^{1, 2}; Shanyan Chen^{1, 3}; Jilong Li^{3, 5}; Jianlin Cheng^{3, 5}; Michael Greenlief^{3, 6}; Shuiwei Li⁷; Dennis B Lubahn^{3, 4}; Grace Y Sun^{2, 3}; Zezong Gu^{1, 3}; ¹Department of Pathology & Anatomical Sciences, Columbia, MO; ²Department of Biochemistry, Columbia, MO; ⁴Center for Translational Neuroscience, Columbia, MO; ⁵Computer Science Informatics Institute, Columbia, MO; ⁶Department of Chemistry, Columbia, MO; ⁷Department of Chemistry, Columbia, MO; ⁷Department of Chemistry, Maryland, MD
- ThP 569 Quantitative Multiplexed Proteomic and Phosphoproteomic Profiling Reveals Nicotine and α-bungarotoxin-induced Alterations in Pancreatic Stellate Cells; Joao Paulo; Aleksandr Gaun; Steven Gygi; Harvard Medical School, Boston, MA
- ThP 570 Statistical Assessment of HCD-MS2, Single- and Multinotch MS3 Methods for Improved Quantitation Accuracy of Mulberry Proteome under Salt/Drought Stress; Yong Yang¹; Yan Liu²; Elizabeth Anderson³; Robert Sherwood³; Theodore Thannhauser¹; Sheng Zhang³; ¹Holley Center for Agriculture & Health, USDA/ARS, Ithaca, NY; ²Zhejiang Academic of Agricultural Science, Hangzhou, P.R. of China; ³Proteomics & Mass Spec Core, Cornell University, Ithaca,
- ThP 571 Altered HDL Proteomics in Patients with NASH: ²H Metabolic Labeling and Quantitative Proteomics Approach; Ling Li¹; Jaividhya Dasarathy²; Srinivasan Dasarathy¹; Jonathan Smith¹; Arthur McCullough¹; Belinda Willard¹; Takhar Kasumov¹; ¹Cleveland Clinic, Cleveland, OH; ²MetroHealth Medical Center, Cleveland, OH
- ThP 572 Early Detection of the Mechanism of Action for Toxins by High-throughput Proteomics; Ziad Sahab; Camille Lombard; Lida Parvin; Peter Nemes; Akos Vertes; George Washington University, Washington, DC
- ThP 573 A Proteomic Investigation of the miR-23a/27a/24-2
 Cluster; Katelyn R. Ludwig¹; Kerry M. Scott¹; Richard Dahl²;
 Amanda B. Hummon¹; ¹University of Notre Dame, Notre
 Dame, IN; ²Indiana University School of Medicine, South
 Bend, IN
- ThP 574 Site-specific Identification of Lys Acetylation Stoichiometry in Mammalian Cells; Tong Zhou; Ying-hua Chung; Yue Chen; University of Minnesota at Twin Cities, Minneapolis, MN
- ThP 575 Quantitative Proteomics and Glycoproteomics of Membrane-Enriched Proteins from Normal and Tumour-Promoting Human Mesenchymal Stromal/Stem Cells for Candidate Biomarkers of Sarcoma; Jessie R. Lavoie¹; Jeremy P. Kunkel¹; Julian Saba²; Rosa Viner²; Tara Schroeder³; Carole Westwood¹; Gauri Muradia¹; Rafael



- Diaz de la Guardia⁴; Rene Rodriguez⁵; Pablo Menendez⁴.
 ⁶; Michael Rosu-Myles^{1,7}; ¹Health Canada, Ottawa, ON; ²Thermo Fisher Scientific, San Jose, CA; ³Thermo Fisher Scientific, Somerset, NJ; ⁴Universidad de Barcelona, Barcelona, Spain; ⁵IUOPA, Oviedo, Spain; ⁶ICREA, Barcelona, Spain; ⁷University of Ottawa, Ottawa, ON
- ThP 576 Characterization of Chronological Aging by iTRAQ-Based Quantitative Proteomics in Saccharomyces cerevisiae; Aline A Brasil; Fabio CS Nogueira; Gilberto B Domont; Marcos D Pereira; Univ Federal Do Rio De Janeiro, Rio De Janeiro, Brazil
- ThP 577 Quantitative Phosphoproteomics Identifies a Role for PP6c in the Regulation of Chromosome Condensation;

 Scott Rusin^{1,2}; Kate Schlosser³; Arminja Kettenbach^{1,2};

 ¹Department of Biochemistry, Hanover, NH; ²Geisel School of Medicine at Dartmouth, Hanover, NH; ³Norris Cotton Cancer Center, Lebanon, NH
- ThP 578 Novel Insights into Yeast Biology Revealed by Protein Expression Profiling of Multiple Knockout Strains;

 Marta Isasa; Christopher M Rose; Suzanne Elsasser;

 Daniel J Finley; Steven P Gygi; Harvard Medical School, Boston, MA
- ThP 579 Lysine Malonylation Plays an Important Role in Mitochondrial Function and Fatty Acid Oxidation; Gozde Colak¹; Olga Pougovkina²; Lunzhi Dai¹; Minjia Tan³; Heleen te Brinke²; He Huang¹; Zhongyi Cheng⁴; Jeongsoon Park⁵; Xuelian Wan³; Xiaojing Liu⁶; Wyatt W. Yue⁷; Ronald J. A. Wanders²; Jason W. Locasale⁶; David B. Lombard⁵; Vincent C. J. de Boer²; Yingming Zhao¹; ¹The University of Chicago, Chicago, IL; ²University of Amsterdam, Amsterdam, The Netherlands; ³Shanghai Institute of Materia Medica, Shanghai, P. R. China; ⁴Jingjie PTM Biolabs, Hangzhou, P. R. China; ⁵University of Michigan, Ann Arbor, MI; ⁶Cornell University, Ithaca, NY; ¬University of Oxford, Oxford, UK
- ThP 580 Differential Protein Expression in Macrophages from Patients with HIV Associated Neurocognitive Disorders; Juliana Perez Laspiur¹; Frances M. Acevedo²; Israel Mendez²; Marines Plaud¹; Yolanda Rodriguez¹; David Black³; Richard Skolasky⁴; Valerie Wojna⁵; Loyda Melendez¹; ¹RCMI Translational Proteomics Center, University of Puerto Rico Medical Sciences Campus, San Juan, Puerto Rico; ²University of Puerto Rico, Rio Piedras Campus, Rio Piedras, PR; ³Protein Biomarker Core, University of Texas, San Antonio, TX; ⁴Johns Hopkins, Department of Orthopedic Surgery, Baltimore, MD; ⁵University of Puerto Rico Medical Sciences Campus, San Juan, PR
- ThP 581 Study of Epithelial-Mesenchymal Transitionassociated Phenotype in Ovarian Cancer by Functional Quantitative Proteomics; <u>Alfonsina D'Amato</u>¹; lan Jacobs¹.²; Robert L J Graham¹; ¹University of Manchester, Manchester, UK; ²University of New South Wales, Sidney, Australia
- ThP 582 Elucidating the Gravitome: Statistical Approaches to Improve Quantitative Proteome Profiling; Ryan Leib¹; Ravikumar Hosamani²; Allis Chien¹; Sharmila Bhattacharya²; Christopher Adams¹; ¹Stanford University, Stanford, CA; ²NASA Ames Research Center, Moffett Field, CA
- ThP 583 Orthogonal Isotopic Labeling (OIL) as a Means to Expand Quantitative Proteomic Analysis; Gogce Crynen;
 Jon Reed; Zuchra Zakirova; Prashanthi Vallabhaneni; Rosa Joy; James Evans; Laila Abdullah; Ghania Ait-Ghezala;
 Fiona Crawford: Roskamp Institute. Sarasota. FL
- ThP 584 Quantitative Proteomic Study of the Action of Ruxolitinib, a Potent JAK Inhibitor; Alfonsina D'amato¹; J.P. Lally²; C.R. Rinaldi².³; Robert L. J. Graham¹; Ciaren Graham²; ¹University of Manchester, Manchester, UK; ²School of Life Sciences, University of Lincoln, UK, Lincoln, UK; ³United Lincolnshire Hospitals NHS Trust, Lincoln, UK

- ThP 585 Differential Proteomics Profiling of CHO-DG44 against CHO-K1; Yee Jiun KoK; Daniel Ng; Swan Li Poh; Lu Zheng; Say Kong Ng; Xuezhi Bi; Bioprocessing technology Institute, Singapore, Singapore
- ThP 586 Sequential Elution Interactome Analysis of Mind Bomb
 1 Reveals a Novel Role in Dendritic Spine Outgrowth;

 Joseph Mertz; Haiyan Tan; Vishwajeeth Pagala; Bing Bai;
 Ping-Chung Chen; Yuxin Li; Ji-Hoon Cho; Xusheng Wang;
 Junmin Peng; St. Jude Children's Reseach Hospital,
 Memphis. TN
- ThP 587 Selective Identification of Newly Synthesized Proteins in the S Phase of the Cell Cycle and Measurement of Their Half-life; Weixuan Chen; Johanna Smeekens; Haopeng Xiao; Ronghu Wu; Georgia Institute of Technology, Atlanta, GA
- ThP 588 TMT 10-plex Quantitation by Travelling Wave IMS-QTof Mass Spectrometry; Dominic Helm²; Chris Hughes¹; Jason L Wildgoose¹; Keith Richardson¹; Nick Tomczyk¹; James I Langridge¹; Johannes PC Vissers¹; Bernhard Kuster²; ¹Waters Corporation, Manchester, UK; ²Technische Universität München, Freising, Germany
- ThP 589 Quantitative Profiling the Alum Adjuvant-Induced Host Cell Immune Response; Sietske Kooijman¹; Jolanda Brummelman²; Fabio Marino³; Geert Mommen¹; Bernard Metz¹; Gideon Kersten¹; Albert Heck³; Hugo Meiring¹; ¹Intravacc, Bilthoven, The Netherlands; ²Natl Inst Public Health and Environment, Bilthoven, The Netherlands; ³Utrecht University, Utrecht, The Netherlands
- ThP 590 Isobaric Mass Tagging Quantitation using Q Exactive instruments Approach and Expectation; Tabiwang N. Arrey¹; Xiaoyue Jiang²; Eugen Damoc¹; Rosa Viner²; Yue Xuan¹; Martin Zeller¹; Michaela Scigelova¹; Thomas Moehring¹; Markus Kellmann¹; †Thermo Fisher Scientific, Bremen, Germany; †Thermo Fisher Scientific, San Jose, CA
- ThP 591 Proteomic Profiling of S-Glutathionylation Reveals
 Broad Redox Regulation in Response to Nanoparticleinduced Oxidative Stress in Macrophages; Jicheng
 Duan; Vamsi K. Kodali; Matthew J. Gaffrey; Jia Guo;
 Rosalie K. Chu; David G. Camp; Richard D. Smith; Brian D.
 Thrall; Weijun Qian; Pacific Northwest National Laboratory,
 Richland. WA
- ThP 592 **Proteomic Profiling of Meiosis Initiation in Mouse Testis**; Binbin Shao; Yueshuai Guo; Lei Wang; Quan Zhou;
 Tingting Gao; Bo Zheng; Haoyu Zheng; Tao Zhou; Zuomin
 Zhou; <u>Xuejiang Guo</u>; Xiaoyan Huang; Jiahao Sha; *Nanjing Medical University, Nanjing, China*

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- ThP 593 Selective Detection of CDR Peptides of Monoclonal Antibodies for LCMS-based Therapeutic Drug Monitoring by nano-Surface and Molecular-Orientation Limited (nSMOL) Proteolysis; Noriko Iwamoto¹; Takashi Shimada¹; Akinobu Hamada²; ¹Life Sci., SHIMADZU Corporation, Tokyo, JPN; ²Clin. Pharm., National Cancer Center, Tokyo, JPN
- ThP 594 Development of LC-TQ-MS Based Quantitative Condition of CDR Peptides in Antibody Drugs by nSMOL Protocol; Noriko Iwamoto¹; Takashi Shimada¹; Akinobu Hamada²; ¹Life Sci., SHIMADZU Corporation, Tokyo, Japan; ²Clin. Pharm., National Cancer Center, Tokyo, Japan
- ThP 595 Sample Extraction Methods Comparison for Multipeptide Quantification of a PEGylated Protein by LC-MS following Rat Whole Blood Timecourse Kinetic; Jonathan R. St-Germain; Jean-Nicholas Mess; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada



- ThP 596 Enhanced Detection of Host-Cell Proteins in Biotherapeutic Preparations using Preparative Electrophoresis followed by LC Ion Mobility MS; Chris Boles¹; Brad J. Williams²; Bryan Spencer¹; Danny Yun¹; Sadaf Hoda¹; ¹Sage Science, Inc., Beverly, MA; ²Waters Corporation, Beverly, MA
- ThP 597 Targeted MRM-LC/MS Quantification of Low-Abundance Interleukin-6 in Serum Without Affinity Enrichment;

 Liangqiao Bian¹; Maciej Kukula¹; Joe Barrera²; Kevin Schug³; ¹SCAAC, University of Texas at Arlington, arlington, tx; ²SIRT, University of Texas at Arlington, arlington, tx; ³Department of Chemistry and Biochemistry, UTA, Arlington, tx
- ThP 598 Robust Peptide Mapping for Lot Release of Therapeutic Proteins Using an Advanced LC-UV-MS Approach; Janet Lau; Siyuan (Serah) Liu; Yue (Emma) Zhang; Lily Li; Shiaw-Lin (Billy) Wu: Bioanalytix, Cambridge, MA
- ThP 599 Ultra-sensitive Host Cell Protein Quantification using CESI-SWATH Acquisition MS; Edna Betgovargez; Bryan Fonslow; Eric Johansen; AB SCIEX, Brea, CA
- ThP 600 High-Throughput Clone Selection with LCMS/MS
 Peptide Mapping and Automated Data Analysis; Matthew
 Traylor; Lieh Low; Anna Tchoudakova; Ferenc Boldog;
 Bruce Tangarone; Shire, Lexington, MA
- ThP 601 Adding Cost Effective Mass Detection as an Orthogonal Technique for Improved Productivity and Confidence in the Analysis of Protein Biotherapeutics; Robert Birdsall; Sean McCarthy; Joe Fredette; Scott Berger; Weibin Chen; Waters Corporation, Milford, MA
- ThP 602 Development of an Instant Glycan Labeling Dye for High
 Throughput Analysis by Mass Spectrometry; Michael
 Kimzey; Samnang Tep; Zoltan Szabo; Aled Jones; Justin
 Hyche; Ted Haxo; ProZyme, Hayward, CA
- ThP 603 Differential Protein Precipitation of Therapeutic Monoclonal Antibody from Serum Albumin and Its Application for Antibody Bioanalysis by LC-MS/MS; Hongyan Li; Linh Tran; Christopher James; Amgen Inc, Thousand Oaks, CA
- ThP 604 Highly Sensitive LC-MS/MS Quantitation of Insulin
 Aspart in Human Plasma: Comparison of Intact and
 Enzymatic Digestion Approach; Hui Hong; Chao Bian; Yi
 Tao; Xiaohang Shen; Wenzhong Liang; Xin Zhang; WuXi
 AppTec (Shanghai) Co. Ltd., Shanghai, China
- ThP 605 Rapid Protein Digestion with Thermostable Chemically Modified Trypsin for Mass Spec-Based Protein Characterization and PK Studies; Sergei Saveliev; Mark Bratz; Mike Rosenblatt; Nidhi Nath; Marjeta Urh; Promega Corporation, Madison, WI
- ThP 606 Development of Simplified Quantitative Method for Tryptic Digested C-reactive Protein by using Online SPE Coupled to Triple Quadrupole Mass Spectrometer; Tairo Ogura; Toshiya Matsubara; Ichiro Hirano; Shimadzu Corporation, Kyoto, Japan
- ThP 607 Identification and Quantification of Host Cell Protein Impurities in High-Purity Monoclonal Antibodies Down to 1 ppm: An Inter-Laboratory Study; Catalin Doneanu¹; Malcolm Anderson³; Brad Williams²; Matthew Lauber¹; Asish Chakraborty¹; Markus Wanninger¹; Patricia Young¹; Weibin Chen¹; ¹Waters Corporation, Milford, MA; ²Waters Corporation, Beverly, MA; ³Waters Corporation, Manchester, UK
- ThP 608 Development of a Targeted LC-MS/MS Assay for the Quantitation of Varicella Zoster Virus Vaccine Proteins; Kristin Geddes; Colleen Price; Jianfang Hu; Eberhard Durr; Nwanyinma Nnodum; Jack Palmer; Jessica Sinacola; Kevin Bateman; Van Hoang; Daniel Spellman; Merck and Co, Inc, West Point, PA

- ThP 609 A Novel Antibody-Free, Dual-Mechanism Enrichment Method for High-Throughput and Ultra-Sensitive Quantification of mAb; Bo An; Ming Zhang; Yang Qu; Jun Qu; SUNY at Buffalo, Buffalo, NY
- ThP 610 A Robust and Automated Generic Sample Extraction Method for Quantifying Antibody Therapeutics in Biological Matrices; Suma Ramagiri¹; Mike Rosenblatt²; Ian Moore¹; Nidhi Nath²; Kevin Cook²; Gary Impey¹; ¹SCIEX, Concord, Canada; ²Promega Corporation, Madison, WI
- ThP 611 Development of a Rapid and Robust LC-MS Assay for Host Cell Proteins; Thomas Slaney¹; Wei Wu¹; Li Tao²; Lu Wang¹; ¹Bristol-Myers Squibb, Bloomsbury, NJ; ²Bristol-Myers Squibb, Hopewell, NJ
- ThP 612 Validation of the Quantification of a Major Grass Pollen Allergen by Mass Spectrometry; Emmanuel Nony;
 Christel Dayang; Matthieu Rouet; Sandrine Riandé; Maxime Le Mignon; Thierry Batard; Philippe Moingeon; Stallergenes, Antony, France
- ThP 613 Detection and Quantification of Low-abundant GDF11 in Nondepleted Biofluid Protein Complexity Using
 LC\MS\MS and LC\MS\MS\MS Analysis; Liming Peng¹;
 Srinivasan Krishnan²; Xiaohong Chen¹; Shalender Bhasin¹;

 **Brigham and Women's Hospital, Boston, MA; **2Ab Sciex,
 Foster City, CA**
- ThP 614 Evaluation of Affinity Capturing Techniques for the LC/
 MS Analysis of Biotherapeutics in Biological Matrices;

 Dongliang Zhan¹; Rand Jenkins¹; William R. Mylott¹; Patrick
 Bennett¹; Urban Kiernan²; Kwasi Antwi²; Eric Niederkofler²;

 ¹PPD, Inc., Richmond, VA; ²Thermo Fisher Scientific,
 Tempe, AZ
- ThP 615 Targeted Mass Spectrometry for the Analysis of Biomarkers and Biopharmaceuticals; Rainer Bischoff¹; Kees Bronsema¹; Daniel Wilffert¹; Nico van de Merbel²; ¹University of Groningen, Groningen, Netherlands; ²PRA Health Sciences, Assen, The Netherlands
- ThP 616 Analysis of Bioreactor Proteins using High Throughput
 Data-Independent Acquisition; Martha Stapels; Marcella
 Yu; Caroline DiCesare; Kevin Brower; Khanita Karaveg;
 Monica Lane; Xiaokui Kate Zhang; Sanofi Biotherapeutics,
 Framingham, MA
- ThP 617 Enzyme Activity Assay of a PEGylated Arginase in Mouse Serum Using LC-MS/MS; Oanh Dang¹; Susan Alters²; Scott Rowlinson²; Everett Stone³; John Bruce¹; Shannon Bryant¹; Michael Buonarati¹; <u>Dale Schoener</u>¹; ¹Intertek Pharmaceutical Services, El Dorado Hills, Ca; ²Aeglea Biotherapeutics, Austin, TX; ³University of Texas at Austin, Austin, TX

BIOSIMILARS 618-626

- ThP 618 Single Analytical Tool for Establishing Biosimilarity:

 A Biosimilar Case Study; Faraz Rashid; Annu Uppal;

 Dipankar Malakar; Manoj Pillai; Sciex,, 121, DHR holding
 Udyog Vihar Phase-4, HR
- ThP 619 Characterization of Innovator and Biosimilar Monoclonal Antibodies with Ion Mobility Q-TOF MS; Koen Sandra¹; Isabel Vandenheede¹; David Wong²; Ken Imatani²; Pat Sandra¹; ¹RIC, Kortrijk, Belgium; ²Agilent Technologies, Inc., Santa Clara, CA
- ThP 620 Application of Complementary HRMS Methodologies for a Thorough Biosimilar Comparability Assessment; Kevork Mekhssian; Jean-Nicholas Mess; Fabio Garofolo; Algorithme Pharma Inc., Laval, Canada
- ThP 621 Can Human Therapeutics Antibody (Humira) be
 Analyzed by LC-MS/MS in Plasma without Affinity
 Enrichment? Luca Genovesi; Jean-Nicholas Mess; Fabio
 Garofolo; Algorithme Pharma Inc., Laval, Canada
- ThP 622 **Disulfide Bond Mapping of Biosimilar Infliximab**; Annu Uppal¹; Milla Neffling²; <u>Steve Taylor</u>²; Dipankar Malakar¹; Faraz Rashid¹; Manoj Pillai¹; ¹SCIEX, 121, Udyog Vihar,



- Phase IV, Gurgaon, Haryana, India; ²SCIEX, Phoenix House, Lakeside Drive, Warrington, Cheshire, UK
- ThP 623 Intact Antibody Structural Characterization using H/D Exchange and Top-Down Electron Transfer Dissociation on an Orbitrap; Jingxi Pan¹; Suping Zhang¹; Albert Chou¹; Darryl Hardie¹; Christoph Borchers¹.²; ¹University of Victoria-Genome BC Proteomics Centre, Victoria, BC, Canada; ²Dept. of Biochem. & Microbiol., Univ. of Victora, Victoria, BC, Canada
- ThP 624 Complete Primary Structure and Biosimilarity
 Assessment of Monoclonal Antibodies in a Single
 Analysis Using Transient Isotachophoresis Capillary
 Electrophoresis-Tandem Mass Spectrometry; Rabah
 Gahoual^{1,3}; Jean-Marc Busnel⁴; Alain Beck²; <u>Yannis-Nicolas Francois</u>¹; Emmanuelle Leize-Wagner¹; ¹LSMIS,
 UMR 7140, University of Strasbourg, Strasbourg, France;
 ²Centre d'immunologie Pierre Fabre, Saint-Julien-en-Genevois, France; ³University of Amsterdam, Amsterdam,
 Netherlands; ⁴Beckman Coulter Inc, Marseille, France
- ThP 625 Comprehensive Characterization of Etanercept including N-/O-Glycosylation and Disulfide Linkage using Novel Bioinformatics Software; Anke Schnabel; Gerhard Koerting; Heiner Falkenberg; Yvonne Jasper; Andreas Wattenberg; Protagen Protein Services GmbH, Dortmund. Germany
- ThP 626 Importance of Data Acquisition Parameters in Identifying Aspartic Acid Isomerization in Degradation Products of Therapeutic Peptides by ETD; Zsolt Gengeliczki; Gedeon Richter Plc., Budapest, Hungary

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- ThP 627 Determination and Analysis of Sulfur-Containing
 Compounds in Petroleum using Silver Cations and Ion
 Mobility- Mass Spectrometry (IM-MS) Instrumentation;
 Hossein Maleki; Gregory Donohoe; Stephen Valentine;
 West Virginia University, Morgantown, WV
- ThP 628 Ion Mobility Mass Spectrometry (IM-MS) Applications in Modern Agricultural Research; Jeffrey Gilbert¹; David Mccaskill¹; Jesse Balcer¹; Yelena A. Adelfinskaya¹; Anthony P. Gies²; Suresh Babu Annangudi Palani¹; Gerrit DeBoer¹; Krishnamoorthy Kuppannan³; Mary Evenson¹; Lisa Buchholz¹; Bruce Bell³; ¹Dow AgroSciences, Indianapolis, IN; ²Dow Chemical Company, Freeport, TX; ³The Dow Chemical Company, Midland, MI
- ThP 629 MS-Based Comparisons of Rituximab Drug Products:
 Influence of Instrument Resolution, Chromatography
 and Ion Mobility on Structural Characterization; Ashley
 C. Gucinski; Carly Ferguson; Michaella Levy; Michael T.
 Boyne II; U.S. FDA, Saint Louis, MO
- ThP 630 Profiling Complex E/L Polymer Mixtures Using Ion Mobility Mass Spectrometry, a Novel 4D Data Mining Algorithm and Differential Analysis Software; David A. Weil¹; Caroline S. Chu²; ¹Agilent Technologies, Schaumburg, IL; ²Agilent Technologies, Inc, Santa Clara, CA
- ThP 631 Microfluidic UPLC Ion Mobility: A New Approach to Authentication and Routine Screening of Ginsenoside Isomers in Functional Food Products; Michael Mccullagh; John Chipperfield; Ramesh P Rao; David Douce; Waters, Manchester, UK
- ThP 632 Structural Characterization of Isomeric Polymer
 Precursors by Electrospray Ion Mobility-Mass
 Spectrometry and Computational Strategies; Tiffany
 M. Onifer; Sarah M. Stow; Jay G. Forsythe; Jody C. May;
 John A. McLean; David M. Hercules; Vanderbilt University,
 Nashville. TN
- ThP 633 Baby Elephants Can Surf: Using the Selectivity of Ion Mobility When Screening Multi-class Pesticides in Fruit and Vegetables; Séverine Goscinny¹; Michael McCullagh²;

 ¹Scientific Institute of Public Health, Brussels, Belgium;

 ²Waters, Manchester, UK

- ThP 634 Using the Routine Separation Dimension and Identification Criteria of Microfluidic UPLC Ion Mobility to Enhance Specificity in Screening Complex Samples; Michael Mccullagh¹; C.A.M Pereira²; J.H Yariwake²; David Douce¹; ¹Waters (MS Technologies), Wilmslow, UK; ¹Universidade de Sao Paulo, Sao Paulo, Brazil
- ThP 635 Ion Mobility Spectrometry Mass Spectrometry
 Analysis of Home Made Explosive Components and
 Background Materials; Nathan Hagan¹; Ilana Goldberg¹;
 Adam M Graichen²; Amanda St Jean¹; Ching Wu²; Plamen
 A. Demirev¹; ¹JHU Applied Physics Lab, Laurel, MD;
 ²Excellims Corporation, Acton, MA
- ThP 636 A Novel Strategy to Screen and Profile Steviol
 Glycosides of Natural Sweeteners in Food Using
 Microfluidic UPLC Ion Mobility; Ramesh P Rao¹; Michael
 McCullagh¹; David Douce¹; Séverine Goscinny²; ¹Waters
 Corporation, Manchester, UK; ²Scientific Institute of Public
 Health. Brussels. Belgium
- ThP 637 Analysis of Fruit Juice Samples with HPLC and CZE Coupled to IMS-qTOF-MS; Susanne Stephan; Oliver J. Schmitz; University of Duisburg-Essen, Essen, Germany
- ThP 638 The Effective Utilization of Shape Selective Information in the Characterisation of Complex Mixtures; Imminior Mixtures; Imminior Mixtures
- ThP 639 Degradation Profile of Conventional and Full Synthetic Engine Oil During Normal Vehicle Operation using Ion Mobility Mass Spectrometry; Christian Klein; Ed Darland; Ruwan Kurulugama; Bill Barry; George Stafford; Agilent Technologies, Santa Clara, CA

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- ThP 640 Role of Alkali Metals and Buffer Gases for Fast
 Differentiation of Gonyautoxin Isomers by Ion Mobility
 Mass Spectrometry; Salomé Poyer¹; Corinne LoutelierBourhis¹; Florence Mondeguer²; Julien Enche³; Vincent
 Tognetti¹; Laurent Joubert¹; Anne Bossée³; Philipp Hess²;
 Carlos Afonso¹; ¹University of rouen, Mont Saint Aignan,
 France; ²Ifremer, Nantes, France; ³DGA Maîtrise NRBC,
 Vert-le-petit, France
- ThP 641 Evaluation of the Utility of Alternative Drift Gases in a Low Pressure Conventional Drift Tube Ion Mobility

 Mass Spectrometer; Ruwan Kurulugama; George Stafford;

 Alex Mordehai; John Fjeldsted; Agilent Technologies, Santa Clara, CA
- ThP 642 The Importance of Charge Isomers in Quantitation; Ion Mobility Mass Spectrometry of Fluoroquinolone Antibiotics; Cris Lapthorn¹; Mike McCullagh²; Sara Stead²; Martin Palmer²; Kevin Giles²; Keith Richardson²; Jasper Boschmans³; Frank Sobott³; Frank Pullen¹; Babur Chowdhry¹; George Perkins⁴; ¹University of Greenwich, Chatham Maritime, UK; ²Waters Corp, Manchester, UK; ³University of Antwerp, Antwerp, Belgium; ⁴149 Hickory Corner Road, Milford, NJ
- ThP 643 Mining Secondary Metabolites by HPLC Chip Cube and Ion Mobility- Mass Spectrometry; Nichole M. Lareau¹; Sarah M. Stow¹; Jody C. May¹; Ed Darland²; Ruwan T. Kurulugama²; Emma E. Rennie²; John C. Fjeldsted²; John A. Mclean¹; ¹Vanderbilt University, Nashville, TN; ²Agilent Technologies, Santa Clara, CA
- ThP 644 Distinguishing of Isobaric Compounds By Ion Mobility-Mass Spectrometry using Different Drift Gases and Mobility Peak Fitting; Karel Lemr¹; Martina Hermannová²; Lucie Borovcová¹; Kristína Slováková¹; Sandra Benická¹; Vladimír Havlíček³; ¹RCPTM, Palacky University, Olomouc, Czech Republic; ²Contipro Pharma, a.s., Dolni Dobrouc, Czech Republic; ³Institute of Microbiology, v.v.i., Prague, Czech Republic



- ThP 645 Rapid Identification of Pathogenic Naegleria in Drinking Water Systems using Ion Mobility-Mass Spectrometry;

 Zhihao Yu¹; Xing Zhang¹; Haylea Miller²; Geoffrey Puzon²;

 Brian Clowers¹; ¹Washington State University, Pullman, WA;

 ²CSIRO Land and Water. Perth. Australia
- ThP 646 Demonstration of Collisional Cross Section Value
 Conservation across LC and GC Analyses; Lauren
 Mullin^{1,2}; Gareth Cleland²; Mike McCullagh³; Ingrid Ericson
 Jogsten¹; ¹MTM Research Centre Örebro University,
 Örebro, Sweden; ²Waters Corporation, Milford, MA; ³Waters
 Corporation, Wilmslow, UK
- ThP 647 Ion Mobility Data in Metabolite Identification: A Mass-MetaSite Approach; Ismael Zamora¹; Kevin Bateman³; Fabien Fontaine⁴; Russell Mortishire²; Ian McIntosh³;

 ¹Lead Molecular Design, S.L., Sant Cugat Del Valles, SPAIN; ²Waters Corp, Milford, MS; ³Merck, West Point, PN;
 ⁴Molecular Discovery, London, UK
- ThP 648 Multidimensional Analytical Approaches: Combining Ion Mobility and Spectrophotometric Detection with Current MS-based Metabolomics and Lipidomics Workflows;

 Giuseppe Paglia¹; Tommaso Pacini²; Steinn Gudmundsson²; A Eugenio Chiaravalle¹; Sigurdur Brynjolfsson²; Bernard O Palsson²; Giuseppe Astarita³; ¹IZS Puglia e Basilicata, Foggia, Italy; ²Center For Systems Biology, Reykjavik, Iceland; ³Waters Corporation, Milford, MA
- ThP 649 The Analysis of Bile Acids: Enhancement of Specificity using an Ion Mobility-TOFMS Based Approach; Jonathan P. Williams¹; Jonas Abdel-Khalik²; Yuqin Wang²; Sarah M. Stow³; Mark Towers¹; Giuseppe Astarita¹; James Langridge¹; William J. Griffiths²; ¹Waters, Manchester, UK; ²College of Medicine, Swansea, UK; ³Vanderbilt University, Nashville, TN. USA. Nashville. TN
- ThP 650 Separation and Characterization of Native and Modified Oligonucleotides by Differential Mobility Separation Mass Spectrometry (DMS-MS); Zhidan Chen¹; Stephen Coy¹; Albert Fornace²; Paul Vouros¹; ¹Northeastern University, Boston, MA; ²Georgetown University, Washington, DC
- ThP 651 Structural Mass Spectrometry in Origins-of-Life Research: Abiotic Peptide Formation and Evolution;

 Facundo Fernandez¹; Jay Forsythe¹; Sheng-Sheng Yu¹;

 Ramanarayanan Krishnamurthy²; Martha Grover¹; Nicholas Hud¹; ¹Georgia Institute of Technology, Atlanta, GA; ²The Scripps Research Institute, La Jolla, CA
- ThP 652 Method Development in Selective Separation of Isomeric Small Molecules in Complex Matrices on IMS/Q-TOF Platform; Christopher Beekman; Christopher Chouinard; Richard A. Yost; Department of Chemistry, University of Florida, Gainesville, FL

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- ThP 653 A Hybrid MSI Method Combining MALDI and NIMS for Small Molecule Discovery and Identification in Crustacean Brain Tissue; Chuanzi Ouyang¹; Qinjingwen Cao¹; Lingjun Li¹.²; ¹Department of Chemistry, UW-Madison, Madison, WI; ²School of Pharmacy, UW-Madison, Malison, WI
- ThP 654 AFM-sampling-L²MS on Painting Cross-Sections; Mark Little¹; Craig Prater¹; Eoghan Dillon¹; Shawn Owens²; Jacob Berenbeim²; Catherine Patterson³; Mattanjah de Vries²;

 1 Anasys Instruments, Santa Barbara, CA; University of California Santa Barbara, Santa Barbara, CA; Getty Conservation Institute, Los Angeles, CA
- ThP 655 Improvements in Biomolecular Analysis with Secondary Ion Mass Spectrometry of Bacteria, Brain and Breast Cancer Samples; Tina Angerer¹; Masoumeh Dowlatshahi Pour²; Patrick Wehrli¹; Per Malmberg²; John Fletcher¹,²; ¹University of Gothenburg, Gothenburg, Sweden; ²Chalmers University of Technology, Sweden, Gothenburg, Sweden

- ThP 656 Imaging of Kidney Allograft Biopsies Combining TOF-SIMS and MALDI-TOF Spectrometers: From Methodological Study to the Research of Rejection Biomarkers; Manale Noun¹; Jean Pierre Le Caer¹; David Touboul¹; Dany Anglicheau².³; Marion Rabant²-⁴; Pierre Marquet⁵; Alain Brunelle¹; ¹Institut de Chimie des Substances Naturelles, CNRS, Gif Sur Yvette, France; ²INSERM U1151, Paris, France; ³Néphrologie et transplantation adulte, Necker hosp, Paris, France; ⁴Lab. d'anatomie pathologique, Necker hosp, Paris, France; ⁵UMR 850 Inserm. Université de Limoges, Limoge, France
- ThP 657 Visualizing and Identifying Peptides Associated with Regenerating Tissue via Mass Spectrometry; <u>Ta-Hsuan Ong</u>; James Collins; Rachel Roberts-Galbraith; Elena Romanova; Phillip Newmark; Jonathan Sweedler; *University of Illinois at Urbana-Champaign, Urbana, IL*
- ThP 658 Practical Bioimaging using Massive Cluster Impact SIMS in a Time-of-Flight Ion-Microscope; <u>Jitao Zhang;</u> Klaus Franzreb; Sergei Aksyonov; Peter Williams; *Tempe, AZ*
- ThP 659 Imaging Mass Spectrometry Analysis and Comparison of Metal, Lipid, and Protein Distributions in Biological Tissues; Christopher Shiea¹; Hung Su²; Shiang-Jiun Lin²; Yeou-Lih Huang¹; Jentaie Shiea²; ¹Kaohsiung Medical University, Kaohsiung, Taiwan; ²National Sun Yat-Sen University, Kaohsiung, Taiwan
- ThP 660 Integration of MS Imaging and Proteomic Data for Biological Discovery in a 3D Microtissue Model of Colon Cancer; Peggi M. Angel; Linda Prengaman; Christina Lee; Erin Seeley; Protea Biosciences, Morgantown, WV
- ThP 661 Improved Submicron Spatial Resolution of Thermal Desorption Mass Spectrometry via Short Tailored Pulse Heating with Thermal AFM Probes; Suhas Somnath¹; Stephen Jesse¹; Gary J. Van Berkel²; Sergei V. Kalinin¹; Olga Ovchinnikova²; ¹CNMS, Oak Ridge National laboratory, Oak Ridge, TN; ²OBMS, Oak Ridge National laboratory, Oak Ridge, TN
- ThP 662 Verifying Continuity of Membranous Organelles and Measurements of Exchange Rate Between the Nucleus and Cytoplasm using FLIP-Like MALDI-Based Imaging;
 A. Jablokow¹; O. Gradow²; ¹National Research Medical University, Moscow, RF; ²Institute of Energy Problems of Chemical Physics, Moscow, RF
- ThP 663 Drugs of Abuse in Hair Sections Examined at High Resolution by TOF-SIMS Imaging; Gregory Fisher¹;
 Bryn Flinders²; Eva Cuypers³; Ron Heeren²; ¹Physical Electronics, Chanhassen, MN; ²M4I, Maastricht University, Maastricht, the Netherlands; ³KU Leuven Toxicology and Pharmacology, Leuven, Belgium
- ThP 664 Multimodal Imaging of Subpopulations in Cultured Cell Samples after Cell Transfection; Sanna Sämfors¹;
 Andreas Svanström²; John Fletcher¹; Julie Grantham²;
 Andrew Ewing¹; ¹Chalmers University of Technology,
 Gothenburg, Sweden; ²University of Gothenburg,
 Gothenburg, Sweden
- ThP 665 Single-Cell MALDI-TOF MS Profiling of Mammalian Islet of Langerhans; Troy Comi; Erik Jansson; Ta-Hsuan Ong; Stanislav Rubakhin; Jonathan Sweedler; University of Illinois at Urbana-Champaign, Urbana, IL
- ThP 666 Quantitative Imaging of Peptides on Mouse Brain
 Tissues by MALDI; Kyung Man Park¹; Jeong Hee Moon²;
 Seong Hoon Lee¹; Myung Soo Kim¹; ¹Seoul National
 University, Seoul, Korea; ²Medical Proteomics Research
 Center, KRIBB, Daejeon, Korea
- ThP 667 Phospholipid localization by Cold Cell LA-ICP-MS Imaging of Arabidopsis Thaliana Seeds and Extraction for Analysis by NSI-MS; Emma Gorishek; Phillip Mach; Jason Hamilton; Guido Verbeck; University of North Texas, Denton, TX



- ThP 668 Single Cell Analysis using High Spatial Resolution and High Sensitivity Imaging Mass Spectrometry;

 Bo Yang¹; Audra Judd¹; David M. Anderson¹.³; Jeffrey Spraggins¹; Richard M. Caprioli¹.²; Jeremy L. Norris¹;

 ¹Vanderbilt University MSRC, Nashville, TN; ²Department of Biochemistry, Nashville, TN; ³Vanderbilt University School of Medicine, Nashville, TN
- ThP 669 Increasing Spatial Resolution of Lipid Biomarker
 Analysis by LDI FT-ICRMS; Lars Wörmer²; Susanne
 Alfken²; Marcus Elvert²; Jens Fuchser¹; Julius S. Lipp²;
 Matthias Zabel²; Kai-Uwe Hinrichs²; ¹Bruker Daltonik GmbH,
 Bremen, Germany; ²MARUM, Bremen, Germany
- ThP 670 Single Cell Analysis of Rat Brain Glia using MALDI-MSI and CE-MS; Stanislav Rubakhin; Monika Makurath; Jonathan Sweedler; University of Illinois, Urbana, IL
- ThP 671 Sub-micrometer Resolution Near-Field Laser Ablation Sample Transfer Mass Spectrometry of Cells and Tissue; Suman Ghorai; Chinthaka A. Seneviratne; Kermit K. Murray; Louisiana State University, Baton Rouge, LA

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- ThP 672 Visualization of Neurotransmitters in Rat Brain by
 Desorption Electrospray Ionization Mass Spectrometry
 Imaging (DESI-MSI); Anna Maria A. P. Fernandes¹; Nicolas
 V. Schwab¹; Luciane C. Alberici²; Marcos N. Eberlin¹;

 ¹UNICAMP, Campinas, BRASIL; ²University of São Paulo,
 Ribeirão Preto. Brazil
- ThP 673 3D-SIMS Characterization of Intra/Extra Cellular Molecular Expression during Dictyostelium discoideum chemotaxis; Anthony Castellanos¹; Richard Gomer²; Francisco Fernandez-Lima¹; †Florida International University, Miami, FL; †Texas A&M, College Station, TX
- ThP 674 On-tissue Derivatization for the Visualization of Brain Amino Metabolites by Mass Spectrometry Imaging;

 <u>Clara Esteve</u>¹; Reinald Shyti¹; Else Tolner¹; Arn van den Maagdenberg¹; Liam Mcdonnell²; ¹LUMC, Leiden, NL;

 ²LUMC & PSF, Pisa, Italy
- ThP 675 MALDI-TOF Imaging of Metabolic Exchanges between Burkholderia seminalis and Ceratocystis paradoxa;
 Francisca D. S. Araújo¹; Welington L. Araújo²; Marcos N.
 Eberlin¹; 'UNICAMP, Campinas, Brazil; 'University of São Paulo, São Paulo, SP
- ThP 676 Cross Platform Lipid Imaging of Silver Nanoparticle-Exposed Rat Brain by LAESI-MS and MALDI-MS; Callee Walsh¹; Pamela Cantrell¹; Krishnan Sriram²; Jenny R. Roberts²; Erin H. Seeley¹; Katherine Moss¹; Peggi Angel¹; ¹Protea Biosciences, Morgantown, WV; ²CDC-NIOSH, Morgantown, WV
- ThP 677 DESI-MS Imaging of Metabolites in Various Plant
 Materials A Matter of Sample Preparation; Lucilia Kato²;
 Fred Rook¹; Nethaji J. Gallage¹; Birger L. Møller¹; Steen
 H. Hansen¹; Christian Janfelt¹; ¹University of Copenhagen,
 Copenhagen, Denmark; ²Universidade Federal de Goias,
 Goiania. Brazil
- ThP 678 Spatial Distribution of Phospholipids in Endometrial Tissue of Nellore Cows by MALDI-MSI and Identification by ESI-Orbitrap-MS; Katia Roberta Anacleto Belaz¹; Alessandra Tata¹; Pedro Henrique Vendramini¹; Anna Maria A. P. Fernandes¹; Moana França²; Mário Binelli²; Marcos Nogueira Eberlin¹; ¹University of Campinas, Campinas, Brazil; ²São Paulo State University. Pirassununga. Brazil
- ThP 679 Study of Wood Metabolites by Submicron Resolution Cluster-TOF-SIMS Imaging; Quentin Vanbellingen¹; Tingting Fu¹.²; Nicolas Elie¹; Michael J. Eller²; Nadine Amusant³; David Touboul¹; Didier Stien¹; Serge Della-Negra²; Alain Brunelle¹; ¹Institut de Chimie des Substances Naturelles, CNRS, Gif-Sur-Yvette, France; ²Institut de Physique Nucléaire, CNRS, Orsay, France; ³Cirad UMR Ecofog, Cayenne, France

- ThP 680 Multimodal Analysis and Mass Spectrometry Imaging of Atherosclerotic Plaque Tissue; Gregory Hamm¹; Silvia Aldi²; Kim Holmstrøm³; Serife Arda⁴; Ivana Bobeldijk-Pastorova⁶; Ulf Hedin²; Michael Guidoʻ; Boye S. Nielsen³; Alain Van Gool⁶; Jan NH Lindeman⁶; Jonathan Stauber¹; ¹ImaBiotech, MS Imaging Dept., Loos, France; ²Karolinska Institutet, Stockholm, Sweden; ³Bioneer, Hoersholm, Denmark; ⁴Morphisto, Frankfurt am Main, Germany; ⁵Leiden University Medical Center, Leiden, Netherlands; ⁶TNO, Zeist, Netherlands
- ThP 681 Bioaccumulation of a Toxic Ionic Liquid AMMOENG
 130 in Zebrafish Analyzed by Desorption Electrospray
 Ionization Mass Spectrometry Imaging (DESI-MSI);
 Consuelo Perez¹; Alessandra Tata¹; Michel De Campos¹;
 Chun Peng²; Demian Ifa¹; ¹Department of Chemistry,
 CRMS, York University, Toronto, Canada; ²Department of
 Biology, York University, Toronto, Canada
- ThP 682 Quantitative Mass Spectrometry Imaging of Rabbit Skin Topically Dosed with an Antifungal Compound using a Stable Isotope Labeled Internal Standard; <u>Erin H Seeley</u>; Gregory Boyce; Protea Biosciences, Morgantown, WV
- ThP 683 In situ Monitoring of Endogenous Metabolites during Gametogenesis of Ulva mutabilis (Chlorophyta) by MALDI-MSI; Ralf W. Kessler¹; Anna C. Crecelius².³; Ulrich S. Schubert².³; Thomas Wichard¹; ¹Inst. for Inorg. and Anal. Chem., FSU Jena, Jena, Germany; ²Lab. of Org. and Macromol. Chem., FSU Jena, Jena, Germany; ³Jena Center for Soft Matter (JCSM), FSU Jena, Jena, Germany
- ThP 684 Mapping Small Molecules on Tissue Samples using Porous-Silicon (pSi) based Mass Spectrometry Imaging (MSI) Techniques; Tara Moening; Lin He; North Carolina State University, Raleigh, NC
- ThP 685 Chemical Imaging as a Tool to Evaluate Application
 Efficiency of Fungicides on Wheat Leaf Surface; Suresh
 Annangudi; Kyung Myung; Cruz Avila Adame; Jeffrey
 Gilbert; Dow Agrosciences, Indianapolis, IN
- ThP 686 MALDI-MS Imaging of Surface Lipids on Maize Silks;

 Maria Dueñas; Bri Vidrine; Marna Yandeau-Nelson; YoungJin Lee; Iowa State University and Ames Laboratory USDOE, Ames, IA
- ThP 687 MALDI-MS Imaging of Biologically Active Primary
 Amines Facilitated by Pyrylium Salts As Reactive
 Matrices; Mohammadreza Shariatgorji¹; Anna Nilsson¹;
 Patrik Kallback¹; Oskar Karlsson¹; Xiaoqun Zhang²; Per
 Svenningsson²; Per E. Andren¹; ¹Uppsala university,
 Uppsala. Sweden; ²Karolinska Institute, Stockholm, Sweden
- ThP 688 Imaging of Lipids in Pancreas using Silver
 Nanoparticles; Shelley N Jackson¹; Hanan Muzemil¹;
 Aurelie Roux¹; Ludovic Muller¹; J Albert Schultz²; Amina S.
 Woods¹; *INIDA-IRP, NIH, Baltimore, MD; *Ionwerks, Inc., Houston, TX
- ThP 689 Distributional Analysis of Phosphatidylinositol in Quail Yolk by MALDI Imaging Mass Spectrometry; Hirofumi
 Enomoto¹; Toshio Kobayashi²; Hisakazu Yamane¹; Nobuhiro Zaima³; ¹Fac. of Sci. and Eng., Teikyo Uni., Utsunomiya, Japan; ²Grad. Sch. of Sci. and Eng., Teikyo Uni., Utsunomiya, Japan; ³Fac. of Agric., Kinki Uni., Nara, Japan



Abbatiello, Susan E		AG Jönsson Bo	
Abbatiello, Susan E Abbatt, Jonathan P.D		AG Jönsson, Bo Agar, Jeffrey	
Abdel-Khalik, Jonas		Agard, David	
Abdelmoula. Walid		Agnew, Brian J	
Abdelmoula, Walid		Agris, Paul	
Abdelnur, Patrícia Verardi		Aguilar-Mahecha, Adriana	MP 55
Abdelrazig, Salah		Agyekum, Isaac	
Abdi, Fadi		Ahammed, Shabeer TP	
Abdi, Fadi		Ahi, Shobha	
Abdillahi, Abdirahman Abdulhussain, Noor		Ahlers, Stephen T Ahmed, Arif	
Abdullah, Laila		Ahmed, Musahid	
Abdullah. Laila		Ahmed, Saima	
Abdullah Alharbi, Majed	MP 505	Ahn, Doo-Sik	
\be , Kenji		Ahn, Jong Rok	ThP 02
Abecassis, Michael M		Ahn, Sung Hee	
Abelin, Jennifer		Ahonen, Linda	
Abelin, Jennifer		Ahrends, Robert	
Aboufazeli, Forouzan Abraham, Paul		Aich, Udayanath Aiello, Donatella	
Abraham, Paul		Aiello, Vera	
Abrams, Ezra S.		Aiello, Vera	
Abreu, Thiago		Aijaz, Sarah	
Abreu, Thiago		Aikawa, Masanori	WP 33
Abshiru, Nebiyu		Aikawa, Masanori	
Abutokaikah, Maha T		Ainley, Steve	
Abutokaikah, Maha T		Ainley, Steven	
Abutokaikah, Maha T Abzalimov, Rinat		Ainley, Steven Ainley, Steven	
Acevedo, Frances M		Airoldi, Irma	
Acharya, Amit		Ait-Ghezala, Ghania	
Acosta, Jesus		Aivetan. Paul	
Adam, Jackson		Aiyetan, Paul	
Adamec, Jiri	MP 314	Akervik, Kristi	
Adamko, Darryl	MP 388	Akervik, Kristi	
Adamo, Mark		Akimova, Darya	
Adamo, Mark		Akinapalli, Srikanth	
Adamo, Mark		Aksyonov, Sergei	
Adams, AndreaAdams, Chris		Alabdulkarim, Balqis Alabert, Constance	
Adams, Christopher		Alaee, Mehran	
Adams, Craig		Alalwiat, Ahlam	
Adams, Kristie	ThP 260	Alalwiat, Ahlam	
Adams, Luke	MP 413	Al-Assaf, Khalid H	MP 66
Adamyan, Leila V		Alava, Thomas	
Adarayan, Emily		Albergamo, Ambrogina	
Addepalli, Balasubrahmanyam		Alberice, Juliana	
Addepalli, Balasubrahmanyam Addink, Rudolf		Alberice, Juliana Alberice, Juliana	
Addink, Rudoll		Alberice, Juliana	
Addona, George		Alberici, Rosana	
Adelfinskaya, Yelena A		Alberici, Rosana M	
Adelfinskaya, Yelena A		Albers, Christian	
Adeoye, Opeolu		Alberti, James	MP 11
Aderem, Alan		Alberts, Deborah	
Adhikari, Jagat		Albraidy, Bassam	
Adhikari, Sarju		Albrecht, Sascha	MP 05
Adisakwattana, Poom		Albrieux, Florian	
Nebersold, Ruedi		Aldcroft, Clive	
ebersold, Ruedi		Aldi, Silvia	
ebersold, Ruedi		Alelyuna, Yun	
ebersold, Ruedi		Alelyunas, Yun	
ebersold, Ruedi		Alelyunas, Yun	
ebersold, Ruedi		Alelyunas, Yun	
eppli, Chistoph		Al-Enzi, Momdoh	
eppli, Christoph	MP 664	Alessi, Dario	
erni, Hans Rudolferts, Johannes M.F.G		Alexander, James L Alexander, James L	
erts, Jonannes W.F.G		Alexander, Nicolas	
Afasizhev, Ruslan		Alexander IV, James	
Afchine, Armin		Alexandrou, Lydon	
Afiuni-Zadeh, Somaieh		Alexandrov, Theodore	
Afkarian, Maryam		Alexandrov, Theodore	MP 17
Afonso, Carlos		Alexandrov, Theodore	MP 18
Afonso, Carlos	MP 130	Alexandrov, Theodore	MP 40
Afonso, Carlos	TI 0 F 0 0 0	Alexandrov, Theodore	TD 01

Afonso, Carlos	.TOC	pm 4:10
AG Jönsson, Bo Agar, Jeffrey		
Agard, David	IVIOC	ThP 479
Agnew, Brian J		.TP 504
Agris, Paul W	/OG a	m 08:30
Aguilar-Mahecha, Adriana		MP 551
Agyekum, Isaac		WP 222
Ahammed, Shabeer TP		
Ahi, Shobha Ahlers, Stephen T		WP 487
Ahmed, Arif		MP 655
Ahmed, Musahid		
Ahmed, Saima		
Ahn, Doo-Sik		
Ahn, Jong Rok		ThP 027
Ahn, Sung Hee Ahonen, Linda		
Ahrends, Robert		
Aich, Udayanath		
Aiello, Donatella		WP 303
Aiello, Vera		
Aiello, Vera		
Aijaz, Sarah		.WP 113
Aikawa, Masanori Aikawa, Masanori		WP 404
Ainley, Steve		
Ainley, Steven		<u>2</u> -0
Ainley, Steven		ThP 236
Ainley, Steven		
Airoldi, Irma		MP 556
Ait-Ghezala, Ghania		
Aiyetan, Paul Aiyetan, Paul		
Akervik, Kristi		
Akervik, Kristi		
Akimova, Darya		
Akinapalli, Srikanth		
Akeyonov Sorgoi		
Aksyonov, Sergei		
Alabdulkarim, Balgis	MOG	pm 4:10
Alabdulkarim, BalqisV Alabert, ConstanceV	MOG /OG a	pm 4:10 m 09:10
Alabdulkarim, BalqisValabert, ConstanceV Alaee, MehranV	MOG /OG a	pm 4:10 m 09:10 WP 019
Alabdulkarim, BalqisV Alabert, ConstanceV	MOG /OG a ThOE	pm 4:10 m 09:10 WP 019 pm 2:50
Alabdulkarim, Balqis	MOG /OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078
Alabdulkarim, Balqis	MOG /OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 .MP 660 ThP 032
Alabdulkarim, Balqis	MOG /OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 .MP 660 ThP 032 ThP 417
Alabdulkarim, Balqis	MOG /OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 .MP 660 ThP 032 ThP 417 ThP 148
Alabdulkarim, Balqis	MOG VOG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 .MP 660 ThP 032 ThP 417 ThP 148 ThP 149
Alabdulkarim, Balqis	MOG VOG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 .MP 660 ThP 032 ThP 417 ThP 148 ThP 149 WP 283
Alabdulkarim, Balqis	MOG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 ThP 149 WP 283 ThP 672
Alabdulkarim, Balqis	MOG /OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 .MP 660 ThP 032 ThP 148 ThP 148 ThP 149 WP 283 ThP 672 TP 002
Alabdulkarim, Balqis	MOG VOG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 .MP 660 ThP 032 ThP 417 ThP 148 ThP 149 WP 283 ThP 672 TP 002
Alabdulkarim, Balqis	MOG /OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 149 ThP 148 ThP 149 WP 283 ThP 472 TP 002 TP 387
Alabdulkarim, Balqis	MOG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 417 ThP 148 ThP 149 WP 283 ThP 672 TP 024 TP 024 TP 387 TP 387
Alabdulkarim, Balqis	MOG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 417 ThP 148 ThP 149 WP 283 ThP 672 TP 002 TP 024 TP 387 TP 114 MP 514 MP 514
Alabdulkarim, Balqis	MOG A	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 149 WP 283 ThP 672 TP 024 TP 034 TP 387 .MP 114 MP 514 ThP 149 TP 030 TP 030 TP 030 TP 030
Alabdulkarim, Balqis	MOG //OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 WP 283 ThP 672 TP 024 TP 024 TP 387 MP 114 MP 514 ThP 230 TP 054 TP 230 MP 054
Alabdulkarim, Balqis	MOG //OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 ThP 148 WP 283 ThP 672 TP 002 TP 024 TP 387 MP 114 MP 514 ThP 230 MP 054 MP 054 MP 657 ThP 244
Alabdulkarim, Balqis	MOG /OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 ThP 149 WP 283 ThP 672 TP 002 TP 024 TP 387 MP 114 MP 514 MP 557 MP 054 MP 054
Alabdulkarim, Balqis	MOG VOG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 148 ThP 148 ThP 149 WP 283 ThP 672 TP 002 TP 024 TP 387 MP 114 MP 514 MP 514 MP 557 ThP 219 TP 348 MP 657 ThP 19 MP 148 WP 148
Alabdulkarim, Balqis	MOG A	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 149 WP 283 ThP 672 TP 002 TP 032 MP 114 MP 514 MP 514 MP 657 ThP 219 TP 344 ThP 680 WP 148 m 09:10
Alabdulkarim, Balqis	MOG //OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 148 ThP 148 WP 283 ThP 672 TP 024 TP 024 TP 024 TP 034 MP 514 ThP 230 MP 051 MP 05
Alabdulkarim, Balqis	MOG a ThOE	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 ThP 148 ThP 148 ThP 148 MP 283 ThP 672 TP 024 TP 024 TP 387 .
Alabdulkarim, Balqis	MOG /OG a	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 ThP 148 ThP 148 ThP 149 WP 283 ThP 672 TP 024 TP 387 .
Alabdulkarim, Balqis	MOG ATTHOE	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 149 WP 283 ThP 672 TP 002 TP 034 MP 514 MP 514 MP 514 MP 657 ThP 219 TP 344 ThP 148 MP 09:10 pm 4:10 pm 4:10 Pm 4:10 ThP 245 MP 245 MP 325 MP 345 MP 144 MP 657 ThP 219 TP 344 ThP 680 MP 657 ThP 219 TP 344 ThP 245 MP 657 ThP 219 TP 344 ThP 245 MP 09:10 pm 4:10
Alabdulkarim, Balqis	MOG A	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 148 ThP 148 WP 283 ThP 672 TP 024 TP 024 TP 344 MP 514 ThP 230 MP 054 MP 148 MP 149 MP 148 MP 149 MP
Alabdulkarim, Balqis	MOG AMOG AMOG AMOG AMOG AMOG AMOG AMOG A	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 148 ThP 148 WP 283 ThP 672TP 024TP 024TP 344 MP 514 ThP 230 MP 054 MP 055 MP 054 MP 055 MP 05
Alabdulkarim, Balqis	MOG a ThOE	pm 4:10 m 09:10 WP 019 ppm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 ThP 148 ThP 148 ThP 283 MP 654 MP 514 MP 514 ThP 230 MP 054 MP 657 ThP 148 MP 657 ThP 148 MP 657 MP 179 MP 660 ThP 245 MP 257 MP 660 ThP 245 MP 3:50 ppm 3:50
Alabdulkarim, Balqis	MOG a ThOE	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 ThP 148 ThP 148 ThP 672 TP 024 TP 024 TP 024 TP 024 TP 051 MP 174 ThP 230 MP 054 MP 657 ThP 148 ThP 245 TP 051 MP 177 MP 178 MP 178 MP 178 MP 178 MP 178 MP 275 MP 245 MP 256 pm 3:50 WP 002 WP 002
Alabdulkarim, Balqis	MOG a ThOE MOH WOA MOB	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 148 ThP 148 WP 283 ThP 672 TP 024 TP 034 MP 514 ThP 230 TP 034 MP 057 ThP 219 TP 344 MP 657 ThP 219 TP 344 MP 657 ThP 219 TP 034 MP 057 ThP 219 TP 034 MP 057 ThP 219 TP 043 MP 057 ThP 219 TP 040 MP 178 MP 057 MP 660 ThP 245 TP 643 WP 256 pm 3:50 WP 002 pm 4:10 MP 178
Alabdulkarim, Balqis	MOG a ThOE MOH a MOH MOH MOH MOH	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 148 ThP 148 ThP 148 MP 283 ThP 672 TP 024 TP 024 TP 024 TP 054 MP 114 MP 514 ThP 149 MP 250 MP 148 MP 051 MP 277 MP 660 MP 148 MP 277 MP 660 MP 277 MP 660 MP 277 MP 660 MP 277 MP 660 MP 277 MP 184 MP 184 MP 184 MP 184 MP 184 MP 185 MP 1
Alabdulkarim, Balqis	MOG a ThOE	pm 4:10 m 09:10 WP 019 pm 2:50 ThP 078 MP 660 ThP 032 ThP 417 ThP 148 ThP 148 ThP 148 MP 283 ThP 672 TP 002 TP 024 TP 387 MP 114 MP 514 ThP 230 TP 387 MP 154 MP 657 ThP 680 WP 148 m 09:10 pm 4:10 TP 387 MP 660 ThP 245 TP 643 WP 256 pm 3:50 WP 002 pm 4:10 MP 178 TP 643 WP 256 pm 3:50 WP 002 pm 4:10 MP 184 MP 185

Alexeev, Yuri	
	WOC am 08:30
Alfaro, Clint	
Alfaro, Pilar	
Alfken, Susanne	ThP 669
Alghafly, Hashim	WP 531
Al-Ghamdi, Ibrahim	MD 660
Al-Gizawiy, Mona	
Al-Gizawiy, Mona	ThP 459
Al-Harbi, Nasser M	MP 660
Ali, Asraf	
Ali, Neserin	
Ali, Syed	MP 660
Aliman, Michel	MP 060
Aliman, Michel	
Aliman, Michel	MP 063
Aliman, Michel	MP 080
Alisawi, Wisam	
Alla, Ravi Chandran Reddy	
Allen, Jamie	TP 555
Allen, Kevin	MP 388
Allen, Lloyd	MD 050
Allen, Mark	
Allen, Mathew	. MOA am 08:30
Allen, Mike	ThP 344
Allen, Samuel	
Allen, Stacy	
Alley, William	MP 585
Alley, William	
Alliot, Fabrice	
Allmaier, Guenter	WP 524
Allred, Stephanie I	WP 083
Allsop, David	
Allworth, Linda L	
Almalki, Ahmad	MP 223
Almeida, Reinaldo	TP 246
Almeida, Reinaldo	
Al-Mismar, Rasha	
Al-Naqshabandi, Mohammed	WP 647
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Alon, Tal	
Alon, Tal	
Alonso, David	TP 115
Alonso, David	TP 115
Alonso, David	TP 115
Alonso, David	TP 115 ThP 396 ThP 230
Alonso, David	TP 115ThP 396ThP 230TP 077
Alonso, David	TP 115ThP 396ThP 230TP 077ThP 230
Alonso, David	TP 115ThP 396ThP 230TP 077ThP 230MP 216
Alonso, David	TP 115ThP 396ThP 230TP 077ThP 230MP 216MP 619
Alonso, David	TP 115ThP 396ThP 230TP 077ThP 230MP 216MP 619
Alonso, David	TP 115ThP 396ThP 230ThP 230ThP 230MP 216MP 619TOF am 09:50
Alonso, David	TP 115ThP 396ThP 230ThP 230MP 230MP 619TOF am 09:50ThP 617
Alonso, David	TP 115ThP 396ThP 230ThP 277MP 216MP 619TOF am 09:50ThP 617ThP 424
Alonso, David	TP 115ThP 396ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421
Alonso, David	TP 115ThP 396TP 077ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 424ThP 421WP 255
Alonso, David	TP 115ThP 396TP 077ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 424ThP 421WP 255
Alonso, David	TP 115ThP 396TP 077ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 421ThP 421WP 255MP 444
Alonso, David	TP 115ThP 396ThP 230ThP 270ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 421WP 255MP 444MOF pm 3:10
Alonso, David	TP 115ThP 396ThP 230ThP 270ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476
Alonso, David	TP 115ThP 396ThP 230MP 216MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476
Alonso, David	TP 115ThP 396ThP 230MP 216MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50
Alonso, David	TP 115ThP 396ThP 230MP 216MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50
Alonso, David	TP 115ThP 396ThP 230ThP 077ThP 230MP 216MP 619ThP 617ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50
Alonso, David	TP 115ThP 396ThP 230TP 077ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 424ThP 425MP 476MP 476MP 476MP 476MP 476MP 478MP 478MP 478MP 478MP 478MP 659TP 139
Alonso, David	TP 115ThP 396TP 077TP 077ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WOB pm 3:30
Alonso, David	TP 115ThP 396ThP 230ThP 270ThP 230MP 216MP 216MP 617ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WOB pm 3:30TP 365
Alonso, David	TP 115ThP 396ThP 230ThP 270ThP 230MP 216MP 216MP 617ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WOB pm 3:30TP 365
Alonso, David	TP 115ThP 396ThP 230MP 216MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WOB pm 3:30TP 365WP 221
Alonso, David	TP 115ThP 396ThP 230ThP 270MP 216MP 216MP 619ThP 617ThP 424ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WOB pm 3:365WP 221WP 269
Alonso, David	TP 115ThP 396ThP 230ThP 277ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 617ThP 424ThP 424MP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WOB pm 3:30TP 365WP 221WP 269TP 574
Alonso, David	TP 115ThP 396ThP 230TP 077ThP 230MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WOB pm 3:30TP 365WP 221WP 269TP 574WP 269
Alonso, David	TP 115ThP 396ThP 230ThP 077ThP 230MP 216MP 216MP 617ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WOB pm 3:30TP 365WP 269TP 365WP 269TP 376WP 269TP 376WP 269TP 574WP 417ThP 408
Alonso, David	TP 115ThP 396ThP 230MP 216MP 216MP 619ThP 617ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:40MP 476MP 143TOG pm 3:50WP 659TP 139WO pm 3:00TP 365WP 221WP 269TP 574WP 417ThP 408WP 161
Alonso, David	TP 115ThP 396ThP 230MP 216MP 216MP 619ThP 617ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:40MP 476MP 143TOG pm 3:50WP 659TP 139WO pm 3:00TP 365WP 221WP 269TP 574WP 417ThP 408WP 161
Alonso, David	TP 115ThP 396ThP 230MP 216MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:10MP 476MP 143TOG pm 3:50WP 659TP 139WP 59TP 365WP 221WP 269TP 365WP 269TP 574WP 417ThP 408WP 161TOF am 09:10
Alonso, David	TP 115 ThP 396 ThP 230 TP 077 ThP 230 MP 216 MP 619 TOF am 09:50 ThP 617 ThP 424 ThP 421 WP 255 MP 444 MOF pm 3:10 MP 476 MP 143 TOG pm 3:50 WP 659 TP 139 WOB pm 3:30 WP 221 WP 269 TP 574 WP 417 ThP 408 WP 417 ThP 408 TP 408 TP 139
Alonso, David	TP 115 ThP 396 ThP 230 TP 077 ThP 230 MP 216 MP 619 TOF am 09:50 ThP 617 ThP 424 ThP 421 WP 255 MP 444 MOF pm 3:10 MP 476 MP 133 TOG pm 3:50 WP 659 TP 139 WOB pm 3:30 TP 365 WP 221 WP 269 TP 574 WP 417 ThP 408 WP 161 TOF am 09:10 TP 444 TOF am 09:10
Alonso, David	TP 115 ThP 396 ThP 230 TP 077 ThP 230 MP 216 MP 619 TOF am 09:50 ThP 617 ThP 424 ThP 421 WP 255 MP 444 MOF pm 3:10 MP 619 TOG pm 3:50 WP 659 TP 139 WOB pm 3:30 TP 365 WP 261 WP 269 TP 574 WP 211 ThP 408 WP 161 TOF am 09:10 TP 444 TP 523 ThP 483
Alonso, David	TP 115 ThP 396 ThP 230 TP 077 ThP 230 MP 216 MP 619 TOF am 09:50 ThP 617 ThP 424 ThP 421 WP 255 MP 444 MOF pm 3:10 MP 619 TOG pm 3:50 WP 659 TP 139 WOB pm 3:30 TP 365 WP 261 WP 269 TP 574 WP 211 ThP 408 WP 161 TOF am 09:10 TP 444 TP 523 ThP 483
Alonso, David	
Alonso, David	TP 115ThP 396ThP 230MP 216MP 216MP 619TOF am 09:50ThP 617ThP 424ThP 421WP 255MP 444MOF pm 3:50WP 659TP 139WO pm 3:50WP 221WP 269TP 365WP 221WP 269TP 574WP 161TOF am 09:10TP 444TP 523ThP 483WP 550WP 550WP 550WP 550WP 550WP 550WP 550
Alonso, David	TP 115 ThP 396 ThP 230 TP 077 ThP 230 MP 216 MP 619 TOF am 09:50 ThP 617 ThP 424 ThP 421 WP 255 MP 444 MOF pm 3:10 MP 659 TP 139 WOB pm 3:50 WP 260 TP 574 WP 417 ThP 408 WP 161 TOF am 09:10 TP 444 TP 523 ThP 448 TP 523 ThP 488 WP 550 WP 260 MP 294
Alonso, David	TP 115 ThP 396 ThP 230 TP 077 ThP 230 MP 216 MP 619 TOF am 09:50 ThP 617 ThP 424 ThP 421 WP 255 MP 444 MOF pm 3:10 MP 476 MP 139 WOB pm 3:30 TP 365 WP 221 WP 269 TP 574 WP 417 ThP 408 WP 117 ThP 408 WP 117 ThP 408 TP 418 WP 117 ThP 408 TP 369 TP 369 TP 369 TP 379 TP 399 TP 379 TP 399 TP 379 TP 444 TP 574 ThP 408 TP 417 ThP 408 TP 417 ThP 408 TP 417 ThP 408 TP 417 ThP 408 TP 523 ThP 483 TP 523 ThP 483 TP 520 TP 260 MP 294 TP 679
Alonso, David	TP 115 ThP 396 ThP 230 TP 077 ThP 230 MP 216 MP 619 TOF am 09:50 ThP 617 ThP 424 ThP 421 WP 255 MP 444 MOF pm 3:10 MP 619 TOF am 09:50 TP 139 WOB pm 3:30 TP 365 WP 261 WP 269 TP 179 ThP 408 WP 161 TOF am 09:10 TP 444 TP 523 ThP 483 WP 550 WP 269 MP 294 TP 574 TP 297 TP 297 TP 297 TP 297
Alonso, David	
Alonso, David	



Amgoune, Abderrahmane	
Amini, Kasra	
Amiralaei, Sheida	
Amiram, Miriam	
Amirav, Aviv	
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Amunugama, Ravi	
Amusant, Nadine	
Amzel, L. Mario	
Amzil, Zouher	
An , Bo	
An , Bo	
An, Eunkyung	
An, Eunkyung	
An, Zhiwu	
Anacleto Belaz, Katia Roberta	
Anagli, John	
Anand, Ganesh SWO	
Anand, Swati	
Ancrum, Tiffany	
Andeer, Peter	MP 350
Andersen. Melvin E.	
Andersen, Nisana	
Andersen, Peter Lawætz	
Andersen, Ulla N.	
Anderson, David J	TP 273
Anderson, David M	
Anderson, David M	
Anderson, Elizabeth	
Anderson, Elizabeth	
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Anderson Gordon WOF	am 09:50
Anderson, GordonWOE Anderson, Gordon AMO	
Anderson, Gordon A MO	A pm 2:30
	A pm 2:30 MP 137
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149 WP 363
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149 WP 363 MP 322
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149 WP 363 MP 322 MP 393
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149 WP 363 MP 322 WP 193 ThP 607
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149 WP 363 MP 322 WP 193 ThP 607 ThP 287
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149 WP 363 MP 322 WP 193 ThP 607 ThP 607
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149 WP 363 MP 322 WP 193 ThP 607 ThP 287 WP 112 WP 112
Anderson, Gordon A	A pm 2:30 MP 137 WP 479 TP 189 WP 159 WP 149 WP 363 MP 322 WP 193 ThP 607 ThP 287 WP 112 WP 112 WP 172
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Baessmann, Carsten	
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Baldwin, lan T	ThP 382 ThP 214 TP 344 WP 505 ThP 263 ThP 330 ThP 330 WP 393 WP 393 WP 543 MP 318 MP 327 ThOA pm 2:30 TP 644 MP 516 MP 056 MP 057 TP 240 TP 302 WOF am 10:10 WP 122 WOF am 09:56 MOB am 09:10 MP 408 MP 408 TP 072
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Barr, John R Barran, Perdita Barreda-Gómez, Gabriel Barreda-Gómez, Gabriel Barreran, Joe Barrera, Joe Barrera, Joe Barrera-Arellano, Daniel Barrère-Mangote, Caroline	WP 252 WP 357 ThOC am 09:50
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Barr, John R. Barran, Perdita. Barrea, Gabriel. Barreda-Gómez, Gabriel. Barretine, Emily. Barrera, Joe. Barrera, Joe. Barrera-Arellano, Daniel. Barrère-Mangote, Caroline. Barrett, David. Barrett, David. Barretklow, Jason.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 649WP 653MOC am 08:50MP 475MP 475MP 475TP 002TP 002TP 002TP 934WP 344WP 344
Barr, John R. Barran, Perdita. Barrea, Gabriel. Barreda-Gómez, Gabriel. Barretine, Emily. Barrera, Joe. Barrera, Joe. Barrera-Arellano, Daniel. Barrère-Mangote, Caroline. Barrett, David. Barrett, David.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 649WP 653MOC am 08:50MP 475MP 475MP 475TP 002TP 002TP 002TP 934WP 344WP 344
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Barr, John R. Barr, John R. Barran, Perdita. Barreda-Gómez, Gabriel Barreda-Gómez, Gabriel Barrentine, Emily. Barrera, Joe. Barrera, Joe. Barrera, Joe. Barrera-Arellano, Daniel. Barrère-Mangote, Caroline. Barrère-Mangote, Caroline. Barrett, David. Barrett, David. Barricklow, Jason. Barrington, William. Barrow, Kory. Barrow, Mark.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 649WP 649WP 675WP 468MOC am 08:50TP 675WP 468MP 475TP 002ThOE pm 2:30WP 212WP 340WP 467TP 190MOG pm 3:30MOG pm 3:30
Barr, John R. Barran, Perdita. Barren, Perdita. Barren, Perdita. Barren, Perdita. Barren, Perdita. Barren, Perdita. Barren, Gabriel. Barrera, Joe. Barrert, David. Barricklow, Jason. Barrington, William. Barrow, Kory Barrow, Mark.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 685MOC am 08:50TP 675MP 475TP 697TP 092ThOE pm 2:30WP 212WP 340WP 467TP 190MOG pm 3:30MOG am 08:50
Barr, John R. Barran, Perdita. Barrea, Gabriel. Barreda-Gómez, Gabriel. Barrera, Joe. Barrera, Joe. Barrera, Joe. Barrera-Arellano, Daniel. Barrère-Mangote, Caroline. Barrètt, David. Barrett, David. Barrington, William. Barrow, Kory. Barrow, Mark. Barrow, Mark. Barrow, Mark.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 648MOC am 08:50TP 675WP 488MP 475TP 597TP 002TP 002TP 902TP 190MOG pm 38:50MOG am 08:50MP 202MOG am 08:50
Barr, John R. Barran, Perdita. Barreda-Gómez, Gabriel. Barreda-Gómez, Gabriel. Barreta, Joe. Barrera, Joe. Barre	WP 252 WP 357 ThOC am 09:50
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Barr, John R. Barr, John R. Barran, Perdita. Barren, Perdita. Barren, Perdita. Barren, Gabriel. Barretine, Emily. Barrera, Joe. Barrera, Joe	WP 252 WP 357 ThOC am 09:50TP 067WP 649WP 649WP 653MOC am 08:50MP 468MP 475TP 002TP 002ThO 57TP 002ThO 57TP 002ThO 57TP 190MOG pm 3:30MOG pm 3:30MOG pm 3:10MOC pm 3:10
Barr, John R. Barr, John R. Barran, Perdita. Barreda-Gómez, Gabriel Barreda-Gómez, Gabriel Barrentine, Emily. Barrera, Joe. Barrera, Mandel. Barrow, Mark Barrow, Mark Barrow, Mark Barrow, Mark Barrow, Mark Barrow, Mark Barry, Bill Barry, Grant E. Barry, Simon.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 653MOC am 08:50TP 675WP 468MP 475TP 102WP 340WP 340WP 467TP 111MOC pm 3:30MOC pm 3:30MOC pm 3:30MP 209TP 111MOC pm 3:30MP 174TOH pm 3:30
Barr, John R. Barr, John R. Barran, Perdita. Barren, Perdita. Barren, Perdita. Barren, Perdita. Barren, Gabriel. Barrera, Joe. Ba	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 648MOC am 08:50TP 675WP 468MP 475TP 092ThOE pm 2:30WP 212WP 340WP 467TP 190MOG pm 3:30MOG pm 3:30MO pm 3:30MP 209TP 111MOC pm 3:10MO pm 3:30MP 174TOH pm 3:30MP 174TOH pm 3:30
Barr, John R. Barran, Perdita. Barrea-Gómez, Gabriel. Barreda-Gómez, Gabriel. Barreta, Joe. Barrera, Joe. Barreta, David. Barrett, David. Barrète-Mangote, Caroline. Barrète, David. Barrotklow, Jason. Barricklow, Jason. Barrington, William. Barrow, Mark Barry, Grant E. Barry, Simon. Barry III, Clifton. Barsch, Aiko.	WP 252 WP 357 ThOC am 09:50
Barr, John R. Barran, Perdita Barrea-Gómez, Gabriel Barreta, Joe Barrera, Joe Barrow, Mark Barrow, Joe Barry, Grant E Barry, Simon Barry III, Clifton Barsch, Aiko	WP 252 WP 357 ThOC am 09:50
Barr, John R. Barr, John R. Barran, Perdita. Barren, Perdita. Barren, Perdita. Barren, Gabriel. Barretine, Emily. Barrera, Joe. Barrera, Joe	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602 WP 649WP 675MOC am 08:50MOC am 08:50MP 475TP 002ThO 5pm 2:30WP 340WP 340WP 467TP 190MOG pm 3:30MOG am 08:50MP 208TP 111MOC pm 3:10MP 174TOH pm 3:30TP 638MP 174TOH pm 3:30TP 638MP 353TP 638MP 353TP 641
Barr, John R. Barr, John R. Barran, Perdita. Barreda-Gómez, Gabriel Barreda-Gómez, Gabriel Barrettine, Emily. Barrera, Joe. Barrera, Mandel. Barrett, David. Barrow, Mark. Barrow, Joen Barrow, Barro	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 653MOC am 08:50TP 675WP 468MP 475TP 002ThOE pm 2:30WP 340WP 468WP 468MP 340WP 475TP 100TP 111MOC pm 3:30MOG pm 3:30MP 209TP 111MOC pm 3:30MP 174TOH pm 3:30TP 666MP 353MP 174TOH pm 3:30TP 6666MP 353TP 6666MP 354TP 1214TOH pm 3:30TP 6666MP 350MP 174TOH pm 3:30TP 6666MP 350MP 350MP 350TP 214TOH pm 3:30TP 6666MP 350TP 214TOH pm 3:30TP 220TP 214
Barr, John R. Barr, John R. Barran, Perdita Barren, Perdita Barren, Perdita Barren, Gabriel Barrentine, Emily Barrera, Joe Barrera, Mandel Barrow, Mandel Barrow, Mark Barrow, Joe Barry, Bill Barry, Simon Barry III, Clifton Barsch, Aiko	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 648WP 653MOC am 08:50TP 675WP 468MP 478TP 1902ThOE pm 2:30WP 212WP 340WP 467TP 1902MOG pm 3:30MOG pm 3:30MOG pm 3:30MP 209TP 111MOC pm 3:30MP 209TP 191MOF pm 3:30MP 174TOH pm 3:30MP 174TOH pm 3:30MP 174TOH pm 3:30MP 353ThP 666MP 353TP 666MP 353TP 666MP 353TP 214MP 453
Barr, John R. Barr, John R. Barran, Perdita. Barreda-Gómez, Gabriel Barreda-Gómez, Gabriel Barrettine, Emily. Barrera, Joe. Barrera, Mandel. Barrett, David. Barrow, Mark. Barrow, Joen Barrow, Barro	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 648WP 653MOC am 08:50TP 675WP 468MP 478TP 1902ThOE pm 2:30WP 212WP 340WP 467TP 1902MOG pm 3:30MOG pm 3:30MOG pm 3:30MP 209TP 111MOC pm 3:30MP 209TP 191MOF pm 3:30MP 174TOH pm 3:30MP 174TOH pm 3:30MP 174TOH pm 3:30MP 353ThP 666MP 353TP 666MP 353TP 666MP 353TP 214MP 453
Barr, John R. Barr, John R. Barran, Perdita. Barreda-Gómez, Gabriel. Barreda-Gómez, Gabriel. Barrera, Joe. Barrera, Mandel. Barrow, Mark. Barrow, Jill. Barry, Simon. Barry Ill. Clifton. Barsch, Aiko. Barsch, Aiko. Barsch, Aiko. Barsch, Aiko. Barsch, Iris. Barsnes, Harald.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 648WP 685MOC am 08:50TP 675WP 468MP 475Th 959Th 959Th 92:30WP 340WP 340WP 340WP 340MOG pm 3:30MOG pm 3:30MP 209MOF pm 3:30MP 209TP 111MOC pm 3:10MOF pm 3:30MP 174TOH pm 3:30MP 174TOH pm 3:30MP 174TOH pm 3:30MP 174TOH pm 3:30MP 353Th 9 214MP 453Th 9 212MP 453TOB am 09:50
Barr, John R. Barr, John R. Barran, Perdita. Barran, Dec. Barreda-Gómez, Gabriel. Barreta, Joe. Barrera, Joe. Barrett, David. Barrow, Mark. Barr	WP 252 WP 357 ThOC am 09:50 TP 067 WP 547 WP 602 WP 648 WP 653 .MOC am 08:50 .MOC am 08:50 .MP 478 .MP 478 .MP 479 .MP 470 .MP
Barr, John R. Barr, John R. Barran, Perdita. Barreda-Gómez, Gabriel. Barreta. Joe. Barreran, Joe. Barren, David. Barrett, David. Barrett, David. Barrett, David. Barrett, David. Barrett, David. Barrett, David. Barrow, Mark.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 653MOC am 08:50MOC am 08:50MP 476MP 476MP 477TP 190MOG pm 3:30MOG pm 3:10MOG pm 3:10MP 174TOH pm 3:30MP 174TOH pm 3:30TP 666MP 353ThP 214TOH pm 3:30TP 665TOB am 09:50TOB am 09:50TOB am 09:50TOB am 09:50TP 651
Barr, John R. Barr, John R. Barran, Perdita. Barren, Perdita. Barren, Perdita. Barren, Perdita. Barren, Gabriel. Barretine, Emily. Barrera, Joe. Barrera, Joe. Barrera, Joe. Barrera-Arellano, Daniel. Barrère-Mangote, Caroline. Barrère-Mangote, Caroline. Barrett, David. Barricklow, Jason. Barricklow, Jason. Barrington, William. Barrow, Kory. Barrow, Mark. Barrow, Grant E. Barry, Simon. Barry III, Clifton. Barsch, Aiko. Barsch, Aiko. Barsch, Aiko. Barsch, Aiko. Barsch, Aiko. Barsnes, Harald. Bartberger, Michael D. Barth, Jay. Barth, Teresa.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 649WP 649WP 653MOC am 08:50MP 475TP 072WP 468MP 475TP 597TP 002ThOE pm 2:30WP 340WP 467TP 190MOG pm 3:30MOG pm 3:30MP 474TOH pm 3:10MP 453MP 174TOH pm 3:30TP 656MP 350MP 350TP 656MP 350TP 656TOB am 09:50TP 651TOB am 09:50TOB am 09:50
Barr, John R. Barr, John R. Barran, Perdita. Barreda-Gómez, Gabriel. Barreda-Gómez, Gabriel. Barretine, Emily. Barrera, Joe. Barrera, Mangote, Caroline. Barrett, David. Barricklow, Jason. Barricklow, Jason. Barricklow, Jason. Barrow, Mark. Barrow, Mark	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 653MOC am 08:50TP 675WP 468MP 475TP 1002ThOE pm 2:30WP 212WP 340WP 467TP 1002ThOE pm 3:30MOG pm 3:30MOG pm 3:30MP 209TP 111MOC pm 3:40MP 353MP 174TOH pm 3:30TP 666MP 353MP 174TOH pm 3:30TP 666MP 353TP 667TP 101TP 102TP 103MP 453TP 666MP 353TP 666MP 353TP 666MP 353TP 666MP 174TOH pm 3:30TP 666MP 174TOH pm 3:30TP 666MP 174TOH pm 3:30TP 666MP 174TOH pm 3:30TP 666MP 9:54
Barr, John R. Barr, John R. Barran, Perdita. Barren, Perdita. Barren, Perdita. Barren, Perdita. Barren, Gabriel. Barretine, Emily. Barrera, Joe. Barrera, Joe. Barrera, Joe. Barrera-Arellano, Daniel. Barrère-Mangote, Caroline. Barrère-Mangote, Caroline. Barrett, David. Barricklow, Jason. Barricklow, Jason. Barrington, William. Barrow, Kory. Barrow, Mark. Barrow, Grant E. Barry, Simon. Barry III, Clifton. Barsch, Aiko. Barsch, Aiko. Barsch, Aiko. Barsch, Aiko. Barsch, Aiko. Barsnes, Harald. Bartberger, Michael D. Barth, Jay. Barth, Teresa.	WP 252 WP 357 ThOC am 09:50TP 067WP 547WP 602WP 648WP 648WP 685MOC am 08:50TP 675WP 468MP 478Th 959Th 050WP 340WP 340WP 340WP 340WP 340MOG pm 3:30MOG pm 3:30MP 209Th 111MOC pm 3:10MP 209Th 950MP 353Th 656MP 353Th 914TP 666MP 353TP 656MP 453TP 656MP 453



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Bartlett, Michael G		Becker, Michael	
Bartlett, Michell J		Becker, Michael	
Bartmess, John		Becker, Michael	
Bartolo, MichaelBasanta-Sanchez, Maria		Becker, Peter B Becker, Wilhelm	
Basanta-Sanchez, Maria		Beckman, Joseph S	
Basik, Mark		Beckman, Joseph S	
Basile, Franco		Beckmann, Janine	
Basiri, Babak		Bedair, Mohamed	
Basler, Anne	ThP 513	Bednarik, Antonin	TOC am 10:10
Basler, Christopher		Beecher, Chris	MP 390
Bassani-Sternberg, Michal	TP 538	Beecher, Chris	
Bassey, Ekong		Beecher, Chris	
Bassey, Ekong		Beecher, Chris	
Bassilian, Sara		Beecher, ChristopherBeekman, Christopher	
Bassy, Ekong Bastani, Behnam		Beekman, Christopher R	
Bastos, Wagner Leonel		Beekman, Christopher R	
Bastos, Wagner Leonel		Beeston, Helen S	
Basu, Partha		Beger, Richard	
Basu, Sankha S		Beharry, Kay	
Basu, Sumanta		Behling, Alex	
Bataglion, Giovana		Behrend, Knut	
Batard, Thierry		Behring, Jessica	
Batarseh, Amani		Behring, Jessica B	
Bateman, Kevin		Belker Janean Dorto	
Bateman, Kevin Bateman, Kevin		Bekker-Jensen, Dorte Bekker-Jensen, Dorte B	
Bateman, Kevin		Bekker-Jensen, Dorte B	
Bateman, Kevin		Beland, Frederick	
Bateman, Kevin		Bélanger, Philippe	
Bateman, Randall	TP 652	Bélanger, Philippe	ThP 340
Bateman, Randall J		Bélanger, Philippe	
Bates, Rachel		Belau, Eckhard	
Batoon, Patrickhenry		Belaz, Katia Roberta	
Batton, Patrickhenry		Belbachir, Mohammed	
Batth, TanveerBauchet, Luc		Belford, Michael	
Baudouin, Christophe		Belford, Michael	
Bauer, Kerry		Belford, Michael	
Baughman, Joshua		Belford, Michael	
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Bäumlisberger, Marion		Belgacem, Omar	
Bautista, Ramer		Belianinov, Alex	
Bayfield, Mark		Belisle, Pascal	
Bayly, Ben Baz, Rachid		Bell, Bruce	
Beals, John		Bell. David	
Beasley, Rebecca		Bell, Ryan J	
Beaudry, Chris		Bellina, Bruno	
Beaudry, Francis		Bell-Temin, Harris	
Beaudry, Francis		Bell-Temin, Harris	
Beaudry, Francis		Belov, Arseniy M	
Beaumont, Maribel		Belov, Arseniy M	
Beaumont, Vahri		Belov, Mikhail	
Beauvois, Romain		Belov, Mikhail Belov, Mikhail	
Beccaria. Marco		Belov, Mikhail	
Becerra, Aniuska		Belov, Mikhail	
Becher, Dörte		Belov, Mikhail	
Becher, François	MOE pm 2:50	Belsky, Jennifer	ThP 260
Bechill, Michael		Belsom, Adam	
Beck, Alain		Benari, Yair	
Beck, Alain		Benecewicz, Patrick	
Beck, Erling		Benešová, Iva	
Beck, Jonathan		Bengali, Kathleen	
Beck, MichaelBeck, Scarlet		Ben-Hamidane, Hisham Benická, Sandra	
Becker, Chris		Benigni, Paolo	
Becker, Chris		Benjamin, Elfrida R	
Becker, Chris		Benjamin, Elfrida R	
Becker, Chris H		Benner, Jr., Bruce A	
Becker, Daniel		Bennett, Alexander	
Becker, Michael		Bennett, Alexander	
Becker, Michael		Bennett, Dylan	
Becker, Michael		Bennett, George	
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Becker, Michael	TOA am 09:50
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Becker, Michael	
Becker, Michael Becker, Peter B	
Becker, Wilhelm	TOB am 10:10
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Beeston, Helen S	
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Behrend, Knut	TP 576
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Bekker-Jensen, Dorte B	
Bekker-Jensen, Dorte B	
Beland, Frederick	
Bélanger, Philippe Bélanger, Philippe	
Belanger, Philippe	
Belau, Eckhard	
Belaz, Katia Roberta	
Belbachir, Mohammed	
Belbin, Thomas	
Belford, MichaelBelford, Michael	MP 109
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Bell, Ryan J	ThP 025
Bellina, Bruno	
Bell-Temin, Harris Bell-Temin, Harris	InP 539
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Belov, Mikhail	
Belov, MikhailBelov, Mikhail	
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Bengali, KathleenBen-Hamidane, Hisham	
Benická, SandraBenická, Sandra	
Benigni, Paolo	
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Benny Klimek, Margaret E	WP 302
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Benter, Thorsten Benter, Thorsten	MP 054
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Beri, Joshua Berkaw, Mary	
Berkowitz, Dan	
Bern, Marshall W	
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Bern, Marshall WBern, Marshall W	TP 253 WP 664 WP 666
Bern, Marshall WBern, Marshall WBernal, Corina	TP 253 WP 664 WP 666 ThP 167
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Bern, Marshall W Bern, Marshall W Bernal, Corina Bernhard, Dick Bernhardt, Oliver	TP 253 WP 664 WP 666 ThP 167 ThP 046 ThP 453
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Bern, Marshall W	TP 253 WP 664 WP 666 ThP 167 ThP 046 ThP 453 .WOB am 08:30 TP 024 MP 004
Bern, Marshall W	TP 253WP 664WP 666ThP 167ThP 046ThP 453WOB am 08:30TP 024MP 004ThOB pm 2:50
Bern, Marshall W	TP 253WP 664WP 666ThP 167ThP 046ThP 453 .WOB am 08:30TP 024MP 004MP 593
Bern, Marshall W	TP 253WP 664WP 666ThP 167ThP 046ThP 453WOB am 08:30TP 024MP 004ThOB pm 2:50MP 593TP 507MP 510
Bern, Marshall W	TP 253WP 664WP 666ThP 167ThP 046ThP 453WOB am 08:30TP 024MP 504MP 593TP 507MP 510
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Bern, Marshall W Bern, Marshall W Bernal, Corina Bernhard, Dick Bernhardt, Oliver	TP 253WP 664WP 666ThP 167ThP 046ThP 453WOB am 08:30TP 024MP 004MP 593TP 507MP 510MP 510MP 556MP 556



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Bérubé, Eugénie-Raphaëlle		•	
Besemer, Matthieu		Bilodeau, Jason	
Bessant, Conrad		Binai, Nadine A	
Bessette, Bradley		Bindel, Fabian	
Bessonneau, Vincent		Binelli, Mário	
Bestard-Escalas, Joan		Binkley, Joe	
Bestard-Escalas, Joan		Binkley, Joe	
Betancourt, Stella Betchy, Emily		Binkley, Joe	
Betchy, Emily Betchy, Emily		Binkley, Joe Binkley, Joe	
Betgovargez, Edna		Birch, Rennie	
Betgovargez, Edna		Bird, Gregory	
Bethard, Jennifer		Bird, Susan	
Bethard, Jennifer R		Birdsall, Robert	
Bett, Kirstin E		Birdsall, Robert	
Beu, Steve		Birdsall, Robert	
Beu, Steven C		Birdsall, Robert	
Beu, Steven C		Birsan, Alex	
Beu, Steven C		Birsan, Alex	
Beveridge, Rebecca		Birsan, Alex	
Beveridge, Rebecca		Birsan, Alex	
Beyer, Andreas		Birsan, Alex	
Bezard, Erwan		Birsan, Alex	
Bhagwat, Aditya M		Birsan, Alex	
Bhandari, Deepak		Bisbicos, Tommy	
Bhandari, Dhaka		Bischoff, Daniel	
Bhandarkar, Deepti		Bischoff, Rainer	ThP 6
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Bhanu, Natarajan		Bittner, Melinda	
Bhanu, Natarajan V		Bittremieux, Wout	
Bhasin, Neha		Bittremieux, Wout	
Bhasin, Neha		Bittremieux, Wout	
Bhasin, Neha		Bjorling, Dale	
Bhasin, Neha		Blachon, Gregory	
Shasin, Neha		Blachon, Gregory	
Shasin, Shalender		Blachon, Gregory	
Shat, Vadiraja		Blachon, Gregory	
Shat, Vadiraja		Black David	
Shat, Vadiraja		Black, David	
Shat, Vadiraja		Blackburn, Kevin	
Bhat, Vadiraja B Bhat, Vadiraja B		Blackburn, Kevin Blackburn, Kevin	
Shatia, Vivek		Blackburn, Kevin	
Shattacharya, Samit		Blackburn, Mary	
Shattacharya, Sharmila		Blackburn, Mary	
Bhattacharya, Subhra		Blackburn, Mary	
Shawal, Ruchika		Blackburn, Mary	
Shawal, Ruchika		Blackburn, Mary	
Bhone, Ankush		Blackler, Adele	
Shone. Ankush		Bladergroen, Marco	
Bhone, Ankush		Bladergroen, Marco R	
3i , Huichang		Blair, lan	
3i , Lijun		Blair, lan A	
3i, Ning		Blair, lan A	
3i , Xuezhi		Blair, lan A	
Bi, Yumin		Blair, lan A	WP 30
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Bian, Chao		Blakeley-Ruiz, J. Alfredo	
Bian, Liangqiao		Blakeman, Kenion	
Bian, Qi		Blakney, Greg T	
Sichet, Daniel G		Blakney, Greg T	
Biegel, Jason		Blakney, Greg T	
ielik, Alicia		Blakney, Greg T	
Bier, Mark E		Blakney, Greg T	
Bier, Mark E		Blanchard, Gary	
Bierbaum, Veronica M		Blanco Tirado, Cristian	
Bierkandt, Thomas		Blanco-Tirado, Cristian	
Bierstedt, Andreas		Blanco-Tirado, Cristian	
Biesenbruch, Sabine		Blanco-Tirado, Cristian	
Biesenthal, Tom		Bland, Alison	
Bilbao, Aivett		Blank, Dennis	
Bilkova, Zuzana Billing, Anja M		Blank, Michael	
		Blank, Michael	エトロク

Bilmes, Jeffrey	WP 313
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Birdsall, Robert	ThP 601
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Birdsall, Robert	WP 238
Birdsall, Robert	
Biraan May	WF 071
Birsan, Alex	IVIP 237
Birsan, Alex	MP 329
Birsan, Alex	ThOH am 09:50
Birsan, Alex	
Birsan, Alex	
Birsan, Alex	TP 307
Birsan, Alex	
Bisbicos, Tommy	WP 019
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Bischoff, Rainer	ThP 615
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Biswas, Arijit	WP 265
Biswas, Deb	ThP 260
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Bitterman, Peter B	
Bittner, Melinda	
Bittremieux, Wout	WF 001
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Bittremieux, Wout	
Bjorling, Dale	
Blachon, Gregory	
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Blachon, Gregory	ThP 203
Blachon, Gregory Blachon, Gregory	ThP 203 ThP 204
Blachon, Gregory Blachon, Gregory Blachon, Gregory	ThP 203 ThP 204 TP 307
Blachon, GregoryBlachon, GregoryBlachon, GregoryBlack, David	ThP 203ThP 204TP 307ThP 580
Blachon, Gregory	ThP 203ThP 204TP 307ThP 580MOD pm 2:30
Blachon, Gregory	ThP 203ThP 204TP 307ThP 580MOD pm 2:30
Blachon, Gregory	ThP 203ThP 204TP 307ThP 580MOD pm 2:30MP 496
Blachon, Gregory Blachon, Gregory Blachon, Gregory Black, David Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin	ThP 203ThP 204TP 307ThP 580MOD pm 2:30MP 496
Blachon, Gregory Blachon, Gregory Blachon, Gregory Black, David Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin	ThP 203ThP 204TP 307ThP 580MOD pm 2:30MP 496TP 484WP 590
Blachon, Gregory Blachon, Gregory Blachon, Gregory Black, David Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103
Blachon, Gregory Blachon, Gregory Blachon, Gregory Black, David Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackburn, Mary	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 103
Blachon, Gregory Blachon, Gregory Blachon, Gregory Black, David Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 103 ThP 153
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackourn, Greyin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary Blackburn, Mary	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackoun, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 103 ThP 295 TP 066 TP 350
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackoun, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 103 ThP 295 TP 066 TP 350 MP 306
Blachon, Gregory Blachon, Gregory Blachon, Gregory Black, David Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 306
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 302 TP 078
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 TP 322 TP 078
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Bladergroen, Marco	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 302 TP 77 TP 078 TP 223 TP 204
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Greyin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Bladergroen, Marco Bladergroen, Marco Bladergroen, Marco Bladir, Ian Blair, Ian A	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 322 TP 078 TP 223 TP 223 TP 204 MP 346
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Black, David Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Blackgroen, Marco Bladergroen, Marco Blair, Ian Blair, Ian Blair, Ian A Blair, Ian A	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 306 MP 302 TP 078 TP 220 TP 2204 MP 346 WOH am 09:10
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Black, David Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackburn	ThP 203 ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 302 TP 078 TP 204 MP 322 TP 078 TP 203 TP 204 MP 346 WOH am 09:10
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Greyin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele. Bladergroen, Marco Bladergroen, Marco R. Blair, Ian A.	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 322 TP 078 TP 223 TP 224 MP 346 WOH am 09:101 MP 301 ThP 025
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Greyin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele. Bladergroen, Marco Bladergroen, Marco R. Blair, Ian A.	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 322 TP 078 TP 223 TP 224 MP 346 WOH am 09:101 MP 301 ThP 025
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Greyin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Bladergroen, Marco Bladergroen, Marco Bladergroen, Marco Blader, Ian Blair, Ian A Blair, Ian A Blair, Ian A Blair, Ian A Blaike, Donald R Blakeley-Ruiz, J. Alfredo	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 103 MP 153 ThP 295 ThP 295 TP 066 TP 350 MP 302 TP 078 TP 223 TP 204 MP 346 WOH am 09:10 ThP 025 MP 630
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Greyin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Bladergroen, Marco Bladergroen, Marco Blair, Ian Blair, Ian A	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 302 TP 078 TP 223 TP 244 MP 346 WOH am 09:10 WP 301 ThP 025 MP 630 ThP 024
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Bladergroen, Marco Bladergroen, Marco Bladir, Ian Blair, Ian A Blair, Jan A Bl	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 302 TP 078 TP 223 TP 223 TP 204 MP 306 WP 301 WP 301 MP 306 MP 307 TP 108 MP 308 MP 308 MP 308
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackburn, Maroo Blackery Adele. Bladergroen, Marco Blair, lan Blair, lan Blair, lan A Blair, lan A Blair, lan A Blair, lan A Blake, Donald R Blakeeley-Ruiz, J. Alfredo Blakeman, Kenion Blakney, Greg T. Blakney, Greg T.	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 302 TP 204 MP 306 MP 302 TP 203 TP 204 MP 306 MP 306 MP 302 TP 1078 TP 203 TP 204 MP 306 MP 346 WOH am 09:10 ThP 025 MP 630 MP 630
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackery, Greg T. Blakney, Greg T. Blakney, Greg T. Blakney, Greg T.	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 302 TP 078 TP 223 TP 223 TP 224 MP 346 WOH am 09:10 WP 301 ThP 025 MP 630 ThP 024 MP 630 MP 024 MP 024 MP 024 MP 025
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Bladergroen, Marco Bladergroen, Marco R. Blair, Ian A. Blakeley-Ruiz, J. Alfredo Blakewan, Kenion Blakney, Greg T.	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 ThP 295 TP 066 TP 350 MP 302 TP 078 TP 223 TP 204 MP 322 TP 078 TP 204 MP 301 ThP 025 MP 630 ThP 024 MP 081 MP 081 MP 081 TOA pm 2:50 TP 125
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Bladergroen, Marco Bla	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 302 TP 078 TP 223 TP 204 MP 301 ThP 205 MP 301 ThP 025 MP 630 ThP 024 MP 081 MP 219 TOA pm 2:50 TP 125 TP 236
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackourn, Greyon Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele Bladergroen, Marco Bladergroen, Marco Bladir, Ian Blair, Ian A Blair, Ian B Blakey, Greg T Blakney, Greg T	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 322 TP 078 TP 223 TP 204 MP 346 WOH am 09:10 WP 301 ThP 025 MP 630 ThP 024 MP 219 TOA pm 2:50 TP 236 WP 418
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackon, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackb	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 MP 306 MP 306 MP 306 MP 306 MP 302 TP 223 TP 204 MP 306 MP 306 MP 322 TP 078 TP 223 TP 204 MP 306 MP 306 MP 322 TP 078 TP 223 TP 204 MP 306 MP 326 TP 250 MP 306 MP 322 TP 125 TP 266 MP 307 ThP 025 MP 630 ThP 025 MP 630 ThP 024 MP 811 MP 219 TOA pm 2:50 TP 125 TP 236 WP 418 MP 663
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blacker, Marco Bladergroen, Marco Blackery, Gregon, Marco Blair, Ian A	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 TP 223 TP 204 MP 306 MP 306 MP 307 TP 208 TP 209 TP 219 TOA pm 2:50 TP 236 TP 236 TP 236 TP 236 TP 246 TP 248 MP 663 MP 418 MP 663
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele. Bladergroen, Marco Bladergroen, Marco R. Blair, Ian A. Blakeley-Ruiz, J. Alfredo Blakeman, Kenion Blakney, Greg T.	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 322 TP 078 TP 223 TP 204 MP 301 MP 301 ThP 025 MP 630 ThP 025 MP 630 ThP 025 MP 630 ThP 024 MP 9 811 MP 219 TOA pm 2:50 TP 125 TP 236 WP 418 MP 683 MP 012 MP 611
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackourn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackler, Adele. Blaickler, Adele. Blaidergroen, Marco Bladergroen, Marco R. Blair, Ian A. Blakeley-Ruiz, J. Alfredo Blakeman, Kenion Blakney, Greg T.	ThP 203 ThP 204 TP 207 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 322 TP 078 TP 223 TP 204 MP 301 ThP 225 MP 630 ThP 025 MP 630 ThP 025 MP 630 ThP 025 MP 630 ThP 024 MP 841 MP 129 TOA pm 2:50 MP 630 MP 630 ThP 024 MP 681
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackourn, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Bladergroen, Marco Bl	ThP 203 ThP 204 TP 207 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 302 TP 078 MP 302 TP 078 TP 223 TP 204 MP 301 ThP 225 MP 630 ThP 025 MP 630 ThP 025 MP 630 ThP 024 MP 811 MP 219 TOA pm 2:50 TP 236 WP 418 MP 663 MP 012 MP 663 MP 012 MP 666 MP 129 MP 666
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackon, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blacker, Adele Bladergroen, Marco Blair, Ian Blair, Ian Blair, Ian Blair, Ian Blair, Ian A Blake, Donald R Blair, J Blakney, Greg T Blanchard, Gary Blanco Tirado, Cristian Blanco-Tirado, Cristian Blanco-Tirado, Cristian Bland, Alison Blank, Dennis	ThP 203 ThP 204 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 MP 306 MP 306 MP 306 MP 308 TP 223 TP 204 MP 306 MP 306 MP 322 TP 078 TP 223 TP 204 MP 306 MP 306 MP 322 TP 125 TP 266 MP 306 MP 307 MP 418 MP 643 MP 643 MP 644 MP 448 MP 646 MP 486 MP 586
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blackery, Greg Narco Blair, Ian A Blair, Jan A Blair, Jan A Blair, Jan A Blair, Jan A Blakey, Greg T Blakney, Greg T Blakn	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 306 MP 306 MP 306 MP 306 MP 306 MP 307 TP 204 MP 307 TP 208 MP 630 ThP 025 MP 630 ThP 024 MP 081 MP 219 TOA pm 2:50 TP 125 TP 236 MP 418 MP 663 MP 418
Blachon, Gregory Blachon, Gregory Blachon, Gregory Blachon, Gregory Blackon, Gregory Blackon, Gregory Blackburn, Kevin Blackburn, Kevin Blackburn, Kevin Blackburn, Mary Blacker, Adele Bladergroen, Marco Blair, Ian Blair, Ian Blair, Ian Blair, Ian Blair, Ian A Blake, Donald R Blair, J Blakney, Greg T Blanchard, Gary Blanco Tirado, Cristian Blanco-Tirado, Cristian Blanco-Tirado, Cristian Bland, Alison Blank, Dennis	ThP 203 ThP 204 TP 307 ThP 580 MOD pm 2:30 MP 496 TP 484 WP 590 MP 103 MP 153 ThP 295 TP 066 TP 350 MP 306 MP 306 MP 306 MP 306 MP 306 MP 306 MP 307 TP 204 MP 307 TP 208 MP 630 ThP 025 MP 630 ThP 024 MP 081 MP 219 TOA pm 2:50 TP 125 TP 236 MP 418 MP 663 MP 418

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Blank, Michael	TP 157
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Blanksby, Stephen J	10C pm 3:10
Blasko, Juraj Blatnik, Matt	IVIP 506
Blatnik, Matt	10H alli 09.10
Blatt, Celso	
Blau, C. Anthony	ThOC am 00:50
Blau, Justin	TD 220
Rlau luetin	WP 504
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Bleiholder, Christian	MOA nm 3:30
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Bocharova, Vera	WP 437
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Boehm, Guenter	TD 586
Boehringer, Daniel	WOF am 10:10
Boeke, Marc	MP 060
Boekelheide, Kim	ThP 465
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Bogdanoff, Walter	WP 666
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Bohn, Dieter Bohn, Paul Boisvert, Louis-Charles	MP 031 TP 364 MP 276
Bohn, Dieter Bohn, Paul Boisvert, Louis-Charles Boivin, Guy	MP 031 TP 364 MP 276 TP 514
Bohn, Dieter Bohn, Paul Boisvert, Louis-Charles Boivin, Guy Boja, Emily	MP 031 TP 364 MP 276 TP 514 MOC pm 3:50
Bohn, Dieter Bohn, Paul Boisvert, Louis-Charles Boivin, Guy Boja, Emily Bojar, Richard	MP 031MP 364MP 276TP 514MOC pm 3:50TP 664
Bohn, Dieter Bohn, Paul Boisvert, Louis-Charles Boivin, Guy Bojar, Emily Bojar, Richard Bojko, Barbara	MP 031MP 276MP 276TP 514MOC pm 3:50TP 664MOH pm 3:50
Bohn, Dieter	MP 031MP 364
Bohn, Dieter	MP 031P 364MP 276TP 514MOC pm 3:50TP 664MOH pm 3:50ThOA pm 3:10
Bohn, Dieter	MP 031P 364MP 276TP 514MOC pm 3:50TP 664MOH pm 3:50ThOA pm 3:10WP 010
Bohn, Dieter	MP 031
Bohn, Dieter	MP 031TP 364MP 276TP 514MOC pm 3:50TP 664MOH pm 3:50THOA pm 3:10WP 010WP 446WP 506MP 161
Bohn, Dieter	MP 031TP 364MP 276TP 514MOC pm 3:50TP 664MOH pm 3:50THOA pm 3:10WP 010WP 446WP 506MP 161MP 179
Bohn, Dieter	MP 031TP 364MP 276TP 514MOC pm 3:50TP 664MOH pm 3:50ThOA pm 3:10WP 010WP 446WP 506MP 161MP 179TP 659
Bohn, Dieter	MP 031TP 364MP 276TP 514MOC pm 3:50TP 664MOH pm 3:50ThOA pm 3:10WP 010WP 446WP 506MP 161MP 179TP 659TP 659
Bohn, Dieter	MP 031
Bohn, Dieter	MP 031TP 364MP 276TP 514MOC pm 3:50TP 664MOH pm 3:50TH 064MOH pm 3:10WP 010WP 446WP 506MP 161MP 179TP 659Th 600MP 237MP 329ThP 181ThP 204ThP 204
Bohn, Dieter	MP 031



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Bomgarden, Ryan	
Bomgarden, Ryan	TP 583
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Bond, Kevin	WP 608
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Bondarenko, Pavel	MP 521
Bondarenko, Pavel	TP 533
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Bongers, Jacob	TP 513
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Bonnel, David	
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Boons, Geert-Jan	VVP 222
Booth, Catherine	TP 272
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Borchers, Christoph	
Borchers, Christoph	MP 377
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Borchers, Christoph	
Borchers, Christoph	
Borchers, Christoph	ThP 623
Borchers, Christoph	TP 481
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Borchers, Christoph	
Borchers, Christoph	WOF pm 2:30
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Borchers, Christoph	WP 317
Borchers, Christoph	WD 240
Borchers, Christoph	VF 349
Borchers, Christoph	
Borchers, Christoph	
Borchers, Christoph	WP 614
Borchers, Christoph	
Borchers, Christoph H	WD 247
Borchers, Chilistoph H	VVF 347
Bordag, Natalie	IP 1//
Borges Lima, Diogo	ThP 437
Borgmann-Winter, Karin E	MP 544
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Borisov, Roman	IVIP 003
Borisova, Anna	ThOA pm 3:30
Borland, Megan M	
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Bormotov, Denis	WP 272 ThOA pm 3:30
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Bormotov, Denis	
Bormotov, Denis Bormotov, Denis Boronina, Tatiana N Borovcová, Lucie	
Bormotov, Denis	WP 272ThOA pm 3:30
Bormotov, Denis Bormotov, Denis Boronina, Tatiana N. Borovcová, Lucie Borràs, Eva. Borysik, Antoni Boscaro, Francesca Boschi, Donatella Boschmans, Jasper Boschmans, Jasper	
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Bormotov, Denis Bormotov, Denis Bormotov, Denis Boronina, Tatiana N. Borovcová, Lucie Borràs, Eva Borysik, Antoni Borysik, Antoni Boscaro, Francesca Boschi, Donatella Boschmans, Jasper Boschmans, Jasper Bose, Ron Boss, Yuval Bossée, Anne.	WP 272ThOA pm 3:30
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Bormotov, Denis Bormotov, Denis Bormotov, Denis Boronina, Tatiana N. Borovcová, Lucie Borràs, Eva. Borysik, Antoni Borysik, Antoni Bossaro, Francesca Boschi, Donatella Boschmans, Jasper Bose, Ron. Boss, Yuval Bossée, Anne. Bossmeyer, Jens. Boström, Tove Boström, Tove Both, Jean-Pierre Bothner, Brian Botrè, Francesco Botrè, Francesco	WP 272ThOA pm 3:30
Bormotov, Denis Bormotov, Denis Bormotov, Denis Bormotov, Denis Boronina, Tatiana N. Borovcová, Lucie Borràs, Eva Borysik, Antoni Borysik, Antoni Boscaro, Francesca Boschi, Donatella Boschmans, Jasper Boschmans, Jasper Boschmans, Jasper Bose, Ron Boss, Yuval Bossée, Anne Bossmeyer, Jens Boström, Tove Boström, Tove Boström, Tove Both, Jean-Pierre Bothner, Brian Botrè, Francesco	WP 272ThOA pm 3:30

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Bouchard, Luc	
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Bouchekara, Mohamed	
Bouchonnet, Stéphane	
Boudreau, AmandineWOI	
Boudreau, Nadine	
Boughton, Berin	
Bouhifd, Mounir	
Boukhedimi, Yasmin	
Boulgakov, Alexander	
Bourcier, Sophie	
Bourissou, Didier	
Bourner, Maureen	
Boutaghou, M. Nazim	
Boutaghou, Mohamed Nazim	
Boutin, Herve	
Boutin, Hervé	
Boutin, Michel	
Boutte, Angela	
Bovee, Michael	
Bowden, John	
Bowden, John	
Bowen, Chester LMOI	H pm 3:10
Bowen, Chester L	WP 515
Bowers, Michael T	
Bowman, Christopher	ThP 488
Bowman, ChristopherBowman, Michael	ThP 488 MP 238
Bowman, Christopher	ThP 488 MP 238 MP 680
Bowman, Christopher	ThP 488 MP 238 MP 680 WP 506
Bowman, Christopher	ThP 488 MP 238 MP 680 WP 506 WP 010
Bowman, Christopher	ThP 488 MP 238 MP 680 WP 506 WP 010 TP 675
Bowman, Christopher	ThP 488 MP 238 MP 680 WP 506 WP 010 TP 675 C pm 2:30
Bowman, Christopher	ThP 488 MP 238 MP 680 WP 506 WP 010 TP 675 C pm 2:30 MP 246
Bowman, Christopher	ThP 488 MP 238 MP 680 WP 506 WP 010 TP 675 C pm 2:30 MP 246 ThP 682
Bowman, Christopher	ThP 488MP 238MP 680WP 506WP 010TP 675 C pm 2:30MP 246ThP 682TP 023
Bowman, Christopher	ThP 488MP 238MP 680WP 506WP 010TP 675 C pm 2:30MP 246ThP 682TP 023ThP 397
Bowman, Christopher	ThP 488 MP 238 MP 680 WP 506 WP 010 TP 675 C pm 2:30 MP 246 TP 682 TP 023 TP 397 TP 651
Bowman, Christopher	ThP 488MP 238MP 680WP 506WP 010TP 675 C pm 2:30MP 246TP 023ThP 682TP 023ThP 397TP 651
Bowman, Christopher	ThP 488 MP 238 MP 680 WP 506 WP 010 TP 675 C pm 2:30 MP 246 ThP 682 TP 023 ThP 397 TP 651 TP 655 TP 655
Bowman, Christopher	ThP 488MP 238MP 680WP 506WP 010TP 675 C pm 2:30MP 246ThP 682TP 023ThP 397TP 651TP 650TP 650MP 097
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel. Boyaco, Ezel. Boyano, María D Boyarkin, Oleg Boyee, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyee, Barry Boyee, Barry	ThP 488 MP 238 MP 680 WP 506 WP 506 WP 675 C pm 2:30 MP 246 ThP 682 TP 023 ThP 397 TP 651 TP 650 MP 097 MP 673 MP 682
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyarkin, Oleg Boyace, Gregory Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert E Boyer, Anne Boyes, Barry	ThP 488MP 238MP 680WP 506WP 506MP 246ThP 682TP 623ThP 397TP 651TP 650MP 673MP 682MP 399
Bowman, Christopher	ThP 488MP 238MP 680WP 506WP 010TP 675 C pm 2:30MP 246ThP 682TP 023TP 651TP 655TP 650MP 673MP 682
Bowman, Christopher	ThP 488MP 238MP 680WP 506WP 010TP 675 C pm 2:30MP 246ThP 682TP 023TP 651TP 655TP 650MP 673MP 682ThP 399TP 399TP 405 am 09:50
Bowman, Christopher	ThP 488MP 238MP 680WP 506WP 010TP 675 C pm 2:30MP 246ThP 682TP 023ThP 397TP 651TP 650MP 097MP 673MP 682ThP 399MP 673MP 682ThP 399MP 673MP 682ThP 399
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel. Boyaci, Ezel. Boyano, María D Boyarkin, Oleg Boyee, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyer, Anne Boyes, Barry Boyen, Michael Boyne, Michael	ThP 488MP 238MP 680WP 506WP 506WP 675TP 675TP 682TP 923TP 651TP 651TP 652MP 697MP 673MP 682ThP 399TP 405 am 09:50 am 09:50MP 202
Bowman, Christopher	ThP 488MP 238MP 680WP 506WP 506WP 675TP 675TP 682TP 651TP 651TP 650MP 697MP 673MP 682ThP 399TP 405 am 09:50MP 202TP 225WP 569
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel. Boyaci, Ezel. Boyano, María D Boyarkin, Oleg. TOG Boyce, Gregory. Boyce, Gregory. Boyce, Gregory. Boychenko, Alexander Boyd, Robert. Boyd, Robert E Boyer, Anne. Boyes, Barry Boyes, Boyes, Barry Boyes, Barry Boyes, Boyes, Boyes, Boyes, Boyes, Boyes, Michael Boyne, Michael	ThP 488MP 238MP 680WP 506WP 506MP 246ThP 682TP 651TP 651TP 655MP 673MP 682ThP 399TP 405 am 09:50MP 202TP 225MP 202TP 225MP 682ThP 399TP 405
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel. Boyaci, Ezel. Boyano, María D Boyarkin, Oleg. Boyce, Gregory. Boyce, Gregory. Boyce, Gregory. Boychenko, Alexander Boyd, Robert Boyd, Robert Boyd, Robert E. Boyer, Anne Boyes, Barry Boyes, Barr	ThP 488MP 238MP 680WP 506WP 506WP 675MP 246ThP 682ThP 651ThP 651ThP 653MP 697MP 682ThP 399ThP 399ThP 405 am 09:50MP 202ThP 202ThP 202ThP 202ThP 699MP 673
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel. Boyaci, Ezel. Boyano, María D Boyarkin, Oleg. Boyce, Gregory. Boyce, Gregory. Boyce, Gregory. Boychenko, Alexander Boyd, Robert Boyd, Robert Boyd, Robert E. Boyer, Anne Boyes, Barry Boyes, Barr	ThP 488MP 238MP 680WP 506WP 506WP 675MP 246ThP 682ThP 651ThP 651ThP 653MP 697MP 682ThP 399ThP 399ThP 405 am 09:50MP 202ThP 202ThP 202ThP 202ThP 699MP 673
Bowman, Christopher. Bowman, Michael Bowman, Michael Boyaci, Ezel. Boyaci, Ezel. Boyano, María D Boyarkin, Oleg. TOG Boyce, Gregory. Boyce, Gregory. Boyce, Gregory. Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyer, Anne. Boyes, Barry Boyes, Ba	ThP 488MP 238MP 680WP 506WP 506WP 675MP 246ThP 682TP 651TP 650MP 687MP 689MP 689MP 697MP 689MP 689MP 689MP 689MP 689MP 689MP 689MP 689MP 680MP 681
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyano, María D Boyarkin, Oleg Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyer, Anne Boyes, Barry Boyne, Michael Boyne, Michael Boyne, Michael Boyne, Michael Boyne II, Michael T Brabeck, Gregory Brachthäuser, Yessica Brachthäuser, Yessica Brachthäuser, Yessica Bradley, Joel	ThP 488MP 238MP 680WP 506WP 506WP 675MP 246ThP 682TP 651TP 653MP 673MP 682ThP 399TP 405 am 09:50 am 09:50MP 202TP 225WP 569ThP 629MP 673MP 662ThP 629MP 067MP 663ThP 629MP 065MP 065MP 066MP 063
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyaci, Ezel Boyarkin, Oleg Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert E. Boyer, Anne Boyes, Barry Boyne, Michael Boyne,	ThP 488MP 238MP 680WP 506WP 506WP 246ThP 675 C pm 2:30MP 246ThP 682ThP 397TP 653MP 682ThP 399TP 225MP 202MP 202ThP 399TP 405 am 09:50MP 202ThP 629MP 673MP 663MP 663
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyaro, María D Boyarkin, Oleg	ThP 488MP 238MP 680WP 506WP 506WP 246ThP 675 C pm 2:30MP 246ThP 682TP 651TP 655TP 650MP 097MP 682ThP 399TP 405 am 09:50MP 202TP 225WP 569MP 677MP 663MP 061MP 063MP 683
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyano, María D. Boyarkin, Oleg Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert Boyd, Robert Boyes, Barry Boyne, Michael Boyne, Micha	ThP 488MP 238MP 680WP 506WP 506WP 506WP 246TP 675TP 682TP 682TP 651TP 655MP 697MP 682TP 399TP 405MP 682ThP 399TP 405MP 683TP 589TP 588TP 588TP 589MP 631MP 631MP 631MP 631MP 633
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyano, María D. Boyarkin, Oleg. Boyce, Gregory. Boyce, Gregory. Boyce, Gregory. Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyer, Anne Boyes, Barry Boyes,	ThP 488MP 238MP 680WP 506WP 506WP 675TP 675TP 682TP 682TP 651TP 650MP 697MP 673MP 682TP 399TP 405 am 09:50 am 09:50 am 09:50MP 202MP 629MP 631MP 6631MP 633MP 631MP 631MP 631MP 631MP 631MP 631MP 631MP 631MP 631MP 631
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaco, Ezel Boyano, María D Boyarkin, Oleg Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyer, Anne Boyes, Barry Boyes, Barr	ThP 488MP 238MP 680WP 506WP 506WP 675MP 246ThP 682TP 651TP 655MP 683MP 683MP 682ThP 399TP 405 am 09:50MP 202TP 225WP 569ThP 629MP 061MP 063TP 588TP 588TP 589WP 631MP 633MP 633MP 641
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaco, Ezel Boyano, María D Boyarkin, Oleg Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyer, Anne Boyes, Barry Boyes, Barr	ThP 488MP 238MP 680WP 506WP 506WP 675MP 246ThP 682ThP 399ThP 650MP 673MP 682ThP 399ThP 399ThP 399ThP 399ThP 399ThP 399ThP 399ThP 405 am 09:50 am 09:50MP 682ThP 629MP 067MP 663ThP 569ThP 629MP 063MP 663ThP 588ThP 589WP 631MP 641ThP 199
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyano, María D Boyarkin, Oleg Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyer, Anne Boyes, Barry Boyes, Barr	ThP 488MP 238MP 680WP 506WP 506WP 246ThP 675 C pm 2:30MP 246ThP 682ThP 397TP 405 am 09:50MP 202ThP 399TP 225MP 682ThP 629MP 067MP 663MP 663MP 663MP 663MP 663MP 683MP 683MP 684ThP 629MP 061MP 063MP 663MP 663
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyano, María D. Boyarkin, Oleg Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert Boyd, Robert Boyer, Anne Boyes, Barry	ThP 488MP 238MP 680WP 506WP 506WP 506WP 246TP 675TP 682TP 651TP 651TP 655MP 697MP 682ThP 399TP 405MP 682ThP 399TP 405MP 682ThP 399TP 405MP 682TP 205MP 682TP 205MP 683TP 569MP 061MP 063MP 063MP 063MP 683TP 588TP 589WP 631MP 631MP 631MP 631MP 631MP 534TP 199MP 534TP 559
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyano, María D. Boyarkin, Oleg. Boyce, Gregory. Boyce, Gregory. Boyce, Gregory. Boychenko, Alexander Boyd, Robert Boyd, Robert E Boyer, Anne Boyes, Barry Boyes,	ThP 488MP 238MP 680WP 506WP 506WP 675TP 675TP 682TP 682TP 651TP 655MP 697MP 682TP 399TP 405MP 682TP 399TP 405MP 682TP 405MP 682TP 405MP 682TP 589TP 569TP 569TP 588TP 588TP 588TP 589TP 589
Bowman, Christopher Bowman, Michael Bowman, Michael Boyaci, Ezel Boyaci, Ezel Boyano, María D. Boyarkin, Oleg Boyce, Gregory Boyce, Gregory Boyce, Gregory Boychenko, Alexander Boyd, Robert Boyd, Robert Boyd, Robert Boyer, Anne Boyes, Barry	ThP 488MP 238MP 680WP 506WP 506WP 675MP 246ThP 682ThP 399ThP 405 am 09:50 am 09:50 am MP 682ThP 399ThP 690MP 673MP 682ThP 399ThP 405 am 09:50 am 09:

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Brittain, Scott	5 pm 4:10 MP 615 .ThP 457 TP 616 .ThP 484 MP 080 MP 061
Brittain, Scott	mm 4:10 MP 615 ThP 457 TP 616 ThP 484 MP 080 MP 061 MP 063
Brittain, Scott	mm 4:10 MP 615 TP 457 TP 616 ThP 484 MP 080 MP 061 MP 063 MP 208
Brittain, Scott	F pm 4:10 MP 615 .ThP 457 TP 616 .ThP 484 MP 061 MP 063 MP 063 MP 208 am 09:30
Brittain, Scott	F pm 4:10 MP 615 ThP 457 TP 616 ThP 484 MP 061 MP 063 MP 060 MP 208 am 09:30
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Brittain, Scott	F pm 4:10 MP 615 ThP 457 TP 616 ThP 484 MP 060 MP 063 MP 060 MP 208 am 09:30 ThP 101 ThP 104
Brittain, Scott	F pm 4:10 MP 615 ThP 457 TP 616 ThP 484 MP 060 MP 063 MP 060 MP 208 am 09:30 ThP 101 ThP 104
Brittain, Scott	m 4:10 MP 615 ThP 457 TP 616 MP 061 MP 061 MP 061 MP 063 MP 063 MP 208 am 09:30 ThP 101 ThP 104 ThP 170
Brittain, Scott	m 4:10 MP 615 ThP 457 TP 616 ThP 484 MP 080 MP 060 MP 060 MP 208 am 09:30 ThP 101 ThP 118 ThP 371
Brittain, Scott	Fpm 4:10MP 615ThP 457TP 616 .ThP 980MP 061MP 063MP 060MP 101 .ThP 118 .ThP 118 .ThP 17
Brittain, Scott	F pm 4:10MP 615ThP 457TP 616ThP 984MP 063MP 063MP 063MP 101ThP 118ThP 118ThP 17ThP 17ThP 17ThP 447ThP 489
Brittain, Scott	F pm 4:10MP 615ThP 457TP 616ThP 980MP 061MP 063MP 063MP 060MP 101MP 104ThP 104ThP 104ThP 370ThP 371ThP 447ThP 494
Brittain, Scott	F pm 4:10MP 615MP 615ThP 457TP 616MP 063MP 063MP 063MP 063MP 063MP 104MP 108MP 208 am 09:30MP 118ThP 104ThP 370ThP 477ThP 484ThP 494TP 052
Brittain, Scott	F pm 4:10 MP 615ThP 457TP 616 .ThP 9616MP 063MP 063MP 063MP 104MP 104ThP 118ThP 118ThP 371 .ThP 447ThP 489ThP 494TP 052TP 526
Brittain, Scott	Fpm 4:10MP 615ThP 457TP 616ThP 984MP 061MP 063MP 063MP 104MP 104ThP 118ThP 17ThP 17ThP 18ThP 18ThP 370ThP 447ThP 494ThP 494ThP 496ThP 496
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Brittain, Scott	F pm 4:10MP 615ThP 457TP 616ThP 984MP 061MP 063MP 060MP 101ThP 118ThP 118ThP 370ThP 370ThP 447ThP 447ThP 494ThP 494ThP 494ThP 494ThP 494ThP 494
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Brittain, Scott	F pm 4:10MP 615ThP 457TP 616ThP 980MP 061MP 063MP 063MP 101ThP 118ThP 118ThP 137ThP 152ThP 489ThP 494TP 052WP 266WP 389WP 598ThP 103TP 112
Brittain, Scott	mm 4:10MP 615ThP 457TP 616ThP 484MP 061MP 063MP 063MP 208 am 09:30ThP 101ThP 104ThP 371ThP 371ThP 489ThP 494TP 052WP 266WP 389WP 598ThP 103T
Brittain, Scott	F pm 4:10 MP 615ThP 457TP 616ThP 484MP 060MP 061MP 063MP 063MP 101ThP 110ThP 104ThP 104ThP 371ThP 489ThP 494TP 052WP 598WP 598ThP 103TP 112ThP 032ThP 103
Brittain, Scott	my 4:10 mMP 615 mMP 616 mMP 616 mMP 0616 mMP 061 mMP 063 mMP 063 mMP 063 mMP 101 mMP 104 mMP 104 mMP 104 mMP 105 mMP 206 mMP 2
Brittain, Scott	my 4:10MP 615ThP 457TP 616ThP 984MP 063MP 063MP 063MP 104MP 104ThP 118ThP 104ThP 104ThP 447ThP 489ThP 494ThP 489ThP 494ThP 105WP 266WP 398ThP 103TP 112ThP 118ThP 119ThP 119
Brittain, Scott	my 4:10MP 615ThP 457TP 616ThP 984MP 063MP 063MP 063MP 104MP 104ThP 118ThP 104ThP 104ThP 447ThP 489ThP 494ThP 489ThP 494ThP 105WP 266WP 398ThP 103TP 112ThP 118ThP 119ThP 119
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Brittain, Scott	my 4:10 mMP 615 mMP 615 mHP 457 mHP 616 mMP 061 mMP 063 mMP 061 mMP 063 mMP 063 mMP 063 mMP 101 mHP 104 mHP 104 mHP 104 mHP 108 mHP 10
Brittain, Scott	Fym 4:10 MP 615ThP 457TP 616MP 080MP 061MP 063MP 063MP 101ThP 118ThP 118ThP 137ThP 147ThP 447ThP 457ThP 459ThP 459ThP 103ThP 103ThP 112ThP 116ThP 117ThP 118ThP 105ThP 106ThP 106ThP 107ThP 107ThP 108ThP 108ThP 109ThP 109
Brittain, Scott	Fym 4:10 MP 615ThP 457TP 616ThP 484MP 063MP 063MP 063MP 208 am 09:30ThP 101ThP 104ThP 104ThP 105ThP 371ThP 447ThP 489ThP 489ThP 489ThP 103ThP 101ThP 104TP 105ThP 104TP 105TP 105TP 108
Brittain, Scott	Fym 4:10 MP 615ThP 457TP 616ThP 484MP 063MP 063MP 063MP 208 am 09:30ThP 101ThP 118ThP 371ThP 371ThP 447ThP 489ThP 495WP 266WP 389WP 598ThP 103ThP 104TP 105TP 106TP 107ThP 499TP 108TP 318



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Bronsema Kees	ThP 051
Di Gilodina, recociiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	ThP 615
Bronsted Nielsen, Steen	
Bronzel Junior, João Luiz	MP 002
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Bros, Pauline	
Brouard, Mark	
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Brousmiche, Darryl	
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Brown, Hilary	
Brown, Hilary	
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Brown, Jeffery M	WOF am 08:30
Brown, Jeffrey M	
Brown, Joseph	
Brown, Kerene	
Brown, Kristy J	
Brown, Lewis M	
Brown, Lewis M	
Brown, Paul	
Brown, Paul	
Brown, Paul W Brown, Sherwood	
Brown, Simon Brownstein, Naomi	
Bruce, James	
Bruce, John	
Bruchmann, Andreas	ThP 141
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Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 656 ThP 679 TOE pm 2:30
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 679 ThP 679 TOE pm 2:30 WP 175
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Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 617 ThP 648 WP 538 TP 039
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 617 ThP 648 WP 538 TP 039 TP 051
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 648 WP 538 TP 039 TP 039 TP 051
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 617 ThP 648 WP 538 TP 039 TP 051 ThP 387 TP 051 ThP 387
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 617 ThP 648 WP 538 TP 039 TP 039 TP 051 ThP 054
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 667 ThP 589 ThP 196 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 648 WP 538 TP 039 TP 039 TP 051 ThP 051 ThP 628 ThP 628 ThP 628 ThP 628
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 648 WP 538 TP 039 TP 051 ThP 387 TP 604 ThP 628 ThP 629 TOB pm 3:50
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 648 WP 538 TP 039 TP 051 ThP 387 TP 604 ThP 628 ThP 628 ThP 299 TOB pm 3:50 TP 586 MP 477
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 648 WP 538 TP 039 TP 039 TP 051 ThP 367 TP 604 ThP 628 ThP 299 TOB pm 3:50 MP 477
Bruening, Merlin	MP 341 ThP 363 TP 419 MP 159 TP 665 TP 647 ThP 589 ThP 196 ThP 656 ThP 679 TOE pm 2:30 WP 175 MP 216 ThP 186 MP 312 ThP 648 WP 538 TP 039 TP 039 TP 051 ThP 367 TP 604 ThP 628 ThP 299 TOB pm 3:50 MP 477

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Buckner, Adam	
Buczynski, Matthew	
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Budayeva, Hanna	ThOR nm 4:10
Budelier, Melissa	
Buen, Zachary	
Bugnazet, David	ThP 508
Bugrova, Anna	
Bugrova, Anna	ThOA pm 3:30
Buhimschi, Catalin S	MP 550
Buhimschi, Irina A	
Buhrlage, Sara	ThP 245
Bui, Andre	TP 110
Bui , Huy	TO A am 10:10
Bui, Huy	TOA am 10.10
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Buijs, Ronald	TP 492
Bukowski, Nick	
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Bukowski, Nick	
Bullock, Kevin	WP 371
Bullwinkle, Tammy	MD 257
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Bundle, David	
Bunzendahl, Sina	ThP 513
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Burant, Charles	MOB pm 2:50
Burant, Charles	WP 206
Burgess, Jennifer	
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Burgess, Michael	ThP 347
Burgess. Michael W	
Burgest, Anthony	WP 306
Burgett, Anthony	WP 306 MP 021
Burgett, AnthonyBurgett, Michael	WP 306 MP 021 MP 222
Burgett, Anthony	WP 306 MP 021 MP 222 ThP 326
Burgett, Anthony	WP 306 MP 021 MP 222 ThP 326
Burgett, Anthony	
Burgett, Anthony	WP 306 MP 021 MP 222 ThP 326 ThOF pm 3:30 WP 134 TP 030 WP 611
Burgett, Anthony	WP 306WP 021MP 222ThP 326ThOF pm 3:30WP 134
Burgett, Anthony	WP 306WP 021MP 222ThP 326ThOF pm 3:30WP 134
Burgett, Anthony	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30 .MOA am 09:10WP 134
Burgett, Anthony Burgett, Michael Burkard, Mark E Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burlingame, Alma Burnley, Rebecca Burns, Kyle	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30 .MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, AL Burlingame, Alma Burnley, Rebecca Burns, Kyle	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30MOA am 09:10WP 134TP 030WP 611TP 462WP 649WP 649MP 190TP 555
Burgett, Anthony	WP 306 MP 021 MP 222 ThP 326 ThOF pm 3:30 MOA am 09:10 WP 134 TP 030 WP 611 TP 462 WP 649 MP 190 TP 555 TOE am 09:10
Burgett, Anthony	WP 306 MP 021 MP 222 ThP 326 ThOF pm 3:30 MOA am 09:10 WP 134 TP 030 WP 611 TP 462 WP 649 MP 190 TP 555 TOE am 09:10
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, AL Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E Burnum-Johnson, Kristin E	WP 306
Burgett, Anthony Burgett, Michael Burkard, Mark E Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, AL Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E Burnum-Johnson, Kristin E Burnell, Christian	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen Burke, Nicole Burlingame, Alma Burnley, Rebecca. Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnell, Christian Burnows, Jon	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30 .MOA am 09:10WP 134TP 430WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 296WP 211MP 306
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian Burke, Karen Burke, Nicole Burlingame, AL Burlingame, AL Burlingame, Alma Burnley, Rebecca. Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrell, Christian Burnows, Jon Burt, Michael	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134 .TP 030 WP 611 .TP 462 WP 649 MP 190 .TP 555 .TOE am 09:10 WP 296 WP 211 MP 306 MP 156
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian Burke, Karen Burke, Nicole Burlingame, AL Burlingame, AL Burlingame, Alma Burnley, Rebecca. Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrell, Christian Burnows, Jon Burt, Michael	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134 .TP 030 WP 611 .TP 462 WP 649 MP 190 .TP 555 .TOE am 09:10 WP 296 WP 211 MP 306 MP 156
Burgett, Anthony Burgett, Michael Burkard, Mark E Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Al Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E Burnum-Johnson, Kristin E Burrell, Christian Burrows, Jon Burt, Michael Burt, Michael	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30 MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 291MP 306MP 306MP 156MP 156
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, AL Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrell, Christian Burrows, Jon Burt, Michael Burt, Michael Burt, Michael Burt, Michael Burt, Michael Burt, Michael Burt, Oliver	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 296WP 211MP 306MP 156ThP 109ThP 109
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Al Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael Burt, Michael Burt, Oliver	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, AL Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrell, Christian Burrows, Jon Burt, Michael Burt, Michael Burt, Michael Burt, Michael Burt, Michael Burt, Michael Burt, Oliver	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen Burke, Nicole Burlingame, Alma Burnley, Rebecca. Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael. Burt, Michael. Burt, Oliver. Burt, Oliver. Burto, Marke Market.	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony Burgett, Michael Burkard, Mark E Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Al Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E Burnum-Johnson, Kristin E Burnell, Christian Burrows, Jon Burt, Michael Burt, Michael Burt, Oliver Burton, Casey Burton, Casey	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 211MP 306MP 156ThP 109TP 109TP 409TP 109TP 109
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian Burke, Karen. Burke, Nicole Burlingame, Al. Burlingame, Alma. Burnley, Rebecca. Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrum, Uristian. Burnell, Christian. Burrt, Michael. Burt, Michael. Burt, Oliver. Burto, Casey. Burton, Casey. Burton, Edward.	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134 .TP 030 WP 611 .TP 462 .WP 649 .MP 190 .TP 555 .TOE am 09:10 .WP 211 .MP 306 .MP 156 .ThP 109 .ThP 418 .TP 297 .TP 606 .TP 625 .WP 280
Burgett, Anthony Burgett, Michael Burkard, Mark E Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Al Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E Burnum-Johnson, Kristin E Burnell, Christian Burrows, Jon Burt, Michael Burt, Michael Burt, Oliver Burton, Casey Burton, Casey	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134 .TP 030 WP 611 .TP 462 .WP 649 .MP 190 .TP 555 .TOE am 09:10 .WP 211 .MP 306 .MP 156 .ThP 109 .ThP 418 .TP 297 .TP 606 .TP 625 .WP 280
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian Burke, Karen. Burke, Nicole Burlingame, Al. Burlingame, Alma. Burnley, Rebecca. Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrum, Uristian. Burnell, Christian. Burrt, Michael. Burt, Michael. Burt, Oliver. Burto, Casey. Burton, Casey. Burton, Edward.	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134 .TP 030 WP 611 .TP 462 .WP 649 .MP 190 .TP 555 .TOE am 09:10 .WP 296 .MP 211 .MP 306 .MP 156 .ThP 109 .ThP 418 .TP 297 .TP 606 .TP 625 .WP 280 .MP 100
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen. Burke, Nicole. Burlingame, AL Burlingame, Alma. Burnley, Rebecca. Burns, Kyle. Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon. Burt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Lyle. Burton, Lyle.	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael. Burt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Lyle	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen Burke, Nicole Burlingame, Alma Burnley, Rebecca. Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian. Burrows, Jon Burt, Michael Burt, Oliver Burt, Oliver Burton, Casey Burton, Casey Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30 MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 211MP 306MP 156ThP 109TP 409TP 409MP 156ThP 109TP 409TP 297TP 606TP 297TP 606TP 297MP 310
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael. Burt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Lyle	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30 MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 211MP 306MP 156ThP 109TP 409TP 409MP 156ThP 109TP 409TP 297TP 606TP 297TP 606TP 297MP 310
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian Burke, Karen Burke, Nicole Burlingame, AL Burlingame, AL Burlingame, Alma Burnley, Rebecca. Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrell, Christian Burrows, Jon Burt, Michael Burt, Oliver Burt, Oliver Burt, Oliver Burton, Casey Burton, Casey Burton, Lyle Burtony.	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134 .TP 030 WP 611 .TP 462 WP 649 MP 190 .TP 555 .TOE am 09:10 MP 211 MP 306 MP 156 .ThP 109 .ThP 418 .TP 297 .TP 606 .TP 625 WP 280 MP 100 MP 106 .TP 279 WP 310 MP 433
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen. Burke, Nicole Burlingame, Al. Burlingame, Alma. Burnley, Rebecca. Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrum, Christian. Burntell, Christian. Burrt, Michael. Burt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Lyle Burton, Scott A.	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30 MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 296MP 211MP 306MP 156ThP 109ThP 418TP 279TP 606TP 625WP 280MP 100MP 101
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen. Burke, Nicole. Burlingame, Al. Burlingame, Alma. Burnley, Rebecca. Burns, Kyle. Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian. Burnt, Michael. Burt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Lyle	WP 306 MP 021 MP 222 ThP 326 ThOF pm 3:30 MOA am 09:10 WP 134 TP 030 WP 611 TP 462 WP 649 MP 190 MP 296 WP 211 MP 306 MP 156 ThP 109 ThP 418 TP 297 TP 606 TP 625 WP 280 MP 100 MP 100 MP 279 WP 310 MP 106 TP 279 WP 310 MP 433 MP 011 WP 301
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael. Burt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Lyle	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen. Burke, Nicole. Burlingame, Al. Burlingame, Alma. Burnley, Rebecca. Burns, Kyle. Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian. Burnt, Michael. Burt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Lyle	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael. Burt, Oliver Burt, Oliver Burton, Casey Burton, Casey Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burzykowski, Tomasz Bussch, Olivik Busch, Michael Busch, Olivik Busch, Michael	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burlingame, Alma Burnley, Rebecca. Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnty, Oliver Burt, Oliver Burt, Oliver Burton, Casey Burton, Casey Burton, Casey Burton, Lyle	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 211MP 306MP 156ThP 109TP 409TP 538MP 300MP 301TP 538MP 300MOD am 10:10
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen Burke, Nicole Burlingame, AL Burlingame, AL Burlingame, Alma Burnley, Rebecca. Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrum, Kristin E. Burrum, Johnson, Kristin E. Burrum, Michael. Burton, Johnson, Kristin E. Burton, Casey. Burton, Casey. Burton, Casey. Burton, Casey. Burton, Lyle Bursykowski, Tomasz Busby, Scott A. Busch, Christine Busch, David R. Bush, Matthew	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 .WP 134 .TP 030 .WP 611 .TP 462 .WP 649 .MP 190 .TP 555 .TOE am 09:10 .WP 216 .MP 306 .MP 156 .ThP 109 .ThP 418 .TP 279 .WP 280 .MP 100 .MP 101
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen. Burke, Nicole Burlingame, Al. Burlingame, Alma. Burnley, Rebecca. Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrum, Uristian. Burnum-Johnson, Kristin E. Burrell, Christian. Burrt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Edward. Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burton, Christine Bursykowski, Tomasz Busby, Scott A. Busch, Christine Busch, David R. Bush, Matthew Bush, Matthew Bush, Matthew	WP 306 MP 021 MP 222 ThP 326 ThOF pm 3:30 MOA am 09:10 WP 134 TP 030 WP 611 TP 462 WP 649 MP 190 MP 196 WP 211 MP 306 MP 156 ThP 109 ThP 418 TP 297 TP 606 TP 625 WP 280 MP 100 MP 100 MP 279 MP 433 MP 011 WP 301 TP 538 MP 300 MOD am 10:10 MP 076 ThOH am 09:10
Burgett, Anthony. Burgett, Michael Burkard, Mark E. Burke, Anthony. Burke, Julian. Burke, Karen. Burke, Nicole Burlingame, Al. Burlingame, Alma. Burnley, Rebecca. Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burrum, Uristian. Burnum-Johnson, Kristin E. Burrell, Christian. Burrt, Michael. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Edward. Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burton, Lyle Burton, Christine Bursykowski, Tomasz Busby, Scott A. Busch, Christine Busch, David R. Bush, Matthew Bush, Matthew Bush, Matthew	WP 306 MP 021 MP 222 ThP 326 ThOF pm 3:30 MOA am 09:10 WP 134 TP 030 WP 611 TP 462 WP 649 MP 190 MP 196 WP 211 MP 306 MP 156 ThP 109 ThP 418 TP 297 TP 606 TP 625 WP 280 MP 100 MP 100 MP 279 MP 433 MP 011 WP 301 TP 538 MP 300 MOD am 10:10 MP 076 ThOH am 09:10
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael. Burt, Oliver. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Lyle Bur	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 .WP 134 .TP 030 .WP 611 .TP 462 .WP 649 .MP 190 .TP 555 .TOE am 09:10 .WP 296 .WP 211 .MP 306 .MP 156 .ThP 109 .ThP 418 .TP 297 .TP 606 .TP 625 .WP 280 .MP 100 .MP 156 .MP 156 .MP 156 .MP 156 .TOE am 09:10 .MP 301 .TP 473
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael. Burt, Oliver Burt, Oliver Burton, Casey Burton, Casey Burton, Casey Burton, Lyle	WP 306 MP 021 MP 222 ThP 326 .ThOF pm 3:30 MOA am 09:10 WP 134
Burgett, Anthony Burgett, Michael Burkard, Mark E. Burke, Anthony Burke, Julian Burke, Karen Burke, Nicole Burlingame, Alma Burnley, Rebecca Burns, Kyle Burns, William. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnum-Johnson, Kristin E. Burnell, Christian Burrows, Jon Burt, Michael. Burt, Oliver. Burt, Oliver. Burt, Oliver. Burton, Casey. Burton, Casey. Burton, Lyle Bur	WP 306 MP 021 MP 222 ThP 326ThOF pm 3:30MOA am 09:10WP 134TP 030WP 611TP 462WP 649MP 190TP 555TOE am 09:10WP 296WP 211MP 306MP 156ThP 109TP 473MP 301TP 473MP 301MP 301TP 538MP 300MP 101MP 301TP 538MP 300MP 301TP 538MP 300MP 076 ThOH am 09:10MP 076 ThOH am 09:17MP 553MP 553MP 380

Busnello, Carla	
Butch, Chris	
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Buzescu, Adela	
Byelov, Dmitry	
Byer, Jonathan	
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Byram, Gregory	
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Camp, David G	WP 598 ThP 591 WP 345 MP 628 TP 190
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry	WP 598ThP 591WP 345MP 628TP 190MP 123
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, J. Larry	WP 598 ThP 591 WP 345 MP 628 TP 190 MP 123
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, J. Larry Campbell, J. Larry	WP 598 ThP 591 WP 345 MP 628 TP 190 MP 123 MP 119 MP 119
Camp, David G	WP 598ThP 591 WP 345 MP 628 TP 190 MP 123 MP 119 MP 117 MP 285
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry	WP 598
Camp, David G	WP 598
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry	WP 598 ThP 591 WP 345 MP 628 TP 190 MP 113 MP 119 MP 285 MP 596 hOH pm 3:30
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry	WP 598 ThP 591 MP 345 MP 628 TP 190 MP 113 MP 117 MP 285 MP 596 hOH pm 3:30 WP 257
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry	WP 598 ThP 591 MP 345 MP 628 TP 190 MP 113 MP 117 MP 285 MP 596 hOH pm 3:30 WP 257
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry	WP 598 ThP 591 MP 345 MP 628 TP 190 MP 113 MP 117 MP 285 MP 596 hOH pm 3:30 WP 257 WP 514
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T.	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, Jain	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain D. G. Th	WP 598 ThP 591 WP 345 MP 628 MP 123 MP 119 MP 117 MP 285 MP 596 hOH pm 3:30 WP 257 WP 5514 WP 552 MP 124 OD am 09:10 OH am 08:30
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T Campuzano, Iain D G Th Campuzano, Iain D G	WP 598 WP 345 MP 628 MP 123 MP 119 MP 117 MP 596 hOH pm 3:30 WP 257 WP 555 MP 124 OD am 09:10 OH am 08:30 OH am 08:30 WP 571
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T Campuzano, Iain T Campuzano, Iain D G Campuzano, Iain D G Cancilla, Mark	WP 598 WP 345 MP 628 MP 123 MP 119 MP 117 MP 596 hOH pm 3:30 WP 555 WP 555 MP 124 OD am 09:10 OH am 08:30 WP 571 OH am 08:50
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campuzano, Iain D.G	WP 598 WP 345 MP 628 MP 123 MP 119 MP 117 MP 285 MP 596 WP 551 WP 555 WP 555 WP 514 WP 555 WP 510 OH am 08:10 OH am 08:10 OH am 08:50 OE am 10:10
Camp, David G Camp II, David G Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campuzano, lain D. G Campuzano, lain D. G Cancilla, Mark Canez, Carlos R T. Cannon, Joe	WP 598 WP 598 WP 345 MP 628 MP 123 MP 119 MP 117 MP 285 MP 596 hOH pm 3:30 WP 555 WP 555 MP 124 OD am 09:10 OH am 08:30 WP 571 OH am 08:50 OE am 10:10 ThP 447
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain D G. Th Cancilla, Mark. M Canez, Carlos R. Tannon, Joe Cantaluppi, Vincenzo	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campuzano, lain D. Campuzano, lain D. Campuzano, lain D. Cancilla, Mark Canez, Carlos R Cannon, Joe Cantaluppi, Vincenzo Canterbury, Jesse	WP 598 ThP 591 WP 345 MP 628 MP 123 MP 119 MP 119 MP 285 MP 285 WP 257 WP 554 WP 555 MP 124 OD am 09:10 OH am 08:30 WP 571 OH am 08:50 OE am 10:10 ThP 447 TP 626
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain D G. Th Cancilla, Mark. M Canez, Carlos R. Tannon, Joe Cantaluppi, Vincenzo	WP 598 ThP 591 WP 345 MP 628 MP 123 MP 119 MP 119 MP 285 MP 285 WP 257 WP 554 WP 555 MP 124 OD am 09:10 OH am 08:30 WP 571 OH am 08:50 OE am 10:10 ThP 447 TP 626
Camp, David G. Camp II, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campuzano, lain D. Campuzano, lain D. Campuzano, lain D. Cancilla, Mark Canez, Carlos R Cannon, Joe Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse Canterbury, Jesse	WP 598 WP 345 WP 345 MP 628 MP 123 MP 119 MP 117 MP 285 MP 554 WP 554 WP 555 MP 124 WP 571 OH am 08:50 OE am 10:10 OH am 08:50 OE am 10:14 TP 626 TP 393 TP 124
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Mark Campbell, J. Larry Campbell,	WP 598 ThP 591 WP 345 MP 628 TP 190 MP 119 MP 117 MP 596 hOH pm 3:30 WP 257 WP 555 MP 124 OD am 09:10 OH am 08:30 OH am 08:50 OE am 10:10 ThP 447 TP 626 TP 393 TP 124 TP 395
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T Campuzano, lain Campuzano, lain Campuzano, lain D G Cancilla, Mark Canez, Carlos R Canon, Joe Canterbury, Jesse Canterbury, Jesse D.	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain Campuzano, lain Campuzano, lain D G Cancilla, Mark M Canez, Carlos R T Cannon, Joe Canterbury, Jesse D	
Camp, David G. Camp II, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain D G. Th Campuzano, lain D G. Th Cancilla, Mark Canez, Carlos R. Tannon, Joe Cantaluppi, Vincenzo Canterbury, Jesse D. Canterbury,	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campuzano, lain D G. Th Campuzano, lain D G. Th Campuzano, lain D G. Cancilla, Mark Canez, Carlos R. T Cannon, Joe Cantaluppi, Vincenzo Canterbury, Jesse D. Canterbury, Jess	WP 598 ThP 591 WP 345 MP 628 MP 123 MP 119 MP 119 MP 285 WP 257 WP 555 WP 514 WP 555 MP 124 OD am 09:10 OH am 08:30 WP 571 OH am 08:50 OE am 10:10 ThP 447 TP 393 TP 124 TP 393 TP 124 TP 393 VOH pm 3:30 VOH pm 3:30 MP 476 ThP 676
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain D. G. Th Campuzano, lain D. G. Cancilla, Mark. M. Canez, Carlos R. T. Cannon, Joe Canterbury, Jesse D. Canterlury, Jesse D. Cantrell, Pamela Cantrell, Pamela Cao, Ailin Cao, Fan.	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain D G. Th Campuzano, lain D G. Th Cancilla, Mark Canez, Carlos R. TCannon, Joe Cantalluppi, Vincenzo Canterbury, Jesse D. Canterlury,	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain D G. Th Campuzano, lain D G. Th Campuzano, lain D G. Cancilla, Mark Canez, Carlos R. T Cannon, Joe Cantalluppi, Vincenzo Canterbury, Jesse D. Canterlur, Pamela Cantrell, Pamela Cao, Fan. Cao, Fan. Cao, Hongmei	
Camp, David G. Camp II, David G. Campagna, Shawn Campagna, Shawn Campagna, Shawn Campbell, J. Larry Campbell, Matthew T. Campuzano, lain D G. Th Campuzano, lain D G. Th Cancilla, Mark Canez, Carlos R. TCannon, Joe Cantalluppi, Vincenzo Canterbury, Jesse D. Canterlury,	



Cao, Li	WP 678
Cao, Lulu	MP 513
Cao, Qichen	
Cao, Qinjingwen	
Cao, Weiqun	
Cao, Weiqun	WP 135
Cao, Xiaoyu	
Cao, Xing-Jun	WP 364
Cao, Zhijun	
Cao, Zhijun	
Capodanno, Eric	
Cappai, Roberto	
Cappelini, Luciana	ΓhP 148
Cappelini, Luciana	ΓhP 149
Cappell, Jo	
Cappelletti, Giuseppe	
Cappellini, Enrico	
Cappiello, Achille	
Cappiello, Achille	
Cappiello, AchilleTOG	pm 3:10
Capraro, Ernest	WP 492
Capri, Joseph	
Capri, Joseph	
Capri, Joseph	
Capri, JosephTOD a	m 10:10
Capri, Joseph	
Caprioli, Richard	
Caprioli, Richard	
Caprioli, RichardTOC a	m 09:30
Caprioli, RichardTOE a	m 08:30
Caprioli, Richard	
Caprioli, Richard	
Caprioli, Richard	TP 690
Caprioli, Richard	
Caprioli, Richard MMOB a	
Caprieli Dishard M	
Caprioli. Richard WIVIOG	pm 3:10
Caprioli, Richard MMOG	
Caprioli, Richard M	MP 183
Caprioli, Richard M Caprioli, Richard M	MP 183 MP 509
Caprioli, Richard M	MP 183 MP 509 ThP 668
Caprioli, Richard M	MP 183 MP 509 ThP 668 .TP 555 WP 388
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine	MP 183 MP 509 ThP 668 .TP 555 WP 388 ThP 542
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627 m 09:10
Caprioli, Richard M	MP 183 MP 509 ThP 668 .TP 555 WP 388 ThP 542 .TP 627 m 09:10 .TP 352
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627 m 09:10 .TP 352 MP 180
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David Carbonello, Julie Carbonetti, Nicholas Carcache, David	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 157
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carabetta, Valerie J. Carapito, Christine	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 157 MP 153
Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 157 MP 153 pm 2:50
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 157 MP 153 pm 2:50 .TP 361
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David	MP 183 MP 509 FhP 668 .TP 555 WP 388 FhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 157 MP 153 pm 2:50 .TP 361 .TP 398
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carabetta, Valerie J. Carapito, Christine. Carballo-Jane, Ester Carbone, David	MP 183 MP 509 fhP 668 .TP 555 WP 388 fhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 157 MP 153 pm 2:50 .TP 361 .TP 388 m 10:10
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carabetta, Valerie J. Carapito, Christine	MP 183 MP 509 fhP 668 .TP 555 WP 388 fhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 157 MP 153 pm 2:50 .TP 361 .TP 398 m 10:10 fhP 056
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carabita, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene L. Cardona, Dwain Care, Natasha	MP 183 MP 509 fhP 668 .TP 555 WP 388 fhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 180 MP 153 pm 2:50 .TP 361 .TP 398 m 10:10 fhP 056 pm 2:30
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carabita, Valerie J. Carapito, Christine. Carballo-Jane, Ester Carbone, David. Carbonello, Julie. Carbonetti, Nicholas. Carcache, David. Cardasis, Helene. Cardasis, Helene Cardona, Dwain. Care, Natasha Carlson, Arthur.	MP 183 MP 509 fhP 668 .TP 555 WP 388 fhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 185 MP 153 pm 2:50 .TP 361 .TP 398 m 10:10 fhP 056 pm 2:30 MP 432
Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David	MP 183 MP 509 FhP 668 TF 559 WP 388 FhP 542 TF 627 m 09:10 TF 352 MP 180 MP 157 MP 153 pm 2:50 TF 361 TF 368 THP 398 m 10:10 FhP 056 pm 2:30 MP 432 FhP 539
Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David	MP 183 MP 509 FhP 668 TP 658 WP 388 FhP 542 TP 627 m 09:10 TP 352 MP 180 MP 157 MP 153 pm 2:50 TP 368 m 10:10 FhP 056 pm 2:30 MP 432 FhP 539 m 10:10
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carpoli, Richard M. Carpoli, Richard M. Carpoli, Richard M. Carpoli, Richard M. Carbone, David. Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardona, Dwain Care, Natasha TOB Carlson, Arthur. Carlson, Christina Carlson, Eric. ThOB a	MP 183 MP 509 fhP 668 .TP 555 WP 388 fhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 157 MP 153 pm 2:50 .TP 361 .TP 361 .TP 305 pm 2:30 MP 432 fhP 539 m 10:10 WP 664
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carpoli, Richard M. Carpoli, Richard M. Carpoli, Richard M. Carpoli, Richard M. Carbone, David. Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardona, Dwain Care, Natasha Carlson, Arthur. Carlson, Christina Carlson, Eric. Carlson, Eric. Carlson, Eric.	MP 183 MP 509 IhP 668 ITP 668 ITP 542 ITP 627 M 09:10 ITP 352 MP 183 MP 157 MP 153 pm 2:50 ITP 361 ITP 398 m 10:10 ITP 398 m 432 ITP 432 ITP 539 m 10:10 WP 664 WP 686
Caprioli, Richard M. Carpioli, Richard M. Carabita, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardson, Dwain Care, Natasha Carlson, Christina Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Eric.	MP 183 MP 509 fhP 668 .TP 555 WP 388 fhP 542 .TP 627 m 09:10 .TP 352 MP 183 pm 2:50 .TP 361 .TP 398 m 10:10 MP 432 fhP 539 m 10:10 WP 686 MP 233
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carabita, Valerie J. Carapito, Christine. Carballo-Jane, Ester Carbone, David. Carbonelti, Nicholas. Carcache, David. Cardasis, Helene. Cardasis, Helene. Cardasis, Helene Cardson, Christina Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Gerald M.	MP 183 MP 509 fhP 668 .TP 555 WP 388 fhP 542 .TP 627 m 09:10 .TP 352 MP 180 MP 187 MP 153 pm 2:50 .TP 361 .TP 398 m 10:10 fhP 056 pm 2:30 MP 432 fhP 539 m 10:10 WP 664 WP 686 MP 233 .TP 474
Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David	MP 183 MP 509 FhP 668 TF 658 WP 388 FhP 542 TF 627 m 09:10 TF 352 MP 180 MP 157 MP 153 pm 2:50 TF 961 TF 368 m 10:10 FhP 056 pm 2:30 MP 432 FhP 539 m 10:10 WP 664 WP 686 MP 233 TF 474 pm 2:30
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbone, Christine	MP 183 MP 509 FhP 668 TF 509 MP 388 FhP 542 TF 627 m 09:10 TF 352 MP 183 MP 157 MP 153 pm 2:50 TF 361 TF 398 m 10:10 FhP 056 pm 2:30 MP 432 FhP 539 m 10:10 WP 664 WP 686 MP 233 TF 474 ppm 2:30 MP 347
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbone, David. Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardson, Carlson, David Carlson, Arthur. Carlson, Christina Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Erin. Carlson, Gerald M. Carlsson, Henrik. Carnevale Neto, Fausto Carney, Peter.	MP 183 MP 509 InP 668 InP 668 InP 668 InP 642 InP 627 MP 9352 MP 180 MP 157 MP 153 MP 153 MP 2:50 InP 361 InP 366 InP 366 MP 2:30 MP 432 InP 369 MP 432 InP 369 MP 432 InP 369 MP 432 InP 347 MP 1846 MP 233 InP 474 MP 1846
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbone, Christine	MP 183 MP 509 InP 668 InP 668 InP 668 InP 642 InP 627 MP 9352 MP 180 MP 157 MP 153 MP 153 MP 2:50 InP 361 InP 366 InP 366 MP 2:30 MP 432 InP 369 MP 432 InP 369 MP 432 InP 369 MP 432 InP 347 MP 1846 MP 233 InP 474 MP 1846
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbone, David. Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardson, Carlson, David Carlson, Arthur. Carlson, Christina Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Erin. Carlson, Gerald M. Carlsson, Henrik. Carnevale Neto, Fausto Carney, Peter.	MP 183 MP 509 InP 668 InP 668 InP 668 InP 642 InP 627 MP 183 MP 180 MP 187 MP 183 InP 2:50 InP 361 InP 368 InP
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbone, David. Carbone, David. Carbonello, Julie. Carbonelti, Nicholas. Carcache, David. Cardasis, Helene. Cardasis, Helene. Cardasis, Helene. Cardasis, Helene. Cardasis, Helene. Cardona, Dwain. Care, Natasha. Carlson, Arthur. Carlson, Arthur. Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Gerald M. Carlson, Peter. Carno, Cynthia.	MP 183 MP 509 fhP 668 .TP 542 .TP 627 m 09:10 .TP 352 MP 183 MP 153 pm 2:50 .TP 361 .TP 361 .TP 398 m 10:10 fhP 056 pm 2:30 MP 432 fhP 539 m 10:10 WP 686 MP 233 .TP 474 pm 2:30 MP 233 .TP 474 pm 2:30 MP 347 MP 1413 .TP 284
Caprioli, Richard M. Carpioli, Richard M. Carpioli, Richard M. Carapito, Christine Carballo-Jane, Ester Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardson, Dwain Care, Natasha Carlson, Arthur. Carlson, Arthur. Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Gerald M Carlsson, Henrik. ThOG Carnevale Neto, Fausto Carney, Peter. Caron, Cynthia. Caron, Pierre-Yves.	MP 183 MP 509 FhP 668 TF 655 WP 388 FhP 542 TF 627 m 09:10 TF 352 MP 180 MP 157 MP 153 pm 2:50 TF 361 TF 368 m 10:10 FhP 658 m 10:10 WP 664 WP 686 MP 233 TF 474 pm 2:30 MP 347 MP 146 TF 484 TF 285
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbonelo, Julie Carbonelti, Nicholas Carcache, David. Cardasis, Helene Cardson, Carlson, Dwain Care, Natasha Carlson, Christina Carlson, Eric. Carlson, Henrik. Carnevale Neto, Fausto Carney, Peter. Caron, Cyrithia. Caron, Pierre-Yves. Caron, Pierre-Yves. Carpenter, Annie.	MP 183 MP 509 FhP 668 TF 658 WP 388 FhP 542 TF 627 m 09:10 TF 352 MP 183 MP 157 MP 153 pm 2:50 TF 361 TF 398 m 10:10 FhP 056 pm 2:30 MP 432 FhP 539 Fh 10:10 MP 664 MP 233 TF 474 MP 146 TF 241 TF 285 FhP 539
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carborioli, Richard M. Carborioli, Richard M. Carabito, Christine	MP 183 MP 509 In P 668 In P 668 In P 668 In P 659 MP 388 In P 542 In P 627 MP 183 MP 157 MP 153 MP 153 MP 2:50 In P 361 In P 361 In P 361 In P 368 MP 432 In P 458 MP 233 In P 474 MP 146 In P 413 In P 284 In P 284 In P 238 In P 338 In P 338 In P 338 In P 347 MP 146 In P 638 In P 338
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbone, David. Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardasis, ThOB a Carlson, Dwain Care, Natasha Carlson, Christina Carlson, Christina Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Eric. Carlson, Erin. Carlson, Gerald M. Carlson, Henrik. Carney, Peter. Caron, Cynthia. Caron, Pierre-Yves Caron, Pierre-Yves Caron, Pierre-Yves Carpin, John Carpino, Philip.	MP 183 MP 509 IhP 668 ITP 668 ITP 542 ITP 627 MP 981 MP 180 MP 157 MP 153 pm 2:50 ITP 361 ITP 368 MP 432 ITP 628 MP 432 ITP 686 MP 233 ITP 474 pm 2:50 MP 347 MP 183 MP 183 ITP 474 ITP 413 ITP 284 ITP 285 ITP 285 ITP 538 ITP 461
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbonello, Julie Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardona, Dwain Care, Natasha	MP 183 MP 509 FhP 668 ThP 668 ThP 668 ThP 542 ThP 627 m 09:10 ThP 352 MP 183 MP 153 pm 2:50 ThP 361 ThP 361 ThP 368 MP 432 FhP 539 MP 432 FhP 539 MP 2:30 MP 432 ThP 474 MP 2:30 MP 2:30 ThP 474 MP 2:30 MP 347 MP 146 ThP 413 ThP 285 ThP 539
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carabetta, Valerie J. Carapito, Christine Carballo-Jane, Ester Carbone, David	MP 183 MP 509 FhP 655 WP 388 FhP 542 TTP 627 m 09:10 TTP 352 MP 180 MP 157 MP 153 pm 2:50 TTP 366 MP 2:30 MP 2:30 MP 432 ThP 539 m 10:10 WP 664 WP 686 MP 233 TTP 474 pm 2:30 MP 347 FhP 539 MP 146 TTP 285 FhP 539 FhP 038 TTP 474
Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Caprioli, Richard M. Carpioli, Richard M. Carbonello, Julie Carbone, David. Carbonello, Julie Carbonetti, Nicholas Carcache, David. Cardasis, Helene Cardona, Dwain Care, Natasha	MP 183 MP 509 FhP 655 MP 388 FhP 542 TF 627 m 09:10 TP 352 MP 183 MP 157 MP 153 pm 2:50 TTP 398 m 10:10 FhP 056 pm 2:30 MP 432 FhP 539 Fh 10:10 MP 233 TTP 474 MP 146 TTP 413 TTP 285 FhP 539 FhP 539 FhP 038 TTP 246 TTP 285 FhP 539 FhP 038 TTP 461 TTP 285 FhP 038 TTP 461

Carr, Steven A	
out, oteven / t	WP 414
Carrasco, MartinWOF	am 09:10
Carreira, Ricardo	TP 686
Carrell, Robin	
Carrera, Monica	TP 402
Carrilho, Elma	
Carrilho, Elma	
Carrilho, Emanuel	ThP 148
Carrilho, Emanuel	
Carrilho, Emanuel	WP 283
Carrington, Mary	ThP 352
Carroll, Frances	MP 310
Carroll, Frances	
Carroll, Frances	
Carroll, Frances	ThP 150
Carroll, Frances	ThP 237
Carroll, Frances	
Carroll, Frances	
Carroll, James	
Carroll, James	ThP 522
Carroll, James	ThP 524
Carroll, James A	
Carroll, Martin	
Carroll, Patrick	
Carroy, Glenn	
Carter, Claire L	
Carter, Claire LMO	
Carter, Claire L	TP 272
Carter, Melissa	
Carter, Spencer	MP 25
Cartner, Samuel C	
Caruso, Joseph	IP 638
Caruso, Joseph A	
Caruso, Michael	
Carvalho, Paulo	
Carvalho, Paulo	INP 43
Carvalho, Thays	IIIP 17
Carvalloza, AnthonyCarver, Jeremy	WP 33
Casadonte, RitaMO	IF 130
Casadonte, Rita	TD 67
Casey, Brendan	
	100 212
Casev Brittany K	I NP 212 WP 023
Casey, Brittany K	WP 023
Casey, Brittany K Cassady, Carolyn J	WP 023
Casey, Brittany K Cassady, Carolyn J Cassady, Carolyn J	WP 023 MP 676 ThP 079
Casey, Brittany K	WP 023 MP 676 ThP 079 ThP 117
Casey, Brittany K	WP 023 MP 676 ThP 079 ThP 117 ThP 319 ThP 368
Casey, Brittany K	WP 023 MP 676 ThP 079 ThP 117 ThP 319 ThP 368 ThP 068
Casey, Brittany K	WP 023 MP 676 ThP 079 ThP 117 ThP 319 ThP 368 ThP 068 ThP 464
Casey, Brittany K	WP 023 MP 676 ThP 079 ThP 113 ThP 319 ThP 368 ThP 068 ThP 464 WP 554
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellano, Holly	WP 023 MP 676 ThP 079 ThP 319 ThP 368 ThP 068 ThP 464 WP 554 ThP 184
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellano, Holly Castellanos, Anthony	WP 023 MP 676 ThP 079 ThP 117 ThP 319 ThP 368 ThP 068 ThP 464 WP 554 ThP 184 ThP 673
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellano, Anthony Castellanos, Anthony Castellanos, Laura	WP 023 MP 676 ThP 079 ThP 117 ThP 319 ThP 368 ThP 464 WP 554 ThP 184 ThP 673
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellano, Holly Castellanos, Anthony Castellanos, Laura Castellanos, Laura	WP 023 MP 676 ThP 079 ThP 111 ThP 319 ThP 368 ThP 068 WP 554 WP 554 ThP 184 ThP 673 MP 012
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellano, Holly Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff	WP 023 MP 676 ThP 079 ThP 319 ThP 363 ThP 464 WP 554 ThP 184 ThP 673 ThP 673 ThP 675
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Anthony Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castelli, Jeff Castory, Katherine	WP 023 MP 676 ThP 079 ThP 117 ThP 319 ThP 360 ThP 464 WP 554 ThP 18 ThP 673 ThP 675 TP 655
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellano, Holly Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castor, Katherine Castoro, John	WP 023 MP 676 ThP 079 ThP 117 ThP 317 ThP 368 ThP 061 ThP 656 ThP 657 MP 012 TP 657 MP 277
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellano, Holly Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castelli, Jeff Castor, Katherine Castor, Katherine Castor, Leandro M.	WP 023 MP 676 MP 677 ThP 079 ThP 117 ThP 368 ThP 368 ThP 464 WP 554 ThP 673 ThP 657 MP 012 TP 657 MP 379 TP 277 ThP 477
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Holly Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castor, Katherine Castor, Katherine Castoro, John Castoro, Leandro M Castro-Gonzalez, Hector.	WP 023 MP 676 ThP 079 ThP 117 ThP 368 ThP 368 ThP 368 ThP 464 ThP 184 ThP 187 ThP 657 TP 657
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellano, Holly Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castor, Katherine Castor, Katherine Castoro, John Castro-Qonzalez, Hector Castro-Perez, Jose. WO	WP 023 MP 676 ThP 079 ThP 117 ThP 361 ThP 362 ThP 365 ThP 184 ThP 184 ThP 187 ThP 657 TP 657 MP 379 TP 657 TP 657
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellano, Holly Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castor, Katherine Castor, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Perez, Jose Catharino, Rodrigo	WP 023 MP 676 ThP 079 ThP 117 ThP 366 ThP 366 ThP 667 ThP 184 ThP 187 ThP 187 ThP 187 ThP 657 TP 657 TP 657 TP 657 TP 677 TP 677 TP 678 TP 678 TP 679 .
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Holly Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castelli, Jeff Castor, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Perez, Jose Catharino, Rodrigo Catherine, Kramer	WP 023 MP 676 ThP 079 ThP 131 ThP 368 ThP 368 ThP 667 WP 555 ThP 188 ThP 673 MP 071 TP 657 MP 377 TP 477 MP 628 TP 675 WP 555 THP 487 MP 378 TP 477 MP 378
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castelli, Jeff Castor, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Perez, Jose Catherine, Kramer Catorie, Alexandre	WP 023 MP 676 ThP 079 ThP 117 ThP 360 ThP 360 ThP 464 WP 554 ThP 675 ThP 677 MP 012 TP 657 MP 379 TP 277 ThP 477 MP 628 F pm 3:30 WP 056 WP 360 WP 360
Casey, Brittany K. Cassady, Carolyn J. Castellana, Roberto. Castellana, Rudolph J. Castellanos, Holly Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castelli, Jeff Castor, Katherine. Castoro, John Castro-Qonzalez, Hector. Castro-Perez, Jose Catharino, Rodrigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah.	WP 023 MP 676 ThP 079 ThP 117 ThP 368 ThP 368 ThP 668 ThP 182 ThP 182 ThP 657 TP 657 TP 277 MP 628 F pm 3:30 WP 056 WP 368 WP 368 MP 1656
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Anthony Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castor, Katherine Castor, Katherine Castor, Leandro M. Castro-Perez, Jose Catharino, Rodrigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah. Caulier, Guillaume	WP 023 MP 676 ThP 079 ThP 117 ThP 368 ThP 368 ThP 368 ThP 464 ThP 184 ThP 187 ThP 187 ThP 657 TP 657 TP 657 TP 657 TP 677 MP 378 TP 277 MP 628 TP 478 MP 628 TP 468 TP 468 TP 468 TP 478 MP 151 TP 486 TP 286 TP 286 TP 286
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Holly Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castelli, Jeff Castelli, Jeff Castor, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Perez, Jose Catharino, Rodrigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason.	WP 023 MP 676 ThP 079 ThP 131 ThP 319 ThP 360 ThP 160 ThP 160 ThP 182 ThP 183 ThP 673 MP 072 TP 655 TP 656 TP 656 MP 379 TP 277 MP 379 TP 477 MP 379 TP 477 MP 379 TP 680 MP 157 TP 680 TP 680 TP 217
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Holly Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castelli, Jeff Castor, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Perez, Jose Catharino, Rodrigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason.	WP 023 MP 676 ThP 079 ThP 131 ThP 319 ThP 360 ThP 661 ThP 184 ThP 675 MP 071 ThP 185 ThP 675 MP 375 TP 655 ThP 477 MP 620 MP 378 TP 277 ThP 477 MP 620 MP 155 WP 360 MP 157 TP 686 ThP 687 TP 1287 TP 1287 TP 141 WP 246
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castor, Katherine Castoro, John Castro, Leandro M. Castro-Perez, Jose Catherine, Rodrigo Catherine, Kramer Catorie, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason. Causon, Jason. Cavanaugh, Craig.	WP 023 MP 676 MP 676 ThP 115 ThP 115 ThP 315 ThP 365 ThP 665 TP 655 MP 625 MP 625 MP 626 WP 366 WP 366 TP 666 WP 367 MP 157 MP 157 TP 668 TP 144 TP 1684 TP 179 MP 377 MP 179 MP 377 MP 179 M
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castelli, Jeff Castoro, John Castro-Qonzalez, Hector Castro-Gonzalez, Hector Castro-Gatharino, Rodrigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason. Causon, Jason. Cavanaugh, Craig. Cavanaugh, Craig. Cavaros, Daniel R	WP 023 MP 676 ThP 079 ThP 117 ThP 360 ThP 360 ThP 660 ThP 677 MP 677 MP 677 MP 677 MP 678 MP 680 ThP 467 MP 680 ThP 477 MP 680 MP 176 MP 156 TP 277 ThP 477 MP 680 MP 176 MP 157 MP 157 MP 157 MP 174
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Anthony Castellanos, Anthony Castelli, Jeff Castelli, Jeff Castelli, Jeff Castor, Katherine. Castor, Katherine. Castoro, John Castro-Qenzalez, Hector. Castro-Perez, Jose. Catharino, Rodrigo Catharino, Rodrigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason. Causon, Jason. Cavazos, Daniel R. Cecchi, Fabiola	WP 023 MP 676 ThP 079 ThP 117 ThP 368 ThP 368 ThP 368 ThP 184 ThP 184 ThP 187 ThP 657 TP 657 TP 657 MP 379 TP 277 TP 277 MP 628 TP 114 WP 244 TP 124 MP 124 MP 124 MP 124 MP 174 MP 1306
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellano, Holly Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castor, Katherine Castor, Katherine Castoro, John Castro-Perez, Jose Catharino, Rodrigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason Cavazos, Daniel R. Cavazos, Daniel R. Cecchi, Fabiola Cecchii, Tiphaine	WP 023 MP 676 ThP 079 ThP 117 ThP 366 ThP 366 ThP 464 ThP 184 ThP 185 ThP 187 ThP 657 TP 657 TP 657 TP 657 TP 657 TP 467 TP 477 MP 628 TP 144 TP 277 MP 156 TP 157 MP 156 TP 157 TP 277 MP 157 MP 158 TP 144 THP 157 TP 147 MP 244 THP 024 MP 174 MP 174 MP 305 MP 305 MP 305
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Holly Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castor, Katherine Castor, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Perez, Jose Catharino, Rodrigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason. Causon, Jason. Cavanaugh, Craig. Cavazos, Daniel R Cecchi, Fabiola Cecchini, Tiphaine Cece, Esra Nurten.	WP 023 MP 676 ThP 079 ThP 131 ThP 368 ThP 166 ThP 675 ThP 158 ThP 677 MP 071 ThP 677 MP 072 ThP 477 MP 628 ThP 686 ThP 686 MP 157 WP 286 ThP 687 TP 687 TP 687 TP 1687 TP 17 TP 17 ThP 283 ThP 024 ThP 024 MP 376 TP 386 TP 3
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellana, Natalie Castellani, Rudolph J. Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castor, Katherine Castoro, John Castro, Leandro M. Castro-Perez, Jose Castoro, Rodrigo Catherine, Kramer Catorine, Kramer Caughlin, Sarah. Caulier, Guillaume Causon, Jason. Cavanaugh, Craig. Cavazos, Daniel R. Cecchi, Fabiola Cecce, Esra Nurten. Cecch, Nadja	WP 023 MP 676 ThP 079 ThP 111 ThP 115 ThP 368 ThP 666 ThP 675 MP 012 ThP 675 MP 617 MP 628 TP 686 TP 686 TP 687 MP 307 TP 114 WP 284 THP 024 THP 025 THP 035 THP 287 THP 147 MP 306 THP 174 MP 306 THP 174 MP 174 MP 306 THP 174 MP 307 THP 174 MP 307 THP 174 MP 307 THP 174 MP 307 THP 287 THP 287 THP 287 THP 287 MP 174 MP 307 THP 287
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellani, Rudolph J. Castellano, Holly Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castoro, John Castro, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Gonzalez, Hector Castro-Rodrigo Catherine, Kramer Catolie, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason. Causon, Jason. Cavanaugh, Craig. Cavazos, Daniel R Cecchii, Fabiola Cecchiii, Tiphaine Cecce, Esra Nurten. Cechetto, David	WP 023 MP 676 ThP 677 ThP 117 ThP 368 ThP 368 ThP 668 ThP 675 MP 677 MP 677 MP 677 MP 677 MP 678 TP 277 MP 628 TP 278 MP 155 TP 288 TP 144 WP 368 TP 287 MP 157 MP 158 TP 174 MP 308 TP 358 MP 368 MP 368 MP 368 TP 368 TP 174 MP 368 TP 368 TP 668 MP 268
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellani, Rudolph J. Castellani, Rudolph J. Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castor, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Gonzalez, Hector Castro-Rorigo Catherine, Kramer Catoire, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason Cavanaugh, Craig. Cavazos, Daniel R Cecchi, Fabiola Cecchini, Tiphaine Cecc, Sara Nurten. Cech, Nadja Cechetto, David Cechner, Karen.	WP 023 MP 676 ThP 079 ThP 117 ThP 360 ThP 360 ThP 660 ThP 675 MP 012 TP 657 MP 620 TP 267 MP 620 TP 267 MP 152 TP 275 MP 152 TP 275 MP 155 TP 285 TP 285 TP 286 TP 114 WP 246 TP 286
Casey, Brittany K. Cassady, Carolyn J. Castangia, Roberto. Castellani, Rudolph J. Castellano, Holly Castellanos, Anthony Castellanos, Laura Castelli, Jeff Castelli, Jeff Castoro, John Castro, Katherine Castoro, John Castro-Gonzalez, Hector Castro-Gonzalez, Hector Castro-Rodrigo Catherine, Kramer Catolie, Alexandre Caughlin, Sarah. Caulier, Guillaume Causon, Jason. Causon, Jason. Cavanaugh, Craig. Cavazos, Daniel R Cecchii, Fabiola Cecchiii, Tiphaine Cecce, Esra Nurten. Cechetto, David	WP 023 MP 676 ThP 079 ThP 117 ThP 368 ThP 368 ThP 668 ThP 65 TP 65 TP 65 TP 277 MP 628 TP 277 MP 156 TP 277 MP 156 TP 277 MP 388 TP 277 MP 388 TP 277 MP 389 TP 281 TP 282 TP 114 MP 284 TP 283 MP 286 TP 668 MP 287 MP 176 MP 176 MP 177 MP 176 MP 161

	MP 012
Čermák, Pavel Ceroni, Alessio	
Cervantes, Serena	ThP 554
César Gozzo, Fábio	
Cesnik, Anthony J.	
Cha, Kyung Hoon	WP 050
Cha, Sangwon	MP 036
Cha, Seong Won	TOB am 09:30
Chacon, Almary	ThP 091
Chacón-Patiño, Martha	MP 647
Chacón-Patiño, Martha L	
Chaerkady, Raghothama	WP 415
Chaerkady, Raghothama	
Chai, Hongxia	
Chai, J.J	MP 637
Chai, Yunfeng	ThP 010
Chai, Yunfeng Chainet, Fabien	I NP 094
Chait, Brian	
Chait, Brian	
Chait, Brian T	TP 494
Chait, Brian T	TP 47!
Chait, Brian T	WOE am 08:50
Chakrabarti, Rumela	
Chakrabarty, Shubhashis	
Chakrabarty, Shubhashis	MP 018
Chakraborty, Asish	MP 188
Chakraborty, Asish	MP 205
Chakraborty, Asish	ThP 607
Chakraborty, Debashis	ThOE pm 3:30
Chalkley, Robert	
Chalkley, Robert J	IP 42
Chalkley, Robert J	
Challenger, Kerry Chalmers, Michael	
Chambers, Andrew	
Chambers, Erin E	
Chambers, Erin E	ThP 346
Chambers, Erin E	WP 465
Chambers, Erin E	
Chambers, Matthew	
Chambers, Matthew	1 NP 454
Chambers, Michael Chamot-Rooke, Julia	IVIP 402
Chamot-Rooke, Julia	
	WOO pm 3:30
	ThOB pm 3:30
Chamot-Rooke, Julia	ThOB pm 3:30
Chamot-Rooke, Julia Chamot-Rooke, Julia	ThOB pm 3:30 TP 380 TP 376
Chamot-Rooke, Julia Chamot-Rooke, Julia Champaign, Joseph M	ThOB pm 3:30 TP 380 TP 376 TP 687
Chamot-Rooke, Julia	.ThOB pm 3:30 TP 380 TP 376 TP 687 WP 460 WP 456
Chamot-Rooke, Julia Chamot-Rooke, Julia Champaign, Joseph M Champion, Matthew	.ThOB pm 3:30 TP 380 TP 376 TP 687 WP 460 WP 456
Chamot-Rooke, Julia	ThOB pm 3:30TP 380TP 376TP 687WP 460WP 456MP 637
Chamot-Rooke, Julia	.ThOB pm 3:30 TP 380 TP 376 WP 460 WP 450 MP 63' TP 015
Chamot-Rooke, Julia	.ThOB pm 3:30 TP 38(TP 376 WP 460 WP 450 MP 63' TOB pm 3:10
Chamot-Rooke, Julia	.ThOB pm 3:30
Chamot-Rooke, Julia Chamot-Rooke, Julia Champaign, Joseph M Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On Chan, Daniel Chan, Daniel W. Chan, Daniel W.	.ThOB pm 3:30 .TP 386 .TP 376 .TP 687 .WP 466
Chamot-Rooke, Julia	.ThOB pm 3:30 .TP 386
Chamot-Rooke, Julia	.ThOB pm 3:30
Chamot-Rooke, Julia	.ThOB pm 3:30TP 38(TP 37(TP 37(MP 46(MP 63'TP 01(TOB pm 3:1(MP 54(MP 54(MP 54(MP 54(MP 36(MP 36(MP 36(MP 35(
Chamot-Rooke, Julia. Chamot-Rooke, Julia. Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On. Chan, Daniel Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An.	.ThOB pm 3:30
Chamot-Rooke, Julia. Chamot-Rooke, Julia. Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Shan-An.	.ThOB pm 3:30 .TP 38 .TP 37 .TP 687 .WP 460 .WP 450 .MP 630 .TP 011 .MP 542 .MP 583 .MP 410 .MP 410 .MP 362 .TP 436 .MP 362 .TP 324
Chamot-Rooke, Julia Chamot-Rooke, Julia Champaign, Joseph M Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An. Chan, Tak-Wah Dominic.	.ThOB pm 3:30 .TP 38 .TP 37 .TP 37 .TP 687 .WP 466
Chamot-Rooke, Julia Chamot-Rooke, Julia Champaign, Joseph M Champion, Matthew Chan, Alfred W. H Chan, Chi-On Chan, Daniel Chan, Daniel W Chan, Daniel W. Chan, Pik Kay Chan, Shan-An Chan, Shan-An Chan, Shan-An Chan, Shan-An Chan, Chan, Chan, Chan, Chan, Chan, Chan, Chan Chan, Cha	.ThOB pm 3:30 .TP 38
Chamot-Rooke, Julia. Chamot-Rooke, Julia. Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On. Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An. Chan, C	.ThOB pm 3:30
Chamot-Rooke, Julia Chamot-Rooke, Julia Champaign, Joseph M Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On. Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Chan, Chan, Chan, Chan, Chan, Chan, Chan. Chan, Chan	.ThOB pm 3:30
Chamot-Rooke, Julia. Chamot-Rooke, Julia. Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Tak-Wah Dominic. Chan, Teddy Chance, Deborah Chance, Mark. Chance, Mark. Chance, Mark.	.ThOB pm 3:30 .TP 38 .TP 376 .TP 687 .WP 466 .WP 456 .MP 637 .TP 011 .MP 544 .MP 583 .TP 436 .MP 417 .MP 365 .TP 234 .TP 234 .TP 315 .MP 612 .MP 612 .MP 686 .MP 686 .MP 508 .MP 508
Chamot-Rooke, Julia. Chamot-Rooke, Julia. Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An Chan, Shan-An Chan, Shan-An Chan, Shan-An Chan, Tak-Wah Dominic Chan, Teddy Chance, Merk. Chance, Mark.	.ThOB pm 3:30 .TP 38 .TP 376 .TP 687 .WP 460 .WP 450 .MP 637 .TP 019 .TP 019 .TP 430 .MP 583 .TP 430 .MP 361 .MP 361 .MP 362 .TP 322 .TP 322 .TP 324 .MP 612 .MP 686 .MP 686 .MP 686 .MP 686 .MP 695 .TP 305
Chamot-Rooke, Julia Chamot-Rooke, Julia Champaign, Joseph M Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Tak-Wah Dominic. Chan, Teddy Chance, Mark.	.ThOB pm 3:30
Chamot-Rooke, Julia Chamot-Rooke, Julia Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An Chan, Chan, Chan Chan, Chan Chan, Chan Chan Chan Chan Chan Chan Chan Chan	.ThOB pm 3:30TP 386TP 376TP 687WP 460WP 450MP 637TP 016TOB pm 3:10MP 544MP 583TP 436TP 436TP 356TP 316MP 688MP 688MP 688MP 698MP 506ThOF am 09:56ThP 350ThP 310MP 688MP 688MP 698MP 698MP 698MP 698MP 506ThP 300ThP 300ThP 300
Chamot-Rooke, Julia. Chamot-Rooke, Julia. Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An Chance, Mark Chance, Ma	.ThOB pm 3:30TP 386TP 376TP 687WP 460WP 450MP 637TP 015TOB pm 3:10MP 544MP 583TP 436TP 355TP 324TP 324TP 316MP 612MP 612
Chamot-Rooke, Julia. Chamot-Rooke, Julia. Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On. Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Shan-An. Chan, Tak-Wah Dominic. Chan, Tak-Wah Dominic. Chan, Tak-Wah Chance, Mark. Chance, Mark R. Chance, Mark R. Chance, Mark R. Chance, Mark R.	.ThOB pm 3:30 .TP 38 .TP 37 .TP 68 .WP 466 .WP 456 .MP 63 .TP 016 .MP 544 .MP 583 .TP 436 .MP 411 .MP 355 .TP 234 .TP 314 .MP 365 .TP 234 .TP 316 .MP 686 .MP 686 .MP 686 .MP 686 .MP 466 .MP 506 .ThP 320 .ThP 460
Chamot-Rooke, Julia. Chamot-Rooke, Julia. Champaign, Joseph M. Champion, Matthew Champion, Matthew M. Chan, Alfred W. H. Chan, Chi-On Chan, Daniel Chan, Daniel W. Chan, Daniel W. Chan, Pik Kay Chan, Shan-An Chance, Mark Chance, Ma	.ThOB pm 3:30 .TP 38 .TP 37 .TP 687 .WP 460 .WP 450 .MP 630 .TP 015 .MP 542 .MP 583 .TP 430 .MP 411 .MP 363 .TP 232 .TP 322 .TP 322 .TP 322 .TP 322 .TP 322 .TP 322 .TP 324 .MP 612 .MP 612 .MP 660 .MP 600 .TP 460 .TP 460 .TP 460 .TP 460



Chandramauli Pharat	MD 202	Chan	Chung Hauan	TD 420	Chan	Maihin	MD 100
Chandramouli, Bharat Chang, Emmanuel				TP 429 TP 442			MP 188
Chang, Feng-Ming			•	WP 573	,		ThOD am 09:50
Chang, Hui Hwa							ThP 367
				MP 526	,		
Chang, Jae-Woong				TP 186	,		ThP 601
Chang, Jaw-Kang				MP 375			ThP 607
Chang, Jer-gung		,	,	WP 157	,		TP 510
Chang, Matt S				ThOF am 09:10			WOH pm 2:50
Chang, Ming-Chu			•	ThP 498			WP 671
Chang, Ting Hao				ThP 520	,		MOD am 09:50
Chang, Ying-Hua		Chen,	Hao	MP 016			MP 599
Chang, Ying-Hua	TP 385	Chen,	Hao	MP 020	Chen,	Weixuan	ThP 587
Chang, Yu-Sun	MP 468	Chen,	Hao	ThP 471	Chen,	Weixuan	TP 599
Chang, Yu-Ting	MP 461	Chen,	Hao	TP 406	Chen,	Xi	ThP 257
Channaveerappa, Devika	WP 273	Chen.	Hauh-Jvun Candv	ThP 564	Chen.	Xian	MP 614
Chanover, Nancy				MP 527	Chen.	Xian	ThP 460
Chanover, Nancy				WP 022			TP 129
Chanthamontri, C. Ken			•	MP 301	,		TP 452
Chao, Moses				MP 468			TP 598
Chao, Weigian		,		ThP 341	,		ThP 315
Chaparro, Jacqueline		,		ThP 328			TP 028
Chapdelaine, John				MP 664			MP 610
Chapman, Jessica				ThOG pm 3:50			TP 520
Chapman, Richard				ThOG pm 3:30			ThP 613
•		,					
Chapnick, Douglas		,		ThP 201			TP 221
Chapnick, Douglas				MP 019			ThOH pm 4:10
Chaput, Dale				MP 325			MP 504
Chaput, Dale				TP 097			WP 379
Charbit, Alain		,		TP 327	,		WP 372
Charegaonkar, Akshay				WP 020	,		TP 004
Charepalli, Venkata		Chen,	Huanwen	WP 449	Chen,	Yi-Chen	TP 394
Charette, Laci	MP 479	Chen,	Hui	ThP 043	Chen,	Yi-Lynn	MP 225
Charland, Jean-Pierre		Chen,	I-Hsuan	ThP 551	Chen,	Ying-Jr Amanda	MP 340
Charles, Laurence	ThOE pm 3:10	Chen,	Jenny	WP 379	Chen,	Ying-Jr Amanda	TP 185
Charles, Laurence		Chen,	Jerry C.D	TP 537	Chen,	Yinjuan	TP 049
Charpentier, Bruno	WP 641	Chen.	Jianzhong	WP 253	Chen.	Yinjuan	WP 574
Charrier, Jean-Philippe				TP 098			MP 468
Chatterjee, Subroto				TP 155			WP 190
Chaturongkasumrit, Yuphakhun .				TP 170			TP 470
Chaudhary, Ashish			•	WP 494	,		MP 249
Chaudhuri, Rima				ThP 142	,		ThP 427
Chaugule, Jui				MP 542			WP 107
Chauhan, Ruchi		,		MP 583			ThP 574
Chauhan, Vinita				TP 155			MP 691
		,	,		,		
Chaurand, Pierre				TP 436	,		ThP 183
Chaurand, Pierre				WP 173			ThP 155
Chaurand, Pierre			•	ThP 093	,		ThP 281
Chaurand, Pierre				WP 250			MP 578
Chaurasiya, Narayan D		,		WOH pm 2:50	,		ThP 324
Chauthe, Siddheshwar				WP 671			ThP 328
Chauvel, Paul				MP 652	,		TP 464
Chavez, Juan		,		MP 478			WP 384
Chavez, Juan				ThP 551			TP 505
Chavez-Eng, Cynthia M	MP 287	Chen,	Michael	MP 315	Chen,	Zhengwei	WP 575
Chavez-Eng, Cynthia M				MP 241	,		ThP 650
Che, Di				TP 693			ThP 413
Cheadle, Carl		,	•	MP 364	Chen,	ZiWei	ThP 360
Cheema, Amrita K				TP 013			TP 376
Chellman, John	WP 206			ThP 564			TP 380
Chen, Ai	TP 337	Chen,	Ping-Chung	ThP 586	Chend	o, Christophe	ThP 065
Chen, Amanda	TP 178	,	0 0	MP 241			WP 488
Chen, Anna	MOB pm 3:10			ThP 147			TP 531
Chen, Anna	MP 360			MOE am 08:50	Cheng	, Haiyan	WP 073
Chen, Beibei				TOH am 09:50			MP 241
Chen. Bifan		,	, ,	ThP 465			ThP 568
Chen, Bifan				MOD pm 2:30			TP 150
Chen, Bingming				ThP 568			MP 649
Chen, Bingming	•			MP 538	_	''	MP 658
Chen, Buyun				ThP 215			WP 454
Chen, Chein-Hung				WP 567	-		WP 454
		,					
Chen, Chein Hung				MP 587			TP 011
Chen, Chein-Hung				TP 606	-		TP 221
Chen, Chein-Hung				WP 631			WP 150
Chen, Chen-Chun				WP 215	-		MP 492
Chen, Chien-Hsun			•	ThOA am 10:10			MP 632
Chen, Chung-Hsuan				MP 081			ThP 546
Chen, Chung-Hsuan			•	TOA pm 2:50	-		ThP 540
Chen, Chung-Hsuan				MP 137			ThP 534
Chen, Chung-Hsuan	MP 679	Chen,	Tsung-Chi	TP 074	Cheng	ı, Zhongyi	ThP 541



Observe 7th and the	TI D 570	Obst. II	WD 044	0 1	TD 400
Cheng, Zhongyi		Choi, Hyungwon		Ciavarini, Steve	
Cheng, Zhongyi Cherkassky, Alexander		Choi, Hyungwon Choi, Jaewon		Ciavarini, Steve Ciavarini, Steve	
Cherkassky, Alexander		Choi, Jaewon		Ciavarini, Steve	
Cherkassky, Alexander		Choi, Jaewoo		Ciavarini, Steve	
Chernobrovkin, Alexey		Choi, Jin-Young		Ciborowski, Michal	
Chernookiy, Dmitriy		Choi, Jong Min		Ciborowski, Pawel	
Chernushevich, Igor		Choi, Meena		Ciccimaro, Eugene F	
Chetwyn, Nik		Choi, Sam		Ciccimaro, Eugene F	
Cheung, Crystal		Choi, Timmy L. S		Ciccimaro, Eugene F	
Cheung, Tommy		Choi, Wonseok		Ciccimaro, Jr, Eugene	
Cheung, Tommy K		Choi, Wonseok		Ciesielski, Tomasz	
Chevreuil, Marc		Chong, Leelyn		Cieslinski, Robert	
Chew, Yin Ling		Chong, Leelyn		Cifani, Paolo	
Chew, Yin Ling		Chong, Leelyn	WP 436	Cifani, Paolo	
Chhuon, Cerina		Choong, Wai-Kok		Cilia, Marta	
Chi, Hao		Chou, Albert		Cilia, Michelle	MOD pm 3:10
Chi, Hao	WP 334	Chou, Albert	WOF pm 2:30	Cimermančič, Peter	WOF am 10:10
Chi, Hao	WP 332	Chou, Jo Han	TP 013	Cindrić, Mario	TP 580
Chi, Hao	WP 400	Chou, Szu-Wei	TP 075	Cisneros, Alejandro	ThP 076
Chi, Jingduan	MP 250	Chou, Szu-Wei	WP 488	Citrowske, Scott	
Chi, Lang-Ming	ThP 114	Chou, Tsong-Yung	MP 301	Cizkova, Dasa	MP 506
Chia-Hsiun, Liu	TP 545	Choudhury, Feroza K	ThP 056	Clapp, Phillip	WOE pm 2:50
Chiang, Jennifer		Chouinard, Christopher	ThP 652	Clark, Maggie	
Chiang, Vincent		Chouinard, Christopher D		Clark, Sean W	
Chiang, Wei-Fan		Chouinard, Christopher D		Clarke, David J	
Chiapetta, Simone		Chourey, Karuna		Clarke, Graham	
Chiaravalle, A Eugenio		Chow, Jesse		Clarke, Lorne A	
Chiarelli, M. Paul		Chowdhry, Babur		Clarke, Rosemary	
Chiarelli, M. Paul		Chowdhury, Saiful		Classon, Marie	
Chiba, Hitoshi		Chowdhury, Saiful		Claude, Emmanuelle	
Chick, Joel		Chrisler, William		Claude, Emmanuelle	
Chick, Joel		Chrisler, William B		Claude, Emmanuelle	
Chien, Allis		Chrisler, William B		Claude, Emmanuelle	
Chien, Allis		Christensen, David		Clauss, Therese RW	
Chien, Allis S		Christensen, Earl		Clayton, Richard	
Chien, Allis S		Christensen, Lauge		Clegg, Robert	
Chien, Kun-Yi		Christensen, Søren		Cleland, Gareth	
Chienwichai, Peerut		Christian, Rose		Cleland, Gareth	
Chilmonczyk, Mason		Christiansen, Klaus		Cleland, Timothy	
Chilton, John		Christiansen, Lars		Clemen, Martin	
Chilton, John		Christianson, Chad		Clement, Cristina	
Chingin, Konstantin		Christie, Andrew E		Clemmer, David	•
Chiorean, Gabriela		Christison, Terri		Clemmer, David	
Chiplunkar, Sanket		Christopher, Lisa		Clemmer, David	
Chiplunkar, Sanket		Christophersen, Gyda		Clemmer, David	
Chiplunkar, Sanket		Chu, Caroline S		Clemmer, David	
Chipperfield, John		Chu, Caroline S		Clemmer, David E	
Chipperfield, John		Chu, Caroline S		Clemmer, David E	
Chipuk, Joseph		Chu, Fanny		Clench, Malcolm	
Chiron, Lionel		Chu, Feixia		Clench, Malcolm	
Chiron, Lionel		Chu, Ge		Clench, Malcolm	
Chiron, Lionel		Chu, Jasper X.		Clench, Malcolm	
		Chu, Phillip		Clench, Malcolm R	
Chiu Higgs Vi					
Chiu, Hisen-Yi		Chu, Rosalie		Clause Steven K	
Chiu, Yulun Chiva, Cristina		Chu, Rosalie Chu, Rosalie K		Clouse, Steven Clouse, Steven	
Chiva, Cristina		Chu, Rosalie K.		Clowers, Brian	
Cho, Chung Y		Chu, Rosalie K.		Clowers, Brian H	
Cho, David	•	Chu, Rosalie K.		Clowers, Brian H	
Cho, Hyun-Deok Cho, Ji-Hoon		Chu, Yanqiu Chuang, Dennis Y		Clowers, Brian H Clubb, Aaron B	
Cho, Ji-Hoon		Chui, David H. K.		Coats, Steven	
		Chumala, Paulos		Cobbaert, Christa	
Cho, Joo Youn Cho, Joo-Youn					
,		Chumbley, Chad		Cochran, Chip	
Cho, Joo-Youn Cho, Kevin		Chumbley, Chad Chumbley, Chad		Cochran, Jack Codo, Ana	
Cho, Kevin		-			
,		Chung, Hin Yiu		Codreanu, Gabriela	
Cho, Kevin		Chung, Hin Yiu		Codreanu, Simona	
Cho, Patricia		Chung, Hin Yiu		Cody Crystal	
Cho, Sool Yeon		Chung, Juijung		Cody, Crystal	
Cho, Tae Joon		Chung, Ying-hua		Cody, Robert P.	
Cho, Wonrycon		Churley, Melissa		Cody, Robert B	
Cho, Wonryeon		Churley, Melissa		Cody, Robert B	
Cho, Yoon-Jae		Chusongsang, Phiraphol		Cody, Robert B	
Cho, Yunju		Ciamponi, Ana		Cody, Robert B	
Choi, Bernard		Cianférani, Sarah		Cody, Robert B	
Choi, Bernard		Cianférani, Sarah		Coebergh van den Braak, F	
Choi, Eun Kyoung	1P 368	Ciavarini, Steve	MP 435	Cohen, Aharon	10H am 09:30



Cohen, Aharon	
	TP 574
Cohen, Herbert	
Cohen, LucindaCohen, Lucinda	
Cohen, Lucinda	
Cohen, Richard	
Cohen, Richard A	
Cohen, Richard A	
Cohen-Gadol, Aaron	
Cohen-Kaminsky, Sylvia	
Cohn, WhitakerCohn, Whitaker	
Cojocariu, Cristian	
Colaco, Allie	
Colak, Gozde	
Colamonici, Cristiana Colangelo, Christopher	
Colantonio, David	
Colas, Olivier	
Colby, Gregory	
Cole, Daniel	ThP 001
Cole, Daniel	
Cole, Harriet L	
Cole, Jason	
Cole, Jason	
Cole, Jason S	
Cole, Laura	
Cole, Laura M	
Cole, Richard B.	
Cole, Richard B.	
Cole, Robert	
Cole, Robert N.	
Coleman, Paul	
Colletes, Thays C.	
Collins, Andrew	ThP 451
Collins, Aunshka	
Collins, Ben	
Collins, Ben Collins, James	
Collins, James	
Cologna, Stephanie	
Cologna, Stephanie M	TP 634
Colquhoun, David	MP 007
Colquhoun, David Colquhoun, David	MP 007 TP 581
Colquhoun, David Colquhoun, David Colquhoun, David	MP 007 TP 581 WP 359
Colquhoun, David	MP 007 TP 581 WP 359 WP 365
Colquhoun, David	MP 007 TP 581 WP 359 WP 365 ThP 225
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit	
Colquhoun, David	MP 007
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit	MP 007
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colucci, Wilson Colucci, Wilson Colucci, Wilson S	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colucci, Wilson Colucci, Wilson Colucci, Wilson S Comabella, Manuel	MP 007TP 581WP 359WP 365ThP 225TOE pm 2:30TP 176WP 258MP 485WP 330ThP 555MP 476
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colucci, Wilson Colucci, Wilson Colucci, Wilson S Comabella, Manuel Combadière, Béhazine	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colucci, Wilson Colucci, Wilson Colucci, Wilson S Comabella, Manuel	MP 007TP 581WP 359WP 365ThP 225TOE pm 2:30TP 176WP 258MP 485WP 330ThP 555MP 476TP 661MP 012
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Comabella, Manuel Combadière, Béhazine Combariza, Marianny Y. Combariza, Marianny Y. Combariza, Marianny Y.	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476 TP 661 MP 012 MP 666 MP 647
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Combariza, Marianny Y.	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665
Colquhoun, David	MP 007TP 581WP 359WP 365ThP 225TOE pm 2:30TP 176WP 258MP 485WP 330ThP 555MP 476TP 661MP 012MP 666MP 667TP 665TP 201
Colquhoun, David	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476 MP 012 MP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368
Colquhoun, David	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368 MOC am 09:50
Colquhoun, David	MP 007 TP 581 WP 359 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 MP 330 ThP 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368 MOC am 09:50 MOC pm 3:50
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Combariza, Marianny Y Combariza, Marianny Y Combariza, Marianny Y Combariza, Marianny Y Comi, Troy Comi, Troy Comi, Troy Commodore, Juliette J Compton, Philip Compton, Philip Compton, Philip Compton, Philip	MP 007TP 581WP 359WP 359WP 365ThP 225TOE pm 2:30TP 176WP 258MP 485WP 330ThP 555MP 476TP 661MP 012MP 666MP 667TP 201ThP 368MOC am 09:50MO cm 3:50MP 087MP 087TOF pm 3:10
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colucci, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson S Comabella, Manuel Combadière, Béhazine Combariza, Marianny Y Combariza, Marianny Y Combariza, Marianny Y Comi, Troy Comi, Troy Comi, Troy Commodore, Juliette J Compton, Philip Compton, Philip Compton, Philip Compton, Philip Compton, Philip Compton, Philip	MP 007TP 581WP 359WP 359WP 365ThP 225TOE pm 2:30TP 176WP 258MP 485WP 330ThP 555MP 476TP 661MP 012MP 666MP 667TP 665TP 201ThP 368MOC am 09:50MOC pm 3:50MP 087TOF pm 3:10TP 441
Colquhoun, David	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368 MOC am 09:50 MOC pm 3:50 MP 087 TOF pm 3:10 TP 441 TP 508
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Combadière, Béhazine Combadière, Béhazine Combariza, Marianny Y. Combariza, Marianny Y. Comi, Troy. Comi, Troy. Comi, Troy. Commodore, Juliette J. Compton, Philip	MP 007 TP 581 WP 359 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368 MOC am 09:50 MOC pm 3:50 MP 087 TOF pm 3:10 TP 508 MP 213
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colucci, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Combadière, Béhazine Combadière, Béhazine Combariza, Marianny Y. Combariza, Marianny Y. Comi, Troy. Comi, Troy. Comi, Troy. Commodore, Juliette J. Compton, Philip	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368 MOC am 09:50 MOC pm 3:50 MP 087 TOF pm 3:10 TP 441 TP 508 MP 213
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colucci, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Combadière, Béhazine Combadière, Béhazine Combariza, Marianny Y. Combariza, Marianny Y. Comi, Troy Comi, Troy Comi, Troy Commodore, Juliette J Compton, Philip D Compton, Philip D	MP 007 TP 581 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 ThP 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368 MOC am 09:50 MOC pm 3:50 MP 087 TOF pm 3:10 TP 441 TP 508 MP 213 WOG am 09:30 WOH pm 3:30
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson S Comabella, Manuel Combadière, Béhazine Combariza, Marianny Y Combariza, Marianny Y Combariza, Marianny Y Comi, Troy Comi, Troy Comi, Troy Compton, Philip D	MP 007TP 581WP 359WP 359WP 365ThP 225TOE pm 2:30TP 176WP 258MP 485WP 330ThP 555MP 476TP 661MP 012MP 666MP 666MP 667TP 368MOC am 09:50MO pm 3:50MP 087TOF pm 3:10TP 441TP 508MP 213WOG am 09:30WOH pm 3:30WOH pm 3:30WOH pm 3:30WOH pm 3:30
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colucci, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson Combadière, Béhazine Combadière, Béhazine Combariza, Marianny Y. Combariza, Marianny Y. Comi, Troy. Comi, Troy. Comi, Troy. Commodore, Juliette J. Compton, Philip D Compton, Kate Comstock, Kate	MP 007 TP 581 WP 359 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 Thp 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368 MOC am 09:50 MOC pm 3:50 MP 087 TOF pm 3:10 TP 508 MP 213 WOG am 09:30 WOH pm 3:30 ThP 063 ThP 269 TP 333
Colquhoun, David Colquhoun, David Colquhoun, David Colquhoun, David Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Benoit Colsch, Wilson Colucci, Wilson Colucci, Wilson Colucci, Wilson S Comabella, Manuel Combadière, Béhazine Combariza, Marianny Y Combariza, Marianny Y Combariza, Marianny Y Combariza, Marianny Y Comi, Troy Comi, Troy Comi, Troy Compton, Philip D Comstock, Kate Comstock, Kate	MP 007 TP 581 WP 359 WP 359 WP 365 ThP 225 TOE pm 2:30 TP 176 WP 258 MP 485 WP 330 Thp 555 MP 476 TP 661 MP 012 MP 666 MP 647 ThP 665 TP 201 ThP 368 MOC am 09:50 MOC pm 3:50 MP 087 TOF pm 3:10 TP 508 MP 213 WOG am 09:30 WOH pm 3:30 ThP 063 ThP 269 TP 333

Comte, Rahel		WP 012
Comte-Walters, Susana		WD 308
Comtois-Marotte, Simon		TD 206
Condina, Mark		VVF 340
Condulle, Angelo		
Conner, Alex		IP 242
Conner, Leigh		
Connolly, Joanne B		WP 280
Connolly, Lanelle		
Connolly, Paul		
Connolly, Paul		.MP 317
Connolly, Paul		
Connolly, Paul		ThP 150
Connors, Rose		TP 161
Connors, Rose		WP 370
Conrads, Thomas		
Contrepois, Kevin		TP 211
Cook, K. Steven	WOH	pm 2:30
Cook, Kelsey D		MP 074
Cook, Kevin		
Cooke, Ira	TOR	m 00.50
Cooke, Ira	. 100 8	TD 427
Cooke, Ira		
Cooks, R. Graham		
Cooks, R. Graham		
Cooks, R. Graham		.MP 043
Cooks, R. Graham		
Cooks, R. Graham		
Cooks, R. Graham		ThP 013
Cooks, R. Graham		
Cooks, R. Graham	WOA	pm 3:30
Cooks, R. Graham	WOE	pm 3:10
Cooks, R. Graham		
Cooks, R. Graham		
Cooks, R. Graham		MP 319
Cools, Willy		WP 147
Coon, Joshua		MD 428
Coon, Joshua J		
Coon Joshua J	IVIOD	pm 2.50
Coon, Joshua J		
Coon, Joshua J		
Coon, Joshua J		.MP 588
Coon, Joshua J		
Coon, Joshua J		
Coon, Joshua J		ThP 326
Coon, Joshua J	TOA	pm 4:10
Coon, Joshua J		TP 218
Coon, Joshua J		TP 370
Coon, Joshua J		TP 415
Coon, Joshua J		TP 588
Coon, Joshua J		
Coon, Joshua J.		
Coon, Joshua J		WP 460
Cooper, Allen M.		
Cooper, Donald		ThD 287
Cooper, Garth J. S		
Cooper, Helen		WP 536
Cooper, lan		
Cooper, Jane		ThP 418
Cooper, Jonathan		WP 678
Coopersmith, Brad		
Cooperstone, Jessica		
Copeland, Daniel		
Copeland, Daniel		
Copper, Christine		
Corbeil, Jacques		
Corbett, John		
Corbett, John		
Corbett, John		
Corbit, Aaron		
Coresh, Josef		.MP 569
Corilo, Yuri		IP 236
Corilo, Yuri		
Corilo, Yuri E		
Corilo, Yuri E		.MP 642

Corilo, Yuri E	. ThOG pm 3:30
Cornelius, Kathleen	
Cornett, Shannon	
Cornil, Jérôme	ThP 099
Cornish, Timothy	
Cornish, Timothy Cornwell, Owen	
Correa, Deleon	
Cort, John R	
Corthals, Garry	
Corthésy, John	
Cosenza, Stephen C	
Cosgrave, Eoin F.J.	
Cosgrove, John R	MP 383
Coskun, Ünal	
Costa Carvalho, Paulo	
Costa Pinho, Joao Paulo	
Costabeber, Ijon iHilda	
Costanzo, Michael	
Costanzo, Michael T	MP 122
Costanzo, Michael T	WP 207
Costello, Catherine E	
Costello, Catherine E	
Costello, Catherine E	TP 483
Costello, Catherine E	
Costello, Catherine E	
Costello, Catherine E	
Costello, Catherine E.	
Costello, Catherine E	
Cotham, Victoria	ThP 489
Cotham, Victoria C	TP 112
Cotter, David	
Cotton, Joanne	
Cottrell, John S	
Coulembier, Olivier	ThP 069
Coupier, Bruno	ThOA am 09:10
Coupier, Bruno	
Court, Magali	
Courvalin, Patrice	
Cousineau, Christopher	
Couto, Taciana	
Coutouly, Marie-Aude	
Couture, Jean-Francois	
Couvillon, Anthony	
Covey, Thomas	MOA am 09:10
Covey, Tom	
Covington, Margaret	
Cowart, Emily	
Cowart, Emily	
Cox, Brian M	
Cox, Brian M	
Cox, David	
Cox, Holly	
Cox, Jonathan	
Cox, Juergen	WOB pm 3:50
Cox, Jürgen	MP 529
Cox, Richard	WP 007
Cox, Richard M.	
Coy, Stephen	ThP 650



Coy, Stephen L	MP 118
Cozikova, Dagmar	
Cramer, Nick	
Cramer, Rainer	
Cramer, Rainer	ThP 014
Cramer, RainerW	OA am 08:50
Crappé, Jeroen	ThP 467
Crappé, JeroenT	OB am 08:50
Cravedi, Jean-Pierre	
Craven, KirstenT	
Craveri, Kirsteri	TD 050
Crawford, Elizabeth	
Crawford, Fiona	
Crawford, Fiona	TP 573
Crawford, Peter	MOB pm 3:10
Crecelius, Anna C	
Crecelius, Anna C	
Creese, Andrew	
Creese, Andrew	
Creese, Andrew	MP 487
Creese, Andrew J	ThP 316
Creese, Michael	ThP 063
Creighton, Chad J.	
Cremin, John	
Creskey, Marybeth	
Crimmins, Bernard	
Cristea, Ileana M	MP 539
Cristea, Ileana M	
Cristea, Ileana MT	
Cristea, Ileana M	
Cristea, Ileana M	
Crittenden, Christopher	
Crizer, David M	
Croley, Timothy R	
Crone, Catharina	
Cross, Neil	ThP 188
Cross, Neil	
Croushore, Callie	ThP 390
Crow, Brian	ThP 210
Crow, Marni	
Crow, Marni S.	
Crowe, Matthew	NOA pm 3:50
Crowel, Kevin L	NOA pm 3:50 TP 253
Crowell, Kevin L	NOA pm 3:50 TP 253 WP 664
Crowe, Matthew	WOA pm 3:50 TP 253 WP 664 ThP 086
Crowe, Matthew	WOA pm 3:50 TP 253 WP 664 ThP 086 TP 152
Crowe, Matthew	WOA pm 3:50 TP 253 WP 664 ThP 086 TP 152 WP 615
Crowe, Matthew	WOA pm 3:50 TP 253 WP 664 ThP 086 TP 152 WP 615 ThP 583
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50 TP 253 WP 664 ThP 086 TP 152 WP 615 ThP 583 TP 573 OE am 08:50
Crowe, Matthew	WOA pm 3:50 TP 253 WP 664 ThP 086 TP 152 WP 615 ThP 583 TP 573 OE am 08:50 MP 635
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50 TP 253 WP 664 Th 168 TP 152 Th 583 TP 573 OE am 08:50 MP 635 OH am 09:10 TP 593 ThOA pm 3:10
Crowe, Matthew	WOA pm 3:50TP 253WP 664ThP 086TP 152ThP 583TP 573 OE am 08:50MP 635 OH am 09:10TP 593 'hOA pm 3:10TP 584ThP 513
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50TP 253WP 664ThP 086TP 152WP 615ThP 583TP 573 OE am 08:50 OH am 09:10TP 593 hOA pm 3:10TP 584ThP 517ThP 568MP 309ThP 549ThP 549ThP 540ThP 540ThP 540ThP 541ThP 542ThP 543ThP 543ThP 544ThP 546ThP 546ThP 548ThP 548ThP 495TP 203MP 163TP 203MP 163MP 174WP 430WP 430
Crowe, Matthew	WOA pm 3:50TP 253WP 664Th 986TP 152WP 615Th 583Th 573 OE am 08:50MP 635 OH am 09:10TP 593 hOA pm 3:10TP 558Th 517Th 568MP 309Th 547Th 968MP 309Th 9471MP 635Th 9635Th 97471MP 635Th 9635Th 9471MP 163Th 9471MP 163MP 177TP 487
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50TP 253WP 664ThP 086TP 152WP 615ThP 583TP 573 OE am 08:50 OH am 09:10TP 593 hOA pm 3:10TP 584ThP 517ThP 568MP 309ThP 549ThP 495TP 203MP 1635TP 203MP 174MP 635TP 203MP 174MP 635TP 203MP 177TP 487MP 562TP 487TP 562ThP 199 TOE pm 4:10
Crowe, Matthew	WOA pm 3:50TP 253WP 664ThP 086TP 152WP 615ThP 583TP 573 OE am 08:50MP 635 OH am 09:10TP 593 'hOA pm 3:10TP 574ThP 517ThP 568MP 309ThP 517ThP 568MP 309ThP 495TP 471MP 635TP 203MP 163MP 174WP 430WP 177TP 487MP 531ThP 592TP 487MP 531ThP 199 TOE pm 4:10ThP 083
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50
Crowe, Matthew	WOA pm 3:50TP 253WP 664ThP 086TP 152WP 615ThP 583TP 573 OE am 08:50 OH am 09:10TP 593 hOA pm 3:10TP 584ThP 517ThP 568MP 309ThP 547MP 635TP 203MP 1635TP 203MP 174MP 635TP 203MP 179TP 487MP 179TP 487TP 487TP 562ThP 199 TOE pm 4:10ThP 083 OG am 09:50WP 044MP 487TP 009
Crowe, Matthew	WOA pm 3:50TP 253WP 664ThP 086TP 152WP 615ThP 583TP 573 OE am 08:50MP 635 OH am 09:10TP 593 'hOA pm 3:10TP 554ThP 517ThP 568MP 309ThP 517ThP 568MP 309ThP 495TP 471MP 635TP 203MP 163MP 174WP 430WP 177ThP 581ThP 593ThP 593ThP 174ThP 593ThP 174ThP 635ThP 179ThP 179ThP 487MP 531ThP 593ThP 199 TOE pm 4:10ThP 083 OG am 09:50WP 044MP 487TP 009MP 378
Crowe, Matthew	WOA pm 3:50TP 253WP 664Th 986TP 152WP 615Th 583Th 573 OE am 08:50MP 635 OH am 09:10TP 593 hOA pm 3:10TP 558Th 513Th 517Th 568MP 309Th 9517Th 9568MP 309Th 9495Th 491Th 9635Th 170Th 983Th 962Th 1963Th 963Th 973Th
Crowe, Matthew	WOA pm 3:50TP 253WP 664Th 986TP 152WP 615Th 583Th 573 OE am 08:50MP 635 OH am 09:10TP 593 hOA pm 3:10TP 558Th 513Th 517Th 568MP 309Th 9517Th 9568MP 309Th 9495Th 491Th 9635Th 170Th 983Th 962Th 1963Th 963Th 973Th

Curley Jr, Robert		WP	097
Currie, Cameron		.MP	226
Curtis, Matthew		ThP	139
Curtis, Matthew			
Cushman, John C Cutak, Benjamin			
Cuthbertson, Daniel		.IVIF	004
Cuyckens, FilipT			
Cuyckens, Filip			
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De Meester, Ellen	TOB am 08:50MOB am 10:10MOG pm 3:10MP 514ThP 469MP 514ThOB am 09:10MP 514ThOB am 09:10MP 564WP 564WP 578WP 582TP 094MOC pm 3:30TP 523 JulianaMP 431TP 665WP 147ThP 665WP 147ThP 069ThP 999ThP 282TP 470ThP 107WOC pm 2:50WP 033MP 628TP 190WP 523TP 030ThOE am 09:50WP 625ThP 628MP 049MP 049
De Meester, Ellen	TOB am 08:50 MOB am 10:10 MOG pm 3:10 MP 514 ThP 469 MP 514 ThOB am 09:10 ThP 099 WP 226 WP 564 WP 578 WP 578 WP 582 TP 094 MOC pm 3:30 TP 523 Juliana MP 431 ThP 665 WP 147 ThP 665 WP 147 ThP 069 ThP 282 TP 470 ThP 107 WOC pm 2:50 WP 033 MP 628 TP 190 WP 523 TP 190 WP 523 TP 190 WP 523 TP 190 WP 625 ThP 628 MP 049 MP 049 MP 049 MP 049 MP 049 MP 092
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De Meester, Ellen De Moor, Bart De Moor, Bart De Moor, Bart de Oliveira, Luciana Gonzaga De Pauw, Edwin De Raad, Markus de Reuse, Hilde de Ru, Arnoud de Saldanha da Gama Fischer, de Vries, Ronald De Winter, Julien De Winter, Julien De Winter, Julien De Winter, Julien Dean, Brian Dearden, David V Dearden, David V Dearth, Stephen Dearth, Stephen DeBlase, Andrew DeBlase, Andrew DeBlase, Andrew DeBoord, Daniel Debord, Daniel	TOB am 08:50MOB am 10:10MOG pm 3:10MP 514ThP 469MP 514ThOB am 09:10ThP 099WP 564WP 578WP 582TP 094MOC pm 3:30TP 523 JulianaMP 431ThP 665WP 147ThP 665WP 147ThP 069ThP 099ThP 107WOC pm 2:50WP 033MP 628TP 190WP 523TP 190WP 523TP 190WP 523TP 190WP 625ThP 628MP 049MP 090ThP 268MP 049MP 090ThP 206MP 606MP 090ThP 206MP 607MP 090ThP 206MP 607MP 090ThP 206MP 607ThP 206MOF am 09:10ThP 268

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Dimayacyac-Esleta, Baby Ro		g, Rui		Duan, Xiaokun	
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Ding, ChuanFan		g, Xueming		Dube, Pascal	
Ding, Chuanfan		g, Xueming		Dubey, Sachin	
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Dodds, Eric D Dodds, Eric D		ichi, Norman Jichi, Norman J		Dunk, Paul W Dunkley, Tom	
Dodds, Eric D		<i>i</i> , Alex		Dunn, Barbara	
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Doneanu, Catalin Doneanu, Catalin		Bing Jianhai		Dutta, Tumpa Duvivier, Wilco	
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Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O Edwards, Bethanie Edwards, Nathanie Edwards, Nathan. Edwards, Nathan J. Edwardsen, Jonathan. Eeckhaut, Igor Efstathiou, Eleni Egan, Matthew Egertson, Jarrett	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062
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Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, Nathan Edwards, Nathan J. Edwardsen, Jonathan. Eeckhaut, Igor Efstathiou, Eleni. Egan, Matthew. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett D. Eggers, Frederike.	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062 TP 159 WOB am 08:50
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David Edwards, Nathan Edwards, Nathan J. Edwardsen, Jonathan. Eeckhaut, Igor Efstathiou, Eleni. Egan, Matthew. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett.	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062 TP 159 WOB am 08:50 TP 495 MP 188
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Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, Nathan Edwards, Nathan J. Edwards, Nathan J. Edkardsen, Jonathan. Eeckhaut, Igor Efstathiou, Eleni. Egan, Matthew. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett D. Eggers, Frederike Eggertson, Michael Ehlert, Sven Ehling, Stefan Ehrlich, Hans-Christian. Eichholz, Todd.	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062 TP 159 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 402 TOB am 10:10 TOG am 09:10
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, Nathan. Edwards, Nathan J. Edwards, Nathan J. Edwardsen, Jonathan. Eeckhaut, Igor. Efstathiou, Eleni. Egan, Matthew. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett D. Eggers, Frederike Eggertson, Michael Ehlert, Sven Ehling, Stefan Ehling, Stefan Ehrlich, Hans-Christian. Eichholz, Todd. Eichner, Daniel	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062 TP 159 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 402 TOB am 10:10 TOG am 09:10 TOG am 09:10
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David Edwards, Nathan Edwardsen, Jonathan Eeckhaut, Igor Efstathiou, Eleni Egan, Matthew Egertson, Jarrett Egertson, Frederike Eggertson, Michael Ehlert, Sven Ehling, Stefan Ehling, Stefan Ehrlich, Hans-Christian. Eichholz, Todd Eichner, Daniel Eickhoff, Christopher.	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 465 MP 495 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 422 TOB am 10:10 TOG am 09:10 THP 294 TP 522
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Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David Edwards, Nathan Edwards, Nathan J. Edwards, Nathan J. Edwards, Igor Efstathiou, Eleni Egan, Matthew Egertson, Jarrett Egertson, Jarrett Egertson, Jarrett D. Eggers, Frederike Eggertson, Michael Ehlert, Sven Ehling, Stefan Ehling, Stefan Eichholz, Todd Eichner, Daniel Eickhoff, Christopher Eijkel, Gert B. Eijkel, Gert B. Eikel, Daniel	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062 TP 159 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 402 TOB am 10:10 TOG am 09:10 ThP 294 TP 522 TP 493 WP 473 WP 104
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David Edwards, Nathan Edwards, Nathan J. Edwardsen, Jonathan. Eeckhaut, Igor Efstathiou, Eleni. Egan, Matthew. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett D. Eggers, Frederike. Eggertson, Michael Ehlert, Sven Ehling, Stefan Ehrlich, Hans-Christian. Eichholz, Todd. Eichner, Daniel Eickhoff, Christopher Eijkel, Gert B. Eijkel, Gert B. Eikel, Daniel Einarsdottir, Eydis.	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062 TP 159 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 402 TOB am 10:10 TOG am 09:10 TP 294 TP 522 TP 492 WP 473 WP 104 TP 220
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David Edwards, Nathan Edwardsen, Jonathan Eeckhaut, Igor Efstathiou, Eleni Egan, Matthew Egertson, Jarrett Egertson, Jarrett Egertson, Jarrett Egertson, Jarrett Egertson, Jarrett Egertson, Michael Ehlert, Sven Ehling, Stefan Ehling, Stefan Ehrlich, Hans-Christian. Eichholz, Todd Eichner, Daniel Eickhoff, Christopher Eijkel, Gert B Eijkel, Gert B Eikel, Daniel Einarsdottir, Eydis Eintracht, Shaun.	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 405 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 422 TOB am 10:10 TOG am 09:10 TOG am 09:10 THP 294 TP 522 TP 492 WP 473 WP 104 TP 220 MP 315
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David Edwards, Nathan Edwardsen, Jonathan Eeckhaut, Igor Efstathiou, Eleni Egan, Matthew Egertson, Jarrett Egert	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 159 WOB am 08:50 TP 495 MP 188 TP 366 ThP 406 ThP 422 TOB am 10:10 TOG am 09:10 ThP 292 WP 473 WP 104 TP 222 MP 315 MOE pm 4:10
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David. Edwards, Nathan. Edwardsen, Jonathan. Eeckhaut, Igor. Efstathiou, Eleni. Egan, Matthew. Egertson, Jarrett. Eigertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett. Eigertson, Jarrett. Eigert, Jarrett. Eigert, Jarrett. Eigert, Jarrett. Eighel, Gert B. Eijkel, Gert B. Eijkel, Gert B. Eijkel, Gert B. Eijkel, Daniel Einarsdottir, Eydis. Eintracht, Shaun. Eiriksson, Finnur	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 162 TP 162 TP 159 WOB am 08:50 TP 495 MP 188 TP 366 ThP 406 ThP 402 TOG am 09:10 TOG am 09:10 TOG am 09:10 ThP 294 TP 522 TP 492 WP 473 WP 104 TP 220 MP 315 MOE pm 4:10 TP 220
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David. Edwards, Nathan. Edwardsen, Jonathan. Eeckhaut, Igor. Efstathiou, Eleni. Egan, Matthew. Egertson, Jarrett. Egertson, J	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 159 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 422 TOB am 10:10 TOG am 09:10 TOG am 09:10 ThP 294 TP 522 TP 492 WP 473 WP 104 TP 220 MP 315 MOE pm 4:10 MOE pm 4:10 TP 220 MP 347
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David Edwards, Nathan Edwardsen, Jonathan Eeckhaut, Igor Efstathiou, Eleni Egan, Matthew Egertson, Jarrett Egertson, Jarrett Egertson, Jarrett Egertson, Jarrett Egertson, Michael Eghlert, Sven Ehling, Stefan Ehling, Stefan Ehrlich, Hans-Christian. Eichholz, Todd Eickhoff, Christopher Eijkel, Gert B Eijkel, Gert B Eijkel, Gart B Eikel, Daniel Einarsdottir, Eydis Eintracht, Shaun. Eiriksson, Finnur Eiriksson, Finnur Eiriksson, Finnur Eisenman, Robert Ejsing, Christer	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062 TP 159 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 402 TOB am 10:10 TOG am 09:10 TOG am 09:10 TOG am 09:10 TOG am 09:10 TP 294 MP 347 WP 104 TP 220 MP 315 MOE pm 4:10 TP 220 MP 347 WP 246 TP 246
Edgington, Alan. Edgington, Alan. Edgington, Alan. Edgington, Alan. Edvardsson, Vidar O. Edwards, Bethanie Edwards, David Edwards, Nathan Edwards, Nathan J. Edwardsen, Jonathan. Eeckhaut, Igor Efstathiou, Eleni Egan, Matthew Egertson, Jarrett. Egertson, Jarrett. Egertson, Jarrett D. Eggers, Frederike Eggertson, Michael Ehlert, Sven Ehling, Stefan Ehling, Stefan Ehrlich, Hans-Christian. Eichholz, Todd Eichner, Daniel Eickhoff, Christopher Eijkel, Gert B. Eijkel, Gert B. Eikel, Daniel Einarsdottir, Eydis Eintracht, Shaun. Eiriksson, Finnur Eiriksson, Finnur F. Eisenman, Robert. Ejsing, Christer	ThP 048 WP 502 WP 498 WP 495 MOE pm 4:10 TP 265 MP 494 ThP 443 MP 675 ThP 130 ThP 282 MP 392 ThP 559 MOB am 09:50 TP 062 TP 159 WOB am 08:50 TP 495 MP 188 TP 336 ThP 406 ThP 402 TOB am 10:10 TOG am 09:10 TOG am 09:10 TOG am 09:10 TOG am 09:10 TP 294 MP 347 WP 104 TP 220 MP 315 MOE pm 4:10 TP 220 MP 347 WP 246 TP 246

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IBashir, Rasha	
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Ellis, Sam	
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Ilis, Wade	ThP 01
Ilison, Graham	
E lMasri , Marwan	TP 588
E lMasri , Marwan	TP 589
Elnaggar, Mariam S	
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lowe Nadine	TOD am 00.30
lowe, Nadine	
Isasser, Suzanne	ThP 578
Elsasser, Suzanne Elschenbroich, Sarah	ThP 578
Elsasser, Suzanne Elschenbroich, Sarah Elsila, Jamie E	ThP 578 ThP 327 MP 056
Elsasser, Suzanne	ThP 578ThP 327MP 056
Elsasser, Suzanne	ThP 578ThP 327MP 056TP 09 ² ThP 234
Elsasser, Suzanne	ThP 578ThP 327MP 056TP 097ThP 234ThP 668
Elsasser, Suzanne	ThP 578ThP 327MP 056TP 09ThP 234ThP 668WP 032
Elsasser, Suzanne	ThP 578ThP 327MP 056Th 09²ThP 23²ThP 668WP 032TP 596
Elsasser, Suzanne	ThP 576 ThP 327 MP 056 TP 09 ThP 234 ThP 669 WP 032 TP 596 MP 525
Elsasser, Suzanne	ThP 578 ThP 327 MP 056 TP 09 ThP 234 ThP 636 TP 596 MP 032 MP 525 MP 525 MP 008
Elsasser, Suzanne	ThP 578 ThP 323 MP 056 TP 09' ThP 23- ThP 668 WP 032 TP 596 MP 523 MP 008
Elsasser, Suzanne	ThP 578 ThP 325 MP 056 TP 09' ThP 234 ThP 668 WP 032 TP 596 MP 502 MP 008 MP 000 TP 418
Elsasser, Suzanne	ThP 578 ThP 327 MP 056 TP 09 ThP 234 ThP 666 WP 032 TP 596 MP 523 MP 004 TP 418 WP 458
Elsasser, Suzanne	ThP 576 ThP 327 MP 056 ThP 09 ThP 234 ThP 666 WP 032 TP 596 MP 002 MP 002 TP 416 WP 456 MP 276
Elsasser, Suzanne	ThP 576 ThP 327 MP 056 TP 097 ThP 234 ThP 666 WP 033 TP 596 MP 006 MP 006 MP 004 TP 416 WP 456 MP 276 TP 282
Isasser, Suzanne	ThP 576 ThP 372 MP 056 TP 09' ThP 23- ThP 666 WP 032 TP 596 MP 002 MP 004 TP 416 WP 456 MP 276 TP 282 TP 183
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Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 09' ThP 234 ThP 666 WP 032 TP 596 MP 502 MP 004 TP 416 WP 459 MP 276 TP 282 TP 183 ThP 186
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Elsasser, Suzanne	ThP 578 ThP 327 MP 056 TP 09 ThP 234 ThP 666 WP 032 TP 596 MP 523 MP 004 TP 418 WP 458 TP 188 ThP 188 ThP 378 WP 344 WOH pm 345
Isasser, Suzanne	ThP 578 ThP 325 MP 056 TP 09' ThP 23' ThP 668 WP 032 TP 596 MP 004 MP 004 TP 418 WP 456 TP 286 TP 188 ThP 186 ThP 376 WP 341 WP 456 WP 345 WP 456
Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 686 WP 032 TP 596 MP 006 MP 006 TP 418 WP 456 MP 276 TP 282 ThP 188 ThP 188 ThP 378 WP 341 WP 342 WP 456 ThP 378
Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 699 ThP 234 ThP 669 WP 032 TP 596 MP 502 MP 002 TP 418 WP 459 MP 277 TP 282 TP 183 ThP 183 ThP 184 WP 345 WP 345 WP 345 WP 345 WP 345 WP 194
Isasser, Suzanne Ischenbroich, Sarah Isila, Jamie E Isohly, Mahmoud Ivert, Marcus Izey, Sherrie Imdal, Kristina B Imery, Samantha Immer, Asa Immer, Asa Immer, Asa Immer, Asa Immer, Asa Immer, Asa Immord, Genevieve Imond, Genevieve Imond, Joanie Imory, Joshua Imory, Jimmy Ing, Jimmy Ing, Jimmy	ThP 578 ThP 327 ThP 327 ThP 99 ThP 234 ThP 666 WP 032 TP 596 MP 502 MP 004 TP 416 WP 459 MP 276 TP 288 ThP 188 ThP 188 ThP 188 WP 343 WOH pm 3:50 ThP 646 WP 194
Elsasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 686 WP 032 TP 596 MP 523 MP 004 TP 416 WP 458 MP 276 TP 282 ThP 188 ThP 188 ThP 375 WP 343 WOH pm 3:50 ThP 646 WP 194 ThP 444 ThP 444
Isasser, Suzanne	ThP 578 ThP 378 ThP 329 ThP 239 ThP 668 WP 033 TP 596 MP 006 MP 006 TP 418 WP 458 MP 276 TP 288 ThP 188 ThP 188 ThP 376 WP 341 WOF pm 3:56 WP 194 TP 468 WP 194 TP 342 WOE pm 3:56
Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 23- ThP 669 WP 032 TP 596 MP 002 MP 004 TP 418 WP 456 MP 282 ThP 183 ThP 184 ThP 376 WP 344 WOH pm 3:50 TP 446 WP 194 ThP 444 ThP 444 WOE pm 3:56
Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 234 ThP 668 WP 032 TP 596 MP 006 MP 006 TP 418 WP 458 MP 276 TP 282 TP 183 ThP 183 ThP 184 WP 456 WP 174 WP 345 WOH pm 356 TP 466 WP 194 ThP 464 TP 346 WP 194 ThP 444 TP 346 WOE pm 356
Isasser, Suzanne	ThP 578 ThP 321 ThP 322 ThP 325 ThP 695 ThP 695 WP 032 TP 596 MP 006 MP 006 MP 006 TP 418 WP 456 MP 276 TP 286 ThP 188 ThP 188 ThP 188 ThP 378 WP 343 WOH pm 3 564 TP 466 WP 194 TP 344 TP 344 TP 345 WOE pm 3 556 WOE pm 0 356 WOE pm 3 566 TP 466 TP 466 TP 466 TP 467 TP 342
Isasser, Suzanne	ThP 576 ThP 327 ThP 327 ThP 327 ThP 666 ThP 666 WP 032 TP 596 MP 002 MP 002 TP 416 WP 459 MP 276 TP 282 TP 183 ThP 186 ThP 376 WP 342 WOH pm 3:50 ThP 644 TP 469 WP 194 WP 194 TP 342 WOE pm 3:50 WOF am 09:13
Isasser, Suzanne	ThP 578 ThP 378 ThP 329 ThP 239 ThP 668 WP 036 TP 596 MP 006 MP 006 TP 418 MP 276 TP 286 TP 186 ThP 376 WP 341 WOH pm 3:56 WP 194 TP 444 TP 344 WOE pm 3:56 WOF am 09:10 WP 634 WP 634 WP 634 WP 634
Isasser, Suzanne	ThP 578 ThP 378 ThP 329 ThP 239 ThP 669 WP 032 TP 599 MP 502 MP 006 MP 004 TP 418 WP 456 MP 238 ThP 188 ThP 188 ThP 378 WP 344 WOH pm 3:50 TP 498 WP 194 ThP 444 ThP 444 ThP 447 WOE pm 3:56 WW 632 TOD am 09:10 WP 632 WP 644 WP 633
Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 327 ThP 668 WP 032 TP 596 MP 002 MP 652 MP 006 MP 17 TP 418 WP 456 MP 276 TP 282 ThP 188 ThP 188 ThP 376 WP 345 WP 345 WP 194 ThP 444 TP 346 WP 194 ThP 444 TP 346 TP 466 WP 194 TOD am 09:10 WP 632 TOD am 09:36 WP 643 WP 643
Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 327 ThP 669 WP 032 TP 596 MP 006 MP 006 TP 418 WP 456 MP 276 TP 282 TP 183 ThP 185 ThP 186 ThP 376 WP 344 WP 634 WP 634 WP 634 WP 634 WP 634 WP 634
Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 327 ThP 685 WP 032 TP 596 MP 002 MP 002 MP 002 TP 418 WP 458 MP 276 TP 286 TP 188 ThP 188 ThP 378 WP 343 WOH pm 3:56 WP 193 WV 633 WV 632 WV 633
Isasser, Suzanne	ThP 578 ThP 378 ThP 329 ThP 234 ThP 668 WP 036 TP 969 MP 006 MP 006 TP 418 WP 418 TP 286 TP 286 TP 286 TP 286 TP 366 WP 194 WP 637 WP 636
Isasser, Suzanne	ThP 578 ThP 378 ThP 329 ThP 239 ThP 668 WP 033 TP 596 MP 006 MP 006 MP 007 TP 418 MP 276 TP 288 ThP 188 ThP 188 ThP 378 WP 343 WOH pm 3:56 WP 199 ThP 444 TP 344 WOE pm 3:56 WOF am 09:10 WP 632 WP 633 WP 634 WP 636 WP 199 MP 083 TOD am 09:36
Isasser, Suzanne	ThP 578 ThP 327 ThP 327 ThP 327 ThP 327 ThP 669 WP 032 TP 596 MP 002 MP 002 MP 141 WP 456 MP 276 TP 282 ThP 188 ThP 188 ThP 378 WP 345 WP 345 WP 194 ThP 444 TP 346 WP 194 ThP 447 TP 346 WP 194 ThP 467 TOD am 09:36 WP 632 WP 643 WP 643 WP 643 WP 643 WP 643 TP 196 TOD am 09:36

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Erickson, Alison	
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Evans, Gerard	ThP 149WP 544WP 201MP 685ThP 532
Evans, Gerard Evans, Anne Evans, Brock Evans, Catherine Evans, Catherine Evans, Charles	ThP 149ThP 544WP 201MP 685ThP 532WP 676MOB pm 2:50
Evan, Gerard	ThP 149ThP 544MP 201MP 685ThP 532WP 676WP 676MOB pm 2:50ThP 583
Evan, Gerard	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573
Evan, Gerard	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10
Evan, Gerard	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10 MP 300
Evan, Gerard Evans, Anne Evans, Brock Evans, Catherine Evans, Charles Evans, James Evans, James Evans, Jemma Evans, Ronald Evans, Vanessa Evans-Nguyen, Kenyon	ThP 149ThP 544WP 201MP 685ThP 532WP 676MOB pm 2:50ThP 583TP 573MOC pm 4:10MP 300ThP 468
Evan, Gerard Evans, Anne Evans, Brock Evans, Catherine Evans, Charles Evans, James Evans, James Evans, Jemma Evans, Ronald Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa	ThP 149ThP 544WP 201MP 685ThP 532WP 676MOB pm 2:50ThP 583TP 573MOC pm 4:10MP 300ThP 468WP 444MP 114
Evan, Gerard Evans, Anne Evans, Brock Evans, Catherine Evans, Catherine Evans, Charles Evans, James Evans, James Evans, Jemma Evans, Ronald Evans, Vanessa Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444
Evan, Gerard Evans, Anne Evans, Brock Evans, Catherine Evans, Catherine Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald Evans, Vanessa Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444 ThP 404
Evan, Gerard. Evans, Anne Evans, Brock Evans, Catherine Evans, Charles Evans, James Evans, James Evans, Jemma Evans, Jemma Evans, Ronald Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444 ThP 404 ThP 628
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Charles. Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evanson, Mary Evenson, Mary Everst-Dass, Arun	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444 ThP 404 ThP 628 TP 628
Evan, Gerard. Evans, Anne Evans, Brock Evans, Catherine Evans, Charles Evans, James Evans, James Evans, Jemma Evans, Jemma Evans, Ronald Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary	ThP 149ThP 544WP 201MP 685ThP 532WP 676MOB pm 2:50ThP 583TP 573MOC pm 4:10MP 300ThP 468WP 444MP 114WP 444ThP 404ThP 628TP 642ThP 360
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Charles. Evans, James. Evans, James. Evans, James. Evans, Jemma. Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon. Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evans-Nguyen, Mary. Everest-Dass, Arun Evers, Alex.	ThP 149ThP 544WP 201MP 685ThP 532WP 676MOB pm 2:50ThP 583TP 573MOC pm 4:10MP 300ThP 468WP 444ThP 404ThP 404ThP 408TP 642ThP 360ThP 531
Evan, Gerard. Evans, Anne Evans, Brock Evans, Catherine Evans, Charles Evans, James Evans, James Evans, Jemma Evans, Jemma Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary Everson, Mary Everst-Dass, Arun Evers, Waltraud Evers, Waltraud Evers, Waltraud Evans, Rock	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444 ThP 628 TP 642 ThP 360 ThP 531 WP 676 ThP 245
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine Evans, Catherine Evans, Charles. Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary Everson, Mary Everst-Dass, Arun Evers, Alex. Evers, Waltraud Evers, Waltraud Evan, Richard. Ewing, Andrew	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444 ThP 628 ThP 628 ThP 360 ThP 360 ThP 360 ThP 245 ThP 664
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Catherine. Evans, Charles. Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary Everson, Mary Everst-Dass, Arun Evers, Alex Evers, Waltraud Evers, Waltraud Evan, Richard Ewing, Andrew Ewing, Andrew Ewing, Andrew Ewing, Andrew	ThP 149ThP 544WP 201MP 685ThP 532WP 676MOB pm 2:50ThP 583TP 573MOC pm 4:10MP 300ThP 468WP 444MP 114WP 444ThP 404ThP 628TP 642ThP 360ThP 531WP 7676ThP 245ThP 664ThP 664
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Charles. Evans, James. Evans, James. Evans, James. Evans, Jemma. Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon. Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary. Everson, Mary. Everset-Dass, Arun Evers, Waltraud. Evers, Waltraud. Evers, Waltraud. Ewan, Richard. Ewing, Andrew. Ewing, Andrew. Ewing, Andrew.	ThP 149ThP 544WP 201MP 685ThP 532WP 676MOB pm 2:50ThP 583TP 573MOC pm 4:10MP 300ThP 468WP 444MP 114WP 444ThP 404ThP 628TP 642ThP 360ThP 361WP 676ThP 245ThP 664TOC am 09:10TP 660
Evan, Gerard Evans, Anne Evans, Brock Evans, Catherine Evans, Catherine Evans, Charles Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary Everset-Dass, Arun Evers, Alex Evers, Waltraud Evers, Waltraud Ewan, Richard Ewing, Andrew Ewing, Dan	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444 ThP 628 TP 642 ThP 360 ThP 531 WP 676 ThP 245 ThP 664 TOC am 09:10 TP 660 ThP 063
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Charles. Evans, James. Evans, James. Evans, James. Evans, Jemma. Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon. Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary. Everson, Mary. Everset-Dass, Arun Evers, Waltraud. Evers, Waltraud. Evers, Waltraud. Ewan, Richard. Ewing, Andrew. Ewing, Andrew. Ewing, Andrew.	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444 ThP 628 TP 642 ThP 360 ThP 531 WP 676 ThP 245 ThP 660 ThP 660 ThP 660 ThP 663 MP 140
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Charles. Evans, James Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary Everson, Mary Everest-Dass, Arun Evers, Waltraud Evers, Waltraud Evers, Waltraud Evers, Waltraud Ewing, Andrew Ewing, Andrew Ewing, Andrew Ewing, Andrew Ewing, Michael Ewing, Michael Ewing, R James	ThP 149ThP 149ThP 544WP 201
Evan, Gerard. Evans, Anne Evans, Brock. Evans, Catherine Evans, Charles. Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa	ThP 149ThP 149ThP 544WP 201MP 685ThP 532WP 676MOB pm 2:50ThP 583TP 573MOC pm 4:10MP 300ThP 468WP 444ThP 404ThP 404ThP 628ThP 630ThP 531WP 676ThP 654ThP 664TOC am 09:10TP 660ThP 663ThP 063TP 166TP 126TP 126
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Charles. Evans, James. Evans, James. Evans, James. Evans, Jemma. Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon. Evans-Nguyen, Theresa Evans-Nguyen,	ThP 149 ThP 544 WP 201 MP 685 ThP 532 WP 676 MOB pm 2:50 ThP 583 TP 573 MOC pm 4:10 MP 300 ThP 468 WP 444 MP 114 WP 444 ThP 628 TP 642 ThP 360 ThP 531 WP 676 ThP 245 ThP 664 TOC am 09:10 TP 660 ThP 063 MP 140 WOC am 10:10 WOC am 10:10
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine Evans, Catherine Evans, Charles. Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary. Everest-Dass, Arun Evers, Alex. Evers, Waltraud Evers, Waltraud Evan, Richard. Ewing, Andrew Ewing, Andrew Ewing, Andrew Ewing, Dan Ewing, Michael Ewing, Names Eyers, Claire Eyers, Patrick. Fabacher, David	ThP 149ThP 149ThP 544WP 201WP 676WP 676
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine Evans, Catherine Evans, Charles. Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary Everest-Dass, Arun Evers, Alex. Evers, Waltraud Evers, Waltraud Ewan, Richard. Ewing, Andrew Ewing, Andrew Ewing, Andrew Ewing, Dan Ewing, Michael Ewing, R. James Eyers, Patrick Fabacher, David Fabris, Daniele	ThP 149ThP 149ThP 544WP 201WP 676
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine Evans, Charles. Evans, James Evans, James Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Ng	ThP 149ThP 149ThP 544WP 201
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine Evans, Catherine Evans, Charles. Evans, James Evans, James Evans, Jemma Evans, Ronald. Evans, Vanessa Evans-Nguyen, Kenyon Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary Everest-Dass, Arun Evers, Alex. Evers, Waltraud Evers, Waltraud Ewan, Richard. Ewing, Andrew Ewing, Andrew Ewing, Andrew Ewing, Dan Ewing, Michael Ewing, R. James Eyers, Patrick Fabacher, David Fabris, Daniele	ThP 149ThP 149ThP 544
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Charles. Evans, James. Evans, James. Evans, James. Evans, James. Evans, Jemma. Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon. Evans-Nguyen, Theresa. Evans-Nguyen, Theresa. Evenson, Mary. Everson, Mary. Everest-Dass, Arun. Evers, Waltraud. Evers, Waltraud. Evers, Waltraud. Evers, Waltraud. Ewing, Andrew. Ewing, Andrew. Ewing, Andrew. Ewing, Andrew. Ewing, Michael. Ewing, Michael. Ewing, R. James. Eyers, Claire. Eyers, Patrick. Fabacher, David. Fabris, Daniele. Fabris, Daniele. Fabris, Daniele.	ThP 149ThP 149ThP 544WP 201WP 676
Evan, Gerard. Evans, Anne. Evans, Brock. Evans, Catherine. Evans, Charles. Evans, James. Evans, James. Evans, James. Evans, James. Evans, Jemma. Evans, Ronald. Evans, Vanessa. Evans-Nguyen, Kenyon. Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evans-Nguyen, Theresa Evenson, Mary. Everson, Mary. Everst-Dass, Arun. Evers, Waltraud. Evers, Waltraud. Evers, Waltraud. Evers, Waltraud. Ewing, Andrew. Ewing, Andrew. Ewing, Andrew. Ewing, Andrew. Ewing, Michael. Ewing, Michael. Ewing, R. James. Eyers, Claire. Eyers, Patrick. Fabacher, David. Fabris, Daniele. Fabris, Sebastian.	ThP 149ThP 149ThP 544WP 201WP 676WP 676



Fadon Gooffroy	ThD 140	Fauland, Alexander	TD 255	Fernández, Roberto	WD 530
Faden, Geoffrey Fadgen, Keith		Faull, Kym		Fernandez de la Mora, Juan	
Fadgen, Keith		Faull, Kym		Fernandez de la Mora, Juan	
Fagbami, Lola		Faull, Kym		Fernandez Lima, Francisco	
Fagbami, Lola	WP 306	Fauty, Scott	ThOH pm 3:50	Fernandez Lima, Francisco	WOG pm 2:50
Fagerquist, Clifton K		Fava, Marcelo		Fernández-Alba, Amadeo	
Fages, Laetitia		Fazlollahi, Farbod		Fernández-Alba, Amadeo R	
Fakouri Baygi, Sadjad		Fazlollahi, Farbod		Fernandez-Lima, Francisco	
Falaux, Emeline		Federspiel, Joel		Fernandez-Martinez, Javier	
Falciola, Luigi Falk, Torsten		Fedorenko, Inna Fedorov, Andrei		Fernandez-Martinez, Javier Ferrance, Jerome	
Falkenberg, Heiner		Fedorov, Andrei		Ferrante, Ilaria	
Falkenby, Lasse		Fedorov, Dmitri		Ferrari, Michel	
Famiglini, Giorgio		Fedosenko, Gennady		Ferrarini, Alessia	
Fan, Chunlin		Fedosenko, Gennady		Ferrarini, Alessia	TP 208
Fan, Jing	MP 602	Fedosenko, Gennady	MP 061	Ferraris, Quintin	
Fan , Jun		Feeney, Caitlin		Ferreira, Mariana S. L	
Fan, Jun		Feenstra, Adam		Ferreira, Mônica	
Fan, Maomian		Feil, Stefan		Ferrer, Imma	
Fan, Sheng-Bo		Feild, Brian		Ferries, Samantha	
Fan, XingFan, Xuxin		Feild, Brian J Feilden, Andrew		Ferro, Emer S Fert-Bober, Justyna	
Fanaras, John C.		Feilden, Andrew		Ferzoco, Alessandra	
Fancher, Ashley		Feinstein, Douglas L		Fesi, Jan	
Fandino, Anabel		Feist, Peter		Feyerherm, Fred	
Fandino, Anabel		Feldman, Jonathan		Fiacco, Ilaria	
Fandino, Anabel		Feldman, Jonathan		Fialkov, Alexander	
Fang, Bin	MP 504	Feldman, Mario F	MP 588	Fialkov, Alexander	ThP 050
Fang, Bin	MP 615	Feller, Christian	WP 185	Fialkov, Alexander	ThP 054
Fang, Bin		Fellers, Ryan		Fichtenbaum, Andreas	
Fang, Houqin		Fellers, Ryan		Fichter, Pélagie	
Fang, Jing		Fellows, Katherine		Fielder, Katherine L	
Fang, Kasie		Fenaille, Francois		Fiehn, Oliver	
Fang, Liling		Fenaille, Francois Fenaille, Francois		Fiehn, OliverFiehn, Oliver	
Fang, Meng		Feng, June		Fiehn, Oliver	
Fang, Pan		Feng, Xidong		Fiehn, Oliver	
Fang, Xiang		Feng, Yilin		Fiehn, Oliver	
Fang, Xiang		Feng, Yu-Qi		Fiehn, Oliver	
Fang, Xiang		Fenselau, Catherine		Fiehn, Oliver	
Fang, Xiaowei	MP 325	Fenselau, Catherine	WP 404	Fields, Julia	TP 597
Fang, Xiaowei	TP 327	Fenyo, David	MOC pm 3:50	Figard, Ben	WP 359
Fang, Xinping		Fenyo, David		Figard, Benjamin J	
Fang, Xinping		Fenyo, David		Figeys, Daniel	
Fang, Xinping		Fenyo, David		Figeys, Daniel	
Fang, XinpingFang, Xinping		Fenyo, David Fenyo, David		Figeys, Daniel Figueira, Jose	
Fang, Xinping		Fenyö, David		Figueira, Rita	
Fang, Xuelan		Fereshetian, Shaunt		Figueiredo, Natália	
Fang, Yigang		Ferguson, Carly		Fillgrove, Kerry	
Faniband, Moosa		Ferguson, Carly	WP 569	Fillmore, Thomas	MP 617
Fankhauser, Christian		Ferguson, Duncan		Fillmore, Thomas L	WP 345
Fannin, Steve		Ferguson, Lee		Finan, Michael	
Far, Johann		Ferguson-Miller, Shelagh		Findsen, Eric	
Far, Johann		Ferguson-Noel, Naola		Fine, Dennis	
Farahbod, Marjan Farenc, Mathilde		Ferhatoglu, Yurdagul Ferko, Philip J		Finley, Daniel J Firor, Roger	
Farenc, Mathilde		Fernandes, Anna Maria		Fischer, Frédéric	
Farese, Ann		Fernandes, Anna Maria		Fischer, Gavin	
Farese, Ann		Fernandes, Anna Maria A. P		Fischer, Gregory L	
Farese, Ann M		Fernandes, Gabriel		Fischer, Joshua	
Farnsworth, Charles	MP 473	Fernandes, Karl	WP 529	Fischer, Joshua	WP 425
Farnsworth, Charles	ThP 339	Fernandes, Liliam		Fischer, Juliana	
Farnsworth, Charles L		Fernandez, Facundo		Fischer, Lutz	
Farnsworth, Paul		Fernandez, Facundo		Fischer, Roman	
Farnsworth, Paul		Fernandez, Facundo		Fischer, Steven M	
Farrokhi, Vahid Farrow, Michael		Fernandez, Facundo Fernandez, Facundo		Fischer, Wolfgang Fischer-Knuppertz, Wulf	
Farztdinov, Vadim		Fernandez, Facundo		Fischler, David	
Fasani, Rick A		Fernandez, Facundo		Fischler, David	
Fasciotti, Maíra		Fernandez, Facundo M		Fisher, Andrew M	
Fasciotti, Maíra		Fernandez, Jose A		Fisher, Christine	
Fasciotti, Maíra		Fernandez, Joseph		Fisher, Gregory	
FaserI, Klaus		Fernandez, Roberto		Fisher, Henry C	
FaserI, Klaus		Fernández, Facundo		Fisher, Paula	TP 287
Fast, Courtney		Fernández, Facundo M		Fishman, Vyacheslav N	
Fatou, Benoit		Fernández, José A		Fitchett, Jon	
Fatou, Benoit		Fernández, José Andrés		Fite, Alemu	
Fattori, Juliana	1NP 481	Fernández, Roberto	1P 6/5	Fitzgerald, Michael C	MP 623



Fitzpatrick, MartinTO	OF am 08:50
Fjeldsted, John	MP 126
Fjeldsted, John C	
Fjeldsted, John C.	
Fjeldsted, John C.	ThP 643
Fjeldsted, John C.	WP 562
Fladmark, Kari E	
Flammang, PatrickFlarakos, Jimmy	
Flarakos, Jimmy	
Flarakos, Jimmy	MP 480
Flarakos, Jimmy	
Flarakos, Jimmy	
Fleming, lan	
Fletcher, John	
Fletcher, John	
Fletcher, John	
Flick, TawnyaThC	
Fliesler, Steven J.	
Flinders, Bryn	
Flinders, Bryn	ThP 663
Flitsch, Sabine L	
Florens, Laurence	
Florens, Laurens	
Flórez, Ana Isabel González	MP 681
Florian, Meier	
Floris, Federico	
Floyd, Mckenzie	
Focsa, Cristian	
Foley, Casey MC	
Foley, CaseyTh	
Foley, Casey D.	WP 425
Foley, Casey D	WP 031
Follmann, Frank	TP 519
Follmer, Alec	
Fonslow, Bryan	
Fonslow, Bryan W	
Fonslow, Bryan	
Fontaine, FabienMC	OH am 08:50
Fontaine, Fabien	
Fontaine, FabienFontaine, Fabien	
Fontaine, Fabien	
Fontaine, Fabien	
Fontaine, Fabien	
Fonteh, Alfred	
Forbes, Matthew WFord, Beverly	
Ford, G. Charles	
Ford, Godfrey C. (G Charles)	
Ford, Michael	
Ford, Michael	
Fornace, Albert	
Fornace Jr, Albert	
Fornace Jr., Albert	
Fornace Jr., Albert J	
Fornáce, Jr., A.JForné Ferrer, Ignasi	
Fornelli, LucaThC	
Fornelli, Luca	TP 441
Fornelli, Luca	
Fornelli, Luca	
Forsberg, Erica	
Forsström, Björn	
Forsythe, JayThC	OH am 09:10
Forsythe, JayThC	OH am 09:10 ThP 651
Forsythe, Jay	OH am 09:10 ThP 651 ThP 632
Forsythe, JayThC	OH am 09:10 ThP 651 ThP 632 WP 566
Forsythe, Jay	OH am 09:10 ThP 651 ThP 632 WP 566 OC pm 3:30

Fosca, Cristian	ThOA pm 4:10
Foster, Fred	
Foster, Leonard J	
Foster, Matthew	
Foster, Richard J	TOF pm 2:50
Foster, Steven B	WP 083
Foster, Warren	TOG am 09:30
Fotakis, Anna	
Fotso, Serge	
Fountain, Kenneth	MP 600
Fourkala, Evangelia-Ourania	MP 554
Fournier, Isabelle	
Fournier, Isabelle	
Fournier, Isabelle	
Fournier, Isabelle	TP 244
Fournier, Isabelle	TP 661
Fournier, Isabelle	
Fox, Gerad A	
Fox, Steven	
França, Hildegardo	
França, Moana	ThP 678
Francavilla, Chiara	
Francese, Simona	
Francese, Simona	
Francis, Gordon	
Franck, Julien	WP 540
Franco, Marcos	
Francois, Isabelle	
Francois, Yannis-Nicolas	
François, Achermann	
Frankevich, Vladimir	MP 331
Frankevich, Vladimir	ThOA pm 3:30
Franzreb, Klaus	
Fraone, Joe	
Fraser, Bruce	
Fraser, Bruce	ThP 191
Fredette, Joe	ThP 601
Fredricks, Helen	
Freeman, Rob	
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Freeman, Rob	
Freeman, Rob	MP 310
Freeman, Rob	MP 310 ThP 150
Freeman, RobFreeman, RobFreeman, William David	MP 310 ThP 150 WP 211
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640
Freeman, Rob	MP 310ThP 150WP 211TP 588MP 640 ThOD am 09:30
Freeman, Rob	
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 599
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 599 WP 597
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 599 WP 597
Freeman, Rob	MP 310
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 599 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 WP 604
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 599 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 WP 604
Freeman, Rob	MP 310
Freeman, Rob	MP 310
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 599 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 WP 604 ThP 113 TP 032 ThOF pm 2:50
Freeman, Rob	MP 310
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 TP 403 TP 032 ThOF pm 2:50 TP 382 TP 420
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 TP 403 TP 032 ThOF pm 2:50 TP 382 TP 420
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 599 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 WP 604 ThP 113 TP 032 TP 032 TP 420 TP 550
Freeman, Rob	MP 310
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 599 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 WP 604 ThP 113 TP 032 TP 420 TP 550 MOE pm 3:10 MOE pm 3:10 Th 023
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MOE am 09:50 TP 403 WP 604 ThP 113 TP 032 TP 420 TP 420 TP 420 MOE pm 3:10 MOE pm 3:10 MOE pm 3:10 Th 023 ThP 023 ThP 023 ThP 023
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 WP 604 ThP 113 TP 032 ThOF pm 2:50 TP 420 TP 550 MOE pm 3:10 ThP 023 ThP 023 WOE pm 3:10 ThP 522 WOH pm 2:30
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 WP 604 ThP 113 TP 032 ThOF pm 2:50 TP 420 TP 550 MOE pm 3:10 ThP 023 ThP 023 WOE pm 3:10 ThP 522 WOH pm 2:30
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 599 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 WP 604 ThP 113 TP 032 ThOF pm 2:50 TP 382 TP 420 TP 550 MOE pm 3:10 ThP 023 ThP 522 WOH pm 2:30 MP 337
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 TP 403 TP 932 TP 420 TP 550 MOE pm 3:10 ThP 023 ThP 023 ThP 023 ThP 023 ThP 522 WOH pm 2:30 MP 337 ThP 461
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 WP 604 ThP 113 TP 032 ThOF pm 2:50 MOE pm 3:10 MOE pm 3:10 MOE pm 3:10 MP 522 WOH pm 2:30 ThP 522 WOH pm 2:30 MP 337 ThP 461 TP 276
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 597 ThOG am 08:50 MOE am 09:50 MOE am 09:50 MOE am 09:50 TP 403 WP 604 ThP 113 TP 032 TP 420 TP 550 MOE pm 3:10 MP 634 ThP 113 TP 032 TP 420 TP 420 TP 550 MOE pm 3:10 MP 337 ThP 622 WOH pm 2:30 MP 337 ThP 461 TP 276 MP 537
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 MP 604 ThP 113 TP 032 ThOF pm 2:50 TP 420 TP 550 MOE pm 3:10 ThP 123 MP 592 WOH pm 2:30 MP 337 ThP 461 TP 276 MP 537
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 MP 604 ThP 113 TP 032 ThOF pm 2:50 TP 420 TP 550 MOE pm 3:10 ThP 123 MP 592 WOH pm 2:30 MP 337 ThP 461 TP 276 MP 537
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 MP 404 ThOB pm 2:30 TP 403 WP 604 ThP 113 TP 032 ThOF pm 2:50 TP 382 TP 420 TP 550 MOE pm 3:10 ThP 123 ThP 023 ThP 223 WOH pm 2:30 MP 337 ThP 461 TP 276 MP 537 TP 146 WP 406
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 279 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 TP 403 TP 932 TP 420 TP 550 MOE pm 3:10 TP 403 TP 403 TP 403 TP 403 TP 403 TP 404 Th 404 Th 406 TP 407 TP 382 TP 420 TP 550 MOE pm 3:10 TP 222 WOH pm 2:30 MP 337 ThP 461 TP 276 MP 537 TP 146 MP 406 MOD am 09:30
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 599 WP 597 ThOG am 08:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 WP 604 ThP 113 TP 032 ThOF pm 2:50 TP 382 TP 420 TP 550 MOE pm 3:10 MOE pm 3:10 MOE pm 3:10 MP 522 WOH pm 2:30 ThP 522 WOH pm 2:30 MP 337 ThP 461 TP 276 MP 537 TP 146 MP 537 TP 146 MP 406 MOD am 09:30 MP 452
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 597 ThOG am 08:50 MOE am 09:50 MOE am 09:50 MP 404 ThOB pm 2:30 TP 403 WP 604 ThP 113 TP 032 TP 420 TP 550 MOE pm 3:10 MP 623 ThP 622 WOH pm 2:30 MP 337 ThP 461 TP 276 MP 537 TP 146 MP 406 MOD am 09:30 MP 452 MP 452 MP 524
Freeman, Rob	MP 310 ThP 150 WP 211 TP 588 MP 640 ThOD am 09:30 MP 203 MP 445 WP 190 WP 597 ThOG am 08:50 MOE am 09:50 MOE am 09:50 TP 403 WP 604 ThP 113 TP 032 ThOF pm 2:30 TP 420 TP 550 MOE pm 3:10 ThP 222 WOH pm 2:30 MP 337 ThP 461 TP 276 MP 537 TP 146 WP 406 MOD am 09:30 MP 452 WP 524 MOD am 09:30 MP 337 TP 146 MP 537 TP 146 MP 452 MP 452 MP 524 MOD am 09:30 MP 452 MP 524 TOB pm 4:10

Frøyset, Ann Kristin	. WP 280
Fu, Qin	MP 569
Fu, Tingting	.ThP 679
Fu, Yan	MP 430
Fu, Yan	. WP 334
Fu, Yaning	ThP 201
Fu, Yueqiao MOA	am 09:50
Fu, Yu-Hui	TD 61/
Fu Vuolin	IF 014
Fu, Yunlin	. WP 3/8
Fu, Zongming	IP 148
Fuchs, Beate	TP 260
Fuchser, JensMOB	
Fuchser, Jens	.ThP 268
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Fuchser, Jens	
Fucikova, Alena	ThD 109
Fuda, Hirotoshi	
Fuhrer, Tobias	MP 629
Fujigaya, Hirofumi	TP 681
Fujii, Makiko	. WP 526
Fujimoto, Gordon	TP 297
Fujimoto, Gordon	
Fujimoto, Grant M	
Fujimura, Yoshinori	TD 670
Fullmura, Vochinori	IF 070
Fujimura, Yoshinori	. VVP 102
Fujita, Yowichi	MP 1/0
Fujita-Yamaguchi, Yoko	.ThP 307
Fujito, Yuka	MP 397
Fujito, Yuka	. WP 077
Fujiwara, Hideji	TP 624
Fukakusa, Shunsuke	TP 407
Fukamachi, Yukihiro	II 407
Fulcassasi: Validia	IVIF 410
Fukamachi, Yukihiro	1P 201
Fukui, Wataru	1P 0/6
Fukusaki, Eiichiro	TP 072
Fukusaki, Eiichiro	TP 302
Fukushima, Kazuyo	. WP 103
Funada, Yasuhiro	TP 072
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Funatsu, Shinji	MP 686
Furdui, Cristina M.	
Furdui, Cristina M	
Furst, Stephen	.ThP 183
Furtado, Milton	MP 275
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Furtado, Milton	MP 254
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Furtos, Alexandra	
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Furuhashi, Takeshi	
Fuscoe, James	
Fushman, David	
Fussell, Richard	WP 055
Fuerell Dishard I	. WI 000
Fussell, Richard J.	
	ハル ピンド
Füssl, Florian	
Fütterer, Arne	MP 165
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Fütterer, Arne	MP 165 am 09:50
Fütterer, Arne	MP 165 am 09:50 TP 488
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Geiger, Tamar		MP 453
Geis-Asteggiante, Lucia		TP 400
Geissler, Robert		TP 08
Gelb, Abby S.		MP 584
Gelb, Abby S		MP 582
Geller, Sarah	ТОН	am 09:30
Gelman, Susan		MP 340
Geluk, Annemieke		WP 213
Gely, Marc		ThP 032
Gemperline, David C		ThP 442
Gemperline, Erin		MP 226
Gendelman, Howard E		MP 518
Genenbacher, Jessica Lloyd		MP 349
Genet, Bruno		ThP 508
Gengeliczki, Zsolt		ThP 626
Gennity, Ingrid		MP 34
Genovese, Raymond F		WP 274
Genovesi, Luca		INP 62
Gentry-Maharaj, Aleksandra		IVIP 554
Genty, ChristopheGentzel, Marc		TD 60
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Geoghegan, Kieran		TD 46
George, Ed		TD 350
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Gerbaux, Pascal		ThP 282
Gerber, Isak		TP 56
Gerber, Lorenz	TOE	am 08:50
O		
Gerber, Scott		MP 547
Gerber, Scott		ThP 432
Gerber, Scott		ThP 432
Gerber, Scott		ThP 432 TP 485 TP 487
Gerber, Scott		ThP 432 TP 485 TP 487 MP 03
Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel	.ThOE	ThP 432 TP 485 TP 487 MP 037 am 09:30
Gerber, Scott	.ThOE	ThP 432 TP 485 TP 487 MP 037 am 09:30 TP 514
Gerber, Scott	.ThOE	ThP 432 TP 485 TP 487 MP 033 am 09:30 TP 514 WP 497
Gerber, Scott	.ThOE	ThP 432 TP 485 TP 487 MP 03° am 09:30 TP 514 ThP 092
Gerber, Scott	.ThOE	ThP 432 TP 483 MP 033 am 09:30 TP 514 WP 493 ThP 092
Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce Gersiloglu, Selim Germain, Dominique P. Germain, Ronald.	.ThOE	ThP 432 TP 485 MP 033 am 09:30 TP 514 WP 497 ThP 092 TP 655
Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus	.ThOE	ThP 432TP 485TP 485MP 03° am 09:30TP 514WP 497ThP 092TP 65°MP 613
Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Bruce Gerislioglu, Selim Germain, Dominique P Germain, Ronald Gernert, Claus Geromanos, Scott	.ThOE	ThP 432TP 485TP 485MP 033 am 09:30TP 514WP 495ThP 092TP 653TP 613MP 613MP 435
Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Bruce Gerislioglu, Selim Germain, Dominique P Germain, Ronald Gernanos, Scott Geromanos, Scott	.ThOE	ThP 432TP 485TP 487MP 033 am 09:30 am 09:30TP 514TP 655ThP 613MP 435ThP 112MP 435
Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Bruce Gerislioglu, Selim Germain, Dominique P Germain, Ronald Gernart, Claus Geromanos, Scott Geromanos, Scott Geromanos, Scott	ThOE	ThP 432TP 483TP 483TP 487MP 033 am 09:30TP 514WP 497ThP 695ThP 615ThP 112MP 433TP 105
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce Gerislioglu, Selim Germain, Dominique P. Germain, Ronald Geromanos, Scott Geromanos, Scott Geromanos, Scott Geromanos, Scott Geromanos, Scott	ThOE	ThP 432TP 488TP 480MP 031MP 031TP 510TP 510TP 651MP 611ThP 112MP 438TP 156TP 156
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus Geromanos, Scott Geromanos, Scott Geromanos, Scott Geromanos, Scott Geromanos, Scott Geromanos, Scott	ThOE	ThP 432TP 488TP 488MP 03' am 09:31TP 511WP 499TP 65'MP 613ThP 112MP 433TP 109TP 154
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Bruce. Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus Geromanos, Scott	ThOE	ThP 43:TP 48:TP 48:MP 03: am 09:3:TP 51WP 49:ThP 09:TP 66:MP 61:MP 61:MP 11:MP 11:MP 51:TP 15:TP 15:TP 51:TP 51:TP 51:TP 51:TP 32:
Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Bruce Gerislioglu, Selim Germain, Dominique P Germain, Ronald Gernert, Claus Geromanos, Scott Gerosch, Malte	ThOG	ThP 432TP 483TP 487MP 037TP 514WP 497ThP 692ThP 617MP 433TP 105TP 115TP 514TP 544TWP 325 am 08:55
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Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gersiloglu, Selim Germain, Dominique P. Germain, Ronald Geromanos, Scott Gersen, Malte Gershon, Paul	ThOG	ThP 43:TP 48:TP 48:TP 48:MP 03:TP 51WP 49:ThP 69:ThP 61:ThP 11:MP 43:TP 55:TP 55:TP 55:TP 55:TP 54WP 32: am 08:50:ThP 43:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhart, Geoff Gerhart, Bruce Gerislioglu, Selim Germain, Dominique P Germain, Ronald Gernert, Claus Geromanos, Scott	ThOG	ThP 43:TP 48:TP 48:MP 03: am 09:3(TP 514WP 49:ThP 65:MP 61:MP 43:ThP 10:ThP 15:TP 544WP 32: am 08:5(ThP 43:TP 43:TP 35:TP 35:TP 36:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gerislioglu, Selim. Germain, Dominique P Germain, Ronald. Gernert, Claus. Geromanos, Scott. Gersch, Malte Gershon, Paul. Gershon, Paul. Gershor, Gaspard Gesbert, Gael. Gethings, Lee	ThOG	ThP 43:TP 48:TP 48:MP 03:MP 03:TP 51WP 49:ThP 09:ThP 65:MP 61:MP 61:TP 10:TP 10:TP 54TP 54:TP 43:TP 43:TP 43:TP 43:TP 43:TP 43:TP 35:TP 35:TP 35:TP 35:TP 35:TP 35:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gerislioglu, Selim. Germain, Dominique P Germain, Ronald. Gernert, Claus. Geromanos, Scott. Gersch, Malte Gershon, Paul. Gershon, Paul. Gershor, Gaspard Gesbert, Gael. Gethings, Lee	ThOG	ThP 43:TP 48:TP 48:MP 03:MP 03:TP 51WP 49:ThP 09:ThP 65:MP 61:MP 61:TP 10:TP 10:TP 54TP 54:TP 43:TP 43:TP 43:TP 43:TP 43:TP 43:TP 35:TP 35:TP 35:TP 35:TP 35:TP 35:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Bruce. Gersiloglu, Selim Germain, Dominique P. Germain, Ronald Geromanos, Scott. Geromanos, Scott Geroman	ThOG	ThP 43:TP 48:TP 48:TP 48:MP 03: am 09:3(TP 51WP 49:ThP 09:ThP 61:ThP 11:MP 43:TP 54WP 32: am 08:5(ThP 35:TP 35:TP 35:TP 35:TP 35:TP 40:ThP 43:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Stefanie Gerden, Giel Gerhart, Geoff Gerhart, Bruce Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus Geromanos, Scott Geromano	ThOG	ThP 43:TP 48:TP 48:MP 03:TP 514WP 49:ThP 65:ThP 61:MP 43:ThP 10:TP 156:TP 544WP 32:ThP 35:ThP 35:TP 35:TP 35:TP 35:TP 35:TP 35:TP 28:TP 28:TP 28:TP 28:TP 28:TP 28:TP 28:TP 28:TP 40:TP 40:TP 43:TP 43:TP 35:TP 35:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus Geromanos, Scott Gersch, Malte Gershon, Paul Gershon, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Getty, Stephanie	ThOG	ThP 43:TP 48:TP 48:TP 48:MP 03:TP 51WP 49:ThP 09:ThP 65:ThP 11:MP 43:TP 10:TP 10:TP 54:TP 54:TP 35:TP 35:TP 35:TP 28:TP 28:TP 40:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Geoff Gerhardt, Bruce. Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus Geromanos, Scott Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Eael Gethings, Lee A Gethings, Lee A Gethings, Lee A Getty, Stephanie Getty, Stephanie	ThOG	ThP 43:TP 48:TP 48:MP 03: am 09:3:TP 51WP 49:ThP 09:TP 66:ThP 11:MP 61:TP 154WP 32: am 08:50ThP 43:TP 35:TP 35:TP 40:TP 40:WP 26:WP 26:WP 05:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Geoff Gerhardt, Bruce. Gerislioglu, Selim. Germain, Dominique P Germain, Ronald. Gernert, Claus. Geromanos, Scott. Geromanos,	ThOG	ThP 43:TP 48:TP 48:TP 48:MP 03: am 09:3:TP 51WP 49:ThP 09:TP 65:MP 61:TP 10:TP 510:TP 35:TP 35:TP 35:TP 28:TP 40:WP 67:WP 67:TP 40:TP 40:WP 67:WP 67:WP 67:TP 40:WP 32:TP 40:TP 40:TP 40:WP 36:TP 40:WP 36:TP 40:WP 26:MP 07:WP 07:MP 07:MP 07:MP 07:MP 07:MP 28:TP 28:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gersiloglu, Selim Germain, Dominique P. Germain, Ronald Geromanos, Scott. Geromanos	ThOG	ThP 43:TP 48:TP 48:TP 48:MP 03:TP 51WP 49:ThP 69:ThP 61:TP 16:TP 51TP 51TP 54WP 32: am 08:50TP 35:TP 35:TP 36:TP 36:TP 36:TP 48:WP 61:TP 48:WP 63:TP 28:TP 28:TP 28:TP 28:TP 28:TP 28:TP 29:TP 29:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce Gersilioglu, Selim Germain, Dominique P. Germain, Ronald. Gernert, Claus Geromanos, Scott Gersch, Malte Gersch, Malte Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Eee Gethings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Getty, Stephanie Getty, Stephanie Getty, Stephanie Getty, Stephanie Getty, Stephanie	ThOG	ThP 43:TP 48:TP 48:MP 03:TP 514WP 49:ThP 61:ThP 61:ThP 61:ThP 11:TP 15:TP 544WP 32: am 08:56TP 35:TP 35:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus Geromanos, Scott. Geromanos, Scott. Geromanos, Scott. Geromanos, Scott. Geromanos, Scott. Geromanos, Scott	ThOG	ThP 43:TP 48:TP 48:MP 03: am 09:3(TP 514WP 49:ThP 09:ThP 65:ThP 11:MP 43:ThP 15:TP 15:TP 544WP 32: am 08:5(ThP 43:TP 35:TP 35:TP 35:TP 35:TP 40:MP 63:TP 40:MP 63:TP 35:TP 35: .
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce. Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus Geromanos, Scott. Geromanos, Scott Gersch, Malte Gersch, Malte Gersch, Paul Gersch, Paul Gerschon, Paul Gerschings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Getty, Stephanie Geva-Zatorsky, Naama Gewirtz, David	ThOG	ThP 43:TP 48:TP 48:TP 48:MP 03:TP 51:WP 49:TP 65:ThP 65:ThP 11:MP 43:TP 10:TP 10:TP 56:TP 56:TP 56:TP 35:TP 35:MP 63:TP 35:TP 40:TP 35:TP 40:MP 63:TP 40:TP 35:TP 35:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerbig, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Geoff Gerhardt, Bruce Gerislioglu, Selim Germain, Dominique P Germain, Ronald Germert, Claus Geromanos, Scott Gersch, Malte Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Paul Gershings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Getty, Stephanie Getty, Stephanie Getty, Stephanie Getty, Stephanie Getty, Stephanie Gety, Stephanie Gewirz, David Gewirz, David Gewarz, David Gehaemmaghami, Sina	ThOG	ThP 43:TP 48:TP 48:TP 48:MP 03:TP 51:WP 49:ThP 09:TP 10:MP 61:TP 54:WP 32:TP 54:WP 32:TP 36:TP 36:TP 36:TP 36:TP 36:TP 36:TP 36:TP 36:TP 36:TP 40:TP 36:TP 40:WP 32:TP 40:TP 36:TP 40:TP 36:TP 40:TP 36:TP 40:TP 36:TP 40:TP 36:TP 36:TP 40:TP 36:TP
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Stefanie Gerden, Giel Gerhardt, Geoff Gerhardt, Geoff Gerhardt, Bruce Gersilioglu, Selim Germain, Dominique P Germain, Ronald Geromanos, Scott	ThOG	ThP 43:TP 48:TP 48:TP 48:MP 03:TP 51WP 49:ThP 61:ThP 61:ThP 11:TP 55:TP 55TP 55:TP 54TP 35:TP 35:TP 35:TP 35:TP 40:TP 40:TP 40:TP 40:TP 40:TP 95:TP 95:TP 25:TP 25:TP 25:TP 25:TP 51:TP 51:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce Gersilioglu, Selim Germain, Dominique P. Germain, Ronald. Gernert, Claus Geromanos, Scott. Gersch, Malte Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Eee Gethings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Getty, Stephanie Geva-Zatorsky, Naama Gewa-Zatorsky, Naama Gewa-Zatorsky, Naama Gehaemmaghami, Sina Ghale, Surja B Ghassabi Kondalaji, Samaneh	ThOG	ThP 43:TP 48:TP 48:MP 03:TP 51WP 49:ThP 61:ThP 61:ThP 61:ThP 11:TP 54TP 54TP 54TP 35:TP 51:TP 51:TP 51:TP 51:TP 51:TP 61:
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce Gerislioglu, Selim Germain, Dominique P Germain, Ronald. Gernert, Claus Geromanos, Scott Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Paul Gershings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Getty, Stephanie Getty, Stephanie Getty, Stephanie Getty, Stephanie Getty, Stephanie Getty, Stephanie Gety, Stephanie Gety, Stephanie Gewa-Zatorsky, Naama Gewirtz, David Ghassabi Kondalaji, Samaneh Ghassabi Kondalaji, Samaneh	ThOG	ThP 43:TP 48:TP 48:MP 03: am 09:3: am 09:3:TP 514WP 49:ThP 65:MP 61:ThP 11:MP 43:TP 10:TP 51:TP 54:TP 54:TP 35:TP
Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Scott Gerber, Stefanie Gerden, Giel Gerhardt, Geoff Gerhart, Bruce Gersilioglu, Selim Germain, Dominique P. Germain, Ronald. Gernert, Claus Geromanos, Scott. Gersch, Malte Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Paul Gershon, Eee Gethings, Lee A Gethings, Lee A Gethings, Lee A Gethings, Lee A Getty, Stephanie Geva-Zatorsky, Naama Gewa-Zatorsky, Naama Gewa-Zatorsky, Naama Gehaemmaghami, Sina Ghale, Surja B Ghassabi Kondalaji, Samaneh	ThOG	ThP 43:TP 48:TP 48:MP 03: am 09:3:TP 514WP 49:ThP 09:ThP 11:MP 43:ThP 11:MP 43:TP 10:TP 51:TP 51:TP 54:WP 32: am 08:5:TP 43:WP 61:TP 35:TP 35:TP 35:TP 35:TP 40:MP 63:TP 35:TP 40:MP 07:MP 07:MP 05:TP 35:TP 35: .



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Ghosh, Banibrata		Gingras, Genevieve		Gómez-Escudero, Andrea	
Ghosh, Dipankar		Ginsberg, Howard		Gomez-Rios, German Augusto	
Ghosh, DipankarGhosh, Dipankar		Giordano, Braden C		Gomez-Rios, German Augusto Gong, Fuzhou	
Ghosh, Dipankar		Giorgio, Famiglini		Gong, Jiawei	
Ghosh, Dipankar		Giorgio, Selma		Gong, Tao	
Ghosh, Parthasarathi		Giovanelli, Michael		Gong, Xiaoxia	
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Giannone, Richard		Giskes, Frans		Gong, Zhou	
Giannone, Richard		Giugliani, Roberto		Gonzalez, Gabriela D. Tormet	
Giannone, RichardGiansanti, Piero		Giuliani, Alexandre		González, OskarGoo, Young Ah	
Gibbons, Bryson C		Giusti, Pierre		Goo, Young Ah	
Gibbons, John		Giusti, Pierre		Gooding, Ann	
Gibbs, Allison		Gladkova, Christina		Goodlett, David	
Giblin, Daryl		Glaskin, Rebecca S		Goodlett, David	
Giblin, Daryl		Glaskin, Rebecca S		Goodlett, David	MP 180
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Gibson, Bradford		Glass, Jeffrey		Goodlett, David	
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Gibson, Bradford		Glauner, Thomas		Goodlett, David	
Gibson, Bradford WGibson, Graham		Glauner, Thomas		Goodlett, David	
Gibson, John		Glauner, Thomas		Goodlett, David	
Gibson, John		Glavin, Daniel		Goodlett, David	
Gibson, John		Glick, James		Goodlett, David	
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Gidden, Jennifer		Glish, Gary L		Goodman, Dean	
Gidden, Jennifer		Glish, Gary L		Goodman, Haddon	
Giedroc, David P		Glish, Gary L		Goodman, Keith	
Giera, MartinGies, Anthony P		Glish, Gary L		Goodsell, Kyle Goodwin, Octavia Y	
Gies, Anthony P		Glish, Gary L		Goodwin, Richard	
Gieschen, Andy		Glish, Gary L		Goodwin, Richard	
Gieschen, Andy		Glish, Gary L		Goodwin, Richard	
Gieschen, Andy		Glocker, Michael O		Gooptu, Bibek	
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Gigault, Julien		Glover, Matthew		Gorgun, Ozge	
Gigmes, Didier		Glover, Matthew		Gorishek, Emma	
Gilbert, Jeffrey		Glover, Matthew		Gorman, Steven HGorshkov, Mikhail V	
Gilbert, Jeffrey		Go, David B		Gorynski, Krzysztof	
Gilbert, Jeffrey R		Gobburi, Ashta Lakshmi Prasad.		Goryński, Krzysztof	
Giles, Kevin		Gobom, Johan		Goscinny, Séverine	
Giles, Kevin		Godbey, Jeffrie		Goscinny, Séverine	
Giles, Kevin		Godbey, Jeffrie A		Goshawk, Jeff	
Giles, Kevin		Godzien, Joanna	WP 271	Goshawk, Jeff	ThP 208
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Giles, Kevin		Goering, Anthony		Goshe, Michael	
Giles, Roger		Goetz, Gilles H		Goshe, Michael	
Gill, Christopher G		Goetz, SebastianGoguen, Robert		Goshe, MichaelGosselin-Théberge, Maxime	
Gill, Christopher G		Goh, Wilson		Goswami, Devrishi	
Gillan, David		Gohier, Vincent		Goswami, Devrishi	
Gilles, Christopher		Gohil, Vikrant		Goswami, Neha	
Gilles, Christopher		Gohlke, Jie	WP 204	Gotta, Stefano	MP 196
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Gillespie, Bradley		Gokulrangan, Giridharan		Goudarzi, Maryam	
Gillette, Michael A		Goldberg, Ilana		Gowda, Harsha	
Gillies, Donald		Goldine, Allison B		Goykhman, Dina	
Gillig, KentGilmore, lan		Goldin, Robert D Goldman, Radoslav		Gozo, Genevieve	
Gilmore, lan		Goldman, Radoslav		Gozzo, Fabio	
Gilmore, Ian S		Goldstein, Lee E		Gozzo, Fabio	
Gilmore, Marcella		Goldstein, Matthew		Gozzo, Fabio	
Gimbert, Yves		Golf, Ottmar		Gozzo, Fabio C	
Gimelshein, Sergey		Golf, Ottmar		Gozzo, Fabio C	
Gingras, Anne-Claude		Golf, Ottmar		Gozzo, Fabio C	
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	MD 175
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Graf, Martin	
Graf, Stephan	WP 262
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Grafmuller, LeanneMC	
Graham, Ciaren	ThP 584
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Graham, Leigh Ann	
Graham, Robert	
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Graichen, Adam M	
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*	
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Graves, Steven	ThD 220
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Gray, Anthony	MP 429
Gray, Don	
Gray, John	
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Greenberg, Jean	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380
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Greenberg, Jean	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380 H am 09:30WP 305
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole. Greer, Sylvester Greer, Tyler	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380 4 am 09:30WP 305TP 388
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole Greer, Rylvester. Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery Gregorich, Zachery	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380 H am 09:30WP 305TP 388TP 388
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole Greer, Rylvester Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregorich, Zachery Gregorich, Zachery.	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380 H am 09:30WP 305TP 388TP 388
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole. Greer, Rylvester. Greer, Tyler. Greer, Tyler. Greer, Tyler. Greer, Tyler. Gregorich, Zachery. Gregorich, Zachery. Gregorich, Zachery. Gregorich, Zachery. Gregorich, Zachery.	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380 H am 09:30WP 305TP 388TP 388TP 385TP 401
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole Greer, Rylvester Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregorich, Zachery Gregorich, Zachery.	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380 H am 09:30WP 305TP 388TP 388TP 385TP 401
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole. Greer, Sylvester. Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregon, Brian	ThP 549TP 608TP 301ThP 568MP 312TP 391TP 281MP 380MP 380MP 380MP 380MP 385TP 388TP 388TP 401TP 456ThP 023
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph. Greer, Nicole. Greer, Sylvester Greer, Tyler	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380MP 380MP 380MP 385TP 385TP 401TP 456ThP 023MP 297
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael Greenwood, Joseph Greer, Joseph Greer, Nicole Greer, Sylvester. Greer, Tyler Greer, Tyler	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380MP 305WP 305TP 388TP 385TP 401TP 456TP 452MP 223MP 553
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael Greenwood, Joseph Greer, Joseph. Greer, Nicole Greer, Sylvester. Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery.	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 305TP 388TP 385TP 401TP 456TP 456ThP 023MP 297MP 553 DE pm 3:50
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael Greenwood, Joseph Greer, Joseph Greer, Nicole Greer, Sylvester. Greer, Tyler Greer, Tyler	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 305TP 388TP 385TP 401TP 456TP 456ThP 023MP 297MP 553 DE pm 3:50
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole Greer, Rylvester Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery.	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380 H am 09:30WP 305TP 388TP 385TP 401TP 456ThP 023MP 297MP 553 DE pm 3:50WP 090
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole. Greer, Sylvester. Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregorich	ThP 549TP 608TP 608TP 331ThP 568MP 312TP 281TP 281MP 380MP 380WP 305TP 388TP 388TP 401TP 456ThP 023MP 297MP 553 DE pm 3:50WP 990TP 507
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph. Greer, Nicole. Greer, Sylvester Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Greyon, Brian Greiner, Martin Gren, Eric C.K. Grevers, Sander Grevers, Sander Greves, Nigel	ThP 549TP 608TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380MP 380MP 305TP 388TP 385TP 401TP 456TP 456TP 4023MP 297MP 553 DE pm 3:50WP 090WP 090TP 507ThP 191
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Green, Joseph Greer, Joseph Greer, Nicole. Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery	ThP 549TP 608TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380MP 305WP 305TP 388TP 385TP 401TP 456TP 456TP 456TP 553 DE pm 3:50WP 090TP 507TP 507ThP 191ThP 207
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph. Greer, Nicole. Greer, Sylvester Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Greyon, Brian Greiner, Martin Gren, Eric C.K. Grevers, Sander Grevers, Sander Greves, Nigel	ThP 549TP 608TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380MP 305WP 305TP 388TP 385TP 401TP 456TP 456TP 456TP 553 DE pm 3:50WP 090TP 507TP 507ThP 191ThP 207
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael Greenwood, Joseph Greer, Joseph Greer, Rylore Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregori	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 305MP 305TP 388TP 385TP 401TP 456ThP 023MP 553 DE pm 3:50MP 590TP 507MP 191
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregorich, Zache	ThP 549TP 608TP 331ThP 568MP 312TP 391TP 281MP 305MP 305TP 388TP 385TP 401TP 456ThP 023MP 297MP 553 DE pm 3:50WP 090TP 507ThP 191ThP 207MP 194ThP 207
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole. Greer, Sylvester. Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregorich	ThP 549TP 608TP 608TP 331ThP 568MP 312TP 391TP 281MP 380MP 380WP 305TP 388TP 388TP 401TP 456TP 401TP 456TP 923MP 297MP 553WP 090TP 507ThP 191ThP 207MP 194TP 371WP 620
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph. Greer, Nicole. Greer, Sylvester Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregorich, Zache	ThP 549TP 608TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380MP 305TP 388TP 385TP 401TP 456TP 4023MP 297MP 553 DE pm 3:50WP 090TP 191ThP 191ThP 207MP 194TP 371WP 620 B am 09:50
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph Greer, Nicole. Greer, Sylvester. Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregorich	ThP 549TP 608TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380MP 305TP 388TP 385TP 401TP 456TP 4023MP 297MP 553 DE pm 3:50WP 090TP 191ThP 191ThP 207MP 194TP 371WP 620 B am 09:50
Greenberg, Jean Greenhill, Rachel. Greenlief, C. Michael. Greenlief, Michael. Greenlief, Michael. Greenwood, Joseph Greer, Joseph. Greer, Nicole. Greer, Sylvester Greer, Tyler Greer, Tyler Greer, Tyler Greer, Tyler Gregorich, Zachery. Gregorich, Zache	ThP 549TP 608TP 608TP 331ThP 568MP 312TP 391TP 281MP 208MP 380MP 305WP 305TP 388TP 385TP 401TP 456TP 4023MP 297MP 553 DE pm 3:50WP 090TP 507ThP 191ThP 207MP 194TP 371TP 371WP 620 B am 09:50

Griffin, Timothy	TP 366
Griffin, Timothy J	ThP 455
Griffin, Timothy J	
Griffith, Wendell P	TP 592
Griffiths, Rian	MOA pm 4:10
Griffiths, Rian	MP 037
Griffiths, William J	ThP 649
Grigsby, Claude	MP 460
Grimm, Casey	ThP 493
Grinfeld, Dmitry	MP 087
Grist, Roger	TOD pm 2:50
Gritsas, Aristidis	MP 290
Groeber, Elizabeth	
Groeger, Thomas	
Groen, Aaron C	MP 609
Groening, Bjoern	
GroessI, Michael Grönberg, Gunnar	WP 262
Groscurth, Sandra	
Gross, Gerhard	
Gross, Michael	
Gross, MichaelGross, Michael	ThD 495
Gross, Michael	
Gross, Michael L	ThOF am 09:30
Gross, Michael L	ThOF am 10:10
Gross, Michael L	
Gross, Michael L	ThP 483
Gross, Michael L	ThP 492
Gross, Michael L	ThP 495
Gross, Michael L	TP 382
Gross, Michael L	TP 392
Gross. Michael L	TP 471
Gross, Michael L	.WOF am 08:50
Gross, Michael L	WP 599
Gross, Michael L	WP 597
. D. 1 1141	
Gross, Richard W	TOE am 09:30
Gross, Steven S	TOE am 09:30 . MOE am 08:50
Gross, Steven S Gross, Steven S	TOE am 09:30 .MOE am 08:50 TOH am 09:50
Gross, Steven S Gross, Steven S Gross, Steven S	TOE am 09:30 .MOE am 08:50 TOH am 09:50 TP 552
Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian	TOE am 09:30 .MOE am 08:50 TOH am 09:50 TP 552
Gross, Steven S	TOE am 09:30 .MOE am 08:50 TOH am 09:50 TP 552 TP 135
Gross, Steven S	TOE am 09:30 .MOE am 08:50 TOH am 09:50 TP 552 TP 135 TP 551
Gross, Steven S	TOE am 09:30 .MOE am 08:50 TOH am 09:50
Gross, Steven S	TOE am 09:30 .MOE am 08:50 TOH am 09:50
Gross, Steven S	TOE am 09:30 MOE am 08:50 TOH am 09:50 TP 552 TP 551 TP 551 TP 551 MP 569 MP 151
Gross, Steven S	TOE am 09:30 .MOE am 08:50 TOH am 09:50 TP 552
Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric. Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Groth, Anja	TOE am 09:30 .MOE am 08:50 TOH am 09:50 TP 552 TP 135 TP 551 ThP 116 MP 569 MP 151 ThP 112 ThP 102 WOG am 09:10
Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Himanshu	TOE am 09:30 .MOE am 08:50 TOH am 09:50
Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Groth, Anja Grover, Himanshu	TOE am 09:30 .MOE am 08:50 TOH am 09:50
Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Grotemeyer, Jürgen Grotemeyer, Himanshu Grover, Himanshu Grover, Martha Groves, Kate	TOE am 09:30 MOE am 08:50 TOH am 09:50
Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groten, Anja Grover, Himanshu	TOE am 09:30 MOE am 08:50 TOH am 09:50 TP 552
Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric. Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Groteneyer,	TOE am 09:30 MOE am 08:50 TOH am 09:50 TP 552
Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groteneyer, Jürgen Grotent, Anja Grover, Himanshu Grover, Himanshu Grover, Kate Groves, Kate Grubbs, Clinton J Grubisic, Andrej	TOE am 09:30 .MOE am 08:50TOH am 09:50TP 552TP 135TP 551ThP 116MP 569MP 151ThP 112ThP 102 WOG am 09:10ThP 444ThP 651MP 467TP 203ThP 283TP 091
Gross, Steven S Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Groth, Anja Grover, Himanshu Grover, Martha Groves, Kate Grubbs, Clinton J Grubisic, Andrej Grubisic, Andrej Grubisic, Andrej Gruening, Bjoern	TOE am 09:30MOE am 08:50TOH am 09:50TP 552TP 135TP 551TP 569MP 160MP 569MP 111ThP 112ThP 102WOG am 09:10ThP 444ThP 651MP 467TP 203ThP 091TP 127
Gross, Steven S Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Grotemeyer, Jürgen Groth, Anja Grover, Himanshu Grover, Martha Groves, Kate Grubbs, Clinton J Grubisic, Andrej Grubisic, Andrej Grubing, Bjoern Grund, Baptiste	TOE am 09:30MOE am 08:50TOH am 09:50TP 552TP 135TP 551ThP 116MP 569MP 151ThP 122ThP 651MP 444ThP 651MP 467TP 203ThP 102
Gross, Steven S Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Grotemeyer, Himanshu Grover, Martha Grover, Martha Groves, Kate Grubbs, Clinton J. Grubisic, Andrej Grubisic, Andrej Grubing, Bjoern Grund, Baptiste Grund, Baptiste	. TOE am 09:30 . MOE am 08:50 . TOH am 09:50 . TP 552
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Grotent, Anja Grover, Himanshu Grover, Martha Grover, Martha Grover, Kate Grubbs, Clinton J Grubisic, Andrej Grubisic, Andrej Gruening, Bjoern Grund, Baptiste Grünwalder, Bianca Grzetic, Josipa	TOE am 09:30 .MOE am 08:50TOH am 09:50TOH 552
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric. Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Grotent, Anja Grover, Himanshu Grover, Martha Grover, Martha Grover, Martha Groves, Kate Grubbs, Clinton J. Grubisic, Andrej Grubisic, Andrej Gruening, Bjoern Grund, Baptiste Grünwalder, Bianca Grzetic, Josipa	TOE am 09:30 .MOE am 08:50TOH am 09:50TOH 551TP 552TP 135TP 551Th 116MP 569MP 151ThP 102WOG am 09:10ThP 444ThP 651MP 467TP 203TP 203TP 203TP 127TP 127TP 127TP 127TP 127TP 127TP 129TP 127TP 127
Gross, Steven S Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groth, Anja Grover, Himanshu Grover, Martha Grover, Martha Groves, Kate Grubbs, Clinton J Grubisic, Andrej	. TOE am 09:30 . MOE am 08:50 . TOH am 09:50 . TP 552 . TP 135 . TP 551 . Th 116 . MP 569 . MP 151 . ThP 112 . ThP 102 . WOG am 09:10 . ThP 444 . ThP 651 . MP 467 . TP 203 . TP 203 . TP 203 . TP 91 . TP 127 . TP 105 . ThP 523 . TOC pm 3:30 . TP 493 . TP 493 . TP 491 . TP 493 . TP 493 . TP 493 . TP 493 . TO pm 3:30 . TP 493 . TP 493 . TP 491
Gross, Steven S Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groth, Anja Grover, Himanshu Grover, Martha Grover, Martha Groves, Kate Grubbs, Clinton J Grubisic, Andrej	. TOE am 09:30 . MOE am 08:50 . TOH am 09:50 . TP 552 . TP 135 . TP 551 . Th 116 . MP 569 . MP 151 . ThP 112 . ThP 102 . WOG am 09:10 . ThP 444 . ThP 651 . MP 467 . TP 203 . TP 203 . TP 203 . TP 91 . TP 127 . TP 105 . ThP 523 . TOC pm 3:30 . TP 493 . TP 493 . TP 491 . TP 493 . TP 493 . TP 493 . TP 493 . TO pm 3:30 . TP 493 . TP 493 . TP 491
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groten, Anja Grover, Himanshu Grover, Martha Grover, Kate Grubbs, Clinton J Grubisic, Andrej Grubisic, Andrej Grund, Baptiste Grund, Baptiste Grünwalder, Bianca Grzetic, Josipa Gsponer, Joerg Gu, Chunang (Christine) Gu, Chunyan Gu, Flora Gu, Haiwei	TOE am 09:30MOE am 08:50TOH am 09:50TP 552TP 551TP 551TP 551TP 116MP 569MP 151ThP 112ThP 102WOG am 09:10ThP 444ThP 551MP 467TP 203TP 203TP 170TP 170TP 170TP 170TP 170TP 170TP 170TP 493TP 493TP 493TP 411WP 411WP 687MOE am 09:30
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric. Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Grotent, Anja Grover, Himanshu Grover, Martha Grover, Martha Grover, Martha Grover, Martha Grover, Martha Grover, Martha Groven, Martha Grubbs, Clinton J Grubisic, Andrej Grubisic, Andrej Grubisic, Andrej Gruening, Bjoern Grund, Baptiste Gruening, Bjoern Grund, Baptiste Grundler, Bianca Grzetic, Josipa Gsponer, Joerg Gu, Chunang (Christine) Gu, Chunyan Gu, Flora Gu, Haiwei	TOE am 09:30MOE am 08:50TOH am 09:50TOH 552
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric. Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Grotent, Anja Grover, Himanshu Grover, Martha Groves, Kate Grubbs, Clinton J Grubisic, Andrej Grubisic, Andrej Grund, Baptiste Gründ, Baptiste Gründ, Baptiste Grzetic, Josipa Gsponer, Joerg Gu, Chunang (Christine) Gu, Chunyan Gu, Flora Gu, Haiwei Gu, Haiwei Gu, Haiwei	TOE am 09:30MOE am 08:50TOH am 09:50TOH 552TP 135TP 551TP 551TP 116MP 156MP 151ThP 112ThP 102WOG am 09:10ThP 444ThP 651MP 467TP 203ThP 283TP 991TP 127TP 127TP 105ThP 553TOC pm 3:30TP 493TP 931WP 411WP 687MOE am 09:30MP 347
Gross, Steven S Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groth, Anja Grover, Himanshu Grover, Martha Groves, Kate Grubbis, Clinton J Grubisic, Andrej Grubisic, Andrej Gruening, Bjoern Grund, Baptiste Grünwalder, Bianca Grzetic, Josipa Gsponer, Joerg Gu, Chunang (Christine) Gu, Chunyan Gu, Flora Gu, Haiwei	. TOE am 09:30 . MOE am 08:50 . TOH am 09:50 . TP 552
Gross, Steven S Gross, Steven S Gross, Steven S Gross, Steven S Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric. Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groth, Anja Grover, Himanshu Grover, Martha Grover, Martha Groves, Kate Grubisic, Andrej Grubisic, Andrej Grubisic, Andrej Grund, Baptiste Gründ, Baptiste Grünwalder, Bianca Grzetic, Josipa Gsponer, Joerg Gu, Chunang (Christine) Gu, Chunyan Gu, Flora Gu, Haiwei Gu, Haiwei Gu, Haiwei Gu, Haiwei Gu, Hongbo	. TOE am 09:30 . MOE am 08:50 . TOH am 09:50 . TP 552
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Groten, Anja Grover, Himanshu Grover, Martha Grover, M	TOE am 09:30MOE am 08:50TOH am 09:50TOH 552
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric Grotemeyer, Jurgen Grotemeyer, Jürgen Grotemeyer, Jürgen Grotemeyer, Jürgen Groten, Anja Grover, Himanshu Grover, Martha Grover, Martha Grover, Martha Grover, Martha Grover, Martha Grover, Martha Groubis, Clinton J Grubisic, Andrej Grubisic, Andre	TOE am 09:30MOE am 08:50TOH am 09:50TOH 552
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric. Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groteneyer, Jürgen Grotent, Anja Grover, Himanshu Grover, Martha Grover, Jörgen Grubisic, Andrej Grubisic, Andrej Grubisic, Andrej Gruening, Bjoern Grund, Baptiste Grünwalder, Bianca Grzetic, Josipa Gsponer, Joerg Gu, Chunyan Gu, Chunyan Gu, Haiwei Gu, Haiwei Gu, Haiwei Gu, Haiwei Gu, Haiwei Gu, Hongbo Gu, Hongbo Gu, Hongbo	. TOE am 09:30 . MOE am 08:50 . TOH am 09:50 . TOH 552 . TP 135 . TP 551 . Th 116 . MP 569 . MP 151 . ThP 112 . ThP 102 . WOG am 09:10 . ThP 444 . ThP 651 . MP 467 . TP 203 . ThP 283 . TP 091 . TP 127 . TP 105 . ThP 523 . TOC pm 3:30 . TP 493 . ThP 311 . WP 411 . WP 687 . MOE am 09:30 . MP 019 . MP 347 . TP 654 . MOF pm 2:30 . MP 776 . MP 576 . MP 576 . ThP 339
Gross, Steven S. Gross, Steven S. Gross, Steven S. Gross, Steven S. Grosse-Coosmann, Florian Grosse-Coosmann, Florian Grossert, J. Stuart Grote, Eric. Grotemeyer, Jurgen Grotemeyer, Jurgen Grotemeyer, Jürgen Groth, Anja. Grover, Himanshu. Grover, Martha. Grover, Martha. Groves, Kate. Grubbs, Clinton J. Grubisic, Andrej. Grubisic, Andrej. Grubisic, Andrej. Gruening, Bjoern Grund, Baptiste Gründ, Baptiste Gründ, Christine) Gu, Chunyan Gu, Chunyan Gu, Chunyan Gu, Haiwei. Gu, Haiwei. Gu, Haiwei. Gu, Haiwei. Gu, Hongbo.	TOE am 09:30 MOE am 08:50 TOH am 09:50 TP 552 TP 135 TP 551 Th 116 MP 569 MP 151 ThP 112 ThP 102 WOG am 09:10 ThP 444 ThP 651 MP 467 TP 203 ThP 283 TP 991 TP 127 TP 105 ThP 523 TOC pm 3:30 TP 493 ThP 311 WP 411 WP 687 MOE am 09:30 MP 172 MP 172 TP 654 MOF pm 2:30 MP 473 MP 576 ThP 339 ThP 339 ThP 339 ThP 339 ThP 533
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Hayes, Martin ATOF	l pm 2:30
Hayes, William K	MP 553
Haynes, Christopher A	
Haynes, Paul	
Haynes, Paul A	MP 523
Hayward, Denise Hayward, Mark J	VVP 426
Hayward, Mark J	IVIP 3 13 N/D 059
Hayward, S. Diane	
Hazama, Hisanao	
Hazen, Stanley	TP 212
He, ChenchenThOE	am 08:50
He, Didi	TP 423
He , Feng	
He, Huaibing	
He, Kun	
He, Lin	
He, LinThOA	
He, MuyiHOA	M/D 472
He, Quan	WP 244
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He, Tieming He, Xiaowei	. I hP 541
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Heath, John	WF 021 MP 487
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Hebert, Alexander Hebert, Alexander H	VVP 460
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Hebert, Vincent	ThP 145
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Heller, Manfred	TP 586
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Henderson, Jeffrey P	ThP 086
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Hendricks, NathanTC	C pm 2:50
Hendrickson, Chris	MP 219
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Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	WP 412ThP 247ThP 248 WP 104ThP 282TP 177 DB pm 4:10TP 135TP 358TP 358
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Henrich, Marco	WP 412ThP 248 WP 104 ThP 282TP 177 DB pm 4:10TP 136TP 108TP 358MP 594MP 466
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco MC Henrich, Christoph. Henry, Hugues Henry, Thomas Hensbergen, Paul J. Hensley, Kenneth Hensley, Kenneth	WP 412ThP 247ThP 247ThP 248TP 109TP 177TP 177TP 138TP 108TP 109TP 466WP 286
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Henion, Jack Henion, Jack Henion, Jack Henion, Jack D Hennerbert, Elise Hennig, Michael Hennrich, Marco MC Henrich, Christoph Henry, Hugues Henry, Thomas Hensbergen, Paul J Hensley, Kenneth Henson, Shelagh Henson, Shelagh	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco. Henrich, Christoph Henry, Hugues. Henry, Thomas Hensbergen, Paul J. Hensley, Kenneth Henson, Shelagh Herson, Shelagh Herath, Kithsiri	WP 412ThP 248ThP 248ThP 282TP 177)B pm 4:10TP 1358TP 105MP 594MP 466WP 286MP 378MP 378WP 308
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	WP 412 ThP 248 ThP 248 ThP 282 TP 177 DB pm 4:10 TP 135 TP 105 MP 594 MP 466 WP 286 WP 376 TP 180
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Henrich, Marco	WP 412ThP 247ThP 247ThP 248TP 177 DB pm 4:10TP 135TP 103TP 356MP 594MP 466WP 286MP 376TP 180WP 306MP 376TP 180WP 306MP 376MP 376
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Henrich, Marco	WP 412ThP 247ThP 247ThP 248TP 177TP 177TP 135TP 105TP 105MP 594MP 466WP 286MP 376MP 376MP 376MP 376MP 376MP 376MP 376MP 376
Henion, Jack Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco MC Henrich, Christoph. Henry, Hugues Henry, Thomas Hensbergen, Paul J. Hensley, Kenneth Henson, Shelagh Herson, Shelagh Herson, Shelagh Herbig, Jens.	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco. Henrich, Christoph Henry, Hugues. Hensbergen, Paul J. Hensley, Kenneth Hensley, Kenneth Henson, Shelagh Hersth, Kithsiri Herbig, Jens. Herbig, Jens. Herbig, Jens. Herbst, John Hercules, David M.	WP 412 ThP 248 ThP 248 ThP 282 TP 177)B pm 4:10 TP 135 TP 105 MP 594 MP 466 WP 286 WP 308 WP 308 WP 070 MP 070 MP 075 MP 075 MP 076
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	WP 412ThP 248ThP 248TP 177TP 177TP 177TP 1358TP 109TP 109TP 180MP 376MP 376MP 070MP 070MP 073MP 076MP 636MP 563
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	WP 412 ThP 248 ThP 248 TP 177 TP 177 TP 177 TP 135 MP 594 MP 466 WP 286 WP 376 MP 376 MP 070 MP 070 MP 088 ThP 632 MP 563 MP 563
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco. Henrich, Christoph Henry, Hugues. Hensbergen, Paul J. Hensley, Kenneth Hensley, Kenneth Henson, Shelagh Herson, Shelagh Herbig, Jens. Herbig, Jens. Herbig, Jens. Herbig, Jens. Herbig, Jens. Herbus, David M. Hermannova, Martina. Hermannova, Martina. Hermannova, Merna. Hernandes, Vinicius. Hernandez, Belen	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	
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Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	WP 412 ThP 248 ThP 248 TP 177 TP 177 TP 177 TP 177 TP 177 MP 594 MP 594 MP 594 MP 376 MP 180 WP 308 MP 070 MP 070 MP 070 MP 563 MP 563 MP 563 MP 563 TP 180 MP 240 TP 644 TP 645 TP 645 TP 180 TP 376 TP 180 TP 376 TP 250 TP 608 WP 338 TP 376 WP 338 TP 376 TP 37
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Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	WP 412 ThP 248 ThP 248 TP 177 TP 177 TP 177 TP 177 TP 177 MP 594 MP 594 MP 594 MP 376 MP 376 MP 076 MP 632 TP 188 WP 288 MP 376 MP 197 MP 198 MP 376 MP 573 MP 563 TP 644 ThP 640 TP 376 TP 698 WP 338 TP 698 MP 575 TP 698 MP 076 MP 075 TP 698 MP 076 MP 076 MP 076 MP 076 MP 076 MP 076
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco. Henrich, Christoph Henry, Hugues. Henry, Thomas Hensbergen, Paul J. Hensley, Kenneth Henson, Shelagh. Herson, Shelagh. Herbig, Jens. Herolles, David M. Hermannová, Martina. Hermannová, Martina. Hernandez, Vinicius. Hernandez, Belen Herniman, Julie. Herniman, Julie. Herniman, Julie. Herniman, Julie. Herniman, Scott. Heron, Scott. Heron, Scott. Heron, Scott. Herrera, Anthony. Herrerknecht, Christine	
Henion, Jack Henion, Jack Henion, Jack D. Hennerbert, Elise. Hennig, Michael Hennrich, Marco	WP 412 ThP 248 ThP 248 TP 177 TP 177 TP 177 TP 177 TP 177 MP 594 MP 594 MP 594 MP 596 MP 376 MP 076 MP 076 TP 180 MP 076 MP 593 MP 076 MP 593 TP 180 WP 308 MP 076 MP 076 TP 644 TP 180 TP 180 MP 563 MP 563 MP 563 MP 563 TP 246 TP 608 TP 180 TP 376 TP 608 WP 042 MP 076 TP 018 MP 076 TP 180 WP 042 WP 042 WP 043 WP 044 TP 180 TP 250 MP 076 TP 180 TP 18
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Heslegrave, Amanda		Hirtz, Christophe		Holsen, Thomas	
Heslegrave, Amanda		Hirtz, Christophe		Holst, Stephanie	
Hess, Nancy J		Hirtz, Karine		Holtz, Barry	
Hess, Philipp		Hisert, Katherine		Hom, Kellie	
Hess, Philipp		HIshiki, Takako		Hommersom, Bob	
Hess, Sonja		Hitchcock, Charles		Honarvar, Elahe	
Hess, Sonja		Hixson, Kim K		Hondo, Toshinobu	
Hess, Sonja		Hlavackova, Kristyna		Hong, Hui	
Hess, Sonja		Hnatyshyn, Serhiy		Hong, Teresa B	
Hetmanski, Mike		Hnatyshyn, Serhiy		Hong, Uri	
Hetmanski, Mike Hettich, Robert		Hnatyshyn, Serhiy Ho, Emmie N. M		Honing, Maarten Honnold, Ron	
Hettich, Robert		Ho, Hsin-Pin		Honnold, Ron	
Hettich, Robert		Ho, Johnny K		Hood, Brian	
Hettich, Robert		Ho, Jonathan		Hoofnagle, Andrew	
Hettich, Robert		Ho, Stacy		Hoofnagle, Andrew	
Hettich, Robert		Ho, Tricia		Hoofnagle, Andy	
Hettich, Robert		Ho, Wan-Zo		Hoog, Jeremy	
Hettick, Justin M		Hoang, Bao		Hook, Andrew	
Heuberger, Adam		Hoang, Chuong		Hooper, Alex	
Hewetson, John		Hoang, Khoa		Hoopmann, Michael R	
lewitt, Darren		Hoang, Khoa		Hoopmann, Michael R	
Hewitt, Darren		Hoang, Van		Hoopmann, Michael R	
Hewitt, Darren		Hober, Sophia		Hoopmann, Michael R	
Hiasa, Natsuki		Hochart, Guillaume		Hooton, Kevin	
Hibi, Daisuke		Hochrein, James		Hoover, Michael E.	
Hicks, Leslie		Hochrein, James		Hoover, Michael E	
Hicks, Leslie		Hochrein, James		Hopfgartner, Gerard	
Hidalgo, Daniel		Hochrein, James		Hopfgartner, Gerard	
Hidy, Bruce		Hochwender, Cris		Hopfgartner, Gerard	
Hidy, Bruce		Hoda, Sadaf		Hopfgartner, Gérard	
Hieftje, Gary		Hoda, Sadaf		Hopkins, John	
Hieftje, Gary M		Hoefner, Daniel		Hopkins, W. Scott	
Higashiyama, Masumi		Hoehndorf, Jens		Hopkins, W. Scott	
Higazi, Daniel		Hoeppner, Morgan		Hopkinson, Alan C	
Higgins, Chris		Hoerning, Ole		Hopley, Chris	
Higgins, Leeann		Hoffman, Eric P		Hopley, Christopher	
High, Anthony		Hoffman, Melissa		Hoppe, Carolyn	
Higo, Daisuke		Hoffman, Melissa		Hopwood, John	
Higuera, Monica		Hoffman, Melissa		Hopwood, John	
Hike, Hiroshi		Hoffman, Ron		Horn, David	
Hike, Hiroshi		Hoffman, Tim L		Horn, David	
Hilderbrand, Amy		Hoffmann, Franziska		Horn, David	
Hilderbrand, Amy		Hoffmann, William		Horn, David	
Hildreth, James E. K		Hoffmann, William		Horn, David	
Hilgendorf, Constanze		Hoffmann, William D		Horn, David	
Hilger, Maximiliane		Hofmann, Johanna		Horn, David	
Hilger, Maximiliane		Hogan, Donna		Horn, David	
Hilger, Ryan T		Hogan, Scott		Horn, David M	
Hill, Jennifer J		Hohenester, Ulli		Horn, Harald	
Hill, Michael F		Hohenester, Ulli		Horn, Heidi	
Hill, Salisha		Höhndorf, Jens		Horn, Sarah	
Hill, W. Adam G		Höhndorf, Jens		Horner, Gerhard	
Hillegas, Mary		Hoki, Jason		Horner, Gerhard	
Hilliard, Mark		Holcapek, Michal	•	Horning, Stevan	
Hilton, Gina		Holden, Dustin		Horowitz-Gelb, Max	
Hiltunen, Mikko		Holden, Dustin		Horswill, Alexander	
Himmati, Farhan		Holden, Dustin D		Horton, Andrew	
Himmelfarb, Jonathan		Holding, Finn		Horvath, Thomas	
Hines, Kelly		Holdsworth, Cat		Hosamani, Ravikumar	
lines, Kelly		Holewinski, Ronald		Hosfield, Chris	
Hinks, David		Holewinski, Ronald		Hossain, Ekram	
Hinks, David		Holland, Patricia		Hosseini, Mir Wais	
Hinneburg, Hannes		Holland, William L		Hoteling, Andrew J	
Hinneburg, Hannes		Holle, Armin		Hoti, Naser	
Hinrichs, Kai-Uwe		Holle, Armin		Hoti, Naser Uddin	
Hintermann, Samuel		Hollerbach, Adam		Hou, Aixin	
Hioki, Yusaku		Hollerbach, Adam	•	Hou, Guixue	•
Hippler, Joerg		Holley, Christopher		Hou, Guixue	
Hirano, Ichiro		Holliday, Alison		Hou, Guixue	
Hirano, Ichiro		Holliman, Christopher		Hou, Jingguo	
Hirano, Ichiro		Holliman, Christopher		Hou, Junjie	
		Hollnagel, Christoph		Hou, Sheng	
Hirano, Ichiro		Hölltaler, Philip		Hou, Shuyu	
	IVIE ZOU			 ,,	
Hirayama, Mio			MOR nm 3:50	Hou Sijian	TD 583
Hirayama, Mio Hirayama, Mio	TOB pm 3:10	Holman, Jerry		Hou, Sijian	
Hirano, Ichiro Hirayama, Mio Hirayama, Mio Hirayama, Mio Hird, Simon Hirschey Matthew	TOB pm 3:10	Holman, Jerry Holmes, Elaine	MP 442	Hou, Sijian	WP 513
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Houel, Stephane		Huang, Susie SY		Hummon, Amanda D	
Houel, Stephane Houel, Stephane		Huang, Tai-Chung Huang, Taohong		Hummon, Amanda B Hummon, Amanda B	
Houk, R.S		Huang, Taohong		Hummon, Amanda B	
Houk, R.S		Huang, Taohong		Hummon, Amanda B	
Hourdel, Véronique		Huang, Taohong		Hummon, Amanda B	
Hourdel, Véronique		Huang, Xiaojing		Hummon, Amanda B	
Houser, Whitney		Huang, Xiaojing		Humphrey, Sean	
Housman, Kathleen		Huang, Xiaojing		Humphreys, W. Griff	
Housman, Kathleen		Huang, Xiaoyan		Humphreys, W. Griffith	
Housman, Kathleen	WP 343	Huang, Yande		Humphries, Jamie K	
Howbert, J. Jeffry	ThP 433	Huang, Yeou-Lih	ThP 659	Humphryes, Phillip	MP 554
Howbert, J. Jeffry	WP 313	Huang, Yeru	TP 304	Humston-Fulmer, Elizabeth	MP 424
Howell, Bonnie J		Huang, Yingying		Humston-Fulmer, Elizabeth	
Hoyer, James		Huang, Yingying	ThP 221	Hung, Chien-Wen	WP 683
Hoyes, Emmy		Huang, Yingying		Hung, Clark T	
Hoyes, Emmy		Huang, Yingying		Hung, Clark T	
Hoyes, John		Huang, Yingying		Hung, Ya-Chen	
Hrabakova, Rita		Huang, Yining		Hunt, Donald	
Hronowski, Xiaoping L		Huang, Yining		Hunt, Donald F	
Hsiao, Chun-Jen		Huang, Yining		Hunt, Jacob C.	
Hsieh, Hsin-Yu		Huang, Yining		Hunter, Christie	
Hsieh, Hung-Liang		Huang, Yong		Hunter, Christie	
Hsieh, Kai-Ta		Huang, Yongchen		Hunter, John	
Hsin, Michael		Huang, Yongqi		Hunter, Kevin	
Hsu, Chuan Chih		Huang, Yu		Hunter, Kevin Huntsman, David	
Hsu, Chuan-Chih Hsu, Chuan-Chih		Huang, Yue Huang, Yue		Huo, Runlan	
Hsu, Pang-Hung		Huang, Yunging		Huo, Runian	
Hsu, Wei-Ting		Huang, Yuting		Hurdle, Shelsea	
Hu, Alex		Huang, Zhi-Qiang		Hurley, Bill	
Hu, Bin		Huang, Zhi-giang		Hurney, Steven	
Hu, Bin		Hubbard, Kendra		Hurst, Gregory	
Hu, Chang-Deng		Huber, Christian		Hurst, Robin	
Hu, Chang-Deng		Huber, Katharina		Hurst, Robin	
Hu, Chaoyang		Huber, Steven		Hurt, Matthew	
Hu, Jianfang		Huc, Ivan		Hurt, Matthew	
Hu, Jingyu		Hud, Nicholas		Hurt, Matthew R	
Hu, Linda I		Hud, Nicholas		Husby, Erik	
Hu, Peifeng	ThP 091	Hudgens, Jeffrey W	MP 187	Hušek, Petr	MP 370
Hu, Peifeng	WP 428	Hudgens, Jeffrey W	WP 646	Hutama, Timothy	MOA am 09:50
Hu, Wenbing	WP 628	Hudgens, Jeffrey W	WP 625	Hutchinson, Carolyn	ThP 001
Hu, Yunli		Hudson, John	ThP 175	Hutchinson, Carolyn	TP 166
Hu, Yunli		Hufford, Kevin		Hutchinson, Carolyn	
Hu, Yunli		Hughes, Chris		Huttlin, Edward L	
Hu, Yunli		Hughes, Chris		Hutton, Josiah	
Hua, Zhengmao		Hughes, Christopher		Huynh, Kathy	
Huan, Tao		Hughes, Cole		Hwang, Geum-Sook	
Huan, Tao		Hughes, Derralyn A		Hwang, Geum-Sook	
Huang, Bill		Hughes, Emma		Hwang, Geum-Sook	
Huang, Chao Huang, Chi-Jung	IP 513	Hughey, Christine A		Hwang, Heeyoun	
Huang, Eric L	VI 200	Hughey, Christine A		Hwang, Leekyoung Hwang, Leekyoung	
		Huguet, Romain			
Huang, Fan Huang, Fang-Ke		Huguet, Romain Huguet, Romain		Hwang, Wei-Ting Hyche, Justin	
Huang, Guangming		Huguet, Romain		Hyland, KC	
Huang, He		Huguet, Romain		Hyland, Stephen	
Huang, He		Huguet, Romain		Hyodo, Fuminori	
Huang, Hsin-Hung		Huguet, Romain		Hyöty, Heikki	
Huang, JinFeng		Huhman, David		Hyötyläinen, Tuulia	
Huang, Jing		Huhman, David V		lacob, Roxana E	
Huang, Lan	ThOF pm 3:30	Huhman, David V		lannucci, Robert	
Huang, Li	TP 337	Huhman, David V	TP 173	lanowski, Juan	WP 275
Huang, Lin	MP 520	Huhmer, Andreas	MP 633	lavarone, Anthony	MOD am 08:30
Huang, Min Zong	TP 004	Huhmer, Andreas	TP 158	lavarone, Anthony T	MP 239
Huang, Min Zong		Huhmer, Andreas	TP 402	lavarone, Anthony T	WP 629
Huang, Min Zong		Huhmer, Andreas		Ibáñez-Vea, María	
Huang, Min Zong		Huhmer, Andreas F		Ibba, Michael	
Huang, Min Zong		Huhmer, Andreas FR		Ibrahim, Ashraf	
Huang, Min Zong		Huhmer, Andreas FR		Ibrahim, Yehia	
Huang, Ming		Huhmer, Andreas FR		Ibrahim, Yehia M	
Huang, Qiang		Huhmer, Andreas FR		Ibrahim, Yehia M	
Huang, Qianyang		Huhmer, Andreas FR		Ibrahim, Yehia M	
Huang, Richard		Huhmer, Andreas FR		Ibrahim, Yehia M	
Huang, Richard		Hühmer, Andreas		Ibrahim, Yehia M	
Huang, Richard		Hui, John		Ibrahim, Yehia M	
Huang, Rongrong		Hui, Shu-Ping		Ibrahim, Yehia M	
Huang, Rongrong		Huiyan, Yang		Ichikawa, Chigusa	
Huang, Shijiao	10F am 10:10	Hulst, Albert	1P 356	Ichiki, Yayoi	IP 072



Ichiki, Yayoi	\MP 077	Ishihama, Yasushi	ThD 32/	Jaegger, Caroline	TD 683
leritano, Christian		Ishihama, Yasushi		Jaffe, Jacob D	
Ifa, Demian		Ishihama, Yasushi		Jaffe, Jacob D.	
Ifa, Demian		Ishii, Akira		Jaffe, Jacob D	
Ifa, Demian	MP 231	Ishii, Masaru	MP 613	Jaffe, Jacob D	TP 132
Ifa, Demian		Ishikawa, Tetsuya		Jaffe, Jacob D	
Igarashi, Junetsu		Ishoey, Mette		Jaffe, Jacob D	
Iguchi, Kohta		Ismail, Vian S		Jaffray, David	
Ihara, Yasuo		Isobe, Toshiaki		Jagerdeo, Eshwar	
Ihlenborg, Marvin		Isobe, Toshiaki		Jagmin, Jeff	
lida, Junkolida, Tetsuo		Ito, ShingoIto, Shinya		Jagtap, Pratik Jagtap, Pratik	
IJzermans, Jan		Ivanisenko, Vladimir		Jagtap, Pratik	
Ikeda, Noriaki		Ivanov, Alexander		Jagtap, Pratik	
Ikegawa, Masaya		Ivanov, Alexander		Jagtap, Pratik	
Ikegawa, Masaya		Ivanov, Alexander R		Jagtap, Pratik	
Ikegawa, Masaya	TP 676	Ivanov, Alexander R	ThOb am 09:50	Jahn, Sandra	MP 333
Ikegawa, Masaya	TP 688	Ivanov, Alexander R	ThOD am 10:10	Jain, Mohit	MP 407
Ikegawa, Shigeo	ThP 277	Ivanov, Alexander R	TP 141	Jain, Rashmi	WP 672
Ikenishi, Fumio		Ivanov, Alexander R		Jain, Shila	
Ikram, Arfan		Ivey, Richard		Jainhuknan, Jaran	
Ileka, Kevin		Ivleva, Vera		Jaiswal, Mihir	
Iliuk, Anton		Ivosev, Gordana		Jakobsen, Lene	
Illes-Toth, Eva		Ivosev, Gordana		Jakobsen, Rasmus U	
Illges, Harald		Ivosev, Gordana		Jalali, Moe	
Ilonen, JormaImaduwage, Kasun		Ivosev, GordanaIwamoto, Noriko		Jalili, Pegah	
Imagaki, Kazuhide		Iwamoto, Noriko		James, Christopher	
Imanishi, Susumu		Iwamoto, Shigeto		James, David	
Imatani, Ken		Iwamoto, Shinichi		Jami Alahmadi, Yasaman	
Imatani, Ken		Iwamoto, Shinichi		Jamin, Emilien	
Imhof, Axel	TOB am 08:30	Iwamoto, Shinichi		Jamusch, Alan	
Imhof, Axel	WOG am 09:10	Iwasaki, Noriyuki	MP 456	Jan, Erzberger	WOF am 10:10
Imhof, Axel	WP 185	Iwasaki, Noriyuki	TP 681	Janech, Michael	MP 486
Imoto, Eishi		Iwasaki, Noriyuki		Janech, Michael	
Impey, Gary		Iwata, Hiroshi		Janfelt, Christian	
Impey, Gary		lwata, Yosuke		Jang, In Jin	
Impey, Gary		lwata, Yuko		Jang, In-Jin	
Impey, Gary		lyer, Ramsunder		Jang, In-Jin	
In, Moon Kyo		Izgarian, Nick		Janis, Janne	
Inamdar, Shashikala RIndeykina, Maria		Izgarian, Nick Izumi, Yoshihiro		Janiszewski, John Janiszewski, John	
Indeykina, Maria		Izumi, Yoshihiro		Janiszewski, John	
Infusini, Giuseppe		Izumi, Yoshihiro		Janiszewski, John	
Infusini, Giuseppe		Jabbour, Rabih		Janiszewski, John	
Infusini, Giuseppe		Jablokow, A		Janiszewski, John	
Ingbritsen, Tes	WP 069	Jablokow, A	ThP 662	Janiszewski, John	ThP 239
Ingendoh, Arnd	WP 662	Jabs, Wolfgang	MP 603	Janiszewski, John	ThP 236
Inglese, Elvira		Jabs, Wolfgang		Janiszewski, John	
Ings, Jennifer		Jabs, Wolfgang		Janiszewski, Joseph	
Inman, Denise M		Jabs, Wolfgang	TP 387	Jansen, Hugo-Jan	
Inniss, EnosInohana, Yusuke		Jabs, Wolfgang Jabs, Wolfgang	1P 500	Jansson, Erik	
,		Jachtenberg, Jan-Willem		Jansson, Erik T	
Inoue, HiroyukiInoue, Tomonori		Jacksén, Johan		Jansson, Erik T Jansson, Thomas	
Insley, Joseph		Jacksén, Johan		Janusson, Eric	
Interthal, Heidrun		Jackson, Bruce		Japertas, Pranas	
lon, Laura		Jackson, Bruce		Jara, Jose Luiz	TP 092
lonov, Oleg	MP 331	Jackson, Glen	ThOC am 08:50	Jaratrungtawee, Amornmart	MP 636
losifescu, Dan	WP 293	Jackson, Glen	WP 261	Jardines, Daniel	MP 378
Ippoliti, Paul		Jackson, Glen P		Jarmusch, Alan	ThOA pm 2:50
Irimia, Cristina		Jackson, Isabel L		Jarmusch, Alan K	
Irving, Brian		Jackson, Isabel L	'	Jarrell, Tiffany	
Isaac, Giorgis		Jackson, Robert		Jarrold, Martin	
Isaac, Giorgis		Jackson, Robert		Jarrold, Martin	
Isaac, Giorgis		Jackson, Robert H		Jarrold, Martin	
Isaacs, Farren JIsailovic, Dragan		Jackson, Shelley N Jackson, Shelley N		Jarvis, Jacqueline M Jarvis, Michael J. Y	
Isailovic, Dragan		Jackson, Shelley N	•	Jasper, Yvonne	
Isailovic, Dragan		Jackson, Shelley N		Jaspers, Ilona	
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		Jacobs, lan		Jayaraman, Dhileepkumar	
			ThP 581	Jayatilaka, Nayana K	
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enkins, Tim	
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ensen, Ole Noerregaard	
ensen, Pernille F	
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enssen, Bjørn M	MP 470 Jing
eong, Wanseop	
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eter, Greg	
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etton, KaLeisha G	
ewsbury, PhilipT	
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i, Biao	
i, Chao	
i, Jianguo	
i, Jin	
i, Jing	
i, Qin C	
i, Yuhuani, Zhiwei	
i a , Haitao	
ia, Xiaoying	
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ia, Zhengwei	
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iang, Sin-Ciang	
iang, Tao	
iang, Ting	WP 472 Joh
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Joubert, Laurent		Kalariya, Pradipbhai		Karlsson, Elisabeth	
Jowitt, Thomas		Kalavalapalli, Srilaxmi		Karlsson, Helen	
Joy, Rosa		Kalinin, Sergei V Kalkhof, Stefan		Karlsson, Oskar Karlsson, Oskar	
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Ju, Yue Juba, Melanie		Kalkum, Markus Kalkum, Markus		Karn, Jonathan Karnesky, William E	
Judd, Audra		Käll, Lukas		Karnovsky, Alla	
Judd, Audra		Käll, Lukas		Karp, Peter	
Juerschik, Simone		Käll, Lukas		Karras, Robin	
Juerschik, Simone		Kallback, Patrik		Karst, Uwe	
Juerschik, Simone		Kallback, Patrik		Karu, Kersti	'
Juhasz, Peter		Källback, Patrik		Kashuba, Angela DM	
Juhasz, Peter		Kaltashov, Igor		Kashuba, Angela DM	
Julian, Ryan R		Kaltashov, Igor A		Kashyap, Tanuja R	
Julian, Ryan R		Kaltashov, Igor A		Kasko, Andrea	
Juliano Neto, Luiz		Kaltashov, Igor A		Kaspar, Stephanie	
Juliano Neto, Luiz		Kalu Appulage, Dananjaya		Kaspar, Stephanie	
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Jurcic, Kristina		Kane, Maureen A		Kato, Kayoko	
Jurek, Russell		Kaneko, Akihito		Kato, Lucilia	
Jurneczko, Ewa		Kaneko, Naoki		Katselis, George	
Jurusik, Kristen		Kaneshiro, Kaoru		Katselis, George	
Jurzenski, Jessica		Kang, Pilsoo		Katselis, George	
Jyrki, Viidanoja		Kang, Shin-Kwon		Katz, Joshua	
Jyukurogi, Akira		Kang, Sohye		Kaufman, Arlen	
Kaasik, Krista		Kang, Won Jae		Kauppila, Tiina J	
Kabeche, Lilian		Kang, Yang		Kauppila, Tiina J	
Kaboord, Barb		Kang, Yibin		Kaur, Parminder	
Kaboord, Barbara		Kanický, Viktor		Kaur, Parminder	
Kacerovsky, Marian		Kannan, Kurunthachalam		Kaushik, Nutan	
Kaczmarek, Anthony Kadar, Eugene P		Kanthasamy, Mohan Kanyo, Jean		Kavan, Daniel Kavan, Daniel	
Kadasala, Naveen		Kao, Athit		Kavana, Michael	
Kadek, Alan		Kao, Yung-Hsiang		Kawachi, Nicole	
Kadi, Adnan A		Kapinos, Brendon		Kawahara, Kazuki	
Kadiiska, Maria B		Kapinos, Brendon		Kawai, Yosuke	
Kafle, Amol		Kapinos, Brendon		Kawamukai, Takatomo	
Kafle, Ariun		Kapinos, Brendon		Kawamukai, Takatomo	
Kaftan, Craig		Kaplan, Desmond		Kawamura, Rieko	
Kage, David		Kaplon, Joanna		Kawana. Shuichi	
Kahen, Kaveh		Kaplun, Yevgeny		Kawano, Shin-ichi	
Kahler, Ty		Kapp, Eugene		Kawano, Shin-ichi	
Kahler, Ty		Kapteyn, Emily		Kawano, Shin-ichi	
Kahler, Ty		Karageorgos, Ioannis		Kawano, Shin-ichi	
Kahler, Ty		karageorgos, ioannis		Kawano, Shin-ichi	
Kai-Chi Lau, Justin		Karancsi, Tamas		Kawashima, Miho	
Kailasam, Srividya		Karancsi, Tamas		Kawashima, Miho	
Kailemia, Muchena J		Karancsi, Tamas		Kaya, Firat	
Kaipparettu, Benny A		Karas, Michael		Kayadibi, Huseyin	
Kaiser, Brooke		Karas, Michael		Kazaleh, Matthew	
Kaiser, Nathan		Karaveg, Khanita		Kazaleh, Matthew S	
Kaiser, Nathan K		Karch, Kelly		Ke, Jing	
Kaiser, Nathan K		Karch, Kelly		Ke, Zhenlian	
Kaiser, Nathan K		Karch, Kelly R		Kearney, Sean	
Kaiser, Nathan K		Kåredal, Monica		Keating, James	
Kaiser, Nathan K		Karellas, Nicholas S		Kedia, Komal	
Kaiser, Nathan K		Karenzi, Ben		Kee, Jung-Min	
Kaiser, Samantha		Karger, Barry		Keelor, Joel	
Kaji, Hidefumi		Karger, Barry L		Keelor, Joel D	
Kakarla, Raghavi		Karger, Barry L		Keevil, Brian	
Kakehi, Masaaki		Karger, Barry L		Kehler, Jonathan	
Kakitani, Ayano		Karger, Barry		Keifer, David	
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Keirsey, Jeremy		Kersten, Gideon		Kilsgård, Ola	
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Kelkar, Jitendra		Kersten, Hendrik		Kim, Dong-Seon	
Kelkar, Jitendra		Kersten, Hendrik		Kim, Doyong	
Kelkar, Jitendra		Kersten, Hendrik		Kim, Eungnam	
Kelkar, Jitendra Kelkar, Jitendra		Kersten, Hendrik Kersten, Hendrik		Kim, Hee-Yong Kim, Helen	
Kelkar, Jitendra		Kersten, Hendrik		Kim, Hugh I.	
Kelleher, Neil		Kertesz, Vilmos		Kim, Hwa Suk	
Kelleher, Neil	•	Kertesz, Vilmos		Kim, Hwa-Suk	
Kelleher, Neil		Kertesz, Vilmos		Kim, Hwa-Suk	
Kelleher, Neil L		Kertesz, Vilmos		Kim, Hye-Jung	
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Kelleher, Neil L		Keshishian, Hasmik		Kim, Jeong-Han	
Kelleher, Neil L		Keshishian, Hasmik		Kim, Jin Youn	
Kelleher, Neil L		Kessler, Benedikt		Kim, Jin young	
Kelleher, Neil L		Kessler, Ralf W		Kim, Jin Young	
Kelleher, Neil L Kelleher, Neil L		Kettenbach, Arminja		Kim, Jinhee	
Kelleher, Neil L		Kettenbach, Arminja Kettling, Hans		Kim, Jo-II Kim, Jo-II	
Keller, M. Ray		Khadge, Saraswoti		Kim, Joung A	
Keller, M. Ray		Khairallah, George N		Kim, Jung Bok	
Keller, Mark		Khakinejad, Mahdiar		Kim, Junghyun	
Kellermann, Gottfried		Khakinejad, Mahdiar		Kim, JungSoo	ThP 108
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Kelley, David		Khamis, Mona		Kim, Mee Ree	
Kelley, Jeremiah		Khan, Enamul H	•	Kim, Min Chang	
Kellmann, Markus		Khan, Ikhlas		Kim, Min Chang	
Kellmann, Markus		Khan, Ikhlas A		Kim, Min Chang	
Kellmann, Markus Kellmann, Markus		Khan, Imtiaaz Khan, Modh M		Kim, Min Kyung Kim, Min-Sun	
Kellmann, Markus		Khan, Shabana		Kim, Myung Soo	
Kelln, Wayne		Khanal, Neelam		Kim, Myung Soo	
Kelly, Barbara		Kharchenko, Andriy		Kim, Sang Yoon	
Kelly, Lee		Khare, Sanjay		Kim, Sang Yoon	
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Kelstrup, Christian		Khatri, Kshitij		Kim, Sangtae	
Kelstrup, Christian		Khatri, Kshitij		Kim, Sangtae	
Kemball, Christopher		Khatri, Kshitij		Kim, Sangtae	
Kempa, Stefan Kempe, Guenther		Khatri, Kshitij Khera, Smriti		Kim, Seung Yong Kim, Shin Hye	
Kemper, Kristel		Khetsuriani, Natela		Kim, Shin-Woo	
Kemperman, Robin		Khihon Rokhas, Maria		Kim, Sinae	
Kemperman, Robin H.J		Khoo, Kay-Hooi		Kim, Su Hee	
Kempler, Paul		Khoo, Kay-Hooi		Kim, Su Jung	
Kennedy, Adam		Khorrami, Sam		Kim, Sung Hun	
Kennedy, Jacob		Khuroo, Arshad		Kim, Sung Tae	
Kennedy, Joseph H		Kibbey, Richard		Kim, Sunghwan	
Kennedy, Joseph H		Kiebel, Gary R		Kim, Sunghwan	
Kenneth, Narva		Kiefer, Patrick		Kim, Sunju	
Kenney, Jim		Kiehne, Andrea		Kim, Unyong	
Kenny, Jacqueline Kenny, Jacqueline		Kiernan, Urban Kiernan, Urban		Kim, Yangsun Kim, Yeji	
Kent, Michael S		Kieta, Kaitlyn		Kim, Youngsoo	
Kentsis, Alex		Kihara, Makoto		Kim , Yun S	
Kentsis, Alex		Kiiski, liro		Kim , Yun S	
Kentsis, Alex		Kikuchi, Julia		Kim-King, Heasook	
Kentsis, Alex	WP 493	Kil, Yong	ThOB am 10:10	Kimura, Susana	ThP 121
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Kenttamaa, Hilkka		Kil, Yong		Kind, Tobias	
Kenttamaa, Hilkka		Kil, Yong J.		King, Oliver D	
Kenttamaa, Hilkka		Kil, Yong Joo		King, Richard	
Kenttämaa, Hilkka		Kilgour, David		King, Simon	
Kenttämaa, Hilkka		Kilgour, David		King, Travis	
Kenttämaa, Hilkka Kenttämaa, Hilkka		Kilgour, David Kilgour, David		Kingston, H M Skip Kingston, H.M Skip	
Kenttämaa, Hilkka		Kilgour, David		Kingston, H.M. "Skip"	
Kenttämaa, Hilkka I.		Kilgour, David		Kini, R. Manjunatha	
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Kinose, Fumi		Knight, David		Konno, Yukinori	
Kinoshita, Kazumasa		Knip, Mikael		Kononikhin, Alexey	
Kinoshita, Kazumasa		Knochenmuss, Richard		Kononikhin, Alexey	
Kinross, James		Knochenmuss, Richard		Kononikhin, Alexey	
Kinross, James		Knoener, Rachel A		Kononikhin, Alexey	•
Kinross, James		Knoop, Oliver		Kononikhin, Alexey	
Kinsel, Gary R		Knoppova, Barbora		Kononikhin, Alexey	
Kinsel, Gary R		Koal, Therese		Kononikhin, Alexey	
Kinsella, Brian		Koal, Therese		Kooijman, Sietske	
Kinzler, Kenneth W		Koal, Therese		Koolen, Hector	
Kirchberg, Doreen Kirk, Jayne		Koal, ThereseKoal, Therese		Koomen, John Koomen, John	
		Kobarg, Jan Hendrik		Koomen, John	
Kirk, Jayne Kirk, Jayne		Kobarg, Jan Hendrik		Koomen, John	
Kirkland, Joseph		Kobayashi, Hiroshi		Koopmans, Frank	
Kirkland, Thomas		Kobayashi, Manami		Koppenaal, David W	
Kirkland, Thomas		Kobayashi, Toshio		Koppenaal, David W	
Kirkland, Thomas A		Koch, Alexander		Koppenaal, David W	
Kirkpatrick, Donald S		Koch, Charlie		Koppenaal, David W	
Kirkwood, Jay		Kochansky, Christopher		Kopysov, Vladimir	
Kirkwood, Jay		Kochen, Michael		Korac, Petra	
Kirkwood, Jay		Kocher, Olivier		Korfmacher, Walter	
Kirmess, Kris		Kochert, Brent		Kornberg, Roger	
Kirouac, Lisa		Kochhar, Rashi		Kornilayev, Boris	
Kirschner, Marc W		Kochhar, Rashi		Korsgren, Pernilla	
Kirychuk, Shelley		Kochhar, Rashi		Korte, Andrew	
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Kiselar, Janna		Kochhar, Rashi		Kosarac, Ivana	
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Kitagawa, Norton		Kodali, Vamsi K		Kostko, Oleg	
Kitanaka, Atsushi		Kodera, Kei		Kostyukevich, Yury	
Kitano, Eduardo		Kodihalli, Ravindra		Kostyukevich, Yury	
Kitano, Eduardo		Koefeler, Harald		Kostyukevich, Yury	
Kitata, Reta Birhanu		Koefeler, Harald C		Kostyukevich, Yury	
Kitchens, Robert		Koellensperger, Gunda		Kota, Uma	
Kitova, Elena		Koelmel, Jeremy		Kotch, Frank	
Kitova, Elena		Koeplinger, Kenneth		Kotch, Frank W	
Kitova, Elena		Koerting, Gerhard		Kotecki, Carl	
Kitova, Elena N		Koh, Eun-lk		Kotha, Raghavendhar	
		Kohira, Takahiro			
Kitteringham, Neil R Kiyonami, Reiko		Köhler, Markus		Kotha, Raghavendhar Kottapalli, Kameswara Rao.	
Kiyonami, Reiko		Kohno, Toshiyuki		Kottke, Peter	
Kiyonami, Reiko Kiyonami, Reiko		Koike, Masami		Kottke, Peter	
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Klaiber, Iris Klapoetke, Song		Kok, Esther Kok, Esther		Kou, Mingyue Kou, Qiang	
Klar, Richard		KoK, Yee Jiun		Kou, Qiang	
Klassen, John				Koudssi, Georges	
Klassen, John		Kolarich, Daniel Kolarich, Daniel		Koudstaal, Peter	
Klassen, John		Kolbert, Andrew		,	
		•		Kounadis, Diamantis	
Klassen, John S Klaus, Katherine		Kolippakkam, Deepak Koller, Antonius		Kounadis, Diamantis Kowalski, Paul J	
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Klavins, Kristaps		Kolluri, Siva		Koy, Cornelia	
Kleemann, Robert		Kolmogorov, Mikhail		Koza, StephanKoza, Stephan M	
Kleensang, Andre Klein, Christian		Kolosov, Alexander Komaki, Yukako		Kozak, Kathy	
Klein, Christian		Komander, David		Kozak, Marta	
Klein, Christian Klein, Christian		Kommineni, Vally		Kozak, Marta	
(lein, Christian		Koncarevic, Sasa		Kozak, Marta	
Klein, Christian Klein, Dustin		Koncarevic, Sasa Kondo, Akihiko		Kozak, Marta Kozhich, Alexander	
(lein, Joshua		Kondo, Takayuki		Kozhich, Alexander	
Klein, Joshua A		Konermann, Lars		Kozhinov, Anton	
(letter, Doron		Konermann, Lars		Kozhinov, Anton	
(liemt, Stefanie		Konermann, Lars		Kozhinov, Anton N	
(liewer, Steven		Konermann, Lars		Kozhinov, Anton N	
(linder, Klaus		Konermann, Lars		Krackhardt, Angela	
(linman, Judith P		Konermann, Lars		Krajewski, Logan	
(litzke, Clécio		Kong, Andy		Krajewski, Logan C	
(litzke, Clécio		Kong, John		Krajewski, Logan C	
(litzke, Clécio Fernando		Kong, John		Krajewski, Logan C	
Klopotowski, Sebastian		Kong, Qing		Kramer, Adam	
Klopotowski, Sebastian		Kong, Xianglei		Kramer, Gertjan	
(loss, Alla		Konicek, Michael G		Kranz, Thorsten	
Knaak, Jan Matthias		Konieczna, Lucyna		Krasinska, Karolina M	
Knapman, Thomas		Konig, Maximilian		Krasny, Lukas	
Knebel, Axel		Konijnenberg, Albert		Krastins, Bryan	
	ThP 513	Konijnenberg, Albert	TP 472	Kraus, Amelie	ThP 353



Krautkramer, Kimberly A		Kumar, Pankaj
Krawitz, Denise Krebiehl, Guido		Kumar, Santhosh Kune. Christopher
(reig, Amy		Kune, Christopher Kunkel, Jeremy P
reimer, Simion		Kunold, Elena
reimer, Simion		Kuo, Hung-Chih
eimer, Simion		Kuo, Jew-Dong
etowski, Adam		Kuo, Maggie
eger, Monty	TOD am 09:30	Kuo , Ya-Po
iegsmann, Jörg	MOE pm 3:10	Kupcik, Rudolf
egsmann, Jörg	TP 674	Kuppannan, Krishnamoorthy
egsmann, Mark		Kuppannan, Krishnamoorthy
egsmann, Mark		Kurabuchi, Satoshi
shnakumar, Arathi		Kurasawa, Mitsue
shnamurthy, Ramanarayanan		Kurita, Kenji L
shnan, Srinivasan		Kurland, Irwin
smer, Jasmin		Kurogochi, Masaki
sp, Christoph		Kurono, Sadamu
sp, Christophss, Crystina L		Kurpilyansky, Eugene
		Kurtin, Paul Kurtin, Paul
s , Crystina Ltal, Bruce		Kuruc, Matt
wacki, Richard		Kurulugama. Ruwan
zman, David		Kurulugama, Ruwan
ocova. Zuzana		Kurulugama, Ruwan
ogh, Erik		Kurulugama, Ruwan
ogh, Erik T		Kurulugama, Ruwan T
gh, Erik T	TP 093	Kurulugama, Ruwan T
oII, Kai	MP 053	Kurulugama, Ruwan T
on, Stephen		Kusai, Akihiko
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one, Liesl		Kussmann, Martin
oschk, Marcel		Kussmann, Martin
oto, Harold W		Kussmann, Martin
ka, Rudolf		Kuster, Bernhard M
ska, Shane		Kuster, Bernhard
ıber, Sebastian		Kuster, Bernhard
ulisova, Pavla		Kuster, Bernhard
upovic, Mart		Kuster, BernhardT
tchinsky, Andrew N		Kuster, Bernhard
nitsky, Alexander		Kuster, Bernhard\
, Kuo-Lung , Kuo-Lung		Kuzdzal Scott
Kuo-Lung		Kuzdzal, Scott Kuzdzal, Scott
, Kuo-Lung , Sae-kwang		Kuzuhara, Yuki
Wei-Chi		Kvaratskhelia, Mamuka
ba . Pavel		Kvitek, Dan
ıbiniok, Peter		Kweon, Hye Kyong
ıbwabo, Cariton		Kweon, Hye Kyong
icera. Radek		Kweon, Hye KyongT
uderer, Nicole		Kwiatkowski, Marcel
ıdo, Keiko		Kwiecien, Nicholas
do, Yukihiko		Kwiecien, Nicholas
ehn, Andreas		Kwiecien, Nicholas
ehn, Andreas		Kwiecien, Nicholas W
nlmann , Frank	MP 139	Kwiecien, Nicholas W
hn, Eric	ThP 347	Kwiecien, Nicholas W
ıhn, Eric		Kwok, W. Him
ıhn, Jeffrey F		Kwon, Brian K
ihn, Till	ThP 268	Kwon, Oh Kwang
ihne, Andreas		Kyamanwa, Patrick
uijper, Dennis		Kyle, Jennifer ET
ıijper, Ed		Kyle, Jennifer E
ijper, Ed		Kyriacou, Kyriacos
ıkacka, Zdenek		Labbé, Jessy
ukacka, Zdenek		Laborie, StéphanieT
ıkaev, Evgeny		Laboureur, Laurent
ıklenyik, Susan		Lacassie, Eric
ıklenyik, Zsuzsanna		Lacerda Jr, Valdemar
ıklenyik, Zsuzsanna		Lackage Justin T
ukula, Maciej		Lackey, Justin T.
ullolli, Majlinda		Lacoursière, Jean
ultima, Kim		Lacoursière, JeanTh
ulyk, Dmytro		Lacoursière, Jean
umar, Anoopumar, Anoop		Lacoursière, Jean Lacoursière, Jean
umar, Anoopumar, Anoop		Lacoursière, Jean
umar, Krishan		Lacoursière, Jean

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	alli IU.	. 10			ンコに
	TD 5	10			
			Lalli, Priscila	WOG pm 2	::30
	B pm 3:	:10	Lalli, Priscila Lalli, Priscila M	WOG pm 2 MOG am 08	:30
WOI	B pm 3: ThP 1	10 42	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6	::30 ::30 :342
	B pm 3: ThP 1	:10 42 007	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 6	::30 ::30 :342 :362
WOI	B pm 3: ThP 1 MP 0	:10 42 007	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 6	::30 ::30 :342 :362
WOI	B pm 3: ThP 1 MP 0 TP 5	10 42 007 881	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 6	::30 ::30 :342 :362 :584
WOI	B pm 3: ThP 1 MP 0 TP 5 TP 6	10 42 007 881	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 5 MP 5	1:30 6:30 642 662 584
WOI	B pm 3: ThP 1 MP 0 TP 5 TP 6 VP 6	110 42 007 581 581 520	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 ThP 5 MP 5	::30 642 662 584 546
WOI	B pm 3: ThP 1 MP 0 TP 5 TP 6 WP 6 MP 6	110 42 007 681 681 620	Lalli, Priscila	WOG pm 2 MOG am 08MP 6ThP 5MP 5MP 6MP 5MP 6	3:30 3:30 3:42 3:62 5:84 5:46 3:50
wol	B pm 3: ThP 1 MP 0 TP 5 TP 6 WP 6 MP 6	10 42 07 881 881 520 633 85	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 ThP 5 MP 5 MOF pm 2 Special 6	1:30 6:30 6:42 6:58 5:50 6:50 6:44
WOI	B pm 3: ThP 1 MP 0 TP 5 TP 6 MP 6 MP 1 MP 4	110 42 907 881 881 620 633 85	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 ThP 5 MP 5 MOF pm 2 Special 6	1:30 6:30 6:42 6:58 5:50 6:50 6:44
WOI	B pm 3: ThP 1 MP 0 TP 5 TP 6 MP 6 MP 1 MP 4	110 42 907 881 881 620 633 85	Lalli, Priscila	WOG pm 2 MOG am 08MP 6ThP 9MOF pm 2Special 6ThP 4	::30 642 662 662 546 546 1:50 693 441
ka	B pm 3: ThP 1 MP 0 TP 5 TP 6 MP 6 MP 1 ThP 4 am 10:	10 42 007 881 881 620 633 85 73	Lalli, Priscila	WOG pm 2 MOG am 08MP 6ThP 5MP 5MP 6MP 6MP 7MP 8MP 6MP 7MP 8MP 6	1:30 642 662 546 546 546 693 693 631
kaTOF	B pm 3: ThP 1 MP 0 TP 5 TP 6 MP 6 MP 1 ThP 4 am 10: TP 5	110 42 107 681 681 620 633 85 73 110	Lalli, Priscila	WOG pm 2 MOG am 08MP 6MP 6MP 5MOF pm 2Special 6ThP 2Special 6ThP 4MP 6MP 6MP 6MP 6	1:30 642 662 662 546 546 1:50 693 1441 1:10
kaTOF	B pm 3:ThP 1MP 0TP 5TP 6WP 6MP 6MP 1ThP 4 am 10:TP 5	110 42 107 881 881 120 133 85 73 110 164	Lalli, Priscila	WOG pm 2 MOG am 08MP 6MP 6MP 5MP 5MP 5MP 5MP 6MP 6MP 6MP 6MP 6MP 6MP 6MP 6MP 6	1:30 1:30 1:30 1:30 1:30 1:50 1:50 1:50 1:50 1:10 1:34 1:34
ka	B pm 3: ThP 1 MP 0 TP 5 TP 6 MP 6 MP 1 ThP 4 am 10: TP 5 MP 5 A pm 4:	110 42 107 881 881 1220 133 885 173 110 164 173	Lalli, Priscila	WOG pm 2 MOG am 08	1:30 1:30 1:30 1:30 1:30 1:50 1:50 1:10 1:10 1:45 1:45 1:45 1:45 1:45 1:45 1:45 1:45
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ka	B pm 3: ThP 1 MP 0 TP 5 TP 6 MP 6 MP 1 ThP 4 am 10: TP 5 MP 5 A pm 4:	110 42 107 181 1820 1333 185 173 110 164 173 110 118 130 118 130	Lalli, Priscila	WOG pm 2 MOG am 08	1:30 1:30 1:30 1:30 1:30 1:50 1:50 1:50 1:50 1:34 1:34 1:45 1:46 1:46 1:46 1:46 1:46 1:46 1:46 1:46
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	B pm 3:ThP 1MP 0TP 5TP 6MP 6MP 1ThP 4 am 10:TP 5MP 5 A pm 4:TP 2:TP 2:TP 2:TP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08	1:30 3:30 6:36 6:58 6:58 6:56 6:56 6:33 6:31 6:31 6:31 6:31 6:31 6:31 6:3
TOF	B pm 3:ThP 1MP 0TP 5TP 6MP 6MP 6MP 1ThP 4 am 10:TP 5MP 5 A pm 4:TP 2 B pm 2:TP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08	1:30 6:30 6:42 6:58 6:50 6:50 6:50 6:34 6:10 6:45 6:45 6:45 6:45 6:45 6:45 6:45 6:45
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	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 1ThP 4MP 5 A pm 4:TP 2MP 5 A pm 4:TP 2MP 6TP 2MP 6TP 2TP 2TP 2TP 3TP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08	1:30 6:30 6:42 6:58 6:58 6:58 6:50 6:31 6:31 6:41 6:41 6:41 6:41 6:41 6:41 6:41 6:4
TOF	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 1ThP 4MP 5 A pm 4:TP 2MP 5 A pm 4:TP 2MP 6TP 2MP 6TP 2TP 2TP 2TP 3TP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08	1:30 6:30 6:42 6:58 6:58 6:58 6:50 6:31 6:31 6:41 6:41 6:41 6:41 6:41 6:41 6:41 6:4
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	B pm 3:ThP 1MP 0TP 5TP 6MP 1TP 4TP 5TP 5TP 5TP 5TP 5TP 2 B pm 2:TP 2 B pm 2:TP 3TP 1TP 1TP 3TP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 6 MP 9 MOF pm 2 MOF pm 2 MOF pm 10 MOF pm 2 MOF pm 2 MP 6 MOH am 10 MP 6 MP 6 MP 7	1:30 1:30
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TOE TOG TOG TOG	B pm 3:ThP 1MP 0ThP 5ThP 5MP 6MP 6MP 6MP 5MP 5MP 5 A pm 4:TP 2MP 5 A pm 4:TP 2MP 6TP 2MP 6TP 1TP 1TP 3MP 6 am 09:TP 2 am 09:TP 2MP 6	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 0 MP 0 MP 1 MOF pm 2 Special 0 MP 0 MOF pm 2 MP 0 MOF pm 2 MP 0 MP 1	::30 ::30 ::30 ::30 ::42 ::50 ::50 ::50 ::33 ::40 ::40 ::50 ::50 ::40 ::50 ::50 ::50
	B pm 3:ThP 1MP 0ThP 5ThP 5MP 6MP 6MP 6MP 5MP 5MP 5MP 5MP 5MP 6ThP 2TP 2 B pm 2:TP 1TP 1TP 6MP 6TP 3MP 6TP 3MP 6TP 1	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 0 MP 0 MP 1 MOF pm 2 Special 0 MP 0 MOF pm 2 MP 1 MOF pm 2 MP 1 MP 1 MP 2 MP 2 MP 2 MP 2 MP 3 MP 3 MP 4 MP 4 MP 4 MP 4 MP 6 MP 6 MP 7 MP 6 MP 7	::30 6:30 6:30 6:42 5:50 6:50 6:50 6:50 6:33 6:33 6:33 6:33 6:33 6:33 6:33 6:3
	B pm 3:ThP 1MP 0TP 5MP 6MP 6MP 1ThP 4 am 10:TP 2 B pm 2:MP 5 A pm 4:TP 2 B pm 2:MP 6MP 1TP 2 B pm 2:MP 6TP 2 B pm 2:TP 2 B pm 2:TP 6 I m 4: I m 4: I m 7 m 6 I m 7 m 7 m 7 I m 7 I m	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 6 MP 9 MOF pm 2 MOF pm 2 MOF pm 10 MP 6 MOH am 10 MP 6 MP 6 MP 7	::30 6:30 6:30 6:42 5:50 6:50 6:50 6:50 6:50 6:50 6:50 6:50
	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 1ThP 4ThP 4ThP 5MP 5 A pm 4:TP 5MP 6TP 2 B pm 2:MP 6TP 2 am 09:TP 2 am 09:MP 6 am 09: E pm 2:MP 5	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 6 MP 7 MOF pm 2 MOF pm 2 MOF pm 10 MP 6 MOH am 10 MP 6 MOH am 10 MP 7	::30 642 664 664 665 669 669 669 669 669 669 669 669 669
	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 5MP 5 A pm 4:TP 5 A pm 4:TP 2 B pm 2:MP 6TP 1TP 2 am 09:TP 2 am 09:TP 5 am 09:TP 2MP 6TP 5MP 1TP 2MP 3TP 2MP 3TP 2MP 6TP 2MP 6TP 2MP 6TP 2MP 6TP 2MP 6TP 5ThP 1WP 1	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 0 MP 0 MP 1 MOF pm 2 Special 0 MP 0 MP 1 MP 0 MP 1 MP 0 MP 1	::30 6:30 6:42 5:50 6:50 6:50 6:50 6:50 6:50 6:50 6:50
	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 5MP 5 A pm 4:TP 5MP 5 A pm 4:TP 2MP 6TP 2 am 09:TP 2 am 09:TP 2 am 09:TP 2MP 6TP 2MP 6TP 2MP 6TP 2MP 6TP 2MP 6TP 2MP 3MP 6TP 2MP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 0 MP 0 MP 0 MOF pm 2 Special 0 MP 0 MOF pm 2 MP 0 MOH am 10 ThP 2 MP 0 MP 0 MP 0 MP 0 ThP 0 MP 0 MP 0 ThP 0 ThP 0 MP 0 THP 0	::30 ::30 ::30 ::30 ::30 ::30 ::30 ::30
	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 10ThP 4 am 10:ThP 5MP 5 A pm 4:TP 2 B pm 2:MP 6TP 1TP 1TP 1TP 1TP 1TP 1TP 2 am 09: E pm 2:TP 2 am 09: E pm 2:TP 3 am 09: E pm 2:TP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 0 MP 0 MP 1 MOF pm 2 Special 0 MP 0 MOF pm 2 MP 1 MP 1 MP 2 MP 2 MP 2 MP 2 MP 3 MP 6 MP 6 MP 6 MP 7	::30 ::30 ::30 ::30 ::42 ::50 ::50 ::50 ::33 ::50 ::33 ::40 ::50 ::33 ::40 ::50 ::42 ::50 ::50 ::50 ::50 ::50 ::50 ::50 ::5
	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 10ThP 4 am 10:ThP 5MP 5 A pm 4:TP 2 B pm 2:MP 6TP 1TP 1TP 1TP 1TP 1TP 1TP 2 am 09: E pm 2:TP 2 am 09: E pm 2:TP 3 am 09: E pm 2:TP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 0 MP 0 MP 1 MOF pm 2 Special 0 MP 0 MOF pm 2 MP 1 MP 1 MP 2 MP 2 MP 2 MP 2 MP 3 MP 6 MP 6 MP 6 MP 7	::30 ::30 ::30 ::30 ::42 ::50 ::50 ::30 ::50 ::30 ::40 ::50 ::30 ::40 ::50 ::40 ::50 ::50 ::50 ::50 ::5
	B pm 3:ThP 1MP 0ThP 5ThP 5MP 6MP 1ThP 4ThP 4ThP 5MP 5MP 5MP 5MP 5MP 5MP 5MP 5MP 6ThP 3ThP 1ThP 1ThP 1ThP 1ThP 2MP 6 am 09: E pm 2:ThP 5ThP 1ThP 1MP 3MP 6 am 09: E pm 2:ThP 5ThP 1MP 1ThP 1MP 2MP 3MP 3MP 3MP 3MP 3MP 3MP 3MP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 9 MP 9 MOF pm 2 MP 6 MP 1 MP 6 MOF pm 2 MP 6 MOH am 10 MP 6 MP 7	::30 6:30 6:42 5:58 5:46 6::50 6:33 6:33 6:33 6:33 6:33 6:33 6:33 6:3
	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 5MP 5MP 5 A pm 4:ThP 2:MP 6TP 2 B pm 2:MP 6TP 2 B pm 2:MP 6TP 2 B pm 2:MP 6TP 1TP 1TP 1TP 2MP 3MP 6 am 09:TP 2MP 3MP 1ThP 1ThP 1ThP 1ThP 2MP 3ThP 1ThP 1ThP 2MP 3ThP 1ThP 2	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 6 MP 6 MP 7 MOF pm 2 MOF pm 2 MOF pm 10 MP 6 MOH am 10 MP 6 MP 6 MP 7	::30 6:30 6:42 5:46 5:46 6:15 6:31 6:31 6:31 6:31 6:31 6:31 6:31 6:31
	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 7ThP 4ThP 4ThP 5 A pm 4:TP 5 A pm 4:TP 2 B pm 2:TP 3MP 6TP 1TP 2 am 09:TP 2 am 09:TP 5MP 3MP 6 am 09:TP 2MP 3THP 5ThP 5ThP 5ThP 5ThP 1ThP 2ThP 3ThP 3ThP 3ThP 3ThP 3ThP 3ThP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08 MP 0 MP 0 MP 0 MP 1 MOF pm 2 Special 0 MP 0 MP 1	::30 6:30 6:42 5:58 6:59 6:59 6:59 6:59 6:59 6:59 6:59 6:59
	B pm 3:ThP 1MP 0ThP 5MP 6MP 6MP 6MP 5MP 5 A pm 4:ThP 5MP 5 A pm 4:TP 2MP 6MP 1ThP 4 am 109:TP 2 am 09:TP 2 am 09:ThP 1MP 6ThP 1MP 6ThP 1MP 1ThP 2MP 3MP 6ThP 2MP 3MP 1ThP 2ThP 2ThP 2ThP 3ThP 1ThP 3ThP 3	110	Lalli, Priscila	WOG pm 2 MOG am 08	:::306422555660888537777777777777777777777777777777777



	ThP 649
	WP 457
	IThP 292
	IThP 588 IWP 267
	ThP 287
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Langridge, Jim	TP 202
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Lanza, lan	TP 117
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Lanzini, Justine	TP 249 ThP 458
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Laprade, Bruce	TP 077
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Lareau, Nichole M.	ThP 643
	WP 450 WP 181
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Larkin, Selena	WP 463
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	WOH pill 3.30
	arlos WP 571
	Gérald WP 649
	ThOE pm 4:10
Larsen, Brett	TOB pm 3:10
Larsen, Brett Larsen, Brett	
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett	TOB pm 3:10 TP 147 WOB am 09:50 WP 311
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R	TOB pm 3:10 TP 147 WOB am 09:50 WP 311 ThP 393
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R Larsen, Martin R	TOB pm 3:10 TP 147 WOB am 09:50
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C	TOB pm 3:10 TP 147 WOB am 09:50
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R Larsen, Martin R Larsen, Sara C Larsen, Sara C Larson, Samuel	TOB pm 3:10TP 147WOB am 09:50WP 311Th 933TP 437WP 408WP 408WP 408WP 408
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R Larsen, Martin R Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola	TOB pm 3:10TP 147WOB am 09:50WP 311Th 393TP 437WP 408WP 408WP 408WP 408WP 408TP 638
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C. Larsen, Sara C. Larson, Samuel Larson, Ola. Larson, Ola. Larue, Anthony	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C. Larsen, Sara C. Larson, Samuel Larson, Ola Larue, Anthony Lashin, Vitaly	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larue, Anthony Lashin, Vitaly Laskin, Julia	TOB pm 3:10 TP 147 WOB am 09:50
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larue, Anthony Lashin, Vitaly Laskin, Julia Laskin, Julia	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larue, Anthony Laskin, Vitaly Laskin, Julia Laskin, Julia Lassalle, Yannick Lassen, Pernille	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C. Larsen, Sara C. Larson, Samuel Larson, Ola Larue, Anthony Laskin, Julia Laskin, Julia Laskin, Junia	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larson, Ola Larsen, Vitaly Laskin, Julia Laskin, Julia Laskin, Julia Lassalle, Yannick Lassen, Pernille Lassman, Michael. Laszlo, Ken	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larson, Ola Larson, Ola Laskin, Julia Laskin, Julia Laskin, Julia Laskin, Julia Lassalle, Yannick Lassen, Pernille Lassman, Michael Laszlo, Ken	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larsen, Anthony Lashin, Vitaly Laskin, Julia Laskin, Julia Lassen, Pernille Lassen, Pernille Lassman, Michael Laszlo, Ken Laszlo, Ken Lateef, Syed	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Samuel Larson, Vitaly Laskin, Julia Laskin, Julia Laskin, Julia Laskin, Julia Laskin, Julia Lassalle, Yannick Lassen, Pernille Lassman, Michael Laszlo, Ken Laszlo, Ken Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larson, Vitaly Laskin, Julia Laskin,	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larson, Ola Larsen, Vitaly Laskin, Julia Laski	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larue, Anthony Lashin, Vitaly Laskin, Julia Laskin, Julia Lassen, Pernille Lassan, Michael Laszlo, Ken Laszlo, Ken Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed Lateerza, Omar Latour, Sylvain Lau, Janet	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Samuel Larson, Vitaly Laskin, Julia	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C. Larsen, Sara C. Larson, Samuel Larson, Samuel Larson, Vitaly Laskin, Julia Lasel, Yannick Laszlo, Ken Laszlo, Ken Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed Lateer, Syed Lateer, Syed Lateer, Syed Lateur, Omar Latour, Sylvain Lau, Janet Lau, Thye Ngak Ma Laube, Audra	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Ola Larson, Ola Larson, Vitaly Laskin, Julia Laski	TOB pm 3:10
Larsen, Brett	TOB pm 3:10
Larsen, Brett	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larsen, Sara C Larson, Samuel Larsen, Ola Larue, Anthony Laskin, Julia	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C. Larsen, Sara C. Larson, Samuel Larson, Ola Larue, Anthony Laskin, Julia Lassalle, Yannick Lassen, Pernille Laszlo, Ken Laszlo, Ken Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed Lateer, Syed Lateura, Omar Latour, Sylvain Lau, Janet Lau, Janet Lau, Janet Lauber, Matthew Lauber, Matthew Lauber, Matthew Lauber, Matthew Laude, Nicholas Laudicina, Don Laue, Alexander	TOB pm 3:10
Larsen, Brett	TOB pm 3:10
Larsen, Brett	TOB pm 3:10
Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Brett Larsen, Martin R. Larsen, Martin R. Larsen, Sara C Larsen, Sara C Larsen, Sara C Larson, Samuel Larson, Samuel Larsen, Sara C Laskin, Julia Laskin, Julia Laskin, Julia Laskin, Julia Lassalle, Yannick. Lassen, Pernille Lassen, Mernille Lassen, Mernille Lassen, Mernille Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed Lateef, Syed Lateer, Syed Lateer, Syed Lateer, Syed Laterza, Omar Latour, Sylvain Lau, Thye Ngak Ma Lauber, Matthew Lauber, Matthew Lauber, Matthew Lauber, Matthew Lauber, Matthew Lauber, Matthew Laude, Nicholas Laue, Alexander Lauer, Alexander	TOB pm 3:10

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Laukens, Kris	MP 433
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Lauzon, Nidia	
Lauzun, James Lavallée, Richard	
Lavallée, Richard	
Lavallée-Adam, Mathieu	WOE am 09:30
Lavanant, Helene	MP 130
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Lavarello, Chiara	
Lavery, Daniel	
Lavezzi, Anna Maria Lavoie, H	
Lavoie, Jessie R.	ThP 575
Lawler, Rose	
Lawlor, Michael	
Lawniczak, James	
Lawrence, Richard	
Lawrence, Robert	
Lawrenz, Morgan Lawton, Zachary	
Lay Jr, Jackson O	
Lay Jr, Jackson O	
Lay, Jr., Jackson O	
Layfield, Rob	
Lazar, Iulia M	
Lazar, Iuliana Lazaris, Anthoula	
Lazarus, Levi	
Le, Nicole	
Le Caer, Jean Pierre	
Le Caer, Jean-Pierre	
le Maitre, Christine	
Le Mignon, Maxime	
Leach III, Franklin ELeahy, Kevin	
Leao, Ihid C	
Leaptrot, Katrina L	
Leaptrot, Katrina L	
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Lebedev, Albert T	ThP 365 WP 005
Lebedev, Albert TLebedev, Albert T	ThP 365 WP 005 WP 009
Lebedev, Albert T Lebedev, Albert T Lebesgue, Nicolas	ThP 365 WP 005 WP 009 TOF am 08:50
Lebedev, Albert T Lebedev, Albert T Lebesgue, Nicolas Leblanc, André	ThP 365 WP 005 WP 009 TOF am 08:50 ThP 537
Lebedev, Albert T Lebedev, Albert T Lebesgue, Nicolas Leblanc, André LeBlanc, André	ThP 365 WP 005 WP 009 TOF am 08:50 ThP 537
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Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André. LeBlanc, André Leblanc, J.C. Yves Leblanc, J.C. Yves Leblanc, J.C. Yves	ThP 365 WP 005 WP 009 TOF am 08:50 ThP 537 TP 577 MP 117 MP 119 MP 123
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André. LeBlanc, André. Leblanc, J.C. Yves Leblanc, J.C. Yves Leblanc, J.C. Yves Leblanc, J.C. Yves	ThP 365WP 005WP 009TOF am 08:50ThP 537TP 577MP 117MP 119MP 123MP 285
Leblanc, André. LeBlanc, André Leblanc, J.C. Yves	ThP 365WP 005WP 009TOF am 08:50ThP 537TP 577MP 117MP 119MP 123MP 285MP 596
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves	ThP 365WP 005WP 005TOF am 08:50TP 577MP 117MP 119MP 1285MP 285MP 596ThOH pm 3:30
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves	ThP 365WP 005WP 005TOF am 08:50TP 577MP 117MP 119MP 123MP 283MP 596MP 330WP 310
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André. LeBlanc, André Leblanc, J.C. Yves	ThP 365WP 005WP 009TOF am 08:50ThP 537MP 117MP 119MP 123MP 285MP 596ThOH pm 3:30WP 310WP 555WP 677
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Leblanc, J.C. Albert S. Lebrilla, Carlito	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito	ThP 365WP 005WP 009TOF am 08:50TP 577MP 117MP 119MP 285MP 285MP 596ThOH pm 3:30WP 310WP 555WP 677ThOC pm 2:50TP 443TP 425
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito	ThP 365WP 005WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Leblanc, J.C. Albertilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito	ThP 365WP 005WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Leblanc, J.C. Albert S. Lebrilla, Carlito Leclech, Céline Leccomte, Philippe	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Leblanc, J.C. Albert S. Leblanc, J.C. Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecomte, Philippe Lecours, Marc-André	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecours, Marc-André Leduc, Richard.	ThP 365WP 005WP 009TOF am 08:50TP 577MP 117MP 119MP 285
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecomte, Philippe Lecours, Marc-André Leduc, Richard. Leduc, Richard.	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecours, Marc-André Leduc, Richard.	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Leblanc, J.C. Tyes Leblanc, J.C. Yves Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecomte, Céline Lecours, Marc-André Leduc, Richard. Leduc, Richard. Leduc, Richard. Leduc, A-Young	ThP 365
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecomte, Phillippe Lecours, Marc-André Leduc, Richard Leduc, Richard Lee, Amanda Lee, Amanda Lee, Caroline Lee, Christina	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecours, Marc-André Leduc, Richard. Leduc, Richard. Lee, Amanda Lee, Aroung Lee, Caroline Lee, Chipstina Lee, Chuping	ThP 365WP 005WP 009
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Leblanc, J.C. Ares Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecomte, Philippe Lecours, Marc-André Leduc, Richard. Leduc, Richard. Lee, Aroung. Lee, Caroline Lee, Christina Lee, Chuping. Lee, Dongkun	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecomte, Philippe Lecours, Marc-André Leduc, Richard. Leduc, Richard. Lee, A-Young Lee, Caroline Lee, Cristina Lee, Chuping Lee, Dongkun Lee, Doo-Hae	ThP 365
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Leclech, Céline Leccomte, Philippe Lecours, Marc-André Leduc, Richard Leduc, Richard Leduc, Richard Leduc, Richard Lee, Amanda Lee, Aryoung Lee, Caroline Lee, Chuping Lee, Chuping Lee, Dongkun Lee, Don-Hae Lee, Eun Joo	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecomte, Philippe Lecours, Marc-André Leduc, Richard Leduc, Richard Lee, A-Young Lee, Caroline Lee, Caroline Lee, Chuping Lee, Dongkun Lee, Dongkun Lee, Eun Joo Lee, Eunice	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Leblinc, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecours, Marc-André Leduc, Richard Lecours, Marc-André Leduc, Richard Lee, Amanda Lee, Aroung Lee, Caroline Lee, Chuping Lee, Chuping Lee, Doo-Hae Lee, Eun Joo Lee, Eunice Lee, Hans	ThP 365WP 005
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, André Leblanc, J.C. Yves Lebrilla, Carlito Lecours, Marc-André Lecours, Marc-André Leduc, Richard Lee, Aryoung Lee, Caroline Lee, Caroline Lee, Christina Lee, Chuping Lee, Dongkun Lee, Doo-Hae Lee, Eun Joo Lee, Eunice Lee, Gwangbin Lee, Hans Lee, Howard	ThP 365
Lebedev, Albert T. Lebedev, Albert T. Lebesgue, Nicolas Leblanc, André Leblanc, J.C. Yves Leblinc, Carlito Lebrilla, Carlito Lebrilla, Carlito Lebrilla, Carlito Lecours, Marc-André Leduc, Richard Lecours, Marc-André Leduc, Richard Lee, Amanda Lee, Aroung Lee, Caroline Lee, Chuping Lee, Chuping Lee, Doo-Hae Lee, Eun Joo Lee, Eunice Lee, Hans	ThP 365

LCC,	myuri Nyourig	IP 440
Lee.	Hyun Kyoung Hyunmin	TOE am 10:10
ُمم ا	Jinwook	ThP 303
LCC,	Ji-Won	MD 650
Lee,	Jiyoung	ThP 549
Lee.	Jong Hwa	WP 050
ُ مِمِ ا	Jong Wha	MP 659
Lee,	Joon-Yong	1112 400
Lee,	Jueun	TP 174
Lee.	Julie	ThOG am 10:10
مم ا	lun Xiang	WP 074
LCC,	Jun Xiang Jungeun	MOD am 00:10
Lee,	Jungeun	WOD am 09. IC
Lee,	Jung-Hak	WP 050
Lee.	Junyu	MP 26
ُمم ا	Juyeon	TP 446
Lee,	Kelly	IVIP 193
Lee,	Kimberly A	MP 576
Lee.	Maw-Rong	MP 057
Lee	Maw-Rong	WP 029
	Peter	
Lee,	Felei	
Lee,	Pin-Duo	WP 488
Lee,	Richard	.MOD am 09:30
66	Richard	MP 453
,	Rob	ThD 16
Lee,	Robert	ThP 172
Lee,	Sanghee	MP 380
Lee	Sangkyu	TP 636
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LUU,	October 11 con	
	Seong Hoon	
Lee.	Si Ni	WP 014
	Tae Geol	
_00,	Wen-Yen	TD 22
Lee,	vven-ren	
Lee,	Wonhwa	TP 636
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	Young Jin	
Lee,	Young Jin	VVF U4
Lee,	Young Jin	WP 534
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Lee.	Young-Jin	ThP 686
,		
	Vuon Tooh	TD 00/
	Yuan Tseh	TP 08′
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Lee, Lee,	Yuan TsehYuan Tseh	TP 08 ² TP 098 WP 419
Lee, Lee,	Yuan TsehYuan Tseh	TP 08 ² TP 098 WP 419
Lee, Lee, Lee,	Yuan Tseh Yuan Tseh Zachary	TP 086 TP 098 WP 419 . MOF am 10:10
Lee, Lee, Lee, Lee,	Yuan Tseh Yuan Tseh Zachary Jun Xiang	TP 08' TP 098 WP 419 . MOF am 10:10 MP 316
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Lee, Lee, Lee, Lee, Leen Lees	Yuan Tseh	TP 08'TP 098'WP 419 .MOF am 10:10MP 316TOF am 08:30
Lee, Lee, Lee, Lee, Leen Lees	Yuan Tseh Yuan Tseh Zachary Jun Xiang	TP 08'TP 098'WP 419 .MOF am 10:10MP 316TOF am 08:30
Lee, Lee, Lee, Leen Lees Leff,	Yuan Tseh	TP 08'TP 098WP 419 . MOF am 10:10MP 316TOF am 08:30TP 378
Lee, Lee, Lee, Lee, Leen Lees Leff,	Yuan Tseh	
Lee, Lee, Lee, Leen Lees Leff, Lefs,	Yuan Tseh	TP 08' TP 09' TP 09' WP 41' MOF am 10:1(MP 316 TOF am 08:3(TP 37' MP 036 WP 12(MP 496
Lee, Lee, Lee, Leen Lees Leff, Lefs, Lege	Yuan Tseh	TP 08' TP 09' WP 41' MOF am 10:1(MP 316 TOF am 08:3(TP 37' MP 036 WP 120 MP 496
Lee, Lee, Lee, Leen Lees Leff, Lefs, Lege	Yuan Tseh	TP 08' TP 09' WP 41' MOF am 10:1(MP 316 TOF am 08:3(TP 37' MP 036 WP 120 MP 496
Lee, Lee, Lee, Leen Lees Leff, Lefsı Lege Lehn	Yuan Tseh	
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Lee, Lee, Lee, Leen Lees Leff, Lefsı Lege Lehn Lehn	Yuan Tseh	
Lee, Lee, Lee, Lees Leeff, Leffs, Lege Lehn Lehn Lehn	Yuan Tseh	TP 08' TP 09' TP 09' MOF am 10:10 MOF am 08:30 TP 37' MP 036 WP 120 MP 490 MP 290 MOE pm 2:56 MP 47' MP 455 WOH am 10:10
Lee, Lee, Lee, Lees Leff, Leff, Lefsi Lehn Lehn Lehn	Yuan Tseh Yuan Tseh Yuan Tseh Zachary Jun Xiang Istra, Sieger -Miller, Susan Daniel R Richard rud, Mark G Ir, Roger Inann, Sylvain I	
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Lee, Lee, Lee, Leen Lees Leff, Lefsi Lehn Lehn Lehn Lehti Lei,)	Yuan Tseh	
Lee, Lee, Lee, Leen Lees Leff, Lefsi Lehn Lehn Leho Lehti Lei, 2 Lei, 2 Lei, 2	Yuan Tseh	TP 08' TP 09' MP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 038 WP 120 MP 499 MOE pm 2:56 MP 47' MP 552 WOH am 10:10 TP 600 Th 947' MP 334 MP 334
Lee, Lee, Lee, Leen Lees Leff, Lefsi Lehn Lehn Lehti Lei, 2 Lei, 2 Lei, 2 Lei, 2	Yuan Tseh	TP 08' TP 09' MP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 036 WP 120 MP 499 MOE pm 2:50 MP 47' MP 552 WOH am 10:10 TP 107 TP 600 ThP 476 MP 334 ThP 228
Lee, Lee, Lee, Leen Lees Leff, Lefsi Lehn Lehn Lehti Lei, 2 Lei, 2 Lei, 2 Lei, 2	Yuan Tseh	TP 08' TP 09' MP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 036 WP 120 MP 499 MOE pm 2:50 MP 47' MP 552 WOH am 10:10 TP 107 TP 600 ThP 476 MP 334 ThP 228
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Lee, Lee, Lee, Leen Lees Leff, Leffsi Lehn Lehn Lehti Lei, 2 Lei, 2 Lei, 2 Leib, Leib, Leib,	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary Jun Xiang stra, Sieger -Miller, Susan Daniel R Richard rud, Mark G rr, Roger nann, Sylvain nann, Sylvain nann, Sylvain nann, Sylvain tay, Steven tö, Janne Xiaoguang Zhentian Zhentian Zhentian Ryan	
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Lee, Lee, Lee, Leen, Leens Leff, Lefsi Lehn Lehn Lehti Lei, Ž Lei, Ž Leie, Leidi Leib, Leidi Leidi	Yuan Tseh	TP 08' TP 09' TP 09' MOF am 10:10 MOF am 08:30 TP 37' MP 038 WP 120 MP 499 MOE pm 2:50 MP 47' MP 552 WOH am 10:10 TP 107
Lee, Lee, Lee, Lees, Leens Leff, Leffsi Lehn Lehti Lei, 2 Lei, 2 Lei, 2 Leie, beib, Leib, Leib, Leib, Leidu Leidu Leidu Leidu	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary. Jun Xiang Istra, Sieger -Miller, Susan. Daniel R Richard. Irrud, Mark G. Irr, Roger. Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Itay, Steven Iö, Janne Kiaoguang Zhentian Zhentian Zhentian Ryan Ryan Iner, Samantha Iner, Alexander	TP 08' TP 09' TP 09' MVP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 49' MP 290 MOE pm 2:50 MP 47' MP 55' WOH am 10:10 TP 10' TP 10' TP 10' TP 10' TP 55'
Lee, Lee, Lee, Leen, Leeff, Leffs, Leffs, Lehn Lehn Lehn Lei, Ž Lei, Ž Leib, Leid, Leid, Leid, Leid, Leidh	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary Jun Xiang sstra, Sieger -Miller, Susan Daniel R Richard rud, Mark G rr, Roger nann, Sylvain nann, Sy	
Lee, Lee, Lee, Leen, Leeff, Leffs, Leffs, Lehn Lehn Lehn Lei, Ž Lei, Ž Leib, Leid, Leid, Leid, Leid, Leidh	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary Jun Xiang sstra, Sieger -Miller, Susan Daniel R Richard rud, Mark G rr, Roger nann, Sylvain nann, Sy	
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Lee, Lee, Lee, Leen Leess Leff, Lefs, Lefs, Lehn Lehn Lehn Lei, Zeib, Leib, Leid, Leid, Leidl Leidl Leidl Leidl Leidl Leidl Leize Leize Leize	Yuan Tseh	TP 08' TP 09' TP 09' MVP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 036 MP 120 MP 296 MP 296 MP 47' MP 552 WOH am 10:10 TP 100 TP 100 TP 100 TP 100 TP 100 TP 256 ThP 476 MP 334 ThP 582 ThP 582 ThP 583 ThP 286 ThP 576 ThP 476 MP 426 ThOF pm 3:11 ThP 462 WP 033
Lee, Lee, Lee, Leen, Leess Leff, Lefsi Lehn Lehn Lehn Lei, Ž Lei, Ž Lei, Ž Leidi Leidi Leidi Leidi Leize Leize Leixe	Yuan Tseh	TP 08' TP 08' TP 09' MVP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 036 MP 120 MP 290 MOE pm 2:56 MP 47' MP 552 WOH am 10:10 TP 107 TP 107 TP 180 TP 180 TP 552 ThP 276 WP 426 ThOF pm 3:11 ThP 48: ThP 48: ThP 48: ThP 48: ThP 56: WP 426 ThOF pm 3:11 ThP 48: TP 046:
Lee, Lee, Lee, Leen, Leess Leff, Lefsi Lehn Lehn Lehn Lei, Ž Lei, Ž Lei, Ž Leidi Leidi Leidi Leidi Leize Leize Leixe	Yuan Tseh	TP 08' TP 08' TP 09' MVP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 036 MP 120 MP 290 MOE pm 2:56 MP 47' MP 552 WOH am 10:10 TP 107 TP 107 TP 180 TP 180 TP 552 ThP 276 WP 426 ThOF pm 3:11 ThP 48: ThP 48: ThP 48: ThP 48: ThP 56: WP 426 ThOF pm 3:11 ThP 48: TP 046:
Lee, Lee, Lee, Leen Leeff, Leff, Leffsi Lehn Lehn Lehn Lehn Lehi, Leid,	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary. Jun Xiang Istra, Sieger -Miller, Susan. Daniel R Richard. Irrud, Mark G. Irr, Roger. Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Itay, Steven Ita, Janne Kiaoguang Zhentian Zhentian Zhentian Zhentian Ryan Irr, Samantha Irr, Samantha Iner, Samantha Iner, Alexander Irred Irr	TP 08' TP 08' TP 09' MVP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 49' MP 290 MOE pm 2:50 MP 47' MP 55' WOH am 10:10 TP 10' TP 10' TP 180 Th 27' WP 426 ThOF pm 3:10 Th 48' Th 62' WP 046 TP 066'
Lee, Lee, Lee, Lee, Leen Lees Leff, Leffs Lefs Legh Leh Leh Leh Leh Lei	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary. Jun Xiang Istra, Sieger -Miller, Susan. Daniel R Richard. Irrud, Mark G. Irr, Roger. Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Itay, Steven. Iö, Janne Kiaoguang Zhentian Zhentian Zhentian Ryan Ryan Ryan Iner, Samantha Iner, Samantha Iner, Alexander Iner, Iner, Alexander Iner, Alexander Iner, Alexander Iner, I	TP 08' TP 08' TP 09' MV 41' MOF am 10:1(
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Lee, Lee, Lee, Lee, Leen Lees Leff, Leffsi Lehn Lehn Lehn Lehn Lehi Lei, Lei, Leid Leit Leid Leit Leic Leic Leic Leic Leice Le	Yuan Tseh	
Lee, Lee, Lee, Lee, Leen Lees Leff, Leffs Leffs Lehn Lehn Lehn Lehi Lei, Lei, Lei, Leic Leic Leic Leic Leic Leic Leic Leic	Yuan Tseh	TP 08' TP 08' TP 09' MVP 41' MOF am 10:10 MP 316 TOF am 08:30 WP 120 MP 290 MOE pm 2:56 MP 47' MP 552 WOH am 10:10 TP 107 TP 107 TP 107 TP 108 TP 256 ThP 476 MP 334 ThP 582 ThP 583 ThP 583 ThP 276 WP 426 ThOF pm 3:11 ThP 480 ThP 680 ThP 480 ThP 680 ThP 080 TOF am 08:56 WOC am 08:56
Lee, Lee, Lee, Lee, Leen Lees Leff, Lefsi Legh Lehn Lehn Lehn Lehi Leid Leid Leid Leid Leid Leid Leid Lei	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary. Jun Xiang Istra, Sieger -Miller, Susan. Daniel R Richard. Irrud, Mark G. Irr, Roger. Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Inann, Sylvain Itay, Steven Itö, Janne Kiaoguang Zhentian Zhentian Zhentian Zhentian Zhentian Ryan Irr, Samantha Iner, Samantha Iner, Samantha Iner, Alexander Irred	TP 08' TP 08' TP 09' MVP 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 49' MP 290 MOE pm 2:50 MP 47' MP 55' WOH am 10:11 TP 10' TP 10' TP 60' Th P 48' Th P 58' Th P 27' WP 42' ThOF pm 3:10 Th P 48' Th P 63' TP 06' TP 06' TP 06' TP 10' TP 10' TP 48' Th P 63' TP 10' TP 06' TP 06' TP 07' WP 42' TOF am 08:56' WO C am 08:56' WO 36' THO 9m 3:56' THO 5m 3:56' THO 5m 3:56' THO 5m 3:56' THO 6m 3:56'
Lee, Lee, Lee, Lee, Leeen Lees Leff, Leffs Lefs Leghn Lehn Lehn Lehn Lehn Lehi Lei, Leic, Leic, Leid Leit Leit Leit Leit Leix Lem	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary. Jun Xiang Istra, Sieger -Miller, Susan. Daniel R Richard. Irrud, Mark G. Irr, Roger. Inann, Sylvain Istay, Steven. Iö, Janne Kiaoguang Zhentian Zhentian Zhentian Zhentian Zhentian Ryan Iner, Samantha Iner, Samantha Iner, Alexander Iner, Alexander Iner, Alexander Iner, Alexander Iner, Alexander Iner, Samantha Iner, Samantha Iner, Alexander Iner, Alexander Iner, Alexander Iner, Alexander Iner, Simone In	TP 08' TP 08' TP 09' MV 41' MOF am 10:10 MP 316 TOF am 08:30 TP 37' MP 290 MOE pm 2:50 MP 47' MP 55' WOH am 10:11 TP 10' TP 60' ThP 47' MP 58' TP 28' ThP 28' ThP 58' ThP 28' ThP 47' MP 48' ThP 60' ThP 47' MP 48' ThP 62' WP 03' TP 06' TP 06' TP 06' TP 08' TP 18' TP 19' TP 08' TP 19' TP 08' TP 311 TP 08'
Lee, Lee, Lee, Lee, Leen Lees Leff, Leffs Lefs Leth Leh Leh Leh Leh Leh Leh Leh Lei, Lei, Lei	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary. Jun Xiang Istra, Sieger -Miller, Susan. Daniel R Richard. Irrud, Mark G. Irr, Roger. Inann, Sylvain Itay, Steven Iö, Janne Xiaoguang Zhentian Zhentian Zhentian Zhentian Zhentian Iner, Samantha Iner, Saman	TP 08' TP 08' TP 09' MV 41' MOF am 10:1(
Lee, Lee, Lee, Lee, Lee, Leeff, Leffs, Leffs, Lethn Lehn Lehn Lehn Lehn Lehi Lehi Lei, Lei, Lei, Leid Leid Leid Leid Leid Leid Leize Leem Lem Lem Lem Lem Lem Lem Lem Lem L	Yuan Tseh. Yuan Tseh. Yuan Tseh. Zachary. Jun Xiang Istra, Sieger -Miller, Susan. Daniel R Richard. Irrud, Mark G. Irr, Roger. Inann, Sylvain Istay, Steven. Iö, Janne Kiaoguang Zhentian Zhentian Zhentian Zhentian Zhentian Ryan Iner, Samantha Iner, Samantha Iner, Alexander Iner, Alexander Iner, Alexander Iner, Alexander Iner, Alexander Iner, Samantha Iner, Samantha Iner, Alexander Iner, Alexander Iner, Alexander Iner, Alexander Iner, Simone In	



Lenaeus, Lindsay	TP 653	li Fei	TOD am 09:50	Li , Lingjun	WP 542
Lendal, Sara Eun			MP 250	Li, Lingjun	
Leng, Fenfei			ThP 242	Li, Lingjun	
Lento, Cristina				Li , Lingyun	
Lentz, David		, -	WP 477	Li , Lingyun	
Lenz, Christof		, ,	MP 064	Li , Min	
Lenz, Christof			MP 067	Li , Min	
Leon, Deborah R			WP 477	Li , Ming	
Leon, Deborah R			ThP 264	Li , Ning	
Leonards, Pim E.G			TOH pm 4:10	Li, Pengfei	
Lera, Robert F			WP 453	Li, Peter	
Lerch, Melissa			MP 294	Li, Peter	
Leriche, Emma-Dune	WP 648	Li, Henghong	ThP 465	Li, Qian	MP 019
LeRoch, Karine G	ThP 554	Li, Hongli	TP 014	Li, Qiang	ThP 478
Lesiak, Ashton		Li, Hongyan	ThP 603	Li, Qing-Run	ThP 333
Lesiak, Ashton D	MP 494	Li , Hua	WP 215	Li, Qiyao	ThOB pm 2:30
Lesiak, Ashton D	MP 500	Li, Huijuan	MP 691	Li, Quanzi	MP 495
Lesiak, Ashton D	ThOD pm 2:30		WP 411	Li, Renfeng	TP 529
Lesner, Nicholas	WP 163	Li, Huijuan	WP 687	Li , Ru	WP 386
Lesslie, Michael	ThOE am 08:30		MOC pm 2:50	Li, Sam	WP 014
Lesslie, Michael			TOD am 09:10	Li, Shanshan	
Lesur, Antoine		Li , Huilin	TP 486	Li, Sheng	TP 372
Lesur, Antoine			WOC pm 3:10	Li , Shu	
Leszyk, John		,	MP 067	Li, Shuiwei	ThP 568
Leszyk, John D			ThP 073	Li, Shunqiang	
Letarte, Sylvain	ThOH am 09:50		MP 504	Li, Shunqiang	
Leumann, Christian		,	TP 354	Li, Shunqiang	
Leung, Daisy W			TP 305	Li, Shunqiang	
Leung, Elvis			WOC pm 3:30	Li, Shuzhao	
Leung, Gary N. W			ThP 568	Li, Sifan	
Leung, Lisa			WP 627	Li, Sujun	
Lévesque, Ann		, ,	ThP 498	Li , Tuo	
Lévesque, Ann	ThP 340		ThP 501	Li , Tuo	
Lévesque, Ann	TP 282	Li , Jing	ThP 507	Li , Wei	MP 495
Lévesque, Ann	TP 284	Li , Jing	TP 149	Li, Weikai	
Lévesque, Ann	TP 285	Li , Jun	ThP 449	Li, Weizhe	MP 515
Lévesque, Ann	TP 286		TOF pm 3:50	Li, Wenjing	WP 595
Lévesque, Ann	TP 288	Li, Jun	TP 515	Li, Wenkui	MP 480
Lévesque, Ann	TP 289	Li , Jun	TP 557	Li, Wenkui	ThP 255
Lévesque, Ann	TP 291		WP 300	Li, Wenkui	WP 378
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Lévesque, Ann	WP 341	Li, Ka wan	MP 530	Li , Xiang	MP 072
Lévesque, Carine		Li, Ke	ThP 496	Li, Xiang	ThP 283
Levi, Mikael	TP 315	Li, Ke	ThP 501	Li, Xiang	TP 091
Levi, Mikael	TP 320	Li, Lan	WP 107	Li, Xiang	WP 486
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Levin, Rebecca	TP 462	Li , Li MP 475		Li, Xiangke	
Levin, Sergiy		Li , Li TP 146		Li, Xiaoguang (Sunny)	
Levin, Sergiy			MOD pm 4:10	Li, Xiaohai	
Levin, Sergiy			MP 354	Li, Xiaolin	
Levin, Yishai			MP 374	Li, Xiaolong	
Levit, Matthew		, ,	MP 375	Li, Xiaopeng	
Levitt, Nick			ThP 220	Li, Xiaoqing	
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Levy, Michaella		,	ThP 310	Li , Xin	
Levy, Michaella			ThP 407	Li, Xing-Fang	
Lewis, David			TP 181	Li, Xuesong	
Lewis, Ernest			TP 209	Li, Yafeng	
Lewis, Liam			TP 213	Li, Yen-Hsien	
Lewis, Michael T		. •	TP 221	Li, Yifan	
Lewis, Norman G			WOH am 08:30	Li, Ying	
Ley, Robert		,	MOF am 08:50	Li, Ying	
Leymarie, Nancy			TP 332	Li, Yinghe	
Leymarie, Nancy			ThP 598	Li, Yinyin	
Leymarie, Nancy		, 0	MP 420	Li, Yinyin	
Leymarie, Nancy		, 0	ThP 571	Li, Yongfu	
Leyte-Lugo, Martha		,	MP 226	Li, Yong-Xi	
Li, Ailin			MP 611	Li, Yong-Xi	
Li, Anyin		,	ThOD am 08:50	Li, Yong-xi	
Li , Bin		,	ThP 382	Li, Yue	
Li, Chang			ThP 385	Li, Yueqi	
Li, Chen		,	ThP 387	Li, Yunong	
Li, Chen			ThP 653	Li, Yuxin	
Li, Chien-Ming		,	TOA pm 3:50	Li, Yuxin	
Li, Danni		,	TP 192	Li, Zhendong	
Li, Ding			WOC am 09:30	Li, Zhendong	
Li, Duxin		,	WOH am 09:30	Li, Zhendong	
Li, Fang			WP 284	Li, Zhenfei	
Li, Fangbiao	MP 287	Li , Lingjun	WP 305	Li, Zhengjian	TP 141



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Liang, Hong		Lin, Cheng			WP 118
Liang, Juchao		Lin, Cheng			WOH pm 3:10
Liang, Juchao	WP 020	Lin, Cheng	ThP 561	Liu, Ang	WP 67
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Liang, Shun-Hsin		Lin, Cheng			TP 16
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Liang, Shun-Hsin		Lin, Chien-Yuan Lin, Chih-Yuan			MP 119
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Liang, Wenzhong		Lin, Jung-Lee			WP 33
Liang, Wenzhong		Lin, Jung-Lee		· ·	WP 400
Liang, Wenzhong		Lin, Karen		•	TP 022
Liang, Xiaorong		Lin Karen			TP 028
Liang, Yan Liang, Yuxue		Lin, Karen Lin, Liang			MP 63 TP 050
Liang, Yuxue Liang, Zhidan		Lin, Liang		, 0 0	TP 598
Liang, Zhidan		Lin, Liang			WP 038
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Liao, Gangling		Lin, Miao-Hsia			TP 440
Liao, Hongzhu		Lin, Pei-Yi	MP 578		ThOB pm 3:10
Liao, Wei-Li	MP 306	Lin, Pei-Yi	ThP 328	Liu, Fang	TP 270
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Liberatore, Hannah		Lin, Qianxin			TP 234
Libert, Benjamin		Lin, Qishan			TP 60
Libralesso, Elisa Licht, Jonathan D		Lin, Shanhua Lin, Shanhua			ThP 489
Lichterfeld, Mathias		Lin, Shannua			TP 220
Lichti, Cheryl		Lin, Shu			TP 33
Lichti, Cheryl F		Lin , Shu			WP 07
Lickteig, Andrew		Lin, Shujun			ThP 348
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Liebler, Daniel C		Lindh, Christian		•	TP 60
Liebler, Daniel C		Lindh, Christian			WP 678
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Maljers, Louis Mallard, W.Gary Mallard, Wm. Gary Mallick, Parag Mallipatna, Ashwin Mallisho, Abdullah Malmberg, Per Malmberg, Per	ThP 036ThP 216ThP 262WP 219MP 505ThP 655
Maljers, Louis Mallard, W.Gary. Mallard, Wm. Gary Mallick, Parag Mallipatna, Ashwin Mallisho, Abdullah Malmberg, Per Malmberg, Per Malmström, Erik	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50
Maljers, Louis. Mallard, W.Gary	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50
Maljers, Louis. Mallard, W.Gary. Mallard, Wm. Gary. Mallick, Parag. Mallipatna, Ashwin. Mallisho, Abdullah. Malmberg, Per. Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50
Maljers, Louis. Mallard, W.Gary Mallard, Wm. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per Malmström, Erik Malmström, Johan. Mallosse, Christian	
Maljers, Louis. Mallard, W.Gary Mallard, Wm. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per Malmström, Erik Malmström, Johan. Mallosse, Christian	
Maljers, Louis. Mallard, W.Gary Mallard, Wm. Gary. Mallick, Parag Mallisho, Abdullah Malmberg, Per Malmström, Erik Malmström, Johan. Malmström, Johan. Malosse, Christian Malosyan, Alina Maltsev, Sergey.	
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik Malmström, Johan. Malmström, Johan. Malosse, Christian Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50 TOD pm 3:30 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag. Mallipatna, Ashwin. Mallisho, Abdullah. Malmberg, Per. Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey. Malys, Brian. Man, Petr. Man, Petr.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag. Mallipatna, Ashwin. Mallisho, Abdullah. Malmberg, Per. Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey Malys, Brian Man, Petr. Man, Petr. Man Alosa, Bruno.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373
Maljers, Louis. Mallard, W.Gary Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmberg, Per. Malmström, Erik Malmström, Johan. Malmström, Johan. Malosse, Christian Maloyan, Alina Maltsev, Sergey Malys, Brian Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno.	
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malmström, Johan. Malosse, Christian Maloyan, Alina Maltsev, Sergey Malys, Brian Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manandhar, Anuj	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 TOC am 09:10 TOD pm 3:50 TOD pm 3
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik Malmström, Johan. Malmström, Johan. Malosse, Christian Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manandhar, Anuj Mance, Austen	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50 TOD pm 3:30 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manandhar, Anuj Mance, Austen Mancera, Luis	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50 TOD pm 3:50 TOP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag. Mallipatna, Ashwin. Mallisho, Abdullah. Malmberg, Per. Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey. Mallys, Brian. Man, Petr. Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manadhar, Anuj. Mancera, Luis. Mancera, Luis.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 318 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag. Mallipatna, Ashwin. Mallisho, Abdullah. Malmberg, Per. Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey Malys, Brian. Man, Petr. Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manandhar, Anuj. Mance, Austen. Mancera, Luis. Mancera, Luis. Mandal, Mridul Kanti.	
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malmström, Johan. Malosse, Christian Maloyan, Alina Maltsev, Sergey Malys, Brian Man, Petr. Man, Petr. Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadhar, Anuj Mance, Austen Mancera, Luis Mancera, Luis Mandal, Mridul Kanti Mandefro, Berhan	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 TOC am 09:10 TOD pm 3:50 TOD pm 3
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag. Mallipatna, Ashwin. Mallisho, Abdullah. Malmberg, Per. Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey Malys, Brian. Man, Petr. Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manandhar, Anuj. Mance, Austen. Mancera, Luis. Mancera, Luis. Mandal, Mridul Kanti.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689 WP 456 TP 653 WP 014
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manacra, Luis. Mancera, Luis. Mandefro, Berhan. Mandefro, Berhan. Mandero, Manadero, Thawatchai Manders, Nathan. Manaes, Nathan. Managaonkar, Manasi.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689 WP 456 TP 653 WP 014 MP 613
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag. Mallipatna, Ashwin. Mallisho, Abdullah. Malmberg, Per. Malmberg, Per. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey. Malmström, Brik. Man, Petr. Man, Petr. Man, Petr. Man, Anuj. Mancera, Luis. Mancera, Luis. Mandero, Berhan. Mandero, Berhan. Mandero, Berhan. Mandero, Berhan. Mandero, Berhan. Maneerung, Thawatchai. Mangaonkar, Manasi. Mangaonkar, Manasi.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689 WP 456 TP 653 WP 146 MP 613 WP 274
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian Malosse, Christian Maloyan, Alina Maltsev, Sergey Malys, Brian Man, Petr. Man, Petr. Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadas, Anuj Mance, Austen Mancera, Luis Mandero, Berhan Manderro, Berhan Maneerung, Thawatchai Mangaonkar, Manasi Mangaonkar, Manasi Mangalsdorf, David.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689 WP 456 TP 653 WP 014 MP 613 WP 274 WP 295
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr. Man, Petr. Man, Alina Mance, Austen Mancera, Luis Mancera, Luis Mandefro, Berhan. Maneerung, Thawatchai Mangaonkar, Manasi	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 MP 663 WP 014 MP 613 WP 274 WP 295 MP 446
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallisho, Abdullah Malmberg, Per. Malmström, Johan. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr. Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Mancera, Luis Mancera, Luis Mancera, Luis Mandel, Mridul Kanti Mandefro, Berhan. Maneerung, Thawatchai Mangaonkar, Manasi. Mangaonkar, Manasi. Mangaonkar, Manasi. Mangarum, John. Mangrum, John. Mangrum, John.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50 TOD pm 3:50 TOD pm 3:60 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 TP 689 WP 440 TP 689 WP 456 TP 653 WP 014 MP 613 WP 274 WP 295 MP 446 MP 667 TP 593
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manandhar, Anuj. Mancera, Luis. Mancera, Luis. Mandero, Berhan. Mandero, Berhan. Manerung, Thawatchai Mangaonkar, Manasi Mangaonkar, Manasi Mangalsdorf, David. Mangrum, John.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689 WP 456 MP 667 WP 295 MP 274 WP 295 MP 466 MP 667 TP 593 TP 593
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag. Mallipatna, Ashwin. Mallisho, Abdullah. Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian. Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr. Man, Petr. Manadas, Bruno. Manadas, Bruno. Manandhar, Anuj. Mancera, Luis. Mancera, Luis. Mancera, Luis. Mandefro, Berhan. Maneerung, Thawatchai. Mangaonkar, Manasi. Mangaonkar, Manasi. Mangaonkar, Manasi. Mangaum, John. Mangrum, John B. Mangrum, John. Mangrum, J	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TP 526 MOC pm 3:30 TP 526 MOC pm 3:30 TP 546 WP 328 WP 518 ThP 472 ThP 673 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689 WP 456 TP 653 WP 014 MP 613 WP 274 WP 295 MP 446 MP 667 TP 593 TP 591 ThP 358
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian Malosse, Christian Maloyan, Alina Maltsev, Sergey Malys, Brian Man, Petr. Man, Petr. Man, Petr. Man, Petr. Man, Auj Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadas, Anuj Mance, Austen Mancera, Luis Mandero, Berhan Mancera, Luis Mandefro, Berhan Maneerung, Thawatchai Manes, Nathan Mangaonkar, Manasi Mangaonkar, Manasi Mangaonkar, Manasi Mangrum, John Mangrum, John Mangrum, John Mangrum, John Mangrum, Dohn	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 TOC am 09:10 TOD pm 3:50 TP 623 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689 WP 456 TP 653 WP 014 MP 613 WP 274 WP 295 MP 446 MP 667 TP 593 TP 591 ThP 358 ThP 317
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian Maloyan, Alina Maltsev, Sergey. Malys, Brian Man, Petr. Man, Petr. Man, Petr. Man, Petr. Man, Auj. Mandas, Bruno. Manadas, Manai. Mandefro, Berhan. Manderro, Berhan. Manderon, Thawatchai. Manderon, Thawatchai. Mangaonkar, Manasi. Mangaonkar, Manasi. Mangaonkar, Manasi. Mangaonkar, Manasi. Mangum, John. Mangrum, John B. Mangrum, John B. Mangus, David. Mangi, D. R. Mani, D. R.	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 653 WP 914 MP 613 WP 274 WP 295 MP 446 MP 673 TP 591 ThP 358 ThP 358 ThP 347
Maljers, Louis. Mallard, W.Gary. Mallard, W.M. Gary. Mallick, Parag Mallipatna, Ashwin. Mallisho, Abdullah Malmberg, Per. Malmström, Erik. Malmström, Johan. Malmström, Johan. Malosse, Christian Malosse, Christian Maloyan, Alina Maltsev, Sergey Malys, Brian Man, Petr. Man, Petr. Man, Petr. Man, Petr. Man, Auj Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadas, Bruno. Manadas, Anuj Mance, Austen Mancera, Luis Mandero, Berhan Mancera, Luis Mandefro, Berhan Maneerung, Thawatchai Manes, Nathan Mangaonkar, Manasi Mangaonkar, Manasi Mangaonkar, Manasi Mangrum, John Mangrum, John Mangrum, John Mangrum, John Mangrum, Dohn	ThP 036 ThP 216 ThP 262 TP 393 WP 219 MP 505 ThP 655 TOC am 09:10 TOD pm 3:50 TP 526 MOC pm 3:30 TP 264 WP 328 WP 518 ThP 472 TP 373 MP 516 TP 623 WOF am 09:10 WP 259 MP 440 TP 689 WP 456 TP 653 WP 014 MP 613 WP 274 WP 274 WP 295 MP 446 MP 667 TP 593 TP 591 ThP 358 ThP 357 WP 306 ThP 306 ThP 306 ThP 307

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Manival, Xavier	WP 641
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Manning, Andrew	
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Marchand, Adrien	
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Marchetti-Deschmann, Martina	WP 524
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Marcinko, Tyler	
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Marette, Andre	WP 094
Marette, Andre Marghitoiu, Liliana	WP 094 TP 007
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Marette, Andre Marghitoiu, Liliana Marginean, loan	WP 094 TP 007 TP 080
Marette, Andre	
Marette, Andre	WP 094 TP 007 TP 080 ThO 329 ThOA pm 3:50 MOE pm 2:50 TP 219 Th 589 WOE pm 3:50 MOC pm 4:10 MP 380
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Marette, Andre Marghitoiu, Liliana Marginean, Ioan Margulies, Kenneth Margulis-Goshen, Katy Marin, Philippe Marini, Joseph Marino, Fabio Marissen, Rob Markey, Rondina Marker, Paul Markey, Sanford Markillie, Meng Markowski, Todd Markowski, Todd W Marles-Wright, Jon Maron, Max J Marquert, Pierre Marr, James Marquet, Pierre Marr, James Marreno, Jorge Mariner, Gwendolyn Marshall, Alan G	WP 094
Marette, Andre Marghitoiu, Liliana Marginean, Ioan Margulies, Kenneth Margulis-Goshen, Katy Marin, Philippe Marini, Joseph Marino, Fabio Marissen, Rob Marker, Paul. Markey, Sanford Markillie, Meng. Markowski, Todd Markowski, Todd W Marles-Wright, Jon Maron, Max J. Marquardt, Robert Marques, Lygia Marques, Lygia Marriner, Gwendolyn Marshall, Alan Marshall, Alan Marshall, Alan Marshall, Alan Marshall, Alan G.	WP 094
Marette, Andre Marghitoiu, Liliana Marginean, Ioan Margulies, Kenneth Margulis-Goshen, Katy Marin, Philippe Marini, Joseph Marino, Fabio Marissen, Rob Marker, Paul. Markey, Sanford Markillie, Meng. Markowski, Todd Markowski, Todd W Marles-Wright, Jon Maron, Max J. Marquardt, Robert Marques, Lygia Marques, Lygia Marriner, Gwendolyn Marshall, Alan Marshall, Alan Marshall, Alan Marshall, Alan Marshall, Alan G.	WP 094
Marette, Andre Marghitoiu, Liliana Marginean, Ioan. Margulies, Kenneth Margulis-Goshen, Katy Marin, Philippe Marini, Joseph Marino, Fabio. Marissen, Rob Mark, Condina Marker, Paul. Markey, Sanford. Markillie, Meng. Markowski, Todd W Marles-Wright, Jon Maron, Max J. Marquardt, Robert. Marques, Lygia Marquet, Pierre. Mar, James. Marrero, Jorge Marriner, Gwendolyn Marshall, Alan G.	WP 094
Marette, Andre Marghitoiu, Liliana Marginean, Ioan Margulies, Kenneth Margulis-Goshen, Katy Marin, Philippe Marini, Joseph Marino, Fabio Marissen, Rob Marker, Paul. Markey, Sanford Markillie, Meng. Markowski, Todd Markowski, Todd W Marles-Wright, Jon Maron, Max J. Marquardt, Robert Marques, Lygia Marques, Lygia Marriner, Gwendolyn Marshall, Alan Marshall, Alan Marshall, Alan Marshall, Alan Marshall, Alan G.	WP 094

Marshall, Alan G	WP 046
Marshall, Alan G	
Marshall. Alan G.	
Marshall, David L	
Marshall, Derrick	
Marshall, Jonathan	ThD 267
Marshall Lucas	111P 207
Marshall, Lynne	
Marshall, Nathan	
Marshall, Peter	
Marsico, Alyssa	
Martano, Chiara	
Martens, Jonathan	TOC pm 3:30
Martens, Jonathan	
Martens, Lennart	MP 409
Martens, Lennart	TOB am 09:50
Martens, Lennart	TP 133
Martin, Brent	TOB pm 2:50
Martin, Brent	TP 163
Martin, Daniel	
Martin, Erika J	
Martin, Gary	
Martin, Jeffrey	
Martin, Kevin	
Martin, Laetitia	
Martin, Roy	
Martin, Roy Martin, Troetzmueller	
Martin Perez, Miguel	IF 200
Martin Perez, Miguel	IVIP 039
Martinez, Joshua	
Martínez, Jairo René	
Martínez Jarquín, Sandra	MP 022
Martinez Mejia, Monica Johanna	TP 106
Martinez-Alcazar, M. Paz	
Martinez-Alvarado, Jesus I	
Marty, Michael	
Marur, Vasant	TP 267
Marvin, Craig	. TOG am 08:50
Marvin, Craig	TP 305
Marvin, Rachel	MP 466
Marvin, Rachel	WP 286
Marwaha, S.S	WP 082
Marwaha, S.S	
Marx, Harald	MOD pm 2:50
Marx, HaraldMarx, Harald	MOD pm 2:50 . MOF am 08:50
Marx, Harald	MOD pm 2:50 . MOF am 08:50 MP 537
Marx, Harald	MOD pm 2:50 .MOF am 08:50 MP 537 ThP 531
Marx, Harald	MOD pm 2:50 .MOF am 08:50 MP 537 ThP 531 TP 240
Marx, Harald	MOD pm 2:50 .MOF am 08:50 MP 537 ThP 531 TP 240 ThP 533
Marx, Harald	MOD pm 2:50 .MOF am 08:50 MP 537 ThP 531 TP 240 ThP 533 ThP 638
Marx, Harald	MOD pm 2:50 . MOF am 08:50
Marx, Harald	MOD pm 2:50 .MOF am 08:50 MP 537 ThP 531 ThP 533 ThP 638 WP 655 TP 618
Marx, Harald	MOD pm 2:50 .MOF am 08:50 .MP 537 .ThP 531 .ThP 533 .ThP 638 .WP 655 .TP 618 .WP 294
Marx, Harald	MOD pm 2:50 .MOF am 08:50 MP 537 ThP 531 TP 240 ThP 638 ThP 638 WP 655 TP 618 WP 294
Marx, Harald	MOD pm 2:50 .MOF am 08:50
Marx, Harald	MOD pm 2:50 .MOF am 08:50
Marx, Harald	MOD pm 2:50 .MOF am 08:50 MP 537 ThP 531 TP 240 ThP 638 WP 655 TP 618 WP 294 TOC pm 3:50 WP 529 WP 529 WP 544 MP 394
Marx, Harald	MOD pm 2:50 .MOF am 08:50 .MP 537 ThP 531 ThP 533 ThP 638 WP 655 TP 618 WP 294 TOC pm 3:50 WP 559 WP 564 WP 564
Marx, Harald	MOD pm 2:50 .MOF am 08:50
Marx, Harald	MOD pm 2:50 .MOF am 08:50
Marx, Harald	MOD pm 2:50 .MOF am 08:50
Marx, Harald	MOD pm 2:50 .MOF am 08:50MP 537ThP 531TP 240ThP 638WP 655TP 618WP 529TOC pm 3:50WP 529WP 544MP 394TP 649TP 649TP 649TP 649
Marx, Harald	MOD pm 2:50MOF am 08:50MP 537ThP 531TP 240ThP 533ThP 638WP 655TP 618WP 294TOC pm 3:50WP 529WP 564MP 394TP 649TP 649TP 659TP 681TP 681
Marx, Harald	MOD pm 2:50MOF am 08:50MP 537ThP 531TP 240ThP 638WP 658TP 618WP 294TOC pm 3:50WP 529WP 564MP 394TP 649TP 649TP 661TP 681TP 681
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50 .MOF am 08:50MP 537ThP 531TP 240ThP 533ThP 638WP 655TP 618WP 529WP 529WP 564MP 394TOC pm 3:50WP 569TP 661TP 681TP 676TP 271THOB pm 4:10WP 469TP 521TP 653
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50MP 537ThP 531TP 240ThP 533ThP 638WP 655TP 618WP 529WP 529WP 564MP 394TP 649TP 653TP 661TP 681TP 681TP 676TP 576TP 271ThOB pm 4:10WP 469TP 576TP 771ThOB pm 4:10WP 469TP 555MP 257ThP 653MP 257ThP 555ThP 409
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50
Marx, Harald	MOD pm 2:50MOF am 08:50

wattnews, Clayton	IP 170
Matthews, David	ThP 468
Matthews, Shawna	
Mattila, James	
Mattingly, Carolyn	
Mattivi, Fulvio	TP 20
Matturri, Luigi	ThP 20
Matzuk, Martin M	
Mauahlay D.I	WD 12
Mauchley, DJ Maudlin-Jeronimo, Eric	VVP 124
Maudlin-Jeronimo, Eric	WP 274
Maurakis, Manos	
Maurer, Megan	ThP 19
Maurizot, Victor	
Mauvoisin, Daniel	
Mauvoisiii, Daniei	
Mawhinney, Thomas P	
Mawn, Louise	TP 658
Mawuenyega, Kwasi	TP 652
Max, Joann	
Max, Joann	
Maxe, Margareta	
May , Jody C	MP 12
May, Jody C	MP 128
May, Jody C	
May , Jody C	
May Jody C	NAD 404
May, Jody C	IMP 136
May , Jody C	ThP 632
May, Jody C	ThP 643
May, Jody C	
Mayampurath, Anoop	MP 42
Mayampurath, Anoop	WD 244
wayampurath, Anoop	VVP 24
Mayboroda, Oleg. A	WP 213
Mayer, Philip S	MP 564
Mayer, Ramona	MP 454
Mayne, Janice	
Mayne, Janice	TD 50
wayne, Janice	1P 594
Mayne, Janice	WP 38
Mayne, Leland	WP 628
Mayorov, Alexey	
Mayrand-Provencher, Laurence.	MP 259
Mayrand-Provencher, Laurence. Mazar, Andrew P	WOH pm 3:30
Mayrand-Provencher, Laurence. Mazar, Andrew P	WOH pm 3:30
Mayrand-Provencher, Laurence. Mazar, Andrew P Maze, Joshua Mazur, Alexander	WOH pm 3:30 WOH pm 3:30 MP 104 TOE am 09:50
Mayrand-Provencher, Laurence. Mazar, Andrew P Maze, Joshua Mazur, Alexander	WOH pm 3:30 WOH pm 3:30 MP 104 TOE am 09:50
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua Mazur, Alexander Mazur, Dmitry	WOH pm 3:30 WOH pm 3:30 MP 104 TOE am 09:50 WP 009
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 104 TOE am 09:50 WP 009 WP 629
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259WOH pm 3:30MP 104TOE am 09:50WP 009WP 620ThP 169
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua Mazur, Alexander Mazur, Dmitry Mazur, Sharlyn J. Mazzarino, Monica Mazzotti, Fabio	MP 259 WOH pm 3:30 MP 10 TOE am 09:50 WP 009 WP 629 ThP 160 WP 300
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua Mazur, Alexander Mazur, Dmitry Mazur, Sharlyn J. Mazzarino, Monica Mazzotti, Fabio	MP 259 WOH pm 3:30 MP 10 TOE am 09:50 WP 009 WP 629 ThP 160 WP 300
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua Mazur, Alexander Mazur, Dmitry Mazur, Sharlyn J. Mazzarino, Monica Mazzotti, Fabio Mazzotti, Fabio	MP 259
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua Mazur, Alexander Mazur, Dmitry Mazur, Sharlyn J. Mazzarino, Monica. Mazzotti, Fabio Mazzotti, Fabio Mazzucchelli, Gabriel	MP 259 WOH pm 3:30 MP 10 TOE am 09:51 WP 009 WP 629 ThP 169 WP 300 WP 300
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 104 TOE am 09:50 WP 629 ThP 169 WP 309 WP 309 MP 511 ThOB am 09:10
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 620 ThP 160 WP 300 WP 300 MP 510 ThOB am 09:11
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 10 MP 10 TOE am 09:50 WP 009 WP 629 WP 300 WP 300 MP 514 ThOB am 09:10 MP 256 MP 250 ThP 200
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 10 MP 10 TOE am 09:50 WP 009 WP 629 WP 300 WP 300 MP 514 ThOB am 09:10 MP 256 MP 250 ThP 200
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 MOH pm 3:30 MP 10 MP 10 MP 009 MP 609 MP 629 MP 300 MP 300 MP 514 MP 100 MP 256 MP 200 MP 200 MP 514 MP 256 ThP 200 TP 460
Mayrand-Provencher, Laurence. Mazar, Andrew P. Mazer, Joshua Mazur, Alexander. Mazur, Dmitry Mazzarino, Monica. Mazzarino, Monica. Mazzotti, Fabio Mazzotti, Fabio Mazzotti, Fabio Mazzucchelli, Gabriel Mbeunkui, Flaubert. Mbeunkui, Flaubert. Mbonye, Uri. Mcalister, Graeme	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 620 ThP 160 WP 300 MP 510 ThOB am 09:10 MP 250 ThP 200 ThP 460 MP 060
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 620 ThP 160 WP 300 MP 501 ThOB am 09:10 MP 250 ThP 200 MP 600 MP 600
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 620 ThP 160 WP 300 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 660 MP 660 MP 660 MP 660
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 MP 100 WP 609 WP 629 MP 300 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 260 MP 600 MP 600 MP 630
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 MP 100 WP 620 WP 300 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 MP 600 MP 600 MP 630 MP 600 MP 650
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 MP 100 WP 620 WP 300 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 MP 600 MP 600 MP 630 MP 600 MP 650
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 620 ThP 160 WP 300 MP 510 ThOB am 09:10 MP 250 ThP 200 ThP 460 MP 600 MP 630 WP 630 WP 630 WOC am 09:50
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 620 ThP 160 WP 300 MP 501 MP 250 ThP 200 TP 460 MP 600 TP 250 WP 630 WP 630 MP 631 MP 630 MP 631 TP 190 MP 630
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 TOE am 09:50 WP 609 WP 300 WP 300 MP 511 ThOB am 09:10 MP 250 ThP 200 MP 630 MP 630 WP 630 MP 630 MP 650 MP 650 MP 650 MP 650 MP 650 MP 650 MP 630 MOC am 09:50 ThP 1920 MP 521
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 MP 100 WP 600 WP 620 MP 510 MP 511 ThOB am 09:11 MP 250 MP 600 MP 630 WP 630 MP 630
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 MP 100 WP 609 WP 629 ThP 160 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 630 WP 630 WP 630 MP 610 TP 250 MP 610 TP 190 MP 620 ThP 190 MP 520 ThP 190 MP 520 ThP 190 MP 620 ThP 190
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 MP 100 WP 609 WP 629 ThP 160 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 630 WP 630 WP 630 MP 610 TP 250 MP 610 TP 190 MP 620 ThP 190 MP 520 ThP 190 MP 520 ThP 190 MP 620 ThP 190
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 MP 100 WP 629 ThP 160 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 600 MP 600 TP 250 WP 630 WP 630 MP 610 ThP 190 MP 620 ThP 190 MP 520 ThP 190 MP 520 ThP 190 MP 520 MP 630 ThP 190 MP 520 MP 630 ThP 190 MP 520 MP 520 ThP 190 MP 520 ThP 450 ThP 450 ThP 450 ThP 600 WP 230
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 300 WP 300 MP 511 ThOB am 09:10 MP 250 ThP 200 TP 460 MP 600 TP 250 WP 630 WOA am 09:50 MOC am 09:50 ThP 190 MP 521 ThP 450 ThP 450 ThP 450 ThP 450 ThP 450 ThP 600 WP 233
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 620 ThP 160 WP 300 MP 511 ThOB am 09:10 MP 250 ThP 200 TP 460 MP 600 TP 250 WP 630 WOA am 09:50 MP 520 ThP 450 ThP 60 WP 230 TP 472 MP 521
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 MP 100 WP 609 WP 629 ThP 160 WP 300 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 630 WP 630 WP 630 MP 610 MP 630 WP 630 TP 190 MP 520 ThP 460 WP 630 WP 630 MP 650 ThP 190 MP 650 MP 650 ThP 450 ThP 650
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 MP 100 WP 600 WP 600 WP 300 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 TP 250 WP 630 WOA am 09:51 MOC am 09:51 ThP 190 MP 520 ThP 460 WP 300 MP 510 MP 630 MP 630 MP 630 MP 520 ThP 190 MP 520 ThP 170 MP 520 ThP 171 MP 520 ThP 175 MP 520 ThP 175 MP 520 ThP 175 MP 520 ThP 1860 MP 520 ThP 540
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 620 ThP 160 WP 300 MP 510 ThOB am 09:10 MP 250 ThP 250 MP 600 MP 600 TP 250 WOA am 09:50 MOC am 09:50 MP 520 ThP 450 ThP 450 ThP 620 TP 250 MP 630 MP 521 ThP 620 TP 540 ThP 540 ThP 540
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 620 ThP 160 WP 300 MP 510 ThOB am 09:10 MP 250 ThP 250 MP 600 MP 600 TP 250 WOA am 09:50 MOC am 09:50 MP 520 ThP 450 ThP 450 ThP 620 TP 250 MP 630 MP 521 ThP 620 TP 540 ThP 540 ThP 540
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 300 WP 300 MP 511 ThOB am 09:10 MP 250 ThP 200 TP 460 MP 600 TP 250 WOA am 09:50 MOC am 09:50 ThP 450 ThP 450 ThP 450 ThP 600 WP 230 ThP 450 ThP 600 TP 450 ThP 600 TP 450 ThP 600 TP 170 MP 521 ThP 621 ThP 540 ThP 622 ThP 540 ThP 540 ThP 540 TP 230 TP 230
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 253 WOH pm 3:31 MP 104 TOE am 09:50 WP 603 WP 303 MP 514 ThOB am 09:10 MP 256 ThP 206 MP 603 WP 633 WOA am 09:50 ThP 456 ThP 60 WP 236 ThP 620 ThP 544 ThP 544 ThP 543 TP 299 ThP 233 TP 234 TP 234
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 TOE am 09:50 WP 609 WP 300 WP 300 MP 511 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 630 WOA am 09:50 ThP 450 ThP 460 WP 230 ThP 460 MP 521 ThP 460 ThP 450 ThP 544 TP 290 ThP 549 ThP 390 ThP 390 ThP 390
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 MP 100 WP 609 WP 629 ThP 160 WP 300 MP 511 ThOB am 09:11 MP 250 ThP 200 MP 630 WP 630 WP 630 MP 511 ThOB am 09:17 TP 250 WP 630 WP 630 ThP 190 MP 520 ThP 460 MP 600 TP 250 ThP 450 ThP 450 ThP 600 MP 520 ThP 270 ThP 620 ThP 544 TP 290 ThP 230 ThP 240 ThP 544 TP 290 ThP 549 ThP 540 ThP 390 ThP 390 ThP 390 ThP 390 ThP 390 ThP 380
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 MP 100 WP 609 WP 629 ThP 160 WP 300 MP 511 ThOB am 09:11 MP 250 ThP 200 MP 630 WP 630 WP 630 MP 511 ThOB am 09:17 TP 250 WP 630 WP 630 WP 630 ThP 190 MP 520 ThP 460 MP 600 ThP 190 MP 520 ThP 250 ThP 250 ThP 250 ThP 250 ThP 250 ThP 450 ThP 450 ThP 600 MP 522 ThP 230 ThP 544 TP 290 ThP 549 ThP 540 ThP 540 ThP 390 ThP 390 ThP 390 ThP 390 ThP 380
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 MP 100 WP 609 WP 629 ThP 160 WP 300 MP 510 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 630 WP 630 WP 630 MP 630 WP 630 ThP 190 MP 520 ThP 450 ThP 450 ThP 450 ThP 450 ThP 450 ThP 520 ThP 520 ThP 170 MP 521 ThP 450 ThP 520 ThP 540 ThP 550 ThP 550 ThP 550 ThP 550
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 TOE am 09:50 WP 629 ThP 160 WP 300 MP 511 ThOB am 09:10 MP 250 ThP 200 TP 460 MP 630 WOA am 09:50 MOC am 09:50 ThP 450 ThP 450 ThP 620 ThP 620 ThP 230 ThP 390 ThP 000 MP 590 MP 590 MP 590 MP 590 MP 590
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 250 WOH pm 3:30 MP 100 TOE am 09:50 WP 600 WP 300 WP 300 MP 511 ThOB am 09:10 MP 250 ThP 200 TP 460 MP 600 MP 600 TP 250 WP 630 WOA am 09:50 MP 521 ThP 460 MP 520 ThP 450 ThP 600 MP 520 ThP 450 ThP 620 ThP 540 ThP 540
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 TOE am 09:50 WP 609 WP 300 WP 300 MP 511 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 630 WOA am 09:50 ThP 450 ThP 450 ThP 460 MP 521 ThP 460 MP 522 ThP 47 MP 522 ThP 480 MP 630 MP 630 MP 630 MP 520 ThP 290 ThP 240 ThP 240 ThP 240 ThP 240 ThP 240 ThP 250 ThP 540 ThP 540 ThP 250 ThP 540
Mayrand-Provencher, Laurence. Mazar, Andrew P. Maze, Joshua	MP 259 WOH pm 3:30 MP 100 TOE am 09:50 WP 609 WP 300 WP 300 MP 511 ThOB am 09:11 MP 250 ThP 200 TP 460 MP 630 WOA am 09:50 ThP 450 ThP 450 ThP 460 WP 230 ThP 460 MP 590 TP 290 ThP 620 ThP 290 ThP 541 TP 390 ThP 542 TP 390 ThP 545 TP 390 ThP 540 TP 390 ThP 541 TP 390 ThP 541 TP 390 ThP 541 TP 390 ThP 170 MP 592 ThP 171 MP 592 ThP 171 MP 592 ThP 171 MP 592 ThP 171 ThP 171 MP 592 ThP 171 MP 592 ThP 171 MP 600



Mccomb, Mark E	ThP 555
Mccomb, Mark E	MP 218
Mccomb, Mark E	MP 465
Mccomb, Mark E	
McConechy, Melissa	
McConnell, Evan McConnell, Joseph	
Mccord, James	
McCord, James P	
Mccullagh, Michael	ThP 631
McCullagh, Michael	
McCullagh, Michael	ThP 634
McCullagh, Michael	
McCullagh, Mike	
McCullagh, Mike	
McCullagh, Mike	
McCulloch, Ross McCulloch, Ross	
McCullough, Arthur	
McCullough, Bryan	
McDermott, Jason	MP 617
McDonald, John	
McDonald, Stephen	MP 277
Mcdonnell, Liam	
Mcdonnell, Liam	
Mcdonnell, Liam	
McDougall, Danielle	MP 362
McElroy, Mary	TOH pm 3:10
McEwan, Murray McEwen, Charles	
Mcewen, Charles N	
McEwen, Charles N.	
McFadden, Geoff	
Mcgee, William	
McGee, William	
Mcgee, William	
McGeehan, Jack	
McGettrick, Julie	INP 0/2
McGibbon Craham A	TD 140
McGowan Thomas	
McGowan, Thomas	TP 131
McGowan, Thomas McGreevy, Kenneth	TP 131 MP 105
McGowan, Thomas	TP 131 MP 105 ThP 304 WP 481
McGowan, Thomas McGreevy, Kenneth McGregor, Laura McGregor, Laura Mcguire, Jeffrey	TP 131MP 105ThP 304WP 481ThP 038
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038WP 309
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547
McGowan, Thomas	TP 131 MP 105 ThP 304 WP 481 ThP 038 WP 309 ThP 547 MP 081
McGowan, Thomas	TP 131
McGowan, Thomas	TP 131 MP 105 ThP 304 WP 481 ThP 038 WP 309 ThP 547 MP 081 ThP 647 MP 250
McGowan, Thomas	TP 131 MP 105 ThP 304 WP 481 ThP 038 WP 309 ThP 547 MP 081 ThP 647 MP 250 TP 144
McGowan, Thomas	TP 131 MP 105 ThP 304 WP 481 ThP 038 WP 309 ThP 547 MP 081 ThP 647 MP 250 TP 144 MP 664
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038YP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:30 ThOG pm 3:50
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:30 ThOG pm 3:50TP 219
McGowan, Thomas McGreevy, Kenneth McGregor, Laura McGregor, Laura Mcguire, Jeffrey McIlvin, Matthew McInerney, Michael McIntosh, Daniel G McIntosh, Lisa Mckay, Matthew McKenna, Amy McKenna, Amy M McKenzie, Don Mckenzie, James	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:50TP 219MP 434
McGowan, Thomas McGreevy, Kenneth McGregor, Laura McGregor, Laura Mcguire, Jeffrey. McIlvin, Matthew McInerney, Michael McIntosh, Daniel G. McIntosh, Lisa McKay, Matthew McKenna, Amy McKenna, Amy M. McKenna, Amy M. McKenzie, Don McKenzie, James McKeny, Kennes	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:30 ThOG pm 3:50TP 219MP 434
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081MP 664MP 664 ThOG pm 3:30 ThOG pm 3:50TP 219MP 434MP 442
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:30 ThOG pm 3:50TP 219MP 434MP 442ThP 140MP 328
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:30 ThOG pm 3:50TP 219MP 434MP 442ThP 140MP 328WOF pm 3:30
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:30 ThOG pm 3:50TP 219MP 434MP 442ThP 140MP 328WOF pm 3:30 MOF am 08:30
McGowan, Thomas McGreevy, Kenneth McGregor, Laura McGregor, Laura Mcguire, Jeffrey McIlvin, Matthew McInerney, Michael McIntosh, Daniel G McIntosh, Lisa McKay, Matthew McKenna, Amy McKenna, Amy M McKenna, Amy M McKenzie, Don McKenzie, James McKeown, Alan McKeown, Alan P McLaura McLaura McKeown, David Mclatchey, Daniel	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:30 ThOG pm 3:50TP 219MP 434MP 442ThP 140MP 328WOF pm 3:30 MOF am 08:30MP 127
McGowan, Thomas	TP 131MP 105ThP 304WP 481ThP 038WP 309ThP 547MP 081ThP 647MP 250TP 144MP 664 ThOG pm 3:30 ThOG pm 3:50TP 219MP 434MP 432MP 140MP 328WOF pm 3:30 MOF am 08:30MP 127MP 128MP 128
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Menschaert, Gerben	
Menschaert, Gerben	
Merenbloom, Samuel	TOD am 00:00
Mergny, Jean-Louis	VVP 101
Merkley, Eric	INP 1/3
Merli, Pietro	MP 556
Merlo, Bianca	ThP 171
Merrick, Mark F	ThP 305
Merrihew, Gennifer	MOB am 09:50
Merrill, Anna	MP 573
Merrill, Anna	TP 588
Merrill, Anna	TP 580
Merrill, Anna E	TD 270
Marking Dhiling	
Mertins, Philipp	VVP 414
Mertz, Joseph	ThP 586
Mesaros, Clementina	MP 346
Mesaros, Clementina	TP 204
Mesaros, Clementina	TP 223
Mesaros, Clementina	
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Meske, Diana	WP 368
Meske, Diana Mesker, Wilma E	WP 368
Mesker, Diana Mesker, Wilma E Mesmer, Mantai Z	WP 368 TP 078 ThP 151
Meske, Diana Mesker, Wilma E Mesmer, Mantai Z Mess, Jean-Nicholas	WP 368 TP 078 ThP 151 ThP 525
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Mess, Jean-Nicholas	WP 368 TP 078 ThP 151 ThP 525 ThP 595
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas. Mess, Jean-Nicholas Mess, Jean-Nicholas	
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas. Mess, Jean-Nicholas. Mess, Jean-Nicholas. Mess, Jean-Nicholas.	
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas. Mess, Jean-Nicholas. Mess, Jean-Nicholas. Mess, Jean-Nicholas.	
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas. Mess, Jean-Nicholas Mess, Jean-Nicholas	WP 368TP 078Th 151ThP 525ThP 595ThP 620ThP 621
Meske, Diana	
Meske, Diana	
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metalf, William Metha, Sajjan Singh.	WP 368
Meske, Diana Mesker, Wilma E Mesmer, Mantai Z Mess, Jean-Nicholas Messaddeq, Younes Metalf, William Metha, Sajjan Singh Metrakos, Peter	WP 368TP 078TP 078ThP 1525TP 595TP 620ThP 621WP 381 MOA am 09:50ThP 219ThP 224MOG pm 4:10
Meske, Diana Mesker, Wilma E Mesmer, Mantai Z Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter	
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metwally, Haidy	WP 368TP 078TP 151ThP 151ThP 595ThP 620WP 381 MOA am 09:50ThP 219ThP 224MOG pm 4:10 .TOE am 09:50 WOA am 09:50
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metwally, Haidy Metz, Bernard	WP 368
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metsaddeq, Younes Metalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas	WP 368
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O.	WP 368TP 078TP 078ThP 1525ThP 595ThP 620ThP 621WP 381 MOA am 09:50ThP 224MOG pm 4:10TOE am 09:50 WOA am 09:50 WOA gp 3550ThP 589MOB pm 3:50TOE am 09:10
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O.	WP 368TP 078TP 078ThP 1525ThP 595ThP 620ThP 621WP 381 MOA am 09:50ThP 224MOG pm 4:10TOE am 09:50 WOA am 09:50 WOA gp 3550ThP 589MOB pm 3:50TOE am 09:10
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas. Mestaddeq, Younes Metaff, William. Metha, Sajjan Singh. Metrakos, Peter Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas Metz, Thomas O. Metz, Thomas O.	WP 368TP 078TP 078ThP 1525ThP 595ThP 620ThP 621WP 381 MOA am 09:50ThP 219ThP 224MOG pm 4:10 .TOE am 09:50TOE am 09:50TOE am 09:10
Meske, Diana Mesker, Wilma E Mesmer, Mantai Z Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O Metz, Thomas O Metz, Thomas O Metunier, David.	
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metaalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metwally, Haidy Metz, Thomas Metz, Thomas O. Metz, Thomas O. Metz, Thomas O. Meunier, David Meuwis, Marie-Alice.	WP 368TP 078ThP 1525ThP 525ThP 620ThP 620ThP 621ThP 219ThP 224MOG pm 4:10ThP 289ThP 589ThP 589
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metala, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metvally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O. Metz, Thomas O. Meunier, David Meuwis, Marie-Alice. Meyer, Kevin	WP 368TP 078TP 078ThP 525ThP 595ThP 620ThP 621WP 381 MOA am 09:50ThP 224MOG pm 4:10TOE am 09:50ThP 589MOB pm 3:50TP 589MOB pm 3:50TP 589MOB am 09:10TP 553TP 563
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O. Metz, Thomas O. Meunier, David. Meuwis, Marie-Alice. Meyer, Kevin Meyer, Kevin W.	WP 368
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metalf, William Metha, Sajjan Singh Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O. Metz, Thomas O. Meunier, David. Meuwis, Marie-Alice. Meyer, Kevin Meyer, Kevin W. Meyer, Kevin W.	WP 368TP 078TP 078ThP 1525ThP 595ThP 620ThP 621WP 381 MOA am 09:50ThP 219ThP 224MOG pm 4:10TOE am 09:50 WOA am 09:50 WOA am 09:50TP 253WP 587 FhOB am 09:10TP 253WP 587
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas. Messaddeq, Younes Metcalf, William. Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas Metz, Thomas O. Metz, Thomas O. Meunier, David. Meuwis, Marie-Alice. Meyer, Kevin Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W.	WP 368TP 078TP 078ThP 1525ThP 595ThP 620ThP 621WP 381 MOA am 09:50ThP 219ThP 224MOG pm 4:10TOE am 09:50 WOA am 09:50ThP 589WP 587 ThOB am 09:10TP 253WP 587
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Mess, Jean-Nicholas Mess, Jean-Nicholas Mess, Jean-Nicholas Mess, Jean-Nicholas Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metrakos, Peter Metz, Thomas Metz, Thomas O. Metz, Thomas O. Metz, Thomas O. Metz, Thomas O. Meunier, David Meuwis, Marie-Alice. Meyer, Kevin W.	WP 368
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Mess, Jean-Nicholas Mess, Jean-Nicholas Mess, Jean-Nicholas Mess, Jean-Nicholas Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metrakos, Peter Metz, Thomas Metz, Thomas O. Metz, Thomas O. Metz, Thomas O. Metz, Thomas O. Meunier, David Meuwis, Marie-Alice. Meyer, Kevin W.	WP 368
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metrakos, Peter Metvally, Haidy Metz, Thomas Metz, Thomas O. Metz, Thomas O. Metz, Thomas O. Meunier, David Meuwis, Marie-Alice Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Klaus Meyer, Markus	WP 368TP 078TP 078ThP 1525ThP 595ThP 620ThP 620ThP 621ThP 219ThP 219ThP 224MOG pm 4:10TOE am 09:50ThP 589MOB pm 3:50TOE am 09:10TP 253WP 587TOE am 09:10TP 253WP 587TP 581TP 367TP 562TP 562TP 387
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metalf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metrakos, Peter Metvally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O. Metz, Thomas O. Meunier, David. Meuwis, Marie-Alice. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Klaus Meyer, Markus Meyer, Markus Meyer, Matthew R.	WP 368
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metcalf, William Metha, Sajjan Singh Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O. Metz, Thomas O. Meunier, David Meuwis, Marie-Alice. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kalus Meyer, Matthew R. Meyer, Matthew R.	WP 368TP 078TP 078ThP 1525ThP 595ThP 620ThP 621WP 381 MOA am 09:50ThP 219ThP 224MOG pm 4:10TOE am 09:50 WOA am 09:50ThP 589MOB pm 3:50TP 253WP 587 ThOB am 09:10TP 253WP 587 ThOB am 09:10TP 589TP 581TP 253TP 253TP 253TP 253TP 253TP 581TP 387ThP 188TP 387ThP 188TP 387
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metalf, William Metha, Sajjan Singh Metrakos, Peter Metwally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O. Metz, Thomas O. Meunier, David. Meuwis, Marie-Alice. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Klaus Meyer, Matthew R.	WP 368TP 078TP 078TP 078ThP 1525ThP 595ThP 620ThP 621WP 381 MOA am 09:50ThP 219ThP 224MOG pm 4:10TOE am 09:50 WOA am 09:50ThP 589TP 253WP 587 FhOB am 09:10TP 581TP 387TP 387TP 387TP 168TP 387TP 168TP 387TP 168TP 387TP 168TP 387TP 168
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metadf, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metrakos, Peter Metz, Haidy Metz, Thomas O. Meunier, David Meuwis, Marie-Alice. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Klaus Meyer, Matthew R. Meyer, Matthew R. Meyer, Matvin Meyer, Marvin Meyers, Marvin Meyers, Marvin Meyers, Marvin Meyernis, Allysen.	WP 368
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Mestadeq, Younes Metal, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metrakos, Peter Metrakos, Peter Metz, Thomas Metz, Thomas Metz, Thomas O. Metz, Thomas O. Metz, Thomas O. Meunier, David Meuwis, Marie-Alice Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Klaus Meyer, Matthew R. Meyer, Matthew R. Meyer, Matthew R. Meyers, Matvin Meymaris, Allysen. Mi, Yiling	WP 368
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Messaddeq, Younes Metsaddeq, Younes Metsaddeq, Younes Metally, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metrakos, Peter Metvally, Haidy Metz, Bernard Metz, Thomas Metz, Thomas O. Metz, Thomas O. Meunier, David. Meuwis, Marie-Alice. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Klaus Meyer, Markus Meyer, Matthew R. Meyers, Martin Meymaris, Allysen. Mi, Yiling Mi, Yiling Mi, Yiling	WP 368TP 078TP 078ThP 1525ThP 525ThP 620ThP 620ThP 621ThP 621ThP 219ThP 219ThP 224MOG pm 4:10ThP 589MOB pm 3:50ThP 589MOB pm 3:50ThP 589MOB pm 3:50TP 253MP 937TP 367TP 168MP 007TP 581TP 387TP 168MP 627WP 370TP 522TP 521TP 161TP 161
Meske, Diana Mesker, Wilma E. Mesmer, Mantai Z. Mess, Jean-Nicholas Mestadeq, Younes Metal, William Metha, Sajjan Singh Metrakos, Peter Metrakos, Peter Metrakos, Peter Metrakos, Peter Metz, Thomas Metz, Thomas Metz, Thomas O. Metz, Thomas O. Metz, Thomas O. Meunier, David Meuwis, Marie-Alice Meyer, Kevin W. Meyer, Kevin W. Meyer, Kevin W. Meyer, Klaus Meyer, Matthew R. Meyer, Matthew R. Meyer, Matthew R. Meyers, Matvin Meymaris, Allysen. Mi, Yiling	WP 368



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Michailidis, George	MOB pm 2:50
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Michalski, Annette	ThOB am 08:30
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Michel, Martin	ThOC am 00:50
witcher, Martin	. 1110G alli 06.50
Michelmann, Karsten	MP 147
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Michelucci, Elena	WP 670
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Mihlan, Michael	
Miingi, Nyokabi	WP 120
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Mikaia, Anzor	
Mikhailov, Victor A	MOC am 09:10
Mikkonen, Saara	MD 004
Mikkonen, Saara	WP 459
Mikyška, Alexandr	ThD 227
minyana, Aichailui	1117 441
Milagre, Humberto	
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Mileant, Alexander	TP 383
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Miller, Emily	TOH am 09:10
Miller, Haley S	MP 683
Miller, Haylea	
Miller, Jeffrey D	MP 341
Miller, Keith	
Miller, Lance	MP 029
Miller, Lance	MP 030
MAPIN I	
	TD 021
Miller, Lance	
Miller, Logan	ThP 291
Miller, Logan Miller, Luke	ThP 291 WP 201
Miller, Logan Miller, Luke Miller, R.J. Dwayne	ThP 291 WP 201 TP 564
Miller, Logan Miller, Luke Miller, R.J. Dwayne	ThP 291 WP 201 TP 564
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A	ThP 291 WP 201 TP 564 . ThOG am 10:10
Miller, Logan	ThP 291 WP 201 TP 564 . ThOG am 10:10 MP 352
Miller, Logan	ThP 291 TP 201 TP 564 . ThOG am 10:10 MP 352 TOH am 09:10
Miller, Logan	ThP 291WP 201TP 564 . ThOG am 10:10MP 352TOH am 09:10
Miller, Logan	ThP 291WP 201TP 564 . ThOG am 10:10MP 352TOH am 09:10
Miller, Logan	ThP 291 WP 201 TP 564 .ThOG am 10:10 MP 352 TOH am 09:10 ThP 514
Miller, Logan	ThP 291WP 201P 564 .ThOG am 10:10MP 352TOH am 09:10ThP 514MP 559TP 278
Miller, Logan	ThP 291WP 201TP 564 .ThOG am 10:10MP 352TOH am 09:10ThP 514MP 559TP 278TP 409
Miller, Logan	ThP 291WP 201TP 564 .ThOG am 10:10MP 352TOH am 09:10ThP 514MP 559TP 278TP 409
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David	ThP 291ThP 201TP 564ThOG am 10:10MP 352TOH am 09:10ThP 514MP 559TP 278TP 409WP 240
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David	ThP 291ThP 291
Miller, Logan	ThP 291ThP 201TP 564ThOG am 10:10MP 352TOH am 09:10ThP 514MP 559TP 278TP 409WP 240MP 561MP 561
Miller, Logan	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 MP 559 TP 278 TP 409 WP 240 MP 561 MP 524 MP 610
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Russell Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Mills, John Milovancev, Milan Mims, Jade Min, Li	ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng	ThP 291ThP 201TP 564TP 564ThOG am 10:10MP 352TOH am 09:10ThP 514MP 559TP 278TP 409WP 240MP 561MP 524MP 610ThP 300
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Russell Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Mills, John Milovancev, Milan Mims, Jade Min, Li	ThP 291ThP 201TP 564TP 564ThOG am 10:10MP 352TOH am 09:10ThP 514MP 559TP 278TP 409WP 240MP 561MP 524MP 610ThP 300
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Rossell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, David Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 MP 559 TP 278 TP 409 WP 240 MP 561 MP 561 MP 610 ThP 300 WP 116 WP 571 WP 571 WP 161 WP 571 WP 424
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, David Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 MP 559 TP 278 TP 409 WP 240 MP 561 MP 561 MP 610 ThP 300 WP 116 WP 571 WP 571 WP 161 WP 571 WP 424
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Russell Miller, Rosott Miller, Russell Miller, Russell Miller, Russell Miller, Russell Miller, Russell Miller, Scott Miller, Scott Miller, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, David Mills, David Mills, John Milovancev, Milan Minovancev, Milan Min, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minardi, Carina Minett, Andrew	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 MP 559 TP 278 TP 409 WP 240 MP 561 MP 561 MP 561 MP 573 ThP 300 WP 116 WP 537 Th 963
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Russell Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Scott Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minett, Andrew	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Scott Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minett, Andrew	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Russell Miller, Scott. Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John. Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minartt, Andrew Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Rossell Miller, Scott Miller, Scott Miller, Scott Miller, Arnaud Mills, Clare Mills, David Mills, John Milovancev, Milan Mins, Jade Min, Li Min, Meng Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 ThP 514 MP 559 TP 278 TP 409 WP 240 MP 561 MP 524 MP 610 ThP 300 WP 116 WP 537 ThP 061 WP 424 MP 363 WP 002 WP 093 MOD pm 2:50 TP 415
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Scott Miller, Arnaud Milligan, Daniel Mills, David Mills, David Mills, David Mills, David Mills, John Milovancev, Milan Mins, Jade Min, Li Min, Meng Min, Li Min, Meng Min, Carina Minardi, Carina Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine E Minohata, Toshikazu	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 MP 559 TP 278 TP 409 WP 240 MP 561 MP 564 MP 610 ThP 300 WP 116 WP 57 ThP 061 WP 424 MP 363 WP 002 WP 093 MOD pm 2:50 TP 415 ThP 177
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Rossell Miller, Scott Miller, Scott Miller, Scott Miller, Arnaud Mills, Clare Mills, David Mills, John Milovancev, Milan Mins, Jade Min, Li Min, Meng Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 MP 559 TP 278 TP 409 WP 240 MP 561 MP 564 MP 610 ThP 300 WP 116 WP 57 ThP 061 WP 424 MP 363 WP 002 WP 093 MOD pm 2:50 TP 415 ThP 177
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Russell Miller, Scott Miller, Scott Millet, Arnaud Milligan, Daniel Mills, David Mills, John Milovancev, Milan Mins, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine E Minohata, Toshikazu Minohata, Toshikazu	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Scott Miller, Milligan, Daniel Mills, David Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine E Minohata, Toshikazu Minhata, Toshikazu Mintseris, Julian	ThP 291ThP 291
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Russell Miller, Rosott Miller, Scott Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine E Minohata, Toshikazu Mintseris, Julian Mintz, Keith	ThP 291 WP 201
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Scott Miller, Milligan, Daniel Mills, David Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine E Minohata, Toshikazu Minhata, Toshikazu Mintseris, Julian	ThP 291 WP 201
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Russell Miller, Rosott. Miller, Scott. Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John. Milovancev, Milan. Mims, Jade Min, Li. Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minartt, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine E. Minohata, Toshikazu Minhateris, Julian Mintz, Keith Mirabelli, Mario Francesco	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 ThP 514 MP 559 TP 278 TP 409 WP 240 MP 561 MP 524 MP 610 ThP 300 WP 116 WP 537 ThP 061 WP 424 MP 363 WP 002 WP 093 MOD pm 2:50 TP 415 ThP 177 ThP 251 MOF am 09:10 TP 597 WOA pm 3:10
Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A Miller, Russell Miller, Russell Miller, Russell Miller, Rosott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, David Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine Minogue, Catherine E. Minohata, Toshikazu Minhateris, Julian Mints, Keith Mirabelli, Mario Francesco Mirali, Mahla	ThP 291 WP 201 TP 564 ThOG am 10:10 MP 352 TOH am 09:10 ThP 514 MP 559 TP 278 TP 409 WP 240 MP 561 MP 524 MP 610 ThP 300 WP 116 WP 537 ThP 061 WP 424 MP 363 WP 002 WP 093 MOD pm 2:50 TP 415 ThP 177 ThP 251 MOF am 09:10 TP 597 WOA pm 3:10 MP 489
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Miller, Logan Miller, Luke Miller, R.J. Dwayne Miller, Ronald A. Miller, Russell Miller, Russell Miller, Russell Miller, Rosott Miller, Scott Miller, Scott Millet, Arnaud Milligan, Daniel Mills, Clare Mills, Javid Mills, John Milovancev, Milan Mims, Jade Min, Li Min, Meng Min, Qianhao Minardi, Carina Minardi, Carina Minarti, Andrew Minett, Andrew Minett, Andrew Minett, Andrew Minogue, Catherine E Minohata, Toshikazu Mintseris, Julian Mintz, Keith Mirabelli, Mario Francesco Mirali, Mahla Miranda, Cristobal Miranda, Cristobal Mirnezami, Reza	ThP 291 WP 201
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Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moraes de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. Moreau, Stephane Moreau, Stephane Moreau, Stephane Moreau-Guigon, Elodie Morelli, Melinda Moremen, Kelley W. Morency, Steeve. Moren Pedraza, Abigail	MP 319 MP 549 MP 050 WP 345 WP 145 MP 170 WP 189 WP 189 MP 180 MP
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moraes de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. Moreau, Stephane Moreau, Stephane Moreau, Stephane Moreau-Guigon, Elodie Morelli, Melinda Moremen, Kelley W. Morency, Steeve. Moren Pedraza, Abigail	MP 319 MP 549 MP 050 WP 345 WP 145 MP 170 WP 189 WP 189 MP 180 MP
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moraes de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. Moreau, Stephane Moreau, Stephane Moreau, Stephane Moreau-Guigon, Elodie Morelli, Melinda Moremen, Kelley W. Morency, Steeve. Moren Pedraza, Abigail Moresco, James J.	MP 319 MP 549 MP 050 WP 345 WP 145 MP 170 WP 189 WP 189 MP 180 MP 430 MP 430 MP 433 WOE am 09:30
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Moore, Raymond	MP 319 MP 549 MP 549 WP 345 WP 133 WP 145 MP 370 WP 188 igo TP 228 ThP 180 TP 364 WP 364 WP 303 MP 126 MP 132 ThP 641 TP 344 TP 315 WP 053 TOG am 09:50 TP 667 ThOF pm 4:10 MOA am 09:50 WP 433 WOE am 09:30
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh Moorthy, Ganesh Moosthy, Ganesh Moos, Martin Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Alaw Moradian, Alaw Mordehai, Alex Mordehai, Alex Mordehai, Alex More, Hanna Moreau, Stephane Moreau, Stephane Moreau, Guigon, Elodie Morelii, Melinda Morency, Steeve Moreno Pedraza, Abigail Moresco, James J. Morgan, Scott Morgan, Scott Morgan, Scott	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 128 ThP 180 TP 364 WP 309 MP 126 MP 132 ThP 641 TP 315 WP 053 TOG am 09:50 THOF pm 4:10 MOA am 09:50 WP 433 WOE am 09:30 TP 068 TP 068
Moore, Raymond	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 198 igo TP 228 ThP 180 MP 329 MP 126 MP 132 ThP 641 TP 344 TP 315 WP 053 TOG am 09:50 WP 433 WOE am 09:50 TP 068 TP 068 TP 068
Moore, Raymond	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 198 igo TP 228 ThP 180 MP 329 MP 126 MP 132 ThP 641 TP 344 TP 315 WP 053 TOG am 09:50 WP 433 WOE am 09:50 TP 068 TP 068 TP 068
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moothy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moradian, Annie. Morades de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna Moreau, Stephane Moreau, Stephane Moreau-Guigon, Elodie Morelli, Melinda Morenen, Kelley W. Morency, Steeve. Moreno Pedraza, Abigail Moresco, James J. Morgan, Scott Morgan, Scott Morgenstern, David. Morgenstern, David.	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 128 ThP 180 MP 309 MP 126 MP 132 ThP 641 TP 344 TP 315 WP 053 TOG am 09:50 MP 433 WOE am 09:30 TP 068 TP 068 TP 068 TP 066 ThOB am 10:10
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moraes de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna Moreau, Stephane Moreau-Guigon, Elodie Morelli, Melinda Moremen, Kelley W. Morency, Steeve Moreno Pedraza, Abigail Moresco, James J. Morgan, Scott Morgan, Scott Morgenstern, David. Morgenstern, David. Morgenstern, David.	MP 319 MP 549 MP 050 WP 345 WP 145 MP 170 WP 189 MP 180 MP
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moraes de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna Moreau, Stephane Moreau-Guigon, Elodie Morelli, Melinda Moremen, Kelley W. Morency, Steeve Moreno Pedraza, Abigail Moresco, James J. Morgan, Scott Morgan, Scott Morgenstern, David. Morgenstern, David. Morgenstern, David.	MP 319 MP 549 MP 050 WP 345 WP 145 MP 170 WP 189 MP 180 MP
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Moore, Raymond	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 128 ThP 180 TP 364 WP 309 MP 126 MP 132 ThP 641 TP 315 ThP 641 TP 315 TOG am 09:50 TP 667 ThOF pm 4:10 MOA am 09:50 TP 068 TP 064 THOB am 10:10 ThP 373 WP 636 THOB am 10:10 MP 373
Moore, Raymond	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 128 ThP 180 TP 364 WP 309 MP 126 MP 132 ThP 641 TP 315 ThP 641 TP 315 TOG am 09:50 TP 667 ThOF pm 4:10 MOA am 09:50 TP 068 TP 064 THOB am 10:10 ThP 373 WP 636 THOB am 10:10 MP 373
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moosthy, Ganesh. Moradian, Annie. Moradian, Annie. Moradian, Annie. Moradian, Annie. Moradian, Annie. Morades de Oliveira, Anderson Rodr Morais, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna. Moreau, Stephane Morent, Melinda Morli, Melinda Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, Stephanie. Morin, Gregg.	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 198 igo TP 228 ThP 180 MP 329 MP 126 MP 132 ThP 641 TP 344 TP 315 WP 053 TOG am 09:50 WP 433 WOE am 09:50 WP 433 WOE am 09:50 TP 064 ThOB am 10:10 ThP 373 WP 666 WP 666 WP 666 WP 666 WP 666
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin Moradian, Annie. Moradian, Annie. Moradian, Annie. Moradias, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna. Moreau, Stephane. Moreno, Steve. Moreno Pedraza, Abigail. Moresco, James J. Morgan, Scott. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, Stephanie. Morin, Gregg. Morin, Louis-Philippe.	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 198 MP 198 MP 128 MP 132 ThP 180 MP 132 ThP 641 TP 315 WP 053 TOG am 09:50 WP 433 WOE am 09:30 TP 064 ThOB am 10:10 MDA am 10:10
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin Moradian, Annie. Moradian, Annie. Moradian, Annie. Moradias, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna. Moreau, Stephane. Moreno, Steve. Moreno Pedraza, Abigail. Moresco, James J. Morgan, Scott. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, Stephanie. Morin, Gregg. Morin, Louis-Philippe.	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 198 MP 198 MP 128 MP 132 ThP 180 MP 132 ThP 641 TP 315 WP 053 TOG am 09:50 WP 433 WOE am 09:30 TP 064 ThOB am 10:10 MDA am 10:10
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moradian, Annie. Moraes de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna Moreau, Stephane Moreno, Steeve Moreno Pedraza, Abigail Morgan, Scott Morgan, Scott Morgan, Scott Morgenstern, David Morgenstern, David Morgenstern, David Morgenstern, David Morgenstern, Stephanie Morin, Gregg Morin, Louis-Philippe Moritz, Robert	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 128 ThP 180 MP 309 MP 126 MP 132 ThP 641 TP 344 TP 315 WP 053 TOG am 09:50 MP 126 MP 132 ThO F pm 4:10 MOA am 99:50 MP 130 MP 666 MP 130 MP 686 MP 565 MP 555 TOB pm 3:10
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moraes de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna Moreau, Stephane Morenen, Kelley W. Morency, Steeve Moreno Pedraza, Abigail Morgan, Scott Morgan, Scott Morgan, Scott Morgenstern, David. Morgenstern, Stephanie Moritz, Robert Moritz, Robert	MP 319 MP 549 MP 549 MP 549 WP 345 WP 133 WP 145 MP 370 WP 188 GROWN MP 188 MP 198 MP 126 MP 132 MP 132 MP 133 MP 126 MP 132 MP 667 ThOF pm 4:10 MOA am 09:50 MP 667 ThOF pm 4:10 MOA am 09:30 MP 668 MP 168 MP 168 MP 168 MP 168 MP 168 MP 169 MP 168 MP 169 MP 169 MP 150 ThO 101 MP 337 MP 686 MP 169 MP 169 MP 150 ThO 101 MP 373 MP 168 MP 169 MP 169 MP 169 MP 150 TOB pm 3:10 MP 331
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moorthy, Ganesh. Moos, Martin. Moradian, Annie. Moradian, Annie. Moraes de Oliveira, Anderson Rodr Morals, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna Moreau, Stephane Morenen, Kelley W. Morency, Steeve Moreno Pedraza, Abigail Morgan, Scott Morgan, Scott Morgan, Scott Morgenstern, David. Morgenstern, Stephanie Moritz, Robert Moritz, Robert	MP 319 MP 549 MP 549 MP 549 WP 345 WP 133 WP 145 MP 370 WP 188 GROWN MP 188 MP 198 MP 126 MP 132 MP 132 MP 133 MP 126 MP 132 MP 667 ThOF pm 4:10 MOA am 09:50 MP 667 ThOF pm 4:10 MOA am 09:30 MP 668 MP 168 MP 168 MP 168 MP 168 MP 168 MP 169 MP 168 MP 169 MP 169 MP 150 ThO 101 MP 337 MP 686 MP 169 MP 169 MP 150 ThO 101 MP 373 MP 168 MP 169 MP 169 MP 169 MP 150 TOB pm 3:10 MP 331
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh Moorthy, Ganesh Moosthy, Ganesh Moos, Martin Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Alamia Morales-Soto, Nydia Moran, Dawn Mordehai, Alex Mordehai, Alex Mordehai, Alex Moreau, Stephane Moreau, Stephane Moreau-Guigon, Elodie Morelii, Melinda Morency, Steeve Moreno Pedraza, Abigail Moresco, James J. Morgan, Scott Morgan, Scott Morgenstern, David Morgenstern, Stephanie Moritz, Robert Moritz, Robert Moritz, Robert Moritz, Robert Moritz, Robert	MP 319 MP 549 MP 549 MP 549 WP 133 WP 145 MP 370 WP 188 WP 188 ThP 180 TP 364 WP 309 MP 126 MP 132 ThP 641 TP 315 WP 053 TOG am 09:50 MP 1667 ThOF pm 4:10 MOA am 09:50 TP 068 MP 1666 WP 686 WP 686 WP 686 WP 686 MP 565 ThO B pm 3:10 WP 324 ThP 441
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh Moorthy, Ganesh Moosthy, Ganesh Moos, Martin Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Alamid Morales-Soto, Nydia Moran, Dawn Mordehai, Alex Mordehai, Alex Mordehai, Alex More, Hanna Moreau, Stephane Moreau, Stephane Moreau, Gligon, Elodie Morelli, Melinda Moreno, Pedraza, Abigail Moresco, James J. Morgan, Scott Morgan, Scott Morgan, Scott Morgenstern, David	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 128 ThP 180 MP 364 WP 309 MP 126 MP 132 MP 133 MOE am 09:50 MP 130 MP 131 MP 051 MP 053 MP 130 MP
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Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh. Moosthy, Ganesh. Moos, Martin Moradian, Annie. Moradian, Annie. Moradian, Annie. Morades de Oliveira, Anderson Rodr Morais, Damila. Morales-Soto, Nydia. Moran, Dawn. Mordehai, Alex. Mordehai, Alex. Mordehai, Alex. More, Hanna. Moreau, Stephane. Moreau, Stephane. Moreau-Guigon, Elodie. Morelli, Melinda. Moremo, Kelley W. Morency, Steeve. Moreno Pedraza, Abigail. Moresco, James J. Morgan, Scott. Morgan, Scott. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, David. Morgenstern, Stephanie. Morenstern, Stephanie. Morgenstern, Stephanie. Morgenstern, Stephanie. Moritz, Robert. Moritz, Robert	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 198 MP 198 MP 128 MP 132 ThP 180 MP 132 ThP 641 TP 344 TP 315 WP 053 TOG am 09:50 WP 433 WOE am 09:30 TP 064 ThOB am 10:10 MOA am 10:50 WP 433 WOE am 09:30 TP 064 ThOB am 10:10 MOA am 10:50 WP 433 WOE am 09:30 TP 064 ThOB am 10:10
Moore, Raymond Moore, Ronald J. Moore, Ronald J. Moorthy, Ganesh Moorthy, Ganesh Moosthy, Ganesh Moos, Martin Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Annie Moradian, Alamid Morales-Soto, Nydia Moran, Dawn Mordehai, Alex Mordehai, Alex Mordehai, Alex More, Hanna Moreau, Stephane Moreau, Stephane Moreau, Gligon, Elodie Morelli, Melinda Moreno, Pedraza, Abigail Moresco, James J. Morgan, Scott Morgan, Scott Morgan, Scott Morgenstern, David	MP 319 MP 549 MP 050 WP 345 WP 133 WP 145 MP 370 WP 189 MP 198 MP 128 MP 130 MP 128 MP 131 MP 309 MP 126 MP 132 ThP 641 ThP 315 WP 053 TOG am 09:50 WP 433 WOE am 09:30 MP 126 MP 132 ThO B am 10:10 MOA am 10:50 MP 433 WOE am 09:30 MP 666 ThO B am 10:10 MOA am 10:10 MOA am 10:10 MOA am 10:30 MP 635 TOB m 3:10 MP 636 MP 541 ThP 431 MP 357 TOB pm 3:10 MP 324 MP 324 MP 436



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Morris, Caleb B		Mukherjee, Sumanta		Musah, Rabi A	
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Morris, Jason C		Mulier, Kristine		Musier-Forsyth, Karin	
Morris, Michael		Mullen, Christopher		Muskat, Tassilo	
Morris, Michael		Mullen, Christopher		Muskat, Tassilo Mussa, Nesredin	
Morris, Mike		Mullen, Christopher			
Morris, Mike		Mullen, Christopher		Mussell, Christopher	
Morris, Mike		Mullen, Christopher		Musselman, Brian	
Morris, Mike		Müllen, Klaus Mullens, Conor		Musselman, Brian D Musselman, Brian D	
Morris, Mike		Mullens, Conor		Mustapha, Adetayo	
Morris, Nicholas		Mullens, Conor		Mustroph, Martina	
Morris, Nicholas		Muller, Ludovic		Musuku, Adrien	
Morris, Nicholas		Muller, Ludovic		Mutava, Raymond	
Morris, Nicholas		Muller, Ludovic		Müthing, Johannes	
Morris, Nicholas		Muller, Ludovic		Mutschlechner, Paul	
Morrison, Kelsey		Müller, Miriam		Muzemil, Hanan	
Morrison, Kelsey A		*			
Morrison, Lindsay		Mulligan, Christopher Mulligan, Christopher		Myatt, Leslie Myers, Robert	
Morrison, Lindsay J		Mullin, Lauren		Myler, Heather	
Morrison, Sean		Mullin, Lauren		Myler, Heather	۱۸/D ۶۶۶
Morrow, Casey M		Mullin, Lauren		Mylonas, Roman	
Morsa, Denis		Mulvana, Daniel		Mylott, William	
Morsa, Denis		Muneeruddin, Khaja		Mylott, William R	
Morsa, Denis		Mung, Dorothea		Mylott, William R	
Morsa, Denis		Munger, Eleanor		Mysling, Simon	
Mortishire, Russell		Munigunti, Ranjith		Myung, Kyung	
Mortishire-Smith, Russell		Munigunti, Ranjith		Myung Chul, Kim	
Mortishire-Smith, Russell		Munk, Stephanie		Na, Seungjin	MOR am 00:10
Mortishire-Smith, Russell		Munoz-Sanjuan, Ignacio		Nadeau, Owen W	
Mortz, Jean-Michel		Muntean, Felician		Naef, Fèlix	
Moseley, Arthur		Muntel, Jan		Naes, Benjamin	
Moseley, Arthur		Muntel, Jan		Nagaraju, Kanneboyina	
Moseley, M Arthur		Muntel, Jan		Nagatomi, Yasushi	
Mosely, Jackie		Muraca, Patrick		Nagel, Alexis	
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Moskovets, Eugene		Muradia, Gauri		Nagornov, Konstantin	
Moskovets, Eugene		Murakami, Hiroya		Nagornov, Konstantin O	
Moskovets, Eugene		Muralimanoharan, Sribalasub		Nagornov, Konstantin O	
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Moss, Katherine		Murayama, Shigeo		Nagy, Gabe	
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Mroz, Anna		Murphy, Jim		Nakamura, Takemichi	
Mróz, Anna		Murphy, Keeley		Nakamura, Tomoyuki	
Mrzic, Aida		Murphy, Keeley		Nakamura, Toshio	
Muccio, Donald		Murphy, Keeley		Nakanishi, Hiroaki	
Muccio, Donald		Murphy, Steve		Nakanishi, Tsuyoshi	
Muddiman, David		Murphy, Steve		Nakanishi, Tsuyoshi	
Muddiman, David		Murphy, Steve		Nakaya, Shuichi	
Muddiman, David C		Murray, Clinton		Nakaya, Shuuichi	
Muddiman, David C		Murray, David		Nakayama, Daisuke	
Muddiman, David C		Murray, Jacolin		Nakayama, Hiroshi	
Muddiman, David C		Murray, Jessica		Nakayama, Hiroshi	
Muddiman, David C		Murray, Justin		Nakazawa, Takashi	
Muddiman, David C		Murray, Kermit K		Nakazono, Yukiko	
Mudhar, Hardeep S		Murray, Kermit K		Nallapeta, Sivaramaiah	
Mueller, David		Murray, Kermit K		Nally, Jarlath	
Mueller, David		Murray, Kermit K		Nam, Miso	
Mueller, David		Murray, Kermit K		Nam, Miso	
Mueller, Geoffrey A		Murray, Kermit K		Nam, Younwoo	
Mueller, Judith	MP 619	Murray, Kermit K		Náměstek, Ladislav	
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Narla, Goutham		Newsome, G. Asher		Nikolic, Dejan	
Nascimento, Heliara		Newton, Ken		Nikolic, Dejan	
Nascimento, Heliara D. Lopes		Newton, Richard		Nikolos, loannis	
Nascimento, Heliara Lopes		Neyer, David		Nilsson, Anna	
Naser, Fuad		Neyer, David		Nilsson, Anna	
Nash, John J.		Nezami Ranjbar, Mohammad R		Nilsson, Anna	
Nash, Tara Nashed-Samuel, Yasser		Nezami Ranjbar, Mohammad R Nezami Ranjbar, Mohammad R		Nilsson, Anna Nilsson, Anna	
Natarajan, Nivedita		Nezami Ranjbar, Mohammad R		Nilsson, Anna	
Nath, Nidhi		Ng, Andrew		Nilsson, Carol	
Nath, Nidhi		Ng, Daniel		Nilsson, Erik	
Nathe, Cory		Ng, Say Kong		Nilsson, Erik	
Natividad, Luis		Ng, Tsz-Tsun		Nilsson, Erik	
Natividad, Luis		Ngo , Tuan		Nilsson, Roland	
Natowicz, Marvin R		Ngounou, Armand		Nilsson, Tommy	
Nau, Frederic		Ngounou Wetie, Armand G		Nimer, Refat	
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Navarro, Pablo		Nguyen, Hien		Nirasawa, Takashi	
Navratilova, Edita		Nguyen, Hong Hanh		Nirasawa, Takashi	
Nayak, Ajay P		Nguyen, Hong Hanh		Nirudodhi, Sasidhar N	
Nayak, Shruti		Nguyen, Huong (Ivy) T. H		Nirujogi, Raja Sekhar	
Nazari, Milad		Nguyen, Lieu		Nirujogi, Raja Sekhar	
Nazari, Milad		Nguyen, Phuong		Nishiguchi, Takao	
Nazarov, Erkinjon		Nguyen, Thinh		Nishiguchi, Takao	
Ndah, Elvis		Nguyen, Victoria		Nishikaze, Takashi	
Nebl, Thomas		Nguyen-Huynh, Nha-Thi		Nishikaze, Takashi	
Neely, Benjamin		Ni, Chi-Kung		Nishikaze, Takashi	
Neely, Benjamin A		Ni, Chi-Kung		Nishimura, Kazushige	
Neffling, Milla Diina		Ni, Chi-Kung		Nishimuta, Rie	
Neffling, Milla-Riina Neil, Jason		Nichols, Charles Nichols, Kelly		Nishiumi, Shin Nislow, Corey	
Neil, Jason		Nichols, William		Nita-Lazar, Aleksandra	
Neil, Jason		Nicholson, Jeremy		Niu, Ben	
Neil, Jason		Nickel, Alex A.		Niu, Ben	
Nelp, Micah		Nicklay, Joshua		Niu, Shuai	
Nelson, Carissa R	ThP 318	Niclou, Simone. P		Niwayama, Satomi	
Nelson, Carissa R		Nicol, Édith		Nixon, Peter	
Nelson, Christopher A		Nicolardi, Simone		Nnodum, Nwanyinma	
Nelson, Christopher A		Nicolardi, Simone	TP 078	Noble, William	ThP 433
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Nelson, Michael	MP 321	Nicora, Carrie D	WP 345	Noel, Brett	TP 581
Nelson, Robert	MP 664	Nie, Aiying	TP 587	Nofsinger, Brian	ThP 344
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Nemes, Peter	MP 357	Nie, Litong	ThP 546	Nogueira, Fabio CS	ThP 576
Nemes, Peter		Nie, Zongxiu		Nogueira Eberlin, Marcos	
Nemes, Peter		Niederkofler, Eric		Noh, Joo-Yoon	
Nemes, Peter		Niederkofler, Eric		Noin De Oliveira, Diogo	
Nemes, Peter		Nielen, Michel W	•	Nolan, Tom	
Neo, Edmond		Nielen, Michel W.F.		Nold, Michael J	
Neoh, Koon Gee		Nielsen, B.V.		Nolting, Dirk	
Nerin, Cristina		Nielsen, Boye S		Nomerotski, Andre	
Nessen, Merel		Nielsen, Jörn		Nong, Andy	
Nessen, Merel		Nielsen, Michael L		Nony, Emmanuel	
Nesvizhskii, Alexey		Nielsen, Michael L		Nookaew, Intawat	
Nesvizhskii, Alexey		Nielsen, Michael L		Noon, Brigit	
Nesvizhskii, Alexey Nesvizhskii, Alexey	17 14/	Niepel, Mario Niepel, Mario		Noor, Asif Norby, Richard J	
Nesvizhskii, Alexey		Nierengarten, Hélène		Noren, Carl	
Nesvizhskii, Alexey		Nieto, Sofia		Norheim, Randolph	
Nesvizhskii, Alexey		Nieto, Sofia		Norheim, Randolph V	
Nesvizhskii, Alexey	WP 320	Nieto, Sofia		Norheim, Randolph V	
Neta, Pedatsur		Nightingale, Daniel J. H		Normark, Johan	
Nethero, William		Niimi, Hironobu		Norrby, Per-Ola	
Neto, Giuseppe Bruno		Nijholt, Diana		Norris, Jeremy L	
Neubert, Hendrik		Nikitin, Gennady		Norris, Jeremy L	
Neubert, Thomas		Nikolaev, Eugene		Norris, Jeremy L	
Neubert, Thomas		Nikolaev, Eugene		Norris, Jeremy L	
Neubert, Thomas		Nikolaev, Eugene		Norris, Jeremy L	
Neumann, Elizabeth		Nikolaev, Eugene		Norris, Jeremy L	
Neupärtl, Moritz		Nikolaev, Eugene	ThOA pm 3:30	Norris, Jeremy L	WP 541



Northen, Trent	
Northen, Trent	
Northen, Trent	
Noto, Michael	
Nott, Alexi	
Noun, Manale	
Nouta, Jan	
Novak, Jan	
Novak, Jan	
Novak, Petr	ThP 472
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Novick, Scott	
Novoselov, Konstantin Novoselov, Konstantin	
Nshanian, Michael	
Ntai, loanna	
Ntai, loanna	
Ntai, loanna	
Nunez, Kavin	
Nuñez, Alberto	
Núñez Galindo, Antonio	
Nurkiewicz, Timothy	
Nye, Leanne C.	
Nylandsted Krogh, Thomas	ThP 558
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O'brien, John	
O'Brien, Jonathon	
O'Brien, Jonathon	
O'Brien, Jonathon	
O'Brien, Robert O'Brien Johnson, Reid	
O'Callaghan, Lisa	
	ThOU nm 2.50
Ochiai, Midori	ThP 238
Ochiai, Midori O'Connor, Peter B	ThP 238
Ochiai, Midori O'Connor, Peter B O'connor, Peter B	MOC pm 3:10 MP 209
Ochiai, Midori O'Connor, Peter B	MOC pm 3:10 MP 209 TP 111
Ochiai, Midori O'Connor, Peter B O'connor, Peter B O'connor, Peter B	ThP 238MOC pm 3:10MP 209TP 111MP 600
Ochiai, Midori O'Connor, Peter B O'connor, Peter B O'connor, Peter B O'Connor, Seamus	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560
Ochiai, Midori	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560Th 9521MP 373
Ochiai, Midori	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560Th 521MP 373WP 680
Ochiai, Midori	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560ThP 521MP 373WP 680ThP 465
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R.	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560ThP 521MP 373WP 680ThP 465WP 629
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J. Odwin-DaCosta, Shelly Offenbacher, Adam R. Ogawa, Teppei	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560ThP 521MP 373WP 680ThP 465WP 629MP 415
Ochiai, Midori O'Connor, Peter B O'connor, Peter B O'Connor, Peter B O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J Odwin-DaCosta, Shelly Offenbacher, Adam R Ogawa, Teppei Ogorzalek Loo, Rachel	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560ThP 521MP 373WP 680ThP 465WP 629MP 415
Ochiai, Midori O'Connor, Peter B O'connor, Peter B O'connor, Peter B O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J Odwin-DaCosta, Shelly Offenbacher, Adam R Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 521MP 373WP 680ThP 680TP 465WP 629MP 415ThP 391
Ochiai, Midori O'Connor, Peter B O'connor, Peter B O'connor, Peter B O'Connor, Peter B O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J Odwin-DaCosta, Shelly. Offenbacher, Adam R Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 TP 521 MP 373 WP 680 ThP 465 WP 629 MP 415 ThP 391 ThP 547
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan. Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John.	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 ThP 521 MP 373 WP 680 ThP 465 WP 629 MP 415 ThP 391 ThP 547 TP 437
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan. Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei. Ogorzalek Loo, Rachel. Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John.	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560ThP 521MP 373WP 680ThP 465WP 629MP 415ThP 391ThP 434TP 434TP 434
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J. Odwin-DaCosta, Shelly Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. Ogura, Tairo	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 560ThP 521MP 373WP 680ThP 465WP 629MP 415ThP 391ThP 547TP 434TP 434ThP 297TP 562ThP 606
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo.	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 561MP 373WP 680ThP 465WP 629MP 415ThP 391ThP 547TP 434ThP 297TP 562ThP 606TP 076
Ochiai, Midori O'Connor, Peter B O'connor, Peter B O'connor, Peter B O'Connor, Peter B O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J Odwin-DaCosta, Shelly Offenbacher, Adam R Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R O'Grady, John O'Grady, John O'Grady, John O'Grady, John Ogura, Tairo Ogura, Tairo Ogura, Tairo	ThP 238MOC pm 3:10MP 209TP 111MP 600TP 561MP 373WP 680ThP 465WP 629MP 415ThP 391ThP 391ThP 547TP 434TP 434ThP 297TP 562TP 666TP 076WP 352
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo. Ogura, Tairo Ogura, Tairo. Ogura, Tairo. Ogurtsov, Aleksey.	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 TP 560 ThP 521 MP 373 WP 680 ThP 465 WP 629 MP 415 ThP 391 ThP 547 TP 7562 ThP 606 TP 076 WP 352 TP 139
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan. Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogurtsov, Aleksey. Ogurtsov, Aleksey.	ThP 238MP 209
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan. Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei. Ogorzalek Loo, Rachel. Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo. Ogura, Tairo. Ogura, Tairo. Oguratsov, Aleksey. Ogurtsov, Aleksey. Oh, Han Bin.	ThP 238
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J. Odwin-DaCosta, Shelly Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John O'Grady, John O'Grady, John Ogura, Tairo Ogura, Tairo Ogura, Tairo Oguratsov, Aleksey Ogurtsov, Aleksey Ogntsov, Aleksey Oh, Han Bin Oh, Jooyeon	ThP 238
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan. Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei. Ogorzalek Loo, Rachel. Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo. Ogura, Tairo. Ogura, Tairo. Ogura, Ogurtsov, Aleksey. Ogurtsov, Aleksey. Oh, Han Bin.	ThP 238
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogurtsov, Aleksey. Ogurtsov, Aleksey. Oh, Han Bin. Oh, Jooyeon.	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 TP 560 ThP 521 MP 373 WP 680 ThP 465 WP 629 MP 415 ThP 391 ThP 547 TP 7562 ThP 606 TP 766 WP 352 TP 139 WOB pm 3:30 ThP 314 TP 216 TP 258 TP 258 TP 268 TP 258
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J. Odwin-DaCosta, Shelly Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel O'Grady, John O'Grady, John O'Grady, John Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Valeksey Oh, Han Bin Oh, Jooyeon Oh, Sungwhan O'Hair, Richard A. J. O'hair, Richard A. J.	
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan. Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel. Ogorzalek Loo, Rachel. Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo. Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogurtsov, Aleksey. Ogurtsov, Aleksey. Oh, Han Bin. Oh, Jooyeon. Oh, Sungwhan. O'Hair, Richard A. J. O'hair, Richard A. J.	
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J. Odwin-DaCosta, Shelly Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel O'gorzalek Loo, Rachel O'gorzalek Loo, Rachel O'gorzalek Loo, Rachel O'dellek Loo, Rachel O'	
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogurtsov, Aleksey. Oh, Han Bin. Oh, Jooyeon. Oh, Sungwhan. O'Hair, Richard A. J. O'hair, Richard A. J. O'hair, Richard A. J. O'hair, Richard A. J. Ohana, Dana Ohana, Dana	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 TP 560 ThP 521 MP 373 WP 680 WP 629 MP 415 ThP 391 ThP 547 TP 562 ThP 562 ThP 562 ThP 562 ThP 391 ThP 547 TP 434 ThP 297 TP 562 ThP 606 TP 076 WP 352 TP 139 WOB pm 3:30 ThP 314 TP 258 ThOE am 08:30 TP 047 WOC pm 3:30 WOE pm 3:30 WOE pm 3:50
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ohana, Dana Ohana, Dana Ohana, Dana Ohana, Dana Ohlana, Rachel Ohlmeyer, Michael	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 TP 560 ThP 521 MP 373 WP 680 ThP 465 WP 629 MP 415 ThP 391 ThP 547 TP 562 ThP 666 TP 766 TP 766 TP 139 WO 8 pm 3:30 ThP 314 TP 368 TP 258 ThOE am 08:30 TOD pm 2:30 WOE pm 3:50 TOD pm 2:30 WOE pm 3:50 TP 554
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan. Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei. Ogorzalek Loo, Rachel. Ogorzalek Loo, Rachel. Ogorzalek Loo, Rachel. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo. Ogura, Tairo. Ogura, Tairo. Ogura, Tairo. Ogura, Tairo. Ogurtsov, Aleksey. Oh, Han Bin. Oh, Jooyeon. Oh, Sungwhan. O'Hair, Richard A. J. Ohana, Dana Ohana, Dana Ohana, Rachel. Ohlmeyer, Michael. Ohneck, Elizabeth.	
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J. Odwin-DaCosta, Shelly Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel O'Grady, John O'Grady, John O'Grady, John O'gura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Ogurtsov, Aleksey Oh, Han Bin Oh, Jooyeon Oh, Sungwhan O'Hair, Richard A. J. Ohana, Dana Ohana, Dana Ohana, Rachel Ohlmeyer, Michael Ohneck, Elizabeth Ohtsuki, Sumio	
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John O'Grady, John O'grady, John Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Valeksey Oh, Han Bin Oh, Jooyeon Oh, Sungwhan O'Hair, Richard A. J. O'hair, Richard A. J. O'hair, Richard A. J. Ohana, Dana Ohana, Dana Ohana, Dana Ohnan, Richael Ohlmeyer, Michael Ohneck, Elizabeth Ohtsuki, Sumio. Ohtsuki, Sumio.	
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogurtsov, Aleksey. Ogurtsov, Aleksey. Oh, Han Bin. Oh, Jooyeon. Oh, Sungwhan. O'Hair, Richard A. J. Ohana, Dana Ohana, Dana Ohana, Dana Ohana, Rachel. Ohlmeyer, Michael. Ohneck, Elizabeth. Ohtsuki, Sumio. Oikarinen, Sami.	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 TP 560 ThP 521 MP 373 WP 680 ThP 465 WP 629 MP 415 ThP 391 ThP 547 TP 7562 ThP 606 TP 766 TP 762 ThP 606 TP 768 WP 352 TP 139 WOB pm 3:30 ThP 314 TP 258 ThOE am 08:30 TP 258 THOE am 08:30 TP 258 TOD pm 3:30 WOE pm 3:50 WOE pm 3:50 MP 280 TOD pm 3:30 MP 280 TOB pm 3:10 MP 260
Ochiai, Midori. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogurtsov, Aleksey. Ogurtsov, Aleksey. Oh, Han Bin. Oh, Jooyeon. Oh, Sungwhan. O'Hair, Richard A. J. Ohana, Dana Ohana, Dana Ohana, Pana Ohana, Rachel Ohlmeyer, Michael. Ohtsuki, Sumio. Oikarinen, Sami Oishi, Haruki	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 TP 560 ThP 521 MP 373 WP 680 ThP 465 WP 629 MP 415 ThP 391 ThP 547 TP 562 ThP 606 TP 766 TP 766 TP 776 WP 352 TP 139 WOB pm 3:30 ThP 314 TP 256 TP 258 ThOE am 08:30 TP 258 THOE am 08:30 TP 258 TOD pm 2:30 WOE pm 3:30 WOE pm 3:30 TOD pm 2:30 WOE pm 3:30 TP 547 WP 605 TOD pm 3:30 MP 280 TOB pm 3:10 MP 280 TOB pm 3:10 MP 560 WP 299
Ochiai, Midori. O'Connor, Peter B. O'connor, Peter B. O'connor, Peter B. O'Connor, Peter B. O'Connor, Seamus O'Cualain, Ronan Oda, Yoshiya Odom, Audrey. O'Donnell, Christopher J. Odwin-DaCosta, Shelly. Offenbacher, Adam R. Ogawa, Teppei Ogorzalek Loo, Rachel Ogorzalek Loo, Rachel R. O'Grady, John. O'Grady, John. O'Grady, John. Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogura, Tairo Ogurtsov, Aleksey. Ogurtsov, Aleksey. Oh, Han Bin. Oh, Jooyeon. Oh, Sungwhan. O'Hair, Richard A. J. Ohana, Dana Ohana, Dana Ohana, Dana Ohana, Rachel. Ohlmeyer, Michael. Ohneck, Elizabeth. Ohtsuki, Sumio. Oikarinen, Sami.	ThP 238 MOC pm 3:10 MP 209 TP 111 MP 600 TP 560 ThP 521 MP 373 WP 680 ThP 465 WP 629 MP 415 ThP 391 ThP 547 TP 562 ThP 606 TP 766 TP 766 WP 352 TP 139 WOB pm 3:30 ThP 314 TP 368 TP 258 ThOE am 08:30 TP 047 WOC pm 3:30 TOD pm 2:30 WOE pm 3:50 TP 560 TP 560 TP 047 WO pm 3:30 TOD pm 2:30 MP 280 TOB pm 3:10 MP 280 TOB pm 3:10 MP 280 WP 299 ThP 055

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Okonkwo, Ozioma	
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Okumu, Anna	
Olah, Timothy	
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Old, William	
Old, William	
O'Leary, Pat	
Oleschuk, Richard Olexiouk, Volodimir	. IVIOA am 09.50
Diexiouk, Volodimir	TOP on 09:50
Olinares, Paul Dominic B	100 alli 00.30
Oliveira, Andrey	
Oliveira, Andrey Oliveira, Andrey	
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Organtini, Kari	ThP 123
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O'Shea, Thomas	MP 279
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Oslund, Rob	
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Østergaard, Ole	TP 519
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Ott, Darrin	
Cit , Dallill	
Otto, Mike	MOE pm 3:10
Otto, Mike Otto, Mike	MOE pm 3:10
Otto, Mike Otto, Mike Otto, Paul	MOE pm 3:10 TP 674 TP 550
Otto, Mike Otto, Mike Otto, Paul Ottosson Takanen, Jenny	MOE pm 3:10 TP 674 TP 550 TP 603
Otto, Mike Otto, Mike Otto, Paul Ottosson Takanen, Jenny	MOE pm 3:10 TP 674 TP 550 TP 603
Otto, Mike Otto, Mike Otto, Paul Ottosson Takanen, Jenny Ouyang, Chuanzi	MOE pm 3:10 TP 674 TP 550 TP 603 ThP 653
Otto, Mike Otto, Mike Otto, Paul Ottosson Takanen, Jenny Ouyang, Chuanzi Ouyang, Chuanzi	MOE pm 3:10 TP 674 TP 550 TP 603 ThP 653
Otto, Mike Otto, Mike Otto, Paul Ottosson Takanen, Jenny Ouyang, Chuanzi Ouyang, Chuanzi OuYang, Chuanzi	MOE pm 3:10TP 674TP 550TP 603ThP 653TP 192WP 552
Otto, Mike Otto, Mike Otto, Paul Ottosson Takanen, Jenny Ouyang, Chuanzi Ouyang, Chuanzi OuYang, Chuanzi Ouyang, Chuanzi Ouyang, Zheng	MOE pm 3:10 TP 674 TP 550 TP 603 ThP 653 TP 192 WP 552 MP 034
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 ThP 632 TP 192 WP 552 MP 034 ThOD am 09:10
Otto, Mike Otto, Mike Otto, Paul Ottosson Takanen, Jenny Ouyang, Chuanzi Ouyang, Chuanzi OuYang, Chuanzi Ouyang, Chuanzi Ouyang, Zheng	MOE pm 3:10 TP 674 TP 550 TP 603 ThP 632 TP 192 WP 552 MP 034 ThOD am 09:10
Otto, Mike	MOE pm 3:10TP 674TP 550TP 603TP 192WP 552MP 034 ThOD am 09:10ThOD pm 2:50
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 ThP 028
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 03:4 ThOD am 09:10ThOD pm 2:50 ThP 228 TDE pm 3:10
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 ThO pm 3:10 TOE pm 3:10
Otto, Mike	MOE pm 3:10 TP 674 TP 550 ThP 653 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 ThP 03:10 TP 243 WOE pm 3:10
Otto, Mike	MOE pm 3:10TP 674TP 550TP 603TP 192WP 552MP 031 ThOD pm 2:50ThOD pm 3:10TP 243WOE pm 3:10WOE pm 3:10
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD pm 2:50 ThO pm 3:10 TOE pm 3:10 WOE pm 3:10 WP 436
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 ThE pm 3:10 TP 243 WOE pm 3:10 WP 433 WP 443
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 ThE pm 3:10 TP 243 WOE pm 3:10 WP 433 WP 443
Otto, Mike	MOE pm 3:10TP 674TP 550TP 603TP 192WP 552MP 034 ThOD am 09:10ThOD pm 2:50ThP 028TOE pm 3:10WP 433WP 433
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 ThP 653 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 ThP 028 TOE pm 3:10 TP 243 WOE pm 3:10 WP 436 WP 437 ThP 603
Otto, Mike	MOE pm 3:10TP 674TP 675TP 603TP 192MP 552MP 033ThOD pm 2:50ThP 028TOE pm 3:10WOE pm 3:10WOE pm 3:10WP 436WP 443TP 661WP 437ThP 003
Otto, Mike	MOE pm 3:10TP 674TP 675TP 603TP 192WP 552MP 034 ThOD pm 2:50TP 028TOE pm 3:10WOE pm 3:10WOE pm 3:10WP 436WP 443ThP 661WP 437ThP 003WP 312WP 312TOA am 10:10
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 TND pm 2:50 TND pm 3:10 TP 243 WOE pm 3:10 WP 436 WP 436 WP 437 ThP 003 WP 437 ThP 661 WP 437
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 TP 243 WOE pm 3:10 WP 436 WP 437 ThP 003 WP 317 WP 317 WP 318 WP 437 ThP 661 WP 319 WP 319 WP 319 WP 319 WP 319 WP 319 TOA am 10:10 TP 652 MP 636
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 TP 243 WOE pm 3:10 WP 436 WP 437 ThP 003 WP 317 WP 317 WP 318 WP 437 ThP 661 WP 319 WP 319 WP 319 WP 319 WP 319 WP 319 TOA am 10:10 TP 652 MP 636
Otto, Mike	MOE pm 3:10TP 674TP 575TP 603TP 192WP 552MP 034 ThOD am 09:10ThOD pm 2:50TP 928TOE pm 3:10WP 437TP 661WP 437TP 003WP 312TOA am 10:10TP 656MP 636TP 656
Otto, Mike	MOE pm 3:10TP 674TP 575TP 603TP 192WP 552MP 033ThOD pm 2:50ThE pm 3:10TOE pm 3:10WOE pm 3:10WP 436WP 443ThP 661WP 430WP 430TP 652MP 315
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 TP 192 TP 253 MP 034 TP 1028 TOE pm 3:10 TP 243 WOE pm 3:10 WP 436 WP 436 WP 437 ThP 003 TP 661 WP 437 ThP 315 TOA am 10:10 TP 652 MP 636 MP 636 TP 315 ThP 114
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 TND pm 2:50 TND pm 3:10 TND pm 3:10 TND pm 3:10 TP 243 WOE pm 3:10 WP 436 WP 437 ThP 003 WP 437 ThP 661 WP 437 ThP 636 TP 652 MP 636 TNP 315
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 TP 243 WOE pm 3:10 TP 243 WOE pm 3:10 TP 661 WP 436 WP 437 ThP 003 WP 315 TOA am 10:10 TP 652 MP 636 ThP 315 ThP 114 ThP 372 ThP 482 TP 164
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 TP 243 WOE pm 3:10 TP 243 WOE pm 3:10 TP 661 WP 436 WP 437 ThP 003 WP 315 ThP 114 TP 652 TOA am 10:10 TP 652 TOA m 10:10 TP 652 TOA m 171 TP 614 TP 174 ThP 315 ThP 114 ThP 315 ThP 114 ThP 342 TP 164 WP 050
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 TP 243 WOE pm 3:10 TP 243 WOE pm 3:10 TP 661 WP 436 WP 437 ThP 003 WP 315 ThP 114 TP 652 TOA am 10:10 TP 652 TOA m 10:10 TP 652 TOA m 171 TP 614 TP 174 ThP 315 ThP 114 ThP 315 ThP 114 ThP 342 TP 164 WP 050
Otto, Mike	MOE pm 3:10TP 674TP 675TP 603TP 192WP 552MP 034 ThOD am 09:10ThOD pm 2:50TOE pm 3:10WOE pm 3:10WP 436WP 436WP 437TP 661WP 312TP 652MP 315TP 652MP 315TP 144TP 174TP 174TP 175TP 186TP 186TP 186
Otto, Mike	MOE pm 3:10TP 674TP 674TP 550TP 603TP 192WP 552MP 033ThOD pm 2:50ThOD pm 2:50ThE pm 3:10TP 243WOE pm 3:10WP 436WP 436WP 437ThP 003WP 436TP 652TP 652TP 652TP 114TP 482TP 164WP 950TP 1880MP 464
Otto, Mike	MOE pm 3:10 TP 674 TP 575 TP 603 TP 192 WP 552 MP 034 TP 102 TP 028 TOE pm 3:10 TP 243 WOE pm 3:10 WP 436 WP 437 ThP 061 WP 437 ThP 652 MP 636 TP 144 TP 652 MP 636 TP 174 TP 174 TP 174 TP 174 TP 175 TP 174 TP 174 TP 175 TP 176 TP 176 TP 177 TP 178 TP 179 T
Otto, Mike	MOE pm 3:10 TP 674 TP 570 TP 653 TP 192 WP 552 MP 034 TOD pm 2:50 TP 028 TOE pm 3:10 TP 243 WOE pm 3:10 WP 436 WP 436 WP 437 ThP 661 WP 437 ThP 636 TP 652 MP 636 ThP 315 ThP 114 ThP 372 ThP 482 TP 164 WP 050 ThP 080 MP 464 WP 518 TP 164
Otto, Mike	MOE pm 3:10 TP 674 TP 575 TP 603 TP 192 WP 552 MP 034 ThOD am 09:10 ThOD pm 2:50 TP 243 WOE pm 3:10 TP 243 WOE pm 3:10 TP 661 WP 436 WP 437 ThP 003 WP 315 ThP 114 ThP 372 TOA am 10:10 TP 652 MP 636 ThP 114 ThP 315 ThP 114 ThP 372 ThP 482 TP 164 WP 050 ThP 080 MP 468 WP 458 TP 164 WP 050 ThP 080 MP 464 WP 518 ThP 654 WOG am 09:30
Otto, Mike	MOE pm 3:10TP 674TP 675TP 653TP 192WP 552MP 033TND pm 2:50TND pm 3:10TOE pm 3:10WOE pm 3:10WP 436WP 436WP 436WP 437ThP 033WP 312TND pm 3:10TP 652TND pm 3:10TP 652TND pm 3:10TP 652TND 931TND 931
Otto, Mike	MOE pm 3:10TP 674TP 675TP 653TP 192WP 552MP 033TND pm 2:50TND pm 3:10TOE pm 3:10WOE pm 3:10WP 436WP 436WP 436WP 437ThP 033WP 312TND pm 3:10TP 652TND pm 3:10TP 652TND pm 3:10TP 652TND 931TND 931
Otto, Mike	MOE pm 3:10 TP 674 TP 550 TP 603 TP 192 WP 552 MP 034 TOA pm 3:10 TOE pm 3:10 TOE pm 3:10 WOE pm 3:10 WP 436 WP 436 WP 437 ThP 038 ThP 652 MP 636 ThP 315 ThP 114 ThP 372 ThP 482 TP 164 WP 518 TP 168 WP 518 TP 168 WP 518 THP 654 WP 518 THP 654 WP 518 THP 654 WP 518 THP 654 THP 654 WP 518 THP 654
Otto, Mike	MOE pm 3:10 TP 674 TP 575 TP 603 TP 192 WP 552 MP 034 TOD pm 2:50 TP 028 TOE pm 3:10 TP 243 WOE pm 3:10 WP 436 WP 436 WP 437 ThP 061 WP 437 ThP 652 MP 636 TP 144 TP 652 MP 636 TP 144 TP 652 MP 636 TP 174 TP 654 WP 050 MP 464 WP 518 TP 654 WP 518 TP 654 WP 333 WP 343 WP 343
Otto, Mike	MOE pm 3:10 TP 674 TP 575 TP 603 TP 192 WP 552 MP 034 TOE pm 3:10 TP 243 WOE pm 3:10 WP 436 WP 436 WP 437 ThP 661 WP 437 ThP 636 ThP 315 ThP 114 ThP 372 ThP 482 TP 164 WP 050 ThP 080 MP 438 ThP 654 WP 050 ThP 681 TP 652 TP 164 WP 050 ThP 684 TP 164 WP 050 ThP 684 TP 164 WP 518 TP 1654 WP 450 WP 450 WP 450 WP 450 MP 073
Otto, Mike	MOE pm 3:10 TP 674 TP 574 TP 673 TP 603 TP 192 WP 552 MP 034 TND pm 2:50 TND pm 2:50 TND pm 3:10 TND pm 3:10 TND pm 3:10 TND pm 3:10 TP 243 WOE pm 3:10 TP 661 WP 436 WP 437 TNP 661 WP 437 TNP 661 WP 437 TNP 103 TNP 114 TNP 372 TNP 315 TNP 114 TNP 372 TNP 482 TP 164 WP 050 TNP 080 MP 686 TNP 185 TNP 185 TNP 654 WP 518 TNP 654 WP 518 TNP 654 WP 518 TNP 654 WP 343 WP 433 WP 343 WP 433 WP 343 WP 973 TNP 185



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Ozdemir, Abdil	
Ozensoy, Emrah	
Oziol, Lucie	TOG am 09:50
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Paauw, Armand	
Pabst, Martin	
Pacepavicius, Grazina	
Pacheco, Alline	
Pacholarz, Kamila	
Pacini, Tommaso	ThP 648
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Packialakshmi, Balamurugan	
Paci, Hayden	
Pacold, MichaelT	
Padda, Bhupinder	
Padilha, Kallyandra	
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Paehler, Axel	
Paeng, Ki-Jung	
Pagala, Vishwajeeth	
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Page, Michelle	
Pagel, Kevin	
Pagel, Kevin\	NOC am 08:50
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Pajer, Petr Pakrasi, Himadri Palacios, Daniel Palagama, Dilrukshika S. W	MP 131 ThP 198 ThP 485 TOF pm 4:10 TP 016
Pajer, Petr Pakrasi, Himadri Palacios, Daniel Palagama, Dilrukshika S. W Palakodeti, Dasaradhi	MP 131 ThP 198 ThP 485 TOF pm 4:10 TP 016 MP 398
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Pajer, Petr	MP 131ThP 198ThP 485TOF pm 4:10MP 398ThP 519WP 674WP 250MP 399
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Pajer, Petr	MP 131ThP 198TOF pm 4:10TP 016MP 398ThP 519WP 674WP 250MP 399ThP 224ThP 223
Pajer, Petr	MP 131MP 198ThP 485TOF pm 4:10MP 398ThP 519WP 674WP 250MP 399ThP 224ThP 223ThP 226
Pajer, Petr	MP 131MP 198ThP 485TOF pm 4:10TP 016MP 398ThP 519WP 674WP 250MP 399ThP 224ThP 223ThP 226ThP 169
Pajer, Petr	MP 131ThP 198ThP 485TOF pm 4:10TP 016MP 398ThP 519WP 674WP 250MP 399ThP 224ThP 224ThP 223ThP 226ThP 169MP 522
Pajer, Petr	MP 131ThP 198ThP 198TP 016MP 398ThP 519WP 250MP 399ThP 224ThP 223ThP 226ThP 169MP 592
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Pajer, Petr	
Pajer, Petr. Pakrasi, Himadri Palacios, Daniel	MP 131
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Pajer, Petr. Pakrasi, Himadri Palacios, Daniel	MP 131MP 198ThP 198TP 016MP 398ThP 519WP 250MP 399ThP 224ThP 223ThP 226MP 299MP 399MP 399MP 207MP 399
Pajer, Petr. Pakrasi, Himadri Palacios, Daniel	MP 131MP 198ThP 198TP 016MP 398ThP 519WP 250MP 399ThP 224ThP 223ThP 226ThP 226ThP 169MP 599TOG pm 3:10MP 207Special 693Special 694TOD pm 2:30TP 078TP 078TP 078TP 128WOE pm 3:50
Pajer, Petr. Pakrasi, Himadri Palacios, Daniel	MP 131MP 198MP 398MP 398MP 519WP 674
Pajer, Petr	
Pajer, Petr Pakrasi, Himadri Palacios, Daniel	
Pajer, Petr Pakrasi, Himadri Palacios, Daniel	MP 131MP 198
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Pajer, Petr. Pakrasi, Himadri Palacios, Daniel	
Pajer, Petr. Pakrasi, Himadri Palacios, Daniel Palagama, Dilrukshika S. W. Palakodeti, Dasaradhi Palaniswamy, M Sundaram Palaniswamy, Sundaram M Palavicini, Juan Pablo Palazoglu, Mine Palazoglu, Mine G. Palazoglu, Mine G. Palarmo, Amelia Pallanck, Leo Palma, Pierangela Palma, Pierangela Palmblad, Magnus Palmer, Andrew Palmer, Andrew Palmer, Elliott Palmer, Jack Palmer, Martin	MP 131MP 198
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Palmer, Martin	ThOH am 09:30
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Palmer, Martin Palmisano, Giuseppe	
Palsson, Bernard O	
Palsson, Runolfur	MOE pm 4:10
Palubeckaite, leva	ThP 188
Pamelard, Fabien	
Pamelard, Fabien	
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Pamucku, Matt	
Pan, Chensong	ThP 372
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Pandey, Akhilesh	TLD 227
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Pandey, Sanjeev	TP 529 MP 302
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Pandey, Sanjeev Pandohee, Jessica Pandya, Nikhil J Pang, Eric	TP 529MP 302MP 363MP 530TP 225
Pandey, Sanjeev Pandohee, Jessica Pandya, Nikhil J Pang, Eric Pang, Guofang	TP 529MP 302MP 363MP 530TP 225ThP 043
Pandey, Sanjeev Pandohee, Jessica Pandya, Nikhil J. Pang, Eric Pang, Guofang Pang, Xueqin.	TP 529MP 302MP 363MP 530TP 225ThP 043 WOC am 09:30
Pandey, Sanjeev Pandohee, Jessica Pandya, Nikhil J. Pang, Eric Pang, Guofang Pang, Yueqin.	TP 529MP 302MP 363MP 530TP 225Th P 043 WOC am 09:30ThP 363
Pandey, Sanjeev Pandohee, Jessica Pandya, Nikhil J. Pang, Eric Pang, Guofang Pang, Xueqin Pang, Yongle Pang-Hung, Hsu	TP 529 MP 302 MP 363 MP 530 TP 225 ThP 043 WOC am 09:30 ThP 363 TP 545
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Pandey, Sanjeev Pandohee, Jessica Pandya, Nikhil J Pang, Eric Pang, Guofang Pang, Xueqin Pang, Yongle Pang-Hung, Hsu Panne, Ulrich Pannel, Lirich Pannell, Lewis	TP 529 MP 302 MP 363 MP 530TP 225ThP 043 WOC am 09:30TP 363TP 545ThP 077WOA pm 2:30MP 464
Pandey, Sanjeev	TP 529MP 363MP 530TP 225ThP 043 WOC am 09:30TP 545ThP 077WOA pm 2:30MP 464TP 439
Pandey, Sanjeev	TP 529MP 363MP 530TP 225ThP 043 WOC am 09:30TP 545ThP 077WOA pm 2:30MP 464TP 439MP 447
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Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle Panne, Ulrich. Panne, Ulrich. Pannell, Lewis.	TP 529MP 302MP 363MP 530TP 225ThP 043MP 363TP 545ThP 363TP 545ThP 477WOA pm 2:30MP 464TP 439MP 447MP 510MP 409
Pandey, Sanjeev Pandohee, Jessica Pandya, Nikhil J Pang, Eric Pang, Guofang Pang, Yougle Pang, Yongle Panne, Urich Pannell, Lewis Pannell, Lewis K. Pannell, Lewis K. Pannell, Lewis K. Pannell, Cyrus Papan, Cyrus Papan, Cyrus	TP 529MP 302MP 363MP 530TP 225ThP 043 WOC am 09:30ThP 363TP 545ThP 077WOA pm 2:30MP 464TP 439MP 451MP 510MP 409MP 110MP 341
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Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle. Panne, Ulrich. Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pantazopoulos, Harry. Panzer, Oliver Papan, Cyrus. Papan, Cyrus. Papanastasiou, Dimitris. Papanin, Géraldine.	
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle Panne, Ulrich. Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pannell, Lewis K. Pannell, Capana, Cyrus. Papan, Cyrus. Papan, Cyrus. Papanastasiou, Dimitris. Papanastasiou, Dimitris.	
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Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle. Panne, Ulrich. Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pannell, Lewis K. Pannell, Lewis Cantell, Lewis Cantell	
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle. Panne, Hung, Hsu Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pantazopoulos, Harry Panzer, Oliver Papan, Cyrus Papan, Cyrus Papan, Cyrus Papan, Cyrus Papanastasiou, Dimitris Papin, Géraldine Papin, Réal Parchert, Kylea Park, B. Kevin Park, B. Kevin	
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle. Pang-Hung, Hsu Pannel, Urich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pannell, Lewis K. Pannell, Lewis K. Panzer, Oliver Papan, Cyrus. Papan, Cyrus. Papan, Cyrus. Papan, Cyrus. Papan, Cyrus. Papan, Géraldine. Papu, Rohit Paquin, Réal Parchert, Kylea Pardo, Sammy Park, B. Kevin Park, Bo Young Park, Dayoung	
Pandey, Sanjeev Pandohee, Jessica Pandya, Nikhil J Pang, Eric Pang, Guofang Pang, Xueqin Pang, Yongle Pang-Hung, Hsu Pannel, Urich Pannell, Lewis Pannell, Lewis Pannell, Lewis K Pannell, Lewis K Pantazopoulos, Harry Panzer, Oliver Papan, Cyrus Papan, Cyrus Papan, Cyrus Papan, Géraldine Papin, Géraldine Park, Bo Young Park, Bo Young Park, Gun Wook Park, Gun Wook Park, Hoon	TP 529 MP 302 MP 363 MP 530 TP 225 ThP 043 WOC am 09:30 TP 545 ThP 077 WOA pm 2:30 MP 464 TP 439 MP 479 MP 510 MP 409 MP 110 MP 341 WP 249 TP 063 WP 037 WP 653 ThP 181 MP 030 MP 534 MOE am 09:50 WP 240 TP 446
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle Pang-Hung, Hsu Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pannell, Lewis Cantell, Lewis Cantazopoulos, Harry Panzer, Oliver Papan, Cyrus Papan, Cyrus Papan, Cyrus Papanastasiou, Dimitris	
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle. Pang-Hung, Hsu Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pantazopoulos, Harry Panzer, Oliver Papan, Cyrus Papan, Cyrus Papan, Cyrus Papanastasiou, Dimitris Papin, Géraldine Parpu, Rohit Parduin, Réal Parchert, Kylea Park, Bo Young Park, Bo Young Park, Gun Wook Park, Hoon	
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle. Pang-Hung, Hsu Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pantazopoulos, Harry Panzer, Oliver Papan, Cyrus Papan, Cyrus Papan, Cyrus Papan, Cyrus Papanastasiou, Dimitris Papin, Géraldine Park, B. Kevin Park, B. Kevin Park, Bo Young Park, Gun Wook Park, Hoon Park, Jong-Min	TP 529MP 363
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle. Pang-Hung, Hsu Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pantazopoulos, Harry Panzer, Oliver Papan, Cyrus Papan, Cyrus Papan, Cyrus Papanastasiou, Dimitris Papin, Géraldine Parpu, Rohit Parduin, Réal Parchert, Kylea Park, Bo Young Park, Bo Young Park, Gun Wook Park, Hoon	
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle Pang-Hung, Hsu Panne, Ulrich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pannell, Lewis K. Pannell, Lewis Cantazopoulos, Harry Panzer, Oliver Papan, Cyrus Papan, Cy	
Pandey, Sanjeev. Pandohee, Jessica Pandya, Nikhil J. Pang, Eric. Pang, Guofang. Pang, Xueqin. Pang, Yongle. Pang-Hung, Hsu Pannel, Urich. Pannell, Lewis. Pannell, Lewis. Pannell, Lewis K. Pantazopoulos, Harry Panzer, Oliver Papan, Cyrus Papan, Cyrus Papan, Cyrus Papan, Cyrus Papan, Cyrus Papan, Cyrus Papan, Réal Parchert, Kylea Park, B. Kevin Park, Bo Young Park, Junyung Park, Jeongsoon Park, Jeongsoon Park, Jeong-Min Park, Jong-Min Park, Jon-Ho Park, Jun H	

Park, Kyung Man	
Park, Melvin A	
Park, Melvin A WOC	
Park, Melvin A WO	
Park, Melvin A	
Park, Melvin A	
Park, Nathan	
Park, Robin	
Park, Soo Jeong	
Park, Sung-GunWOE	
Parker, Benjamin	
Parker, CharlesThOA	am 08:50
Parker, Christine H	WP 078
Parker, Eric	
Parker, Evan	
Parker, Jennifer	
Parker, KennethMO	
Parker, Kenneth	
Parker, Laurie	
Parker, Laurie	
Parker, Sarah	
Parker, W. Ryan	ThP 104
Parker, W. Ryan	
Parks, Bryan	
Parks, Bryan	
Parks, Bryan	WP 617
Parmeggiani, Fabio	
Parnell, Mike	
Paron, Igor	
Parr, Vic	
Parra, Na Pi	
Parrish, Matthew	
Parsons, Gregory	
Parsons, Loren	
Parsons, LorenTOH	l am 08:50
Parsons, LorenTOF Parvin, Lida	l am 08:50 ThP 572
Parsons, LorenTOF Parvin, Lida Pasa-Tolic, Ljiljana	l am 08:50 ThP 572 MP 160
Parsons, Loren	I am 08:50 ThP 572 MP 160 ThP 122
Parsons, Loren	I am 08:50 ThP 572 MP 160 ThP 122 0A pm 2:30
Parsons, Loren	I am 08:50 ThP 572 MP 160 ThP 122 0A pm 2:30 TP 126
Parsons, Loren	I am 08:50 ThP 572 MP 160 ThP 122 0A pm 2:30 TP 126 TP 390
Parsons, Loren	I am 08:50 ThP 572 MP 160 ThP 122 0A pm 2:30 TP 126 TP 390 WP 326
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana	I am 08:50 ThP 572 MP 160 ThP 122 0A pm 2:30 TP 126 TP 390 WP 326 MP 203
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasay, Jered	I am 08:50 ThP 572 MP 160 ThP 122 0A pm 2:30 TP 126 TP 390 WP 326 MP 203
Parsons, Loren	I am 08:50ThP 572MP 160ThP 122 A pm 2:30TP 126TP 390WP 326MP 203MP 194MP 194
Parsons, Loren	I am 08:50ThP 572MP 160ThP 122 A pm 2:30 A pm 2:30TP 126TP 390MP 396MP 194TP 397
Parsons, Loren	I am 08:50ThP 572MP 160ThP 122 OA pm 2:30TP 126TP 390MP 320MP 390MP 194TP 37
Parsons, Loren	I am 08:50ThP 57;MP 160ThP 122 A pm 2:30TP 390WP 326MP 203WP 396MP 194TP 377
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasay, Jered Pascal, Bruce Pascal, Bruce D Pascal, Bruce D Pascal, Bruce D Pascal, Bruce D Pascolic, Carmen Pascovici, Dana	I am 08:50ThP 572MP 166ThP 122 AP pm 2:30TP 122TP 122TP 399MP 203MP 309MP 309MP 194TP 372TP 397MP 502
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasay, Jered Pascal, Bruce Pascal, Bruce D Pascal, Bruce D Pascal, Bruce D Pasche, Carmen Pascovici, Dana Pascovici, Dana	I am 08:50ThP 57:2MP 160ThP 12:2 IA pm 2:3 I
Parsons, Loren	I am 08:50ThP 57:MP 160ThP 122 Ab pm 2:36TP 126TP 390MP 326MP 203MP 19MP 19MP 330TP 500MP 502MP 502
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 57:MP 160ThP 122 Ab pm 2:36TP 126TP 390MP 320MP 300MP 390MP 390MP 300MP 300MP 300MP 500MP 500MP 500MP 500MP 500MP 500MP 500
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pascal, Bruce D	I am 08:50ThP 57:MP 160ThP 122 A pm 2:30 A pm 2:30TP 390MP 390MP 192MP 194MP 502 B pm 2:30TP 522ThP 2:42ThP 2:42ThP 2:42
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasay, Jered Pascal, Bruce Pascal, Bruce D Pascal, Bruce D Pascal, Bruce D Paschke, Carmen Pascovici, Dana Pascovici, Dana Pascovici, Dana Pasek, Matthew Pasilis, Sofie	I am 08:50ThP 572MP 160ThP 122 IA pm 2:30TP 126TP 396MP 202MP 306MP 203MP 307MP 307TP 508TP 508TP 508TP 508TP 508TP 508TP 508TP 508TP 508
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasay, Jered Pascal, Bruce Pascal, Bruce D Pascal, Bruce D Pascal, Bruce D Pascovici, Dana	I am 08:50ThP 572MP 160ThP 122TP 126TP 396TP 396MP 326MP 326MP 326MP 337MP 337MP 506MP 506MP 506MP 507MP 636
Parsons, Loren TOF Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 572MP 160ThP 122 IA pm 2:30TP 126TP 390MP 326MP 203MP 326MP 337MP 337MP 506MP 506MP 506MP 507MP 506MP 506MP 507MP 506MP 506TP 524ThP 426ThP 427MP 505TP 524TP 527MP 505TP 526TP 527MP 506TP 526TP 527MP 506TP 526TP 527MP 550
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 57:MP 160ThP 122 Ab pm 2:36TP 126TP 390MP 326MP 203MP 192MP 194TP 37MP 33TP 506MP 526MP 526ThP 526ThP 526ThP 526ThP 526TP 665
Parsons, Loren	I am 08:50ThP 57:MP 160ThP 122 Ab pm 2:30TP 126TP 390WP 326MP 190MP 190MP 190MP 390MP 301MP 190MP 190TP 500MP 500TP 500TP 500TP 630TP 520TP 520TP 520TP 520TP 560TP 650TP 650
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 572MP 160ThP 122 IA pm 2:30TP 126MP 202MP 396MP 307MP 202MP 397MP 502MP 502MP 502MP 502ThP 526ThP 527MP 565TP 566MP 566
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 572MP 160ThP 122TP 126TP 390MP 326MP 326MP 326MP 326MP 326MP 327MP 194TP 37MP 33TP 526TP 526TP 526TP 526TP 526TP 661MP 650MP 650MP 650MP 650MP 428
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 572MP 160ThP 122MP 123MP 126MP 326MP 326MP 326MP 326MP 326MP 326MP 326MP 506MP 350
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 57:MP 160ThP 122 IA pm 2:30TP 126TP 390MP 326MP 203MP 192TP 37'WP 33'TP 506MP 505MP 505TP 524TP 27WP 35TP 526TP 658TP 526TP 658TP 526TP 659TP 659
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 57:MP 160ThP 122 Ab pm 2:36TP 126TP 390WP 326MP 203WP 396WP 397MP 199TP 506MP 502 B pm 2:36TP 526ThP 527WP 366TP 666MP 686WP 616MP 498WP 498WP 350MP 498WP 350MP 498WP 350MP 274MP 248MP 248MP 248MP 350MP 350MP 376
Parsons, Loren TOParvin, Lida Pasa-Tolic, Ljiljana	I am 08:50ThP 572MP 160ThP 122TP 126TP 396MP 202MP 306MP 203MP 306MP 307MP 307
Parsons, Loren TOParvin, Lida Pasa-Tolic, Ljiljana	I am 08:50ThP 572MP 160ThP 122TP 126TP 396MP 306MP 306MP 307MP 194TP 37MP 502MP 502MP 503TP 524TP 526TP 526TP 526TP 526TP 527MP 337MP 347MP 357MP 357
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 572MP 160ThP 122TP 126TP 390TP 390MP 320MP 320MP 320MP 320MP 320MP 320MP 320MP 500MP 337MP 350MP 350MP 350MP 350MP 350MP 377MP 377MP 377MP 377MP 370MP 320MP 320
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 577MP 160ThP 122 IA pm 2:30TP 399MP 320MP 320MP 320MP 320MP 320MP 320MP 500MP 561MP 421MP 475MP 475 .
Parsons, Loren TOParvin, Lida Pasa-Tolic, Ljiljana	I am 08:50ThP 57:ThP 17:MP 160ThP 122 Ab pm 2:36TP 390TP 390MP 390MP 390MP 390MP 390MP 390MP 390MP 502MP 37:MP 490MP 37:MP 47:MP 48:MP 48: .
Parsons, Loren TOParvin, Lida Pasa-Tolic, Ljiljana	I am 08:50ThP 572MP 160ThP 122TP 126TP 390MP 203MP 306MP 205MP 194TP 377MP 502MP 502MP 503TP 526TP 526TP 526TP 527MP 503TP 526TP 527MP 503
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 572MP 160ThP 122TP 126TP 39TP 39MP 203MP 203MP 304MP 307MP 307MP 307MP 307MP 307MP 307MP 307MP 307MP 307MP 307TP 506MP 502TP 522TP 526TP 526TP 527MP 489MP 499MP 491MP 493MP 493MP 491MP 493MP 494MP 495MP 496MP 497MP 497MP 498MP
Parsons, Loren TOP Parvin, Lida Pasa-Tolic, Ljiljana Pasa-Tolic, Ljiljan	I am 08:50ThP 572MP 160ThP 122MP 330MP 300MP 300MP 300MP 300MP 300MP 300MP 300MP 500MP 301MP 431MP 431



Patkin, Adam J		Pellarin, Riccardo		Peterman, Scott	
Patrick, Amanda		Pellarin, Riccardo		Peterman, Scott	
Patrick, Jeff		Pena Neshich, Izabella		Peterman, Scott	
Patrick, Jeffrey		Pendse, Salil		Peterson, Amelia	
Patrick, Jeffrey Patrick, John		Penesyan, Anahit Peng, Chun		Peterson, Mark S Peterson, Marnie	
Patrie, Steven		Peng, Junmin		Petitte, James	
Patrie, Steven		Peng, Junmin		Petitte, James N.	
Patrie, Steven M.		Peng, Junmin		Petre, Brindusa-Alina	
Patsch, Christoph		Peng, Liming		Petre, Brindusa-Alina	
Patterson, Catherine	ThP 654	Peng, Qunhua		Petretto, Andrea	MP 556
Patterson, Heath		Peng, Wenjing		Petrotchenko, Evgeniy	
Patterson, Rainey		Peng, Wen-Ping		Petrotchenko, Evgeniy	
Patterson, Rainey		Peng, Wen-Ping		Petrotchenko, Evgeniy	
Patterson, Rainey		Peng, Xiaoyun		Petrotchenko, Evgeniy	
Patterson, Rainey		Peng, Ying		Petrotchenko, Evgeniy	
Patti, Gary Patti, Gary		Peng, Ying Peng, Ying		Petrov, Anton Petrus, Kamil	
Patti , Gary Patti , Gary		Peng, Ying		Petyuk, Vladislav A	
Patti, Gary J		Peng, Ying		Pevzner, Pavel	
Patti, Gary J		Peng, Ying		Pevzner, Pavel	
Patti, Gary J		Peng, Ying		Pevzner, Pavel	
Patti, Gary J		Peng, Zhou		Pfammatter, Sibylle	
Patti, Gary J		Pengelley, Stuart		Pfannkoch, Edward	
Patti, Gary J		Pengelley, Stuart		Pfannstiel, Jens	
Patti, Gary J	TP 205	Pennathur, Subramaniam	ThP 429	Pfeffer, Bruce A	
Patti, Mary Elizabeth		Pennathur, Subramaniam		Pfefferkorn, Jeffrey A	
Pattison, Christine		Pennathur, Subramaniam		Pfeifer, Felicitas	
Pattison, Christine		Penner, Natasha		Pham, Daniel X	
Patwardhan, Dinesh		Penner, Natasha		Pham Tuan, Hai	
Paugh, Barbara		Pepin, Robert		Phan, Nhu	
Paul, Sylvianne		Peporine Lopes, Norberto		Phan, Trang N.T.	
Paulines, Mellie June		Peppelenbosch, Maikel		Phelps, David	
Pauling, Josch K Paulk, Joshiawa		Perazzo, Fabio Perazzo, Fabio		Phelps, Mandy Phelps, Mandy	
Paulo, Joao		Percy, Andrew		Philipneri, Marie	
Paulo , Joao		Percy, Andrew		Phillips, Ashley S	
Paulose, Justin		Percy, Andrew		Phillips, Brian	
Paulovich, Amanda		Percy, Andrew		Phillips, Jeffrey	
Paulsen, Ian T		Percy, Andrew J		Phinney, Brett	
Paupy, Benoit		Pereira, Alexandre		Phinney, Brett	
Pautler, Brett	TP 140	Pereira, C.A.M	ThP 634	Phinney, Brett	WP 353
Pavana Kumari, Madireddy	TP 442	Pereira, Jorge	WP 093	Phinney, Karen	ThP 338
Pavlidis, Paul		Pereira, Marcela		Phinney, Karen	
Pavlik, Jaroslav		Pereira, Marcos D		Phung, Jenny	
Pavlov, Julius		Pereira, Rosana Cardoso Lopes		Pi Parra, Na	
Pavlovich, Matt		Pereira, Rosana Cardoso Lopes		Pianaro, Adriana	
Pavlovich, Matthew		Perera, Rushika		Piascik, Jeffrey	
Pawliszyn, Janusz		Perez, Consuelo Perez, Sandra		Piatkivskyi, Andrii Picard, Pierre	
Pawliszyn, Janusz Pawliszyn, Janusz		Perez Hurtado, Pilar		Picard, Pierre	
Pawliszyn, Janusz		Perez Laspiur, Juliana		Picard, Pierre	
Pawliszyn, Janusz		Pérez-Valle, Arantza		Picard, Pierre	
Pawliszyn, Janusz		Pergantis, Spiros		Picard, Pierre	
Payne, Liz		Peric, Alexandra		Picard, Pierre	
Payne, Sam		Perkins, George		Picard, Pierre	
Payne, Samuel H	WP 312	Perkins, Patrick D	MP 105	Picard, Pierre	WP 153
Payne, Samuel H	ThP 438	Perler, Francine	TP 517	Picard de Muller, Gael	TOH pm 3:10
Payne, Samuel H	ThP 466	Perlman, David H	WP 383	Picard de Muller, Gael	WP 545
Payne, Samuel H		Perner, Sven		Picard-de-Muller, Gael	
Peake, David		Perreault, Helene		Pickering, James	
Peake, David A		Perreault, Helene		Pickford, Russell	
Peake, David A		Perreault, Helene		Pickup, Kathryn	
Peake, David A		Perreault, Helene		Pickup, Kathryn	
Peake, David A		Perret, Alain		Picotti, Paola	
Peake, David A Pearce, Cedric		Perret, Cécile Perrin, Hélène		Picotti, Paola Piehowski, Paul D	
Pearce, Ceand Pearson, Terry		Perry, George		Piehowski, Paul D	
Pearson, Terry		Persechini, Anthony		Piehowski, Paul D	
Peck, Andrew		Person, Carl E.		Pielak, Rafal M	
Pecks, Ulrich		Person, Maria		Pieper, Brett	
Peddicord, Michael		Persson, Xuan-Mai T. (Mai)		Pieraccini, Giuseppe	
Pedersen, Anna-Kathrine		Peru, Kerry M		Pierre-Olivier, Schmit	
Pederson, Carrie		Peschel, Christian		Piersimoni, Lolita	
Peel, Jennifer	TP 206	Peshkin, Leonid	MP 609	Pierson, Elizabeth	TOF pm 3:30
Peeper, Daniel S		Pessolano, Danielle		Pierson, Nicolas	
Peeper, Daniel S		Peter, Gary F		Pierzchalski, Keely	
Pekov, Stanislav		Peterman, Paul		Pieterse, Mervin M	
Pellarin, Riccardo	TI OF 0 FO	Peterman, Scott	TLD 000	Pietrasiewicz, Alicia	MAD 000



Pietrasiewicz, Alicia	
Pifferi, Valentina	
Pike, lan	
Pilarsky, Christian	
Pillai, Manoj	
Pilo, Alice	TP 039
Pilon, Alan Cesar	
Pimentel, Adam	
Pimentel, Adam	
Pineau, Charles	
Ping, Yang Pinkse, Martijn W	
Pinnick, Veronica	
Pinnick, Veronica	
Pinto, Antonio F. MW	OE am 09:30
Pinto, Shirly	
Pinto, Sneha	
Pinto, Spencer	
Piotrowski, Mary	
Piotrowski, Mary	
Piotrowski, Mary Piotrowski, Mary	
	ThP 246
Piotrowski, Mary	ThP 239
Piotrowski, Mary Piotrowski, Mary Piper, Anita	ThP 239 ThP 244 ThP 424
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa	ThP 239 ThP 244 ThP 424 ThP 493
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago	ThP 239 ThP 244 ThP 424 ThP 493 TP 198
Piotrowski, Mary	ThP 239ThP 244ThP 424ThP 493TP 198TP 585
Piotrowski, Mary	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026
Piotrowski, Mary	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50
Piotrowski, Mary	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Virro, Valentina Virrone, Gregory F. Pisa, Libor	ThP 239 ThP 244 ThP 424 ThP 493 TP 198 TP 585 MP 026 hOA pm 2:50 VOA pm 3:30 WP 644 ThP 198
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Virro, Valentina Virro, Valentina Virrone, Gregory F. Pisa, Libor Pisco, João	ThP 239 ThP 244 ThP 424 ThP 493 TP 198 TP 585 MP 026 hOA pm 2:50 VOA pm 3:30 WP 644 ThP 198 WP 649
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirrone, Gregory F Pisa, Libor Pisco, João Pitiranggon, Masha	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Gregory F Pisa, Libor Pisco, João Pittranggon, Masha Pitkänen, Leena	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080
Piotrowski, Mary	ThP 239ThP 244ThP 424ThP 493TP 198MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 030 MOF pm 3:30
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirro, Valentina Virro, Valentina Virrone, Gregory F Pisa, Libor Pisco, João Pittranggon, Masha Pitkänen, Leena Pitteri, Sharon	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirro, Valentina Virro, Valentina	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 428
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirro, Valentina Virro, Valentina	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 428TP 622WP 079
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirrone, Gregory F Pisa, Libor Pisa, Libor Pisco, João Pittranggon, Masha Pitkänen, Leena Pittkenen, Leena Pitteri, Sharon Pitteri, Sharon Pitteri, Sharon Pitteri, Chara Regina Place, Benjamin Planchart, Antonio	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 622WP 079 TOG pm 3:30WP 282
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirro, Valentina Virro, Valentina	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 622WP 079 TOG pm 3:30WP 282
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Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirro, João Pitrone, Gregory F. Pisa, Libor Pisco, João Pitiranggon, Masha Pitkänen, Leena Pitteri, Sharon Pitteri, Sharon Pittman, Erin Pizzutti, Ionara Regina Place, Benjamin Planchart, Antonio Planell-Mendez, Ivette Plasencia, Guillem Plasencia, Manolo Plasencia, Manolo	ThP 239ThP 244ThP 424ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 428YP 622WP 079 TOG pm 3:30WP 282 hOA pm 3:50WP 295ThP 235ThP 235ThP 501WP 599
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirrone, Gregory F Pisa, Libor Pisco, João Pittranggon, Masha Pitkänen, Leena Pittkänen, Leena Pitteri, Sharon Pitteri, Sharon Pitteri, Sharon Pitteri, Sharon Pittman, Erin Pizzutti, Ionara Regina Place, Benjamin Planchart, Antonio Planell-Mendez, Ivette Plasencia, Guillem Plasencia, Manolo Plasencia, Manolo Plasencia, Manolo	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 WOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 622WP 079 TOG pm 3:30WP 282 hOA pm 3:50WP 495ThP 501WP 599WP 597
Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirrone, Gregory F. Pisa, Libor Pisco, João Pitiranggon, Masha Pitkänen, Leena Pitteri, Sharon Pitteri, Sharon Pitteri, Sharon Pittman, Erin Pizzutti, Ionara Regina Place, Benjamin Planchart, Antonio Planell-Mendez, Ivette T Plant, Steve Plasencia, Guillem Plasencia, Manolo	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 622WP 079 TOG pm 3:30WP 282MP 350WP 285ThP 501WP 597ThP 501WP 597ThP 492
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Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirrone, Gregory F Pisa, Libor Pisco, João Pittranggon, Masha Pitkänen, Leena Pittkeri, Sharon Pitteri, Sharon Pitter	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 622WP 079 TOG pm 3:30WP 282 hOA pm 3:50WP 495ThP 501WP 599WP 597ThP 492TP 498 OF am 08:50TP 488 OF am 08:50ThP 580
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Piotrowski, Mary Piotrowski, Mary Piotrowski, Mary Piper, Anita Pirani, Parisa Pires, Thiago Pirmoradian Najafabadi, Mohammad Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirro, Valentina Pirrone, Gregory F. Pisa, Libor Pisco, João Pitiranggon, Masha Pitkänen, Leena Pitteri, Sharon Pitteri, Sharon Pitteri, Sharon Pittman, Erin Pizzutti, Ionara Regina Place, Benjamin Planchart, Antonio Planell-Mendez, Ivette Plant, Steve Plasencia, Manolo Plasencia, Mano	ThP 239ThP 244ThP 424ThP 493TP 198TP 585MP 026 hOA pm 2:50 VOA pm 3:30WP 644ThP 198WP 649WP 006ThP 080 MOF pm 3:30TP 428TP 622WP 079 FOG pm 3:30WP 248ThP 501WP 259ThP 501WP 599WP 599ThP 492ThP 492ThP 498 OF am 08:50ThP 321TP 055TP 055WP 229
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Prenni, Jessica	TP 167TP 196TP 196TP 686MP 509MP 609MP 648MP 308ThP 608MP 308ThP 608TP 698TP 698TP 661TP 663TP 633
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Prenni, Jessica	TP 167TP 167TP 196TP 206MP 509MP 609MP 608MP 466MP 308TP 608TP 608TP 693TP 659TP 659TP 659TP 630TP 630
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Prenni, Jessica Prenni, Jessica Prenni, Jessica Prentice, Boone Prentice, Boone Prentice, Boone M Presler, Marc Presti, George Previs, Stephen Previs, Stephen Previs, Stephen Price, Colleen Prideaux, Brendan Prideaux, Brendan Prieto Conaway, Maria C Prieto Sobrino, Ailette Prince, Heather Prince, Heather Prince, Hash M.G Pringle, Steve Pringle, Steve Pringle, Steve Pringle, Steven Pringle, Steven Pringle, Steven	TP 167TP 196TP 196TP 680MP 509MP 608MP 648MP 468MP 468MP 409TP 693TP 693MP 337TP 653TP 653TP 654TP 654MP 337TP 616TP 617TP 618TP 619TP 619
Prenni, Jessica	TP 167TP 196TP 196TP 680MP 509MP 608MP 648MP 308TP 608MP 308TP 608TP 693TP 665MP 307MP 308TP 610TP 659TP 659TP 659TP 639TP 639TP 648TP 648TP 649TP 649TP 649MP 337TP 649TP 649TP 659TP 649TP 649
Prenni, Jessica	TP 167TP 196TP 196TP 686MP 509MP 609MP 608MP 466MP 466MP 466MP 308Th 608TP 608TP 698TP 693TP 661TP 663TP 633TP 010MP 338MP 338TP 010MP 337MP 338MP 348MP 348
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Prenni, Jessica	TP 167TP 196TP 196TP 206TP 680MP 509MP 608MP 608MP 308TP 608MP 308TP 608TP 608TP 608TP 652MP 337TP 652MP 337TP 639TP 639TP 610MP 348MP 358MP 358MP 358MP 368MP 368
Prenni, Jessica	TP 167TP 196TP 196TP 686MP 509MP 609MP 648MP 308MP 308MP 308TP 608MP 293TP 608TP 658TP 657MP 337TP 657MP 337TP 658TP 610MP 337TP 657MP 337TP 610MP 337TP 010MP 348MP 347MP 348MP 347MP 348MP 347MP 348MP 348MP 347MP 348TP 009 TOA am 08:56WP 642TP 522
Prenni, Jessica	TP 167TP 196TP 196TP 680MP 509MP 609MP 609MP 409TP 609TP 609TP 609TP 693TP 650TP 650MP 338TP 610TP 650MP 338TP 610TP 650MP 338TP 1010TP 650MP 338TP 1010TP 650MP 338TP 010MP 338TP 010MP 338TP 010MP 338TP 010TP 642TP 148TP 148
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Pruneda, Jonathan		Qu, Jun		Rainville, Paul	
Prystowsky, Michael		Qu , Jun		Raja, Huzefa	
Przybylski, Michael		Qu, Jun		Rajagopal, Vaishnavi	
Przybylski, Michael		Qu, Jun		Rajagopalan, Sudha	
Przybylski, Michael		Qu, Jun		Rajagopalan, Sudha	
Przyklenk, Karin		Qu, Jun		Rajan, Roshan	
Przyklenk, Karin		Qu, Jun		Rajanayake, Krishani K	
Psillakis, Eleftheria		Qu, Yang		Rajasekar, Shanmugam	
Pu, Yi		Qu, Yanyan		Rajkovic, Andrei	
Pu, Yi		Qu, Yanyan		Raju, Shruti	
Pu, Yi		Qu, Zhe		Raju, Shruti	
Pu, Yi		Quach, Austin		Raju, Shruti	
Puchowicz, Michelle A		Quadroni, Manfredo		Raju, Shruti	
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Pullen, Frank		Quest, Dale		Ramagiri, Suma	
Pulliam, Christopher		Quijada, Jeniffer		Ramagiri, Suma	
Pulliam, Christopher		Quinlan, Casey		Ramagiri, Suma	
Puri , Neelu		Quinn, Colleen		Ramagiri, Suma	
Purkayastha, Subhasis		Quinn, Daniel		Ramagiri, Suma	
Purves, Randy W		Quinn, John		Ramagiri, Suma	
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Purves, Randy W		Quinn, John P.		Ramagiri, Suma	
Purvine, Samuel O		Quinn, John P.		Ramagiri, Suma	
Purzner, James		Quinn, John P.		Ramakrishnan, Padma	
Purzner, Teresa		Quinn, Joseph		Ramakrishnan, Rathi	
Putluri, Nagireddy		Quinton, Loic		Ramalingam, L	
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Putman, Jonathan		Quintyn, Royston S		Ramanathan, Lakshmi	
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Qi, Yue		Rabuck-Gibbons, Jessica		Ramon, Jan	
Qi , Yue		Rabuck-Gibbons, Jessica		Ramond, Elodie	
Qi , Yue		Rabuck-Gibbons, Jessica		Ramos, Mafalda	
Qi, Yulin		Racaud, Amandine		Ramos De Jesus, Hugo César	
Qi. Yulin		Race, Alan		Rampler, Evelyn	
Qian, Lili		Race, Alan		Ramsey, J. Michael	
Qian, Mark		Race, Alan		Ramsey, J. Michael	
Qian, Mark		Race, Alan		•	
				Ramsey, J. Michael	
Qian, Mark		Race, Alan M		Ramsey, J. Michael	
Qian, Meiqian		Rad, Ramin		Ramsey, J. Michael	
Qian, Weijun		Radauscher, Erich		Ramsey, J. Michael	
Qian, Wei-Jun		Radchenko, Tatiana		Ramsey, John	
Qian, Wei-Jun		Räder, Hans Joachim		Ranasinghe, Asoka	
Qian, Wei-Jun		Radford, Sheena E		Ranasinghe, Asoka	
Qian, Xiaohong		Radford, Sheena E		Ranbaduge, Nilini	
Qian, Xiaohong		Radhakrishnan, Sridhar		Rand, Kasper	
Qian, Xiaohong		Radivojac, Predrag		Rand, Kasper D	
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Qiao, Jana		Rafferty, David		Randall, Elizabeth	•
Qiao, Jennifer X		Rafferty, David		Randall, Elizabeth	
Qiao, Liang		Rafferty, David		Randall, Elizabeth C	
Qiao, Lirui		Raffin, Peter		Randall, Kristen	
Qiao, Lirui		Rafii, Arash		Rane, Shailendra	
Qin, Jian		Raftery, Daniel		Rane, Shailendra	
Qin , Jun		Raftery, Daniel		Rane, Shailendra	
Qin, Shiyang		Raftery, Daniel		Rane, Shailendra	
Qin, Weijie		Raftery, Mark		Rane, Shailendra	
Qiu, Difei		Ragampeta, Srinivas		Rane, Shailendra	
Qiu, Feng		Rahaman, Mijanur		Rangan, Vangipuram	
Qiu , Haibo		Rahbarirad, Sepideh		Ranganathan, Srivathsan	
Qiu, Jinshu		Rahimi, Nader		Ranganathan, Srivathsan	
Qiu , Sam		Rahman, Samiur		Rangasamy, Murugesan	
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Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin	
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Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine	
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven J Raymond, Celine Raymond, Celine Raymond, Philippe	
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven J Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza	
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven J Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza	
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven J Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza	
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Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza	
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Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razumovskaya, Jane Razunguzwa, Trust	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 443 MP 168 MP 168 MP 168 MP 168 MP 168 MP 168 MP 159
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Read, Randy	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 168 MP 168 MP 159 WP 359 MP 329 MP 340
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Razunguzwa, Razunguzwa, Trust Raad, Randy Reamtong, Onrapak	
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Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razumovskaya, Jane Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reamtong, Onrapak Rebuffat, Sylvie Rechberger, Gerald N	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 184 MP 189 WP 191 WP 159 WP 340 MP 636 TP 646 TP 676 TP C pm 4:10 TP 275
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Read, Randy Reamtong, Onrapak Rebuffat, Sylvie Rechberger, Gerald N Reddivari, Lavanya	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 168 MP 168 MP 168 MP 319 TP 159 MP 329 ThP 287 TO C pm 4:10 TP 275 TP 630
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reamtong, Onrapak Rebuffat, Sylvie Rechberger, Gerald N Reddivari, Lavanya Reddivari, Lavanya	WP 058
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reamtong, Onrapak Rebuffat, Sylvie Reddivari, Lavanya Reddy, Amith Reddy, Christopher	WP 058
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Read, Randy Reamtong, Onrapak Rebuffat, Sylvie Rechberger, Gerald N Reddivari, Lavanya Reddy, Amith Reddy, Christopher M	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 463 MP 159 WP 159 WP 159 WP 159 TP 189 WP 159 TP 275 TP 636 TP 645 TP 275 TP 636 MP 664 THOG pm 3:50
Raupers, Björn. Ravnsborg, Christian. Rawer, Stephan. Ray, Debjit. Ray, Gene. Ray, Kevin. Ray, Kevin. Ray, Kevin. Ray, Steven. Ray, Steven. Ray, Steven. Ray, Steven. Ray, Steven. Ray, Merin. Raymond, Celine. Raymond, Philippe. Razavi, Morteza. Razavi, Morteza. Razavi, Morteza. Razavi, Morteza. Razumovskaya, Jane. Razunguzwa, Trust. Read, Randy. Reamtong, Onrapak. Reamtong, Onrapak. Rebuffat, Sylvie. Rechberger, Gerald N. Reddivari, Lavanya. Reddy, Christopher. Reddy, Christopher Reddy, Christopher M. Reddy, E. Premkumar.	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 168 MP 351 TP 189 WP 159 WP 340 MP 636 TP 645 TOC pm 4:10 TP 275 TP 630 ThP 250 MP 664 ThOG pm 3:50
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razumovskaya, Jane Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reamtong, Onrapak Rebuffat, Sylvie Reddivari, Lavanya Reddy, Amith Reddy, Christopher Reddy, Christopher M Reddy, E. Premkumar Reddy, Sharanya	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 443 MP 168 MP 351 TP 189 WP 159 WP 340 MP 636 TP 646 TOC pm 4:10 TP 275 TP 630 ThP 056 MP 656 ThP 056 ThP 056 ThP 055
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reemtong, Onrapak Rebuffat, Sylvie Rechberger, Gerald N Reddivari, Lavanya Reddy, Amith Reddy, Christopher Reddy, Christopher M Reddy, Sharanya Reddy, Sharanya	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 168 MP 359 MP 329 ThP 287 TP 159 MP 329 ThP 287 TP 287 TP 287 TP 350 MP 636 TP 645 TO pm 4:10 TP 275 TP 630 ThP 056 MP 664 ThO G pm 3:50 ThP 250 ThP 250 ThP 250 ThP 250 ThP 250 ThP 035 ThP 033
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Razunguzwa, Trust Razunguzwa, Trust Razunguzwa, Trust Razunguzwa, Trust Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reamtong, Onrapak Reddivari, Lavanya Reddy, Amith Reddy, Christopher Reddy, Christopher M Reddy, Sharanya	WP 058
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reemtong, Onrapak Rebuffat, Sylvie Rechberger, Gerald N Reddivari, Lavanya Reddy, Amith Reddy, Christopher Reddy, Christopher M Reddy, Sharanya Reddy, Sharanya	WP 058
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Razunguzwa, Trust Razunguzwa, Trust Razunguzwa, Trust Razunguzwa, Trust Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reamtong, Onrapak Reddivari, Lavanya Reddy, Amith Reddy, Christopher Reddy, Christopher M Reddy, Sharanya	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 463 MP 168 MP 159 WP 159 WP 340 MP 636 TP 645 TOC pm 4:10 TP 275 TP 630 ThP 056 MP 664 ThOG pm 3:50 ThP 250 ThP 333 WOG pm 3:10 WP 027
Raupers, Björn Ravnsborg, Christian Rawer, Stephan Ray, Debjit Ray, Gene Ray, Kevin Ray, Kevin Ray, Kevin Ray, Steven Ray, Steven Ray, Steven Raymond, Celine Raymond, Celine Raymond, Philippe Razavi, Morteza Razavi, Morteza Razavi, Morteza Razavi, Morteza Razunguzwa, Trust Read, Randy Reamtong, Onrapak Reamtong, Onrapak Rebuffat, Sylvie Rechberger, Gerald N Reddivari, Lavanya Reddy, Amith Reddy, Christopher Reddy, Christopher M Reddy, Christopher M Reddy, Sharanya	WP 058 MP 151 MP 353 TP 495 ThP 466 TP 614 MP 292 MP 604 TP 605 MP 082 TOA am 09:30 MP 688 WP 231 TP 359 MP 322 ThP 287 WP 463 MP 443 MP 168 MP 351 TP 189 WP 159 WP 340 MP 636 TP 645 TOC pm 4:10 TP 275 TP 630 ThP 030 ThP 030 ThP 035
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Redman, Erin	.ThOD am 09:30
Redman, Erin A	
Redwine, James	
Reeber, Steven L	ThP 266
Reeber, Steven L	WOF nm 2:50
Reeber, Steven L.	
Reed, Casie	WP 493
Reed, Christopher	ThP 083
Reed, Jon	THP 563
Reed, Jon	TP 573
Rees, Jon	WP 252
Rees, Jon	
Rees, Jon	
Refsgaard, Jan	TP 542
Regazzetti, Anne	
Regnier, Fred	MP 314
Rehulka, Pavel	WP 026
Reich, Richard F	
Reichenbach, Stephen E	
Reichert, Bárbara	WP 079
Reichert, Matthew	
Reichert, Matthew	
Reid, Gavin	MP 309
Reid, Gavin	ThP 363
Reid, Michelle	
Reidenbach, Andrew G	IP 415
Reiding, Karli	MP 586
Reigada, Rebeca	TP 679
Reilly, James	
Reilly, James P	ThP 435
Reilly, James P	WP 684
Reilly, Joseph	
Reilly, Peter T A	
Reilly, Peter T A	TP 087
Reilly, Peter Ta	MP 091
Reilly, Peter Ta	
Reily, Michael	
Reimer, Ulf	MP 394
Reinsvold, Kristin	
Reisdorph, Nichole	
Reiter, Lukas	
Reiter, Lukas	WOB am 08:30
Reiter, LukasReiz, Bela	WOB am 08:30 ThP 410
Reiter, Lukas	WOB am 08:30 ThP 410 MOB am 09:50
Reiter, LukasReiz, Bela	WOB am 08:30 ThP 410 MOB am 09:50
Reiter, Lukas	WOB am 08:30 ThP 410 MOB am 09:50 MP 079
Reiter, Lukas	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 062
Reiter, Lukas	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 062 TP 539
Reiter, Lukas	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 062 TP 539
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Reiter, Lukas	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 062 TP 539 TP 159 ThP 496
Reiter, Lukas	WOB am 08:30 ThP 410 .MOB am 09:50 TP 062 TP 159 TP 159 ThP 496 ThP 492
Reiter, Lukas	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 062 TP 539 TP 159 ThP 496 TP 496 TP 492
Reiter, Lukas	WOB am 08:30
Reiter, Lukas	WOB am 08:30
Reiter, Lukas	WOB am 08:30
Reiter, Lukas	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 539 TP 159 ThP 496 ThP 492 TP 382 VP 597 WP 597
Reiter, Lukas	WOB am 08:30
Reiter, Lukas	WOB am 08:30
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Reiter, Lukas Reiz, Bela Remes, Philip M Remes, Philip M Remes, Philip M Remes, Philip M Remeš, Philip M Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jia Ren, Jia Ren, Jia	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 539 TP 159 ThP 496 TP 492 TP 382 WP 599 WP 597 MP 521 TP 533 MP 687 MP 687 MP 687
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Da Ren, Da Ren, Da Ren, Jian Min Ren, Jian Min	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 159 TP 159 TP 159 TP 382 TP 382 WP 599 WP 597 MP 521 TP 533 MP 687 MP 687 MP 576
Reiter, Lukas Reiz, Bela Remes, Philip M Remes, Philip M Remes, Philip M Remes, Philip M Remeš, Philip M Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jia Ren, Jia Ren, Jia	WOB am 08:30 ThP 410 MOB am 09:50 MP 079 TP 159 TP 159 TP 159 TP 382 TP 382 WP 599 WP 597 MP 521 TP 533 MP 687 MP 687 MP 576
Reiter, Lukas	WOB am 08:30
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Reiter, Lukas	WOB am 08:30ThP 410MOB am 09:50MP 079TP 062TP 539TP 159ThP 496ThP 496TP 382WP 599WP 597MP 521TP 533MP 687MP 576ThP 533MP 576ThP 132TP 110ThP 322TP 17058
Reiter, Lukas	WOB am 08:30ThP 410MOB am 09:50MP 079TP 062TP 539TP 159ThP 496ThP 496TP 382WP 599WP 597MP 521TP 533MP 687MP 576ThP 533MP 576ThP 132TP 110ThP 322TP 17058
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Da Ren, Jia Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua	WOB am 08:30ThP 410MOB am 09:50MP 079TP 159TP 159TP 159TP 179TP 382TP 382TP 382TP 383TP 533TP 533TP 533TP 533TP 533TP 576TP 576TP 576TP 578TP 578
Reiter, Lukas	WOB am 08:30
Reiter, Lukas Reiz, Bela Remes, Philip M Remeš, Philip M Rempel, Don Rempel, Don L Ren, Da Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianjun Ren, Xiaojum Ren, Xiaojun Ren, Yue	WOB am 08:30
Reiter, Lukas Reiz, Bela Remes, Philip M Remeš, Philip M Remeš, Philip M Rempel, Don L Ren, Da Ren, Da Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Yue	WOB am 08:30
Reiter, Lukas Reiz, Bela Remes, Philip M Remeš, Philip M Rempel, Don Rempel, Don L Ren, Da Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianjun Ren, Xiaojum Ren, Xiaojun Ren, Yue	WOB am 08:30
Reiter, Lukas Reiz, Bela Remes, Philip M Remeš, Philip M Remeš, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Zhe	WOB am 08:30ThP 410MOB am 09:50MP 079TP 062TP 539TP 159ThP 496ThP 496TP 382WP 599WP 597MP 521TP 533MP 687MP 576ThP 332MP 576ThP 333ThP 110ThP 332ThP 110ThP 353ThP 110ThP 353ThP 110TP 058WP 523MP 157 ThOD am 09:10WP 443WP 333
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jia Ren, Jia Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Yue Ren, Yue Ren, Zhe Renaut, Jenny	WOB am 08:30ThP 410MOB am 09:50MP 079TP 159TP 159TP 159TP 179TP 382TP 189TP 382TP 593TP 597TP 533MP 597MP 521TP 533MP 576TP 533MP 576TP 533TP 110ThP 332TP 533ThP 110ThP 322TP 058TP 058WP 523TP 157TP 518
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Yue Ren, Yue Ren, Yue Renaut, Jenny Renée Doratioto, Tábata	.WOB am 08:30ThP 410MOB am 09:50MP 079TP 539TP 159TP 159TP 179TP 382TP 533TP 533MP 521TP 533MP 687MP 576TP 533MP 576TP 533TP 110TP 382TP 058TP 110TP 322TP 058TP 058TP 110TP 322TP 058TP 110TP 323TP 110TP 323TP 110TP 323TP 157TP 333TP 533TP 533TP 533TP 533TP 533TP 533TP 533TP 533
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Ren, Da Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojun Ren, Yue Ren, Yue Ren, Zhe Renaut, Jenny Renée Doratioto, Tábata Renfrow, Matthew	WOB am 08:30
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Yue Ren, Yue Ren, Yue Renaut, Jenny Renée Doratioto, Tábata	WOB am 08:30
Reiter, Lukas Reiz, Bela Remes, Philip M Remeš, Philip M Remeš, Philip M Rempel, Don L Rem, Da Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianjun Ren, Xiaojun Ren, Yue Ren, Yue Ren, Yue Ren, Yue Ren, Yue Ren, Zhe Renaut, Jenny Renée Doratioto, Tábata Renfrow, Matthew Renfrow, Matthew	WOB am 08:30
Reiter, Lukas Reiz, Bela Remes, Philip M Remeš, Philip M Remeš, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua Ren, Jianhu	WOB am 08:30ThP 410MOB am 09:50MP 079TP 062TP 539TP 159ThP 496ThP 496ThP 496TP 382WP 599WP 597MP 521TP 533MP 687MOF pm 2:30MP 576ThP 333ThP 110ThP 333ThP 110ThP 322MP 573ThP 110ThP 323TP 518WP 523MP 157ThOD am 09:10WP 443WP 333TP 518ThP 518ThP 481MP 592TP 374WP 621
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jia Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Yue Ren, Zhe Renaut, Jenny Renée Doratioto, Tábata Renfrow, Matthew	.WOB am 08:30ThP 410MOB am 09:50MP 079TP 159TP 159TP 159TP 179TP 382WP 599WP 597MP 521TP 533MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533TP 110TP 533TP 110TP 322TP 058WP 523MP 157 ThOD am 09:10WP 443WP 333TP 518TP 518ThP 481MP 592TP 374WP 621TP 374
Reiter, Lukas Reiz, Bela Remes, Philip M Remeš, Philip M Remeš, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua Ren, Jianhu	.WOB am 08:30ThP 410MOB am 09:50MP 079TP 159TP 159TP 159TP 179TP 382WP 599WP 597MP 521TP 533MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533TP 110TP 533TP 110TP 322TP 058WP 523MP 157 ThOD am 09:10WP 443WP 333TP 518TP 518ThP 481MP 592TP 374WP 621TP 374
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojum Ren, Yue Renfow, Matthew Renfrow, Matthew Rengre, John	.WOB am 08:30ThP 410MOB am 09:50MP 079TP 159TP 159TP 159TP 179TP 382TP 533TP 533MP 597MP 521TP 533MP 687MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533ThP 110ThP 322TP 058MP 576TP 553TP 110TP 922TP 158TP 158TP 518TP 518TP 518TP 481MP 592TP 374WP 621TP 424MP 451
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Yue Ren, Ye Renaut, Jenny Renée Doratioto, Tábata Renfrow, Matthew Renforow, Matthew Renforow, Matthew Renforow, Matthew Renforow, Matthew Renforow, John Renger, John	WOB am 08:30ThP 410MOB am 09:50MP 079TP 539TP 159TP 159TP 496TP 382WP 597MP 576TP 533MP 687MP 576TP 533TP 110MP 576TP 533TP 110TP 533TP 110TP 533TP 518TP 576TP 578TP 481TP 481
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Jian Min Ren, Jianhua Ren,	WOB am 08:30
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Yue Ren, Zhe Renaut, Jenny Renée Doratioto, Tábata Renfrow, Matthew Renfrow, John Renger, John Renger, John Renger, John Rennie, Emma Rennie, Emma	WOB am 08:30ThP 410MOB am 09:50MP 079TP 159TP 159TP 159TP 179TP 382WP 599WP 597MP 521TP 533MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533TP 110TP 533TP 110TP 322TP 058WP 523MP 157 ThOD am 09:10WP 443WP 333TP 518TP 518TP 518TP 424MP 592TP 424MP 451 ThOG am 10:10WP 052TP 424MP 451 ThOG am 10:10WP 052TP 127
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Da Ren, Da Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jian Min Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Jianhua Ren, Xiaojum Ren, Xiaojum Ren, Xiaojum Ren, Yue Ren, Yue Ren, Yue Ren, Zhe Renaut, Jenny Renée Doratioto, Tábata Renfrow, Matthew Renfrow, John Renger, John Renger, John Renger, John Rennie, Emma Rennie, Emma	WOB am 08:30ThP 410MOB am 09:50MP 079TP 159TP 159TP 159TP 179TP 382WP 599WP 597MP 521TP 533MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533MP 576TP 533TP 110TP 533TP 110TP 322TP 058WP 523MP 157 ThOD am 09:10WP 443WP 333TP 518TP 518TP 518TP 424MP 592TP 424MP 451 ThOG am 10:10WP 052TP 424MP 451 ThOG am 10:10WP 052TP 127
Reiter, Lukas Reiz, Bela Remes, Philip M Rempel, Don Rempel, Don L Rempel, Don L Rempel, Don L Rempel, Don L Ren, Da Ren, Jian Min Ren, Jianhua Ren,	.WOB am 08:30ThP 410MOB am 09:50MP 079TP 159TP 159TP 159TP 179TP 382WP 599WP 597MP 521TP 533MP 576TP 518TP 518TP 518TP 518TP 518TP 518TP 518TP 481MP 592TP 374WP 621TP 424MP 451 ThOG am 10:10WP 052TP 424MP 451 ThOG am 10:10WP 052MP 127MP 127MP 643

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Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia	ThP 612 MOC am 08:50 MOG am 09:50 MP 367 WP 246 MOD pm 2:50
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia	ThP 612 MOC am 08:50 MOG am 09:50MP 367WP 246MOD pm 2:50MP 573
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy	ThP 612 MOC am 08:50 MOG am 09:50WP 246MOD pm 2:50MP 573MP 644
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas	ThP 612 MOC am 08:50 MOG am 09:50WP 246MOD pm 2:50MP 573MP 640MP 699
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith	ThP 612 MOC am 08:56 MOG am 09:56
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Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Daisy Richardson, Keith	ThP 612 MOC am 08:50 MOG am 09:56MP 367MP 246MOD pm 2:50MP 690MP 691MP 133MP 133ThOA pm 2:30ThP 588
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 WP 244MOD pm 2:50 MP 573
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith	ThP 612 MOC am 08:56 MOG am 09:56MP 367MP 244MOD pm 2:50MP 677MP 644MP 697MP 133ThOA pm 2:30ThP 584ThP 584TOA am 08:56
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Deisy Richardson, Keith	ThP 612 MOC am 08:56 MOG am 09:56MP 367MP 573MP 644MP 699MP 133MP 133MP 134MP 644MP 645MP 646MP 637MP 136MP 137MP 137MP 138
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Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith	ThP 612 MOC am 08:56 MOG am 09:56 MP 367
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 246MOD pm 2:50 MP 677MP 697MP 133MP 133MP 134MP 136MP 697MP 697MP 647MP 642MP 6446MP 476MP 482
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 WP 244MOD pm 2:50 MP 673MP 69MP 133MP 133ThP 58ThP 642 TOA am 08:56TP 070TP 120WP 476WP 482ThP 08*
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 244MOD pm 2:50 MP 677 MP 644MOD pm 2:30MP 133ThP 578 ThP 642TOA am 08:56TP 070TP 123TP 125TP 476TP 476TP 476TP 486ThP 12:TP 12:TOG pm 2:30
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Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Susan Richardson, Susan Richardson, Susan Riches, Eleanor Riches, Eleanor	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 244MOD pm 2:50 MP 573 MP 694MP 133 MP 133 ThOA pm 2:30ThP 642TOA am 08:56TP 070TP 120MP 483ThP 083ThP 084ThP 085ThP 126TOG pm 2:30 MOG am 08:30MP 655
Riandé, Sandrine Riba-Carcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Sara Richardson, Susan Richardson, Susan Riches, Eleanor	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 244MOD pm 2:50 MP 673MP 644MP 133ThP 582ThP 642 ThP 642 TOA am 08:56TP 070TP 123MP 478MP 482ThP 082ThP 083ThP 125MP 482ThP 083ThP 126MP 483ThP 084ThP 085ThP 126THP 127THP 128THP 086ThP 129THP 129TH
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Susan Richardson, Susan Riches, Eleanor	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 244MOD pm 2:50 MP 573 MP 644MOD pm 2:33MP 133ThP 588 ThP 642TOA am 08:56TP 070TP 123ThP 123ThP 125TOG pm 2:30 MP 476MP 486ThP 12
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Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Susan Richardson, Susan Richardson, Susan Riches, Eleanor Riches, Eleanor Riches, Eleanor Ricke, Will Rida, Amar Ridgeway, Mark	ThP 612 MOC am 08:56 MOG am 09:56
Riandé, Sandrine Riba-Carcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Sara Richardson, Susan Richardson, Susan Riches, Eleanor Riches, Eleanor Riches, Eleanor Riches, Eleanor Riches, Eleanor Riches, Eleanor Rick, Steven W. Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 244MOD pm 2:50 MP 673MP 689MP 133MP 133ThP 642 TOA am 08:56TP 070TP 122MP 476MP 689MP 689TP 070TP 120MP 476MP 482ThP 682ThP 083MP 655ThP 062MP 656MP 656MP 656MP 656MP 651MP 152MP 152
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Susan Richardson, Susan Richardson, Susan Riches, Eleanor Riches, Eleanor Riches, Eleanor Ricke, Will Rida, Amar Ridgeway, Mark	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 244MOD pm 2:50 MP 673MP 689MP 133MP 133ThP 642 TOA am 08:56TP 070TP 122MP 476MP 689MP 689TP 070TP 120MP 476MP 482ThP 682ThP 083MP 655ThP 062MP 656MP 656MP 656MP 656MP 651MP 152MP 152
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Sara Richardson, Susan Richardson, Susan Riches, Eleanor Riches, Mill Rida, Amar Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark Ridgeway, Mark	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 244MOD pm 2:50 MP 697 MP 697 MP 133ThO Apm 2:30ThP 584TOA am 08:56ThP 406MP 437 MP 487TOG pm 2:30 MP 697 MP 697 MP 137 MP 147 MP 147 MP 147 MP 147 MP 147 MP 148 MP 147 MP 148 MP 149 MP 147 MP 147 MP 148 MP 147 MP 148 MP 149 MP 149 MP 149 MP 149 MP 147 MP 156 MP 166 MP 386 MP 166 MP 386 MP 166 MP 386 MP 166 MP 386 MP 17 MP 186 M
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Seith Richardson, Seith Richardson, Susan Richardson, Susan Richardson, Susan Richardson, Susan Riches, Eleanor Riches, Eleanor Riches, Eleanor Riches, Eleanor Riches, Eleanor Riches, Steven W Ridgeway, Mark	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 246MOD pm 2:50 MP 573 MP 693MP 133MP 133MP 133ThOA pm 2:36ThP 642TOA am 08:56ThP 123MP 476MP 482ThP 08:ThP 08:ThP 16:TOB pm 2:36 MOG am 08:33MP 65:MP 66:MP 66:MP 60:MP 130 MP 476MP 482MP 476MP 483MP 65:MP 144MP 145MP 145MP 145MP 145MP 145MP 145MP 145MP 155MOC am 09:56 WOC am 09:56WOG pm 2:56
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Sara Richardson, Susan Richardson, Susan Richardson, Susan Richardson, Susan Riches, Eleanor Riches, Eleanor Riches, Eleanor Riches, Eleanor Rida, Amar Ridageway, Mark Ridgeway, Mark	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 246MOD pm 2:50 MP 573 MP 69MP 133MP 133 ThOA pm 2:30 ThP 588ThP 644 .TOA am 08:56TP 070MP 483MP 12:MP 484MP 690 MP 690 MP 486MP 690 MP 486MP 141MP 145MP 146MP 147MP 148MP 148MP 148MP 148MP 148MP 148MP 148
Riandé, Sandrine Riba-Garcia, Isabel Ribeiro, Ingrid Chastinet Ribeiro, José Ricci, Romeo Richards, Alicia Richards, Alicia Richardson, Daisy Richardson, Douglas Richardson, Keith Richardson, Sara Richardson, Susan Richardson, Susan Richardson, Susan Riches, Eleanor Riches, Steven W Ricke, Will Rida, Amar Ridgeway, Mark	ThP 612 MOC am 08:56 MOG am 09:56 MP 367 MP 244MOD pm 2:50MP 677MP 697MP 133MP 133MP 133MP 133MP 133MP 134MP 697MP 697MP 697MP 698MP 697MP 476MP 488MP 488MP 698MP 698MP 699MP 476MP 488MP 696MP 696MP 696MP 696MP 696MP 148MP 149MP 149
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Riener, Joerg		Rodgers, Ryan P	•
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iffle, Michael		rodland, karin	
igano, Francesca		Rodland, Karin D.	
igard, Mélanie		Rodnina, Marina V	
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timl, Christian		Roecker, Anthony	
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loach, Peter		Rogniaux, Hélène	
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loberts, Dominic		Rohn, Sascha	
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loberts, Dominic		Rohrs, Henry W	
Roberts, Jenny R		Rohrs, Henry W	
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Robinson, Carol		Rollman, Christopher	
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Robinson, Carol V		Rolser, Robin	
Robinson, Errol W		Roman, Gregory	
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Robinson, Errol W		Roman, Gregory	
Robinson, Helen		Roman, Gregory	
Robinson, John		Romanczyk, Mark	
Robinson, Mary		Romanova, Elena	
Robinson, Mary		Romanova, Elena	
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obotham, Scott		Romão, Wanderson	
loboz, John		Rombouts, Yoann	
obyn, Kaake		Romijn, Fred	
locconi, Rodney		Romm, Michelle	
locha, Daniele F. O		Rompais, Magali	
ocha, Werickson		Römpp, Andreas	
ochat, Bertrand		Romson, Joakim	
ochelle, Nishi		Ronald, Moore J	
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Russell, David H. Russell, David H. Russell, David H. Russell, Jared Russell, Jason Russell, Jason Russell, Thomas Russell, William K. Ruzicka, Josef	
Russell, David H. Russell, David H. Russell, David H. Russell, Jared Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554
Russell, David H. Russell, David H. Russell, David H. Russell, Jared Russell, Jared Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy Ryan, Chris	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10
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Russell, David H. Russell, David H. Russell, David H. Russell, Jared Russell, Jared Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy Ryan, Chris Ryan, Christopher Ryan, Jeanne P Rychnovsky, Scott Ryter, Kendal Ryu, Do Hyun Ryu, Do Hyun Ryumin, Pavel	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 263 MP 086
Russell, David H. Russell, David H. Russell, David H. Russell, Jared Russell, Jared Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy Ryan, Chris Ryan, Christopher Ryan, Jeanne P. Rychnovsky, Scott Ryter, Kendal Ryu, Do Hyun Ryu, Do Hyun Ryumin, Pavel Ryumin, Pavel Ryussell, David H.	
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Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason. Russell, Jason. Russell, Matthew. Russell, Thomas. Russell, William K. Ruzicka, Josef. Ryan, Andy. Ryan, Chris. Ryan, Christopher. Ryan, Jeanne P. Rychnovsky, Scott. Ryter, Kendal. Ryu, Do Hyun. Ryu, Do Hyun. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryzhov, Victor. Ryzhov, Victor.	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:30 TP 045
Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy. Ryan, Chris Ryan, Christopher Ryan, Jeanne P Rychnovsky, Scott Ryter, Kendal Ryu, Do Hyun Ryu, Do Hyun Ryu, Do Hyun Ryumin, Pavel Ryumin, Pavel Ryumin, Pavel Ryzhov, Victor Ryzhov, Victor SA, Deepak	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 MP 555 MP 255 MP 257 MP 479 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:50 TP 045 WP 219
Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason. Russell, Jason. Russell, Matthew. Russell, Thomas. Russell, William K. Ruzicka, Josef. Ryan, Andy. Ryan, Chris. Ryan, Christopher. Ryan, Jeanne P. Rychnovsky, Scott. Ryter, Kendal. Ryu, Do Hyun. Ryu, Do Hyun. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryzhov, Victor. Ryzhov, Victor.	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 MP 555 MP 255 MP 257 MP 479 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:50 TP 045 WP 219
Russell, David H. Russell, David H. Russell, David H. Russell, Jared Russell, Jared Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy Ryan, Chris Ryan, Christopher Ryan, Jeanne P Rychnovsky, Scott Ryter, Kendal Ryu, Do Hyun Ryunin, Pavel Ryumin, Pavel Ryumin, Pavel Ryzhov, Victor Ryzhov, Victor SA, Deepak Saalbach, Gerhard	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:50 ThOE am 08:30 TP 045 WP 219
Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason. Russell, Jason. Russell, Matthew Russell, Thomas. Russell, William K. Ruzicka, Josef. Ryan, Andy. Ryan, Christopher Ryan, Jeanne P. Rychnovsky, Scott Ryter, Kendal. Ryu, Do Hyun. Ryu, Do Hyun. Ryumin, Pavel Ryumin, Pavel Ryumin, Pavel Ryzhov, Victor. Ryzhov, Victor. SA, Deepak. Saalbach, Gerhard. Saba, Julian.	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10 MP 257 MP 479 TTOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 THOE am 08:30 TP 045 WP 219 MP 575 MP 668
Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason. Russell, Jason. Russell, Matthew. Russell, Thomas. Russell, William K. Ruzicka, Josef. Ryan, Andy. Ryan, Christopher. Ryan, Jeanne P. Rychnovsky, Scott. Ryter, Kendal. Ryu, Do Hyun. Ryu, Do Hyun. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryzhov, Victor. SA, Deepak. Saalbach, Gerhard. Saba, Julian.	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 174 WOA am 08:50 THOE am 08:30 TP 045 WP 219 MP 575 MP 668 ThP 575
Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason. Russell, Jason. Russell, Matthew. Russell, Thomas. Russell, William K. Ruzicka, Josef. Ryan, Andy. Ryan, Chris. Ryan, Christopher. Ryan, Jeanne P. Rychnovsky, Scott. Ryter, Kendal. Ryu, Do Hyun. Ryu, Do Hyun. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryzhov, Victor. Ryzhov, Victor. SA, Deepak. Saalbach, Gerhard. Saba, Julian. Saba, Julian. Sabatini, David.	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:30 TP 045 WP 219 MP 575 MP 668 ThP 575 ThP 486
Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason. Russell, Jason. Russell, Matthew. Russell, Thomas. Russell, William K. Ruzicka, Josef. Ryan, Andy. Ryan, Christopher. Ryan, Jeanne P. Rychnovsky, Scott. Ryter, Kendal. Ryu, Do Hyun. Ryu, Do Hyun. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryzhov, Victor. SA, Deepak. Saalbach, Gerhard. Saba, Julian.	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:30 TP 045 WP 219 MP 575 MP 668 ThP 575 ThP 486
Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy. Ryan, Chris Ryan, Christopher Ryan, Jeanne P. Rychnovsky, Scott Ryter, Kendal Ryu, Do Hyun Ryu, Do Hyun Ryu, Do Hyun Ryumin, Pavel Ryumin, Pavel Ryumin, Pavel Ryumin, Pavel Ryumin, Pavel Ryzhov, Victor SA, Deepak Saalbach, Gerhard Saba, Julian Saba, Julian Sabatini, David Sabidó, Eduard	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 MP 257 MP 255 MP 479 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:30 ThOE am 08:50
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Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason. Russell, Jason. Russell, Matthew. Russell, Thomas. Russell, William K. Ruzicka, Josef. Ryan, Andy. Ryan, Christopher. Ryan, Christopher. Ryan, Jeanne P. Rychnovsky, Scott. Ryter, Kendal. Ryu, Do Hyun. Ryu, Do Hyun. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryzhov, Victor. SA, Deepak. Saalbach, Gerhard. Saba, Julian. Saba, Julian. Sabatini, David. Sabidó, Eduard. Sabidó, Eduard. Sabler, Peter J.	
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Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason. Russell, Jason. Russell, Matthew. Russell, Thomas. Russell, William K. Ruzicka, Josef. Ryan, Andy. Ryan, Chris. Ryan, Christopher. Ryan, Jeanne P. Rychnovsky, Scott. Ryter, Kendal. Ryu, Do Hyun. Ryu, Do Hyun. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryumin, Pavel. Ryzhov, Victor. SA, Deepak. Saalbach, Gerhard. Saba, Julian. Saba, Julian. Sabatini, David. Sabidó, Eduard. Sabidó, Eduard. Sabidó, Eduard. Sadler, Peter J. Sadre, Radin. Sadygov, Rovshan.	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 THOE am 08:30 TP 045 WP 219 MP 575 MP 468 ThP 575 MP 486 MP 476 MP 476 MP 476 MP 476 MP 476 MP 350 MP 350 MP 486 MP 476 MP 525 TP 507 MOC pm 3:10 MP 350
Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy. Ryan, Chris Ryan, Christopher Ryan, Jeanne P. Rychnovsky, Scott Ryter, Kendal Ryu, Do Hyun Ryu, Do Hyun Ryu, Do Hyun Ryumin, Pavel Ryumin, David Sabidó, Eduard Sabidó, Eduard Sabidó, Eduard Sachdev, Raj Sadler, Peter J. Sadre, Radin Sadygov, Rovshan Saepoo, Brooke	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 MP 257 MP 255 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:50 MP 219 MP 575 ThOE am 08:50 MP 476 MP 476 MP 476 MP 480 MP 480 MP 480 WP 286
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Russell, David H. Russell, David H. Russell, David H. Russell, Jared. Russell, Jared. Russell, Jason Russell, Jason Russell, Matthew Russell, Thomas Russell, William K. Ruzicka, Josef Ryan, Andy. Ryan, Chris Ryan, Christopher Ryan, Jeanne P. Rychnovsky, Scott Ryter, Kendal Ryu, Do Hyun Ryu, Do Hyun Ryu, Do Hyun Ryumin, Pavel Ryumin, David Sabidó, Eduard Sabidó, Eduard Sabidó, Eduard Sachdev, Raj Sadler, Peter J. Sadre, Radin Sadygov, Rovshan Saepoo, Brooke	WP 561 WP 566 WP 567 TP 314 MOF pm 2:50 MP 571 MP 554 ThP 137 WOF am 09:30 TP 251 MP 554 TOD am 10:10 MP 257 MP 479 ThOF pm 3:30 MOH pm 3:10 TP 174 TP 263 MP 086 ThP 014 WOA am 08:50 ThOE am 08:30 TP 045 WP 219 MP 575 MP 668 ThP 575 ThP 486 MP 476 MP 575 ThP 486 MP 476 MP 525 TP 507 MOC pm 3:10 MP 350

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Sarkar, Depanjan Sarkar, Prasenjit Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir Sarpe, Vladimir	ThP 01:
Sarkar, Depanjan Sarkar, Prasenjit Sarmanho, Gabriel F Sarpal, Amarjit S Sarpe, Vladimir Sarpe, Vladimir Sarpong, Kwabena	ThP 01:
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Sarkar, Depanjan. Sarkar, Prasenjit Sarmanho, Gabriel F Sarpal, Amarjit S Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena Sarracino, David. Sarracino, David. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn Sarsby, Joscelyn Sartain, Mark	ThP 01: ThP 30: WP 04: .MOG am 09:56 .MP 19: .MP 63: .MP 15: .MP 16: .MP 16: .MP 31: .MP 31: .MP 03: .MP 03:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F	
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F	ThP 01: ThP 30: WP 04MOG am 09:56 .MP 190 .ThP 430 .MP 150 .TP 161 .MP 311 .MOA pm 4:10 .MP 05: WP 05: WP 260 .ThP 41-
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F	ThP 01: ThP 30: WP 04 .MOG am 09:56
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F	ThP 01: ThP 30: WP 04 .MOG am 09:56
Sarkar, Depanjan Sarkar, Prasenjit Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena Sarracino, David Sarracino, David Sarracino, David Sarracino, David Sarsby, Joscelyn Sarsby, Joscelyn Sartain, Mark Sartain, Mark Sasuga, Junji Satheesh Kumar, N. Sato, Afsushi Sato, Hiroaki	ThP 01: ThP 30: WP 04: .MOG am 09:50 .MP 19:
Sarkar, Depanjan Sarkar, Prasenjit Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena Sarracino, David Sarracino, David Sarracino, David Sarracino, David Sarsby, Joscelyn Sarsby, Joscelyn Sartain, Mark Sartain, Mark Sasuga, Junji Satheesh Kumar, N. Sato, Afsushi Sato, Hiroaki	ThP 01: ThP 30: WP 04: .MOG am 09:50 .MP 19:
Sarkar, Depanjan. Sarkar, Prasenjit Sarmanho, Gabriel F Sarpal, Amarjit S Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sartain, Mark. Sartain, Mark. Sasuga, Junji. Satheesh Kumar, N. Sato, Hiroaki. Sato, Hiroaki. Satoh, Takaya.	ThP 01: ThP 30: WP 03: MOG am 09:50 MP 19: MP 15: MP 15: MP 15: MOA pm 4:11 MP 03: WP 05: WP 26: ThP 41: MP 26: ThP 42: ThP 46: WP 26: ThP 41: MP 26: WP 26: ThP 41: MP 26: WP 52:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpa, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sartain, Mark. Sartain, Mark. Sasuga, Junji. Satheesh Kumar, N. Sato, Alsushi. Sato, Hiroaki. Satoh, Takaya. Satomi, Yoshinori.	ThP 01: ThP 30: WP 04- MOG am 09:56 MP 190 ThP 430 WP 63: MP 15: TP 161 WP 311 MOA pm 4:10 MP 05: WP 26: ThP 42: ThP 42: ThP 60: WP 520 TP 60:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sartain, Mark. Sasuga, Junji. Satheesh Kumar, N. Sato, Atsushi. Sato, Hiroaki. Satomi, Yoshinori. Sauer, Uwe.	ThP 01: ThP 30: WP 04- MOG am 09:54 MP 190: ThP 430 WP 63: MP 15: MP 16: WP 311 MOA pm 4:10 MP 05: WP 26: ThP 42: ThP 42: ThP 60: WP 520 TP 60: MP 62:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F	ThP 01: ThP 30: WP 04: MOG am 09:56 MP 19: MP 19: MP 15: MP 15: MP 31: MOA pm 4:10 MP 03: WP 05: MP 28: ThP 42: ThP 42: MP 52: MP 52: MP 62: WP 52: MP 62: WOD am 08:56
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Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpal, Amarjit S Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarshy, Joscelyn. Sarsain, Mark. Sartain, Mark. Sartain, Mark. Sato, Hiroaki. Sato, Hiroaki. Sato, Hiroaki. Satoh, Takaya. Satomi, Yoshinori. Saulnier, Luc Saulnders, Janet C. Sauter, Andrew.	ThP 01: ThP 30: WP 04: MOG am 09:50 MP 19: MP 63: MP 15: MP 15: MP 63: MP 15: MP 63: MP 16: MP 28: MP 65: MP 26: MP 60: MP 45: MP 45:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarshy, Joscelyn. Sartain, Mark. Sartain, Mark. Sato, Atsushi. Sato, Atsushi. Sato, Hiroaki. Satoh, Takaya. Satomi, Yoshinori. Sauer, Uwe. Saulnier, Luc. Saunders, Janet C. Sauter, Andrew. Sauter, Drew.	ThP 01: ThP 30: WP 04- MOG am 09:56 MP 190 ThP 430 WP 63: MP 15: TP 160 WP 310 MP 03: WP 05: WP 260 ThP 41- MP 28: ThP 460 WP 520 WP 560 MP 620 MP 620 WOD am 08:55 WP 45: WP 45: WP 45:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir Sarpe, Vladimir Sarpe, Vladimir Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sartain, Mark. Sasuga, Junji. Satheesh Kumar, N Sato, Atsushi. Sato, Hiroaki. Satoh, Takaya. Satomi, Yoshinori. Sauer, Uwe Saulnier, Luc. Saunders, Janet C. Saunter, Andrew. Sauter, Drew	ThP 01: ThP 30: WP 04- MOG am 09:54 MP 190: ThP 430 WP 63: MP 15: TP 160: WP 31: MOA pm 4:10 MP 05: WP 26: ThP 42: ThP 660: WP 520 WP 260: WP 620: WP 620: WP 620: WP 620: WP 41- MP 05: WP 41- MP 620: WP 520 MP 620: WP 450: WP 450: WP 450: MP 620: WP 450: MP 620: WP 450: MP 620: WP 450: MP 620: MP 620: WP 450: MP 620: MP 620: WP 450: MP 610: MP 010: MP 010: MP 010:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F	ThP 01: ThP 30: WP 04- MOG am 09:56 MP 190 ThP 430 WP 63: MP 15: TP 160 WP 31: MOA pm 4:10 MP 05: WP 26: ThP 41: MP 28: ThP 46: WP 52: ThP 60: WP 52: TP 60: MP 62: WP 45: WP 45
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Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sartain, Mark. Sartain, Mark. Sattain, Mark. Satto, Hiroaki. Sato, Hiroaki. Satoh, Takaya. Satomi, Yoshinori. Sauer, Uwe Saunders, Janet C. Saunders, Janet C. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauter, Sébastien.	ThP 01: ThP 30: WP 04 .MOG am 09:50 .MP 190
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarshy, Joscelyn. Sarshy, Joscelyn. Sartain, Mark. Sartain, Mark. Sartain, Mark. Sato, Atsushi. Sato, Atsushi. Sato, Atsushi. Sato, Hiroaki. Satoh, Takaya. Satomi, Yoshinori. Sauer, Uwe. Saulnier, Luc. Saunders, Janet C. Sauter, Andrew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauvé, Sébastien. Sauvé, Sébastien. Savchenko, Vlad.	ThP 01: ThP 30: WP 04- MOG am 09:5 MP 190 ThP 430 WP 63: MP 15: TP 160 WP 310 MOA pm 4:11 MOA pm 4:11 MP 28: ThP 460 WP 520 MP 620 WP 520 WP 260 MP 620 WOD am 08:55 WP 45: MP 01- MP 05: WP 45:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarstain, Mark. Sasuga, Junji. Satheesh Kumar, N. Sato, Atsushi. Sato, Hiroaki. Satomi, Yoshinori. Sauer, Uwe. Saulnier, Luc. Saunders, Janet C. Saunders, Janet C. Sauter, Andrew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauter, Drew. Sauvé, Sébastien. Sauve, Sepasien. Savvé, Sébastien. Savchenko, Vlad. Saveliev, Sergei.	ThP 01: ThP 30: WP 04- MOG am 09:56 MP 190 ThP 430 WP 63: MP 15: TP 160 WP 311 MOA pm 4:10 MP 05: WP 26: WP 26: ThP 40: MP 62: WP 50: WP 26: WP 50: WP 40: MP 62: TP 60 MP 62: WP 40: WP
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Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F	ThP 01: ThP 30: WP 04: MOG am 09:56 MP 199 ThP 430 WP 63: MP 15: MOA pm 4:10 MP 05: WP 26: ThP 41: MP 28: ThP 60: MP 62: WP 45: MP 05: WP 45: MP 01: MP 03: WP 45: MP 01: MP 05: WP 45: MP 01:
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F	ThP 01: ThP 30: WP 04: MOG am 09:56 MP 196 MP 63: WP 63: MP 15: MP 16: WP 31: MOA pm 4:10 MP 05: WP 26: ThP 41: MP 28: ThP 40: WP 52: WP 26: WP 26: WP 46: WP 50: WP 46: WP 41: MP 01: WP 45: W
Sarkar, Depanjan. Sarkar, Prasenjit. Sarmanho, Gabriel F Sarpal, Amarjit S. Sarpe, Vladimir. Sarpe, Vladimir. Sarpe, Vladimir. Sarpong, Kwabena. Sarracino, David. Sarracino, David. Sarracino, David. Sarsby, Joscelyn. Sarsby, Joscelyn. Sarsby, Joscelyn. Sartain, Mark. Sasuga, Junji. Satheesh Kumar, N. Sato, Atsushi. Sato, Hiroaki. Satomi, Yoshinori. Sauer, Uwe.	ThP 01: ThP 30: WP 04- MOG am 09:5 MP 190 ThP 430 WP 63: MP 15: TP 160 WP 310 MP 05: WP 260 MP 260 MP 28: ThP 460 WP 520 MP 620 WOD am 08:55 WP 45: MP 05: WP 45: MP 05: WP 45: MP 05: WP 45: MP 05: WP 45: MP 06: MP 07: MP 08: MP 07: MP 07: MP 08: MP 08: MP 08: MP 08: MP 08: MP 13: M



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Sawyen, Ow		Schmidt, Eduardo		Schwartz, Richard	
Saxena, Divya		Schmidt, Eduardo		Schwartz, Steven	
Saxton, Arnold		Schmidt, Eduardo		Schwarz, Helmut	•
Sayer, Caroline Scalf, Mark		Schmidt, Eduardo Morgado Schmidt, Johannes		Schwarz, Veronika Schwarzinger, Clemens	
Scalf, Mark		Schmidt, Michael		Schweiger-Hufnagel, Ulrike	
Scalf, Mark		Schmit, Pierre-Olivier		Schweikert, Emile A	
Schaab, Christoph		Schmit, Pierre-Olivier		Schweingruber, Hans	
Schaefer, Jacob		Schmitz, Frank		Schweingruber, Hans	
Schaefer, Ralf		Schmitz, Oliver J		Schweitzer, Mary	
Schaefer, Tanja	WOF am 10:10	Schmitz, Oliver J	ThP 637	Schweppe, Devin	ThP 502
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Schaff, Jason		Schneider, Birgit		Scigelova, Michaela	
Schaffer, Jean		Schneider, Brad	•	Scigelova, Michaela	
Schaffer, Jean		Schneider, Bradley B		Sciuto, Stephen	
Schaller-Duke, Ranelle M		Schneider, Michael		Scott, Alasdair J	
Schambeau, Lindsay Schambeau, Lindsay		Schnieke, Angelika Schnier, Paul		Scott, Alison Scott, Alison J.	
Schanen, Pierre		Schnölzer, Martina		Scott, Kerry M.	
Schanen. Pierre		Schoch, Angela		Scott, Matthew	
Schantz, Staffan		Schoeb, Trenton		Scott, Nichollas E	
Schänzer, Wilhelm		Schoen, Alan		Scott, Nichollas E	
Scharf, Annette N.D	ThP 523	Schoener, Dale	ThP 617	Scrivens, James	
Schaus, Yvonne	TP 230	Schoener, Dale	TP 408	Scrivens, James	
Scheffler, Kai		Schoenherr, Regine		Scrivens, James	
Scheffler, Kai		Scholma, Jetse		Seah, Lay Hoon	
Scheffler, Kai		Schordock, Deborah		Searle, Brian	
Scheibner, Olaf		Schorr, Pascal		Searle, Brian	
Scheibner, Olaf		Schottkowsky, Ralf		Searle, Brian C	
Scheibner, Olaf		Schrader, Wolfgang		Searle, Brian C	
Scheiderer, Robin		Schrader, Wolfgang Schraen-Maschke, Susanna		Sears, Joe Secher, Anna	
Schellenberg, Matthew Schenk, Emily		Schreiber, Andre		Séchet, Véronique	
Schennach, Moritz		Schreiber, Andre		Second, Tonya	
Scherer, Philipp E		Schriemer, David		Sedee, Norbert	
Scherrer, David		Schriemer, David		Sederoff, Ronald	
Schey, Kevin		Schriemer, David		Seeberger, Peter	
Schey, Kevin L		Schriemer, David		Seeberger, Peter H	
Schey, Kevin L	TP 684	Schroeder, Frank	MOD pm 3:10	Seeberger, Peter H	MP 603
Schieltz, David		Schroeder, Tara	MP 491	Seegers, Susan	WP 091
Schieltz, David M		Schroeder, Tara		Seeley, Erin	
Schieltz, David M		Schroeder, Tara		Seeley, Erin H	
Schier, Marie Catherine		Schroeter, Elena		Seeley, Erin H	
Schiffmann, Raphael		Schubert, Ulrich S		Seemann, Boaz	
Schildknecht, Stefan Schilling, Birgit		Schug, Kevin		Segeritz, Charis-Patricia Segura, Pedro A	
Schilling, Birgit		Schug, KevinSchug, Kevin		Segura, Pedro A	
Schilling, Birgit		Schug, Kevin		Seidl, Andreas	
Schilling, Birgit	TP 150	Schugar, Rebecca		Seki, Toshio	
Schilling, Christina		Schuhmann, Kai	•	Sekimoto, Kanako	
Schinazi, Raymond		Schulte, Hendrik J		Sekimoto, Kanako	
Schirle, Markus		Schultheis, Anna		Sekino, Tetsuo	
Schlabach, Timothy	MP 314	Schultz, Christopher		Sekiya, Sadanori	
Schlangen, Maria		Schultz, J Albert		Selek, Laurent	
Schlapbach, Ralph		Schultz, J Albert		Selevsek, Nathalie	
Schlatzer, Daniela M		Schultz, J. Albert		Selleck, Ryan	
Schlatzer, Daniela M		Schultz, J. Albert		Selley, Julian	
Schlatzer, Daniela M		Schultz, J. Albert		Selness, Daniel	
Schlauch, Karen A		Schultz, Melissa M Schultz. Patrick		Selzner, Markus	•
Schlecht, Nicolas Schlegl, Judith		Schultze, Kevin		Sen, Kadir Ilker Seneviratne, Chinthaka A	
Schliekelman, Paul		Schulz, Angela		Seneviratne, Chinthaka A	
Schlosser, Andreas		Schulz, Michael		Seneviratne, Uthpala	
Schlosser, Andreas		Schulz, Sabine		Senior, Adam	
Schlosser, Kate		Schumacher, Katherine N		Senior, Adam	
Schlothauer, Tilman		Schunter, Alissa		Senior, Adam	
Schlotterbeck, Götz		Schürch, Stefan		Senior, Adam	
Schlüter, Hartmut		Schuster, Stephanie	TP 405	Senko, Michael W	
Schmainda, Kathleen		Schuttler, Willem		Senko, Michael W	
Schmainda, Kathleen		Schwab, Nicolas V		Senko, Michael W	
Schmelzel, John		Schwaid, Adam		Senko, Michael W	
Schmid, Claudio		Schwamborn, Kristina		Senko, Michael W	
Schmid, RainerSchmidberger, Jason		Schwartz Daniel		Seo, Jong Bok	
aciimiaperaer, Jason	WP 547	Schwartz, Daniel	IVIOD pm 2:30	Seo, Jongcheol	woo am 08:50
Schmidt, Andreas		Schwartz, Jae C	NAD 070	Seol, Haeri	14/0 000



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Serra, Blanca		Sharp, Joshua S		Shiea, Jentaie	ThP 659
Serrano, Solange		Sharp, Joshua S		Shiea, Jentaie	
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Servage, Kelly		Shaw, Jared		Shiea, Jentaie	
Servos, Mark		Shaw, Jared B		Shiea, Jentaie	
Sessier, Nicole		Shaw, Jared BShaw, Mike		Shiea, Jentaie	
Sessler, Nicole Seta, Jouji		Shaw, Patrick		Shiea, Jentaie Shields, Jefry	
Seulen, Sarah		Shaw, Reuben		Shields, Jefry	
Seveno, Martial		Shaw, Tim		Shields, Jefry	
Seward, Robert		Shchepunov, Vyacheslav		Shields, Jefry	
Seward, Robert J.		Sheff, Joey		Shields, Samuel W. J	
Seyoum, Berhane		Sheffield. Sarah		Shih, Hsi-Chang	
Seyoum, Berhane		Sheils, Wayne		Shih, Norrapat	
Sha, Jiahao		Sheils, Wayne		Shilo, Konstantin	
Shabanowitz, Jeffrey		Shekarriz, Reza		Shim, Jun Hwa	
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Shaffer, Christopher		Shen, Helen		Shima, Noriaki	
Shaffer, Christopher		Shen, Jermiah Y		Shimada, Haruo	
Shaffer, Christopher		Shen, Jiaqi		Shimada, Takashi	
Shaffer, Christopher		Shen, Jiewen		Shimada, Takashi	
Shaffer, Scott A		Shen, Jim		Shimizu, Hiroshi	
Shaffer, Scott A		Shen, Linlin		Shimizu, Takao	
Shaffer, Scott A		Shen, Sean		Shimonaka, Yasushi	
Shah, Nishit		Shen, ShanshanShen, Shichen		Shin, Jihoon Shion, Henry	
Shah, PunitShah, Punit		Shen, Shichen		Shion, Henry	
Shah, Punit		Shen, Shichen		Shion, Henry	
Shah, Vinit		Shen, Xiaohang		Shiota, Teruhisa	
Shahapure, Pradnya		Shen, Xiaohang		Shiota, Teruhisa	
Shahinuzzaman, A.D.A		Shen, Xiaomeng		Shiota, Teruhisa	
Shaili, Evyenia		Shen, Xiaomeng		Shiota, Teruhisa	
Shalit, Tali		Shen, Xiaomeng		Shiota Ozawa, Kumi	
Shambaugh, Joe		Shen, Xiaomeng		Shiota Ozawa, Kumi	
Shameem, Mohammed		Shen, Xiaomeng		Shipkova, Petia	
Shameem, Mohammed		Shen, Yufeng		Shipkova, Petia	
shameem, Mohammed		Shen, Yufeng		Shirai, Tomokazu	
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Shan, Yichu		Sheng, Quanhu		Shomo, Alan A	
Shank, Nathaniel		Sheng, Yuewei		Shomo, Alan A	
Shanks, Kevin G		Shenk, Thomas		Shomo, II, Ronald E	
Shao, Baohai		Shephard, Elizabeth H		Shopp, George	
Shao, Binbin		Shepperson, Benjamin		Short, Tim	
Shao, Chun		Sherman, Jamie		Shortreed, Michael R	
Shao, DiShapiro, Michael J		Sherman, Mary Sherrod, Stacy D		Shortreed, Michael R Shou, Wilson	
Shard, Alexander		Sherrod, Stacy D		Showalter, Hollis D	
Shariatgorji, Mohammadreza		Sherwood, Jennifer		Showalter, Megan	
Shariatgorji, Mohammadreza		Sherwood, Robert		Shraberg, Joshua M	
Shariatgorji, Mohammadreza		Shevchenko, Andrej		Shrestha, Bindesh	
Shariatgorji, Mohammadreza		Shevchenko, Andrej		Shriver, Leah	
Sharifi, Nima		Shewry, Peter		Shrout, Joshua	
Sharma, Khushboo		Shi, Honglan		Shteynberg, David	
Sharma, Praveen		Shi, Honglan		Shteynberg, David	
Sharma, Praveen		Shi, Honglan		Shu, Qin	
Sharma, Praveen		Shi, Honglan		Shu, Yue-Zhong	
Sharma, Praveen	WP 487	Shi, Huilin	TP 134	Shuford, Christopher	MP 562
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Sharma, Ritin		Shi, Liuqing		Shukla, Anil K	•
Sharma, Seema		Shi, Songyue		Shukla, Sanjay	
Sharma, Seema		Shi, Songyue		Shukutani, Mayu	
Sharma, Seema		Shi, Songyue		Shulaev, Vladimir	
Sharma, Seema		Shi, Stone DH.		Shulaev, Vladimir	
Sharma, Seema		Shi, Tujin		Shulzhenko, Natalia	
Sharma, Seema		Shi, Tujin		Shurkhay, Vsevolod	
Sharma, Vagisha		Shi, Wuxian		Shuttleworth, Steve	
Sharma, Vagisha		Shi, Yi		Shvartsburg, Alexandre	
Sharon, Michal		Shi, Yifan		Shyong, Bao-Jen Shyr, Yu	
Charan Michal					
Sharon, MichalSharov, Grigory		Shiao, Tze Chieh Shichi, Hideharu		Shyr, Yu	



Si, Dandan	ThP 215	Singh, Megh	TP 522	Smith, Barry	ThOA am 09:30
Sibat, Manoella		Singh, Pradeep	ThP 502	Smith, Barry	
Sica, Vincent		Singh, Pradeep		Smith, Benjamin	
Sickmann, Albert		Singh, Pradeep		Smith, Benjamin	
Sidebottom, Ashley Sidenbladh, Charlotte		Singh, Prateek Singh, Sasha		Smith, BenjaminSmith, Brian	
Sidhu, Rohini		Singh, Sasha		Smith, Cornelia	
Sidibe, Jonathan		Sinitcyn, Pavel		Smith, Daryl G.S.	
Sidoli, Simone		Sinitcyn, Pavel		Smith, David	
Sidoli, Simone		Sinitcyn, Pavel		Smith, David	
Sidoli, Simone		Sinitcyn, Pavel		Smith, David	
Sidoli, Simone		Sinz, Andrea		Smith, David F	•
Sidoli, Simone		Sipe, David		Smith, Don	
Sidoli, Simone		Siple, Joseph		Smith, Donald F	
Sieber, Stephan Siegel, Donald		Sisley, Karen Sitnikov, Dmitri		Smith, Donald F Smith, Donald F	
Siegel, Donald		Siu, K.W. Michael		Smith, Donald F	
Siegel, Marshall M.		Siuzdak, Gary	•	Smith, Glenn	
Siegel, Marshall M		Siuzdak, Gary		Smith, Jacquelynn	
Siegel, Paul D		Sivagnanam, Kumaran		Smith, Jeffrey C	
Siegel, T. Nicolai		Sivakumar, Reajean		Smith, John	
Siegfried, Blair		Siwick, Deborah		Smith, Jonathan	
Siek, Kevin		Siwik, Deborah A		Smith, Kenneth	
Siek, Kevin Sielaff, Detlef		Sjöblom, Johan Sjoelund, Virginie		Smith, KerriSmith, Lloyd M	
Siems, Bill		Sjoholm, Kristoffer		Smith, Lloyd M	
Siems, William F		Skaar, Eric		Smith, Martyn T	
Sierra, César A		Skaar, Eric P		Smith, Richard	
Sierra, Lady	ThP 167	Skeene, Kirsty	WP 237	Smith, Richard	TP 080
Sifuentes, Daniel		Skeery, Ciaran		Smith, Richard	
Sigurðsson, Jón		Skilton, St John		Smith, Richard	
Silcock, Paul		Skilton, St John		Smith, Richard D	
Silcock, Paul		Skinner, OwenSkinner, Owen		Smith, Richard D Smith, Richard D	
Silcock, Paul Silcock, Paul		Skinner, Owen		Smith, Richard D	
Silivra, Oleg		Skinner, Owen S		Smith, Richard D	
Silke, John		Sklorz, Martin		Smith, Richard D	
Sillevis-Smitt, Peter		Skokowski, Jarosław		Smith, Richard D	
Silva, Jeffrey	MOF pm 2:30	Skolasky, Richard	ThP 580	Smith, Richard D	TOE am 09:10
Silva, Jeffrey		Skovpen, Yulia		Smith, Richard D	
Silva, Jeffrey		Skraskova, Karolina		Smith, Richard D	
Silva, Jeffrey C		Skubitz, Amy		Smith, Richard D	•
Silva, Jeffrey C Silva, Jeffrey C		Slade, William Slade, William		Smith, Richard D Smith, Richard D	
Silva, Leslie		Slagel, Joseph		Smith, Richard D	
Silva, Paulo Roque Martins		Slaney, Thomas		Smith, Richard D	
Silva Jr., Pedro		Slaney, Thomas		Smith, Richard D	
Silva-Lopez, Elsa	MP 610	Slebos, Robbert	ThP 454	Smith, Richard W	TP 266
Silveira, Joshua		Slebos, Robbert		Smith, Richard W	
Silveira, Joshua		Sleczka, Bogdan		Smith, Ruth	
Silveira, Joshua A	MP 147	Slemmon, John		Smith, Sean Smith, Sean M	
Silveira, Joshua ASilveira, Joshua A	IVIP 149	Sleno, LekhaSleno, Lekha		Smith, Suzanne	
Silver, Richard		Sleno, Lekha		Smith-Kinnaman, Whitney	
Silverman, Lewis R		Sleno, Lekha		Smolders, Katrien	
Sima, Jessica		Slobodchikova, Irina		Snel, Marten	
Sima, Jessica	WP 145	Slotta-Huspenina, Julia	TP 538	Snel, Marten	TP 611
Simek, Petr		Slováková, Kristína	ThP 644	Snider, Elise	
Simmons, Lawrence P		Slovinska, Lucia		Snider, Jacqueline	
Simon, Kelli		Slupphaug, Geir		Snovida, Sergei	
Simons, Brigitte		Smagghe, Guy		Snovida, Sergei	
Simonyi, Agnes Simpson, Isobel J		Smallegan, Michael Smallegan, Michael		Snow, GregorySnyder, Dalton	
Simpson, John		Smalley, Keiran		Snyder, Josh	
Simpson, Sarah		Smargiasso, Nicolas		Snyder, Michael	
Sims, Martin		Smargiasso, Nicolas	ThOB am 09:10	Snyder, Michael	
Sinacola, Jessica	ThP 608	Smargiasso, Nicolas	WP 226	Snyder, Nathaniel	MOE am 09:50
Sinatra, Francy		Smargiasso, Nicolas		Snyder, Nathaniel	
Sindelar, Mirriam		Smargiasso, Nicolas		Snyder, Nathaniel	
Sindona, Giovanni		Smeekens, Johanna		Snyder, Nathaniel W	
Sindona, Giovanni Singec, Ilyas		Smeekens, Johanna Smeekens, Johanna		Snyder, Nathaniel WSo, Pui-Kin	
Singer, Elizabeth		Smeekens, Johanna		So , Pui-Kin	
Singer, Heinz		Smejkalova, Daniela		Sobolesky, Philip	
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Singer, Heinz		Smetana, Juliana	ThP 486	Sobott, Frank	MP 204
Singer, Heinz Singh, Akanksha	WP 012	Smetana, Juliana Smirnova, Lena		Sobott, FrankSobott, Frank	
Singh, AkankshaSingh, Akanksha	WP 012 MP 228 TP 210	Smirnova, Lena Smit, August	ThOG pm 2:50 MP 530	Sobott, FrankSobott, Frank	ThP 642 TP 472
Singh, Akanksha		Smirnova, Lena	ThOG pm 2:50 MP 530 TOF am 09:50	Sobott, Frank	ThP 642 TP 472 WOC am 08:50



Socolovsky, Merav	WP 192
Söderquist, Marcus	WP 500
Soellner, Matthew	WP 579
Sohn , Areum	TP 640
Sokratous, Kleitos	MP 339
Solano, Maria	
Solga, Anne	
Solivio, Beulah Mae Ann	
Solliec, Morgan	
Solliec, Morgan	
Solomon, Samuel	
Solouki, Touradj	
Solouki, Touradj	
Solouki, Touradj	
Solouki, TouradjSolouki, Touradj	
Soloviev, Dmitry	
Soltero, Nina	
Soltero, Nina	
Soltwisch, Jens	
Soma, Lawrence	
Sommers, Cynthia	
Somnath, Suhas	
Somogyi, Arpad	
Son, Eunjung	
Sondur, Sid	
Song, Benben	
Song, Ehwang	
Song, Hailong	
Song, Hangtian	TP 513
Song, Hangtian	
Song, Jiaping	
Song, Junghan	
Song, Kehan	
Song, Liguo	MP 074
Song Oingui	
Song, Qingyu	MP 079
Song, Qingyu	
	TP 066
Song, Qingyu	TP 066 TP 443
Song, Qingyu Song, Ting Song, Xiaomin Song, Yang	TP 066 TP 443 TOB pm 2:30 MOC am 09:30
Song, Qingyu Song, Ting Song, Xiaomin Song, Yang	TP 066 TP 443 TOB pm 2:30 MOC am 09:30
Song, Qingyu Song, Ting Song, Xiaomin Song, Yang Song, Yang Song, Yue	TP 066 TP 443 TOB pm 2:30 MOC am 09:30 WOF am 09:50 WOF 368
Song, Qingyu	TP 066 TP 443 TOB pm 2:30 MOC am 09:30 WOF am 09:50 WOF 368
Song, Qingyu Song, Ting Song, Xiaomin Song, Yang Song, Yang Song, Yue	TP 066 TP 443 TOB pm 2:30 MOC am 09:30 WOF am 09:50 MP 368 TP 234
Song, Qingyu	
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Song, Qingyu Song, Ting Song, Xiaomin Song, Yang Song, Yang Song, Yue Song, Yue Song, Yue Song, Yuling Song, Zifeng Sonnett, Matthew Soper, Molly Sorensen, Dylan Sorensen, Dylan Sorensen, Dylan Sorger, Peter Sorger, Peter Sorger, Peter Sosa, Rebecca Sosa, Rebecca Sosa, Rebecca Soste, Martin Sotomayor-Pérez, Ana-Cristina Souchon, Vincent Soudin, Jean-Paul Soumyanath, Amala Sousa, Marcelo V Sousou, Nigel Southard, Adrian Southey, Bruce Southey, Bruce R Souza, Gustavo H. M. F. Souza, Gustavo H. M. F. Souza, Lindamara Souza, Lindamara Souza, Taylor Souza, Wanderley Souza Junior, Manoel	
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So-Young, Jang		TP	348
Spaanderman, Dirk-Jan		TP 4	492
pahr, Chris		WP 4	413
palding, Jonathan		.MP	360
pangler, Glenn		.MP	129
Specht, Harrison M		WP:	306
Speicher, David		WP (613
Speller, Abigail		WP :	216
Speller, Abigail V. M			
Speller, Abigail VM		.MP	038
Speller, Abigail VM		TP (643
pellman, Daniel			
pellman, Daniel		ThP (808
pellman, Daniel S			
Spencer, Bryan		ThP:	339
pencer, Bryan			
Spencer, Jean		.MP	465
pencer, Jean		.MP	485
Spencer, Jean			
Spencer, Jean L			
Spencer, Michael			
Spencer, Michael			
Spencer, Michael			
Spencer, Sandra			
Spencer, Sandra E			
Spencer, Sandra E	WOE	pm 2	2:50
pener, Friedrich			
pengler, Bernhard		MP (031
pengler, Bernhard	ТОН	pm 2	2:50
Spengler, Bernhard		WP 4	429
pengler, Bernhard		WP :	546
perry, Justin			
petzler, Vinzent	ThOA	pm 3	3:10
pinozzi, Silvia			
pittler, Nick			
pitzbarth, Franziska			
Spraggins, Jeffrey			
prayuns, Jeney			
Spraggins, Jeffrey		TP	555
Spraggins, Jeffrey		TP (555 680
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Stauber, Jonathan	MP 183
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Stauber, Jonathan	1P 638
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Stedwell, Corey Stedwell, Corey Steegers, Eric A.M. Steegrs- Theunissen, Régine P.M. Steel, Jordan Steen, Hanno Steen, Hanno Steen, Hanno Steen, Hanno Steen, Hanno Steen, Hanno Steen, Kick. MC Steenwyk, Rick. Steenwyk, Rick	MP 049 ThP 022 MP 482 TP 196 DB pm 3:30 TP 162 TP 584 WP 493 DH pm 2:30 WP 202 WP 668
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Stephan, Chady		Stroupe, M. Elizabeth		Sun, Zhe	
Stephan, Chady		Strupat, Kerstin		Sun , Zhe	
Stephan, Susanne		Stuff, John		Sung, Ting-Yi	
Stephen, RoperStephens, Robert		STULIK, JiriStump, Michael		Suni, Veronika Sunny, Nishanth E	
Stephenson, James		Stutts, Whitney L.		Supaporn Nuamtanong, Supa	
Stephenson, James		Stutts, Whitney L		Support, Inmerge	
Stephenson, James		Stutzman, John		Surampalli, Roa Y	
Stephenson, Jim		Styles, lain		Surowiec, Izabella	
Stern, Lawrence J	ThOC pm 3:10	Styles, lain	WP 536	Surowiec, Kazimierz	WP 108
Stern, Warren		Su, Baoning		Suryanarayana, B	
Steven, Rory		Su, Chunyan		Susa, Anna	
Steven, Rory		Su, Hung		Sussman, Eric	
Steven, Rory T Steven, Rory T		Su, Jie Su, Kuan-Lun		Sussman, Michael R Sutherland, Aimee	
Steven, Wright		Su, Lei		Sutherland, David	
Stevens, Douglas		Su, Xiaoling		Sutton, Dan	
Stevens, Jan		Su , Yuan		Sutton, Tom	
Stevens, Jan F		Su , Yuan		Suyama, Motohiro	
Stevens, Jan F.		Suavinho Ferro, Emer		Suzuki, Koichi	
Stevens, Jan F		Subbotin, Roman		Suzuki, Koji	
Stevens, Joan		Subramanian, Arjuna		Svanström, Andreas	
Stevens, Joni		Subramanyam, Chakrapani Suckau, Detlev		Svendsen, Clive Svenningsson, Per	
Stevens Jr., Stanley M		Suckau, Detlev		Svenningsson, Per	
Stevens, Jr, Stanley M		Suckau, Detlev		Svenningsson, Per	
Stevens, Jr., Stanley M		Suckau, Detlev		Svensk Ankarberg, Anna	
Stevens, Jr., Stanley M		Suckau, Detlev	TP 500	Svensson, Camilla	
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Stevens, Jr., Stanley M		Suematsu, Makoto		Svinkina, Tanya	
Stewart, Tyler		Sugimoto, Hiroshi		Svobodova, Helena	
Steyaert, Sandra St-Germain, Jonathan R		Sugiyama, Naoyuki Sugiyama, Naoyuki		Svobodova, Helena Swabowski, Cecily	
Stickney, Morgan		Suh, Joon Hyuk		Swales, John	
Stien, Didier		Suh, Sunglil		Swaminathan, Aishwarya	•
Stinson, Craig		Suhre, Karsten		Swamy, Bale M	
Stintzi, Alain		Sukhikh, Gennady		Swann, Patrick	
Stites, Wesley	WP 630	Sukhikh, Gennady T		Swanson, Kenneth	MP 549
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Stokes, Adam		Sulyok, Michael		Swart, Remco	
Stokes, Matthew P Stokes, Matthew P		Sulzer, Philipp Sulzer, Philipp		Swart, Remco Swarthout, Robert	
Stolyarova, Anastasia		Sulzer, Philipp		Swarthout, Robert F	
Stone, Everett		Sumikura, Hiroyuki		Swatek, Kirby	
Stone, Kathryn L		Sumner, Lloyd		Swatkoski, Stephen	
Stoner, Brian	ThOA am 08:50	Sumner, Lloyd		Sweedler, Jonathan	ThP 354
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Stoop, Marcel		Sumner, Lloyd		Sweedler, Jonathan	
Stopka, Sylwia		Sumner, Lloyd W		Sweedler, Jonathan	
Storch, Barbara		Sumner, Lloyd W		Sweedler, Jonathan	
Stover, Eric Stover, Michele L		Sun, Bin Sun, Bingyun		Sweedler, JonathanSweedler, Jonathan	
Stow, Sarah M		Sun, Chun-Ye		Sweedler, Jonathan	
Stow, Sarah M.		Sun, Cuirong		Sweedler, Jonathan	
Stow, Sarah M.		Sun, Grace Y		Sweedler, Jonathan	
Stow, Sarah M		Sun, Haidan		Sweedler, Jonathan	
Stoyanova, Tanya		Sun , Jing	MP 613	Sweedler, Jonathan	
Stoychev, Stoyan		Sun, Jin-Lan	TP 337	Sweedler, Jonathan	WP 550
Strassburg, Katrin		Sun, Liangliang		Sweedler, Jonathan V	
Stratton, Tim		Sun, Liangliang		Sweedler, Jonathan V	
Stratton, Tim		Sun, Mei		Sweeney, Daniel L	
Strauss, Ethan Strawn, Steve		Sun, Mei Sun, Mingwei		Swenson, Tami Sweredoski, Michael J	
Streakfuss, Eric		Sun, Patty		Sweredoski, Michael J	
Street, Timothy		Sun, Rachel		Sweredoski, Michael J	
Streibel, Thorsten		Sun, Ruixiang		Sweredoski, Michael J	
Streijger, Femke		Sun, Rui-Xiang		Switzar, Linda	
Stresau, Dick		Sun, Rui-Xiang		Swyngedouw, Chris	
Stresau, Dick		Sun, Rui-Xiang		Syed , S. U. A. H	
Striegel, André M		Sun, Shisheng		Syed, S.U.A.H	
Strimfors, Marie		Sun, Shisheng		Syed, Sarfaraz U. A	
Ctrittmatter Nicola					
Strittmatter, Nicole		Sun, Weixing		Syka, John E. P	
Strittmatter, Nicole Strittmatter, Nicole Strittmatter, Nicole	MP 442	Sun, WenjianSun, Wenjian	MP 051	Syka, John E. P Syka, John E. P Sykes, Craig	TP 048



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Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill. Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul J Trimpin, Sarah Trimpin, Sarah	ThP 532ThP 531MP 521Th 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 255TP 436TP 611MP 684MOA am 08:30MP 018
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul J Trimpin, Sarah Trimpin, Sarah Trimpin, Sarah	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 255TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpl, Paul Trim, Paul Trim, Paul J Trimpin, Sarah	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031TP 239WOA am 08:30
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J Tresler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpl, Paul Trim, Paul Trim, Paul Trimpin, Sarah	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThOE pm 4:10ThP 239WOA am 08:30
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul J Trimpin, Sarah	ThP 532ThP 531MP 521Th 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThOE pm 4:10ThP 031TP 239WOA am 08:30WP 031
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul J Trimpin, Sarah	ThP 532ThP 531MP 521Th 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 255TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThOE pm 4:10ThOE pm 4:10ThP 031TP 239WOA am 08:30WP 031WP 031TP 239WOA am 08:30WP 031WP 031WP 0425WP 651
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill	ThP 532ThP 531MP 521MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50TP 255TP 255TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031TP 239WOA am 08:30WP 031WP 031WP 425WP 651TP 622
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpl, Sarah Trimpin, Sarah	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50TP 255TP 275TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10TP 239WOA am 08:30WP 031TP 239WOA am 08:30WP 051TP 652WP 651TP 622WP 670
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50TP 255TP 275TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10TP 239WOA am 08:30WP 031TP 239WOA am 08:30WP 051TP 652WP 651TP 622WP 670
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpl, Sarah Trimpin, Sarah	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 256TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10Th 239WOA am 08:30WP 031TP 239WOA am 08:30WP 651TP 622WP 657TP 356
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpl, Sarah Trimpin, Sarah Trinidad, Debra Triolo, Antonio	ThP 532ThP 531MP 521MP 521Th 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031TP 239WOA am 08:30WP 031TP 239WOA 50WP 651TP 622WP 670TP 356MP 635
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam J Trevitt, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul Trimpin, Sarah	ThP 532ThP 531MP 521MP 521Th 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 255TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031ThP 031TP 239WOA am 08:30WP 018TP 621WP 651TP 622WP 670TP 356MP 635
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill	ThP 532ThP 531MP 521MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50TP 255TP 255TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031TP 239WOA am 08:30WP 031WP 0425WP 651TP 622WP 650TP 356MP 635WP 631TP 356MP 635WP 631
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpin, Paul Trim, Paul Trimpin, Sarah Trimpin, Garah Trimidd, Debra Trinidad, Debra Triolo, Antonio Trip, Hein. Trivedi, Geetika. Trnett, Martin Troett, Martin	ThP 532ThP 531MP 521MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436MP 684MP 684MP 018MP 018ThOE pm 4:10ThP 331TP 239WOA am 08:30WP 031WP 031WP 655TP 622WP 670TP 356MP 635WP 611TP 275ThP 245
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpl, Sarah Trimpin, Garah	ThP 532ThP 531MP 521MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436MP 684MOA am 08:30MP 018ThP 031TP 239WOA am 08:30WP 031TP 239WOA am 08:30WP 670TP 356MP 635WP 611TP 275ThP 245ThP 245ThP 245
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trim, Paul Trim, Paul Trim, Paul Trim, Sarah Trimpin, Garah Trimpin, Sarah Trimpin,	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 275TP 436TP 436TP 436MP 681MP 684MP 08:30MP 018ThOE pm 4:10ThP 031TP 239WO A am 08:30WP 031TP 255TP 622WP 651TP 622WP 670TP 356MP 635WP 611TP 275ThP 245ThP 245ThP 245ThP 245ThP 487WP 209
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul Trimpin, Sarah	ThP 532ThP 531MP 521MP 521Th 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 436TP 611MP 684MP 018MP 018ThOE pm 4:10ThP 031TP 239WP 331TP 239WP 651TP 622WP 651TP 622WP 670TP 356MP 635WP 611TP 275ThP 487WP 209WP 209MP 241
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul Trimpin, Sarah	ThP 532ThP 531MP 521MP 521Th 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 255TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031ThP 239WOA am 08:30WP 031WP 031TP 255TP 622WP 651TP 622WP 651TP 356MP 635MP 631TP 275ThP 245ThP 245ThP 245ThP 245ThP 245ThP 245ThP 245MP 578
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpl, Aunita Trim, Paul Trim, Paul Trimpin, Sarah	ThP 532ThP 531MP 521MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 331TP 239WO 31WP 031WP 031WP 651TP 622WP 670TP 356MP 635WP 611TP 275ThP 245ThP 245ThP 487WP 209MP 241MP 578MP 578ThP 324
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trimpl, Austria Trim, Paul Trim, Paul Trim, Paul J. Trimpin, Sarah	ThP 532ThP 531MP 521MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436TP 611MP 684MP 018MP 018ThOE pm 4:10ThP 331TP 239WO am 08:30WP 031WP 425WP 670TP 622WP 670TP 356MP 635WP 611TP 275ThP 245ThP 245ThP 487WP 209MP 241MP 578ThP 324ThP 324ThP 328
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Triebl, Alexander Trim, Paul Trim, Paul Trim, Paul Trim, Sarah Trimpin, Sarah Trimpin	ThP 532ThP 531MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 255TP 436TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031TP 239WO A am 08:30WP 031TP 245WP 651TP 622WP 651TP 622WP 670TP 356MP 635WP 611TP 275ThP 245ThP 245ThP 487WP 209MP 241MP 578ThP 324ThP 324
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul Trimpin, Sarah	
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul Trim, Sarah Trimpin, Sarah Tri	
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul Trimpin, Sarah	
Tremintin, Guillaume Trentalange, Michael Tretyakov, Kirill Treuheit, Michael Trevitt, Adam Trevitt, Adam Trevitt, Adam J. Trexler, Heather Triebl, Alexander Triebl, Alexander Trikannad, Namita Trim, Paul Trim, Paul Trim, Sarah Trimpin, Sarah Tri	ThP 532ThP 531MP 521MP 521ThP 280TP 496TOC pm 3:10ThOE pm 3:50MOH am 08:50TP 255TP 275TP 436TP 611MP 684MOA am 08:30MP 018ThOE pm 4:10ThP 031TP 239WO am 08:30WP 031WP 031TP 255TP 622WP 651TP 622WP 651TP 356MP 655TP 356MP 635WP 611TP 275ThP 245ThP 245ThP 245ThP 245ThP 324ThP 324ThP 324ThP 328TP 464WP 384TP 182TP 182TP 182



Tsai, Yu-Hsuan	MP 362	Tzai, Tzong-Shin	MP 474	Urlaub, Henning	TP 154
Tsai, Yu-Hsuan	TP 188	Tzeng, Shin-Cheng	ThP 559	Urlaub, Henning	WP 342
Tsang, Allen W		Tzeng, Shin-Cheng		Usala, John	ThP 018
Tsang, Allen W		Ubhayasekera, Kumari		Uslaner, Jason	
Tschaplinski, Timothy		Ubhayasekera, Kumari		Ussery, David	
Tse, Chui		Ubhi, Baljit		Usui, Klyotaka	
Tse, Francis		Ubhi, Baljit		Utecht, Kristi	
Tse, Francis		Ubhi, Baljit		Uthe, Henriette	
Tse, Francis		Ubhi, Baljit K		Utkhede, Deepank	
Tsefrikas, Vikki		Ubhi, Baljit K		Uyeda, H. Tetsuo	
Tseng, Chiao-Li		Ubukata, Masaaki		Vaca Jacome, Alvaro Sebastian	
Tsizin, Svetlana		Ubukata, Masaaki		Vachet, Richard	
Tsou, Chih-Chiang		Ubukata, Masaaki		Vachet, Richard	
Tsou, Chih-Chiang		Uchikata, Takato		Vachet, Richard	
Tsou, Chih-Chiang		Uckert, Kyle		Vachet, Richard	
Tsou, Chih-Chiang		Uckert, Kyle		Vachet, Richard	
Tsou, Chih-Chiang		Uclés, Ana		Vachet, Richard	
Tsouko, Efrosini		Uclés, Samanta		Vachette, Patrice	
Tsuchihashi, Hitoshi		Udawant, Dinesh		Vaculovič, Tomáš	
Tsuchihashi, Hltoshi		Udayakumar, Amala		Vadi, Alessandro	
Tsugawa, Hiroshi		Udeshi, Namrata D		Vahidi, Siavash	
Tsugawa, Hiroshi		Ueberheide, Beatrix		Vahidi, Siavash	
Tsuji, Yudai		Ueberheide, Beatrix		Vaibhav, Vineet	
Tsujii, Kanya		Ueberheide, Beatrix		Vaikkinen, Anu	
Tsujikawa, Kenji		Ueberheide, Beatrix		Valaskovic, Gary	
Tsybin, Yury		Ueberheide, Beatrix		Valaskovic, Gary	
Tsybin, Yury		Ueberheide, Beatrix		Valdiviez, Luis	
Tsybin, Yury		Ueckert, Torsten		Valeja, Santosh	
Tsybin, Yury		Ueckert, Torsten		Valeja, Santosh	
Tsybin, Yury		Ueckert, Torsten		Valeja, Santosh	
Tsybin, Yury O		Ueckert, Torsten		Valeja, Santosh	
Tsybin, Yury O		Ueda, Koji	MP 686	Valeja, Santosh G	TP 388
Tu, Chengjian		Ueda, Mamiko		Valencia, Jeferson	
Tu, Chengjian	ThP 449	Ueda, Manabu	TP 076	Valentín-Blasini, Liza	TP 619
Tu, Chengjian		Ueda, Saki	TP 259	Valentine, Joan	ThOF pm 3:50
Tu, Chengjian		Uehling, Jessie		Valentine, Stephen	
Tu, Chengjian	WP 300	Uemoto, Shinji	TP 676	Valentine, Stephen	MP 199
Tu, Chengjian	WP 321	Ueno, Hiromi	ThP 238	Valentine, Stephen	ThP 195
Tu, Peijun	ThP 143	Ughi, Daniele	ThP 169	Valentine, Stephen	ThP 627
Tuan, Shun-Hsing		Ugrin, Scott A	WP 193	Valentine, Stephen	WP 556
Tucholska, Monica		Uhlen, Mathias		Valentine, Stephen	
Tucholska, Monika		Uhlén, Mathias		Valenzano, Kenneth J	
Tudor, Andrew		Uhlén, Mathias		Valenzano, Kenneth J	
Tudor, Gregory		Uhrbom, Martin		Valkenborg, Dirk	
Tudor, Gregory		Ujma, Jakub		Valkenborg, Dirk	
Tufi, Sara		Ujma, Jakub		Valkenborg, Dirk	
Tuli, Leepika		Ulbrich, Arne		Valkenborg, Dirk	
Tummala, Manorama		Ulbrich, Arne		Vallabhaneni, Prashanthi	
Turchetta, Renato		Ulbrich, Susanne		Vallabhaneni, Prashanthi	
Turecek, Frantisek		Ulmer, Candice		Vallance, Claire	
Turecek, Frantisek	ThOC pm 3:50	Ulmer, Candice		Vallejo, Ricardo	
Turecek, Frantisek		Ulmer, Candice Z		Vallejo Ruiz, Asier	
Turecek, Frantisek		Underbakke, Eric		Vallianatou, Theodosia	
Turecek, Frantisek		Underbakke, Eric		Valliyodan, Babu	
Turecek, Frantisek		Ungar, Daniel		Valmu, Leena	
Turiak, Lilla		Unger, Steve		Van Agthoven, Maria	
Turiak, Lilla		Unger, Steve		van Agthoven, Maria	
Türk, Jochen		Unno, Yumi		Van Amerom, Friso H.W	
Turko, Illarion		Uno , Bunji		Van Amerom, Friso H.W	
Turko, Illarion		Untermann, Anette		Van Amerom, Friso H.W	
Turner, Dayna		Unwin, Richard D		van Baar, Patricia	
Turner, Matthew		Upadhyay, Sunil		van Beek, Teris	
Turner, Nicholas J		Upert, Gregory		van Beek, Teris A	
Turner, Nigel		Uppal, Annu		Van Benthem, Mark	
Turner, Sally		Uppal, Annu		Van Berkel, Gary J	
Tuskan, Gerald		Uppal, Annu		Van Berkel, Gary J	
Tuske, Steve		Uppal, Karan		Van Berkel, Gary J	
Tweed, Joseph		Urbaczek, Ana Carolina		Van Berkel, Gary J	
Twohig, Marian		Urbaczek, Ana Carolina		Van Berkel, Gary J	
Tyanova, Stefka		Urban, Paweł		Van Berkel, Gary J	
Tyanova, Stefka		Urbanczyk-Wochniak, Ewa		Van Berkel, Gary J	
Tyanova, Stefka		Urh, Marjeta		Van Breemen, Richard B	
Tyanova, Stefka		Urh, Marjeta		Van Breemen, Richard B	
Tyler, Andrew N		Urh, Marjeta		van Breemen, Richard B	
Tyler, Andrew N		Urh, Marjeta		van Breemen, Richard B	
Tymiak, Adrienne		Urh, Marjeta		van Cott, Kevin	
Tymiak, Adrienne		Urh, Marjeta		Van Criekinge, Wim	
Tymiak, Adrienne	ThP 520	Uritboonthai, Winnie	TP 205	Van Damme, Els, J. M	WP 226
Tymonko, Steve		Urlaub, Henning	TOD	Van Damme, Petra	TOD



Van De Goor, Tom	MOH pm 3:30
van de Merbel, Nico	
Van De Plas, Raf Van de Plas, Raf	
Van de Plas, Raf	
Van De Plas, Raf	
Van De Plas, Raf	WP 538
van den Berg, Caroline B	
Van Den Broek, Irenevan den Eeden, Susan J.F.	
van den Hoek, Anita M	
van den Maagdenberg, Arn	
van den Maagdenberg, Arn	
van der Beek, Martha	
van der Beek, Marthavan der Burgt, Yuri	
van der Burgt, Yuri E.M	
Van Der Burgt, Yuri E.M	TP 078
van der Horst, Jerre	TP 492
Van der Kloet, Fransvan der Plas-Duivesteijn, Suzanne	
van der Zwaan, Dennis	
van der Zwaan, Dennis	
Van Dorsselaer, Alain	ThP 542
Van Dorsselaer, Alain	
Van Dorsselaer, Alain Van Duyne, Richard	
Van Dyck, Jeroen	
Van Eyk, Jennifer	
Van Eyk, Jennifer	MP 569
Van Eyk, Jennifer	
Van Eyk, Jennifer Van Eyk, Jennifer E	IP 148
Van Gool, Alain	ThP 680
van Heerden, Marjolein	
Van Huizen, Nick	
Van Mooy, Benjamin	
Van Natta, Kristine	INP 159
Van Natta Kristine	ThP 209
Van Natta, Kristine Van Oosten. Luuk N	
Van Oosten, Luuk N Van Orden, Steven	ThP 374
Van Oosten, Luuk N Van Orden, Steven Van Riper, Susan K	ThP 374 TP 122 ThP 455
Van Oosten, Luuk N Van Orden, Steven Van Riper, Susan K van Soest, Remco	ThP 374 TP 122 ThP 455 ThP 401
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco van Soest, Remco	ThP 374 TP 122 ThP 455 ThP 401 ThP 403
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco. van Soest, Remco. Van Soest, Remco. van Soest, Remco. van Soolingen, Dick.	ThP 374 TP 122 ThP 455 ThP 401 ThP 403 WP 114 TP 523
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco. van Soest, Remco. van Soest, Remco. van Soolingen, Dick. Van Stipdonk, Michael J.	ThP 374 TP 122 ThP 455 ThP 401 ThP 403 WP 114 TP 523 ThOE am 09:30
Van Oosten, Luuk N	ThP 374 TP 122 ThP 455 ThP 401 ThP 403 WP 114 TP 523 ThOE am 09:30 ThP 115
Van Oosten, Luuk N	ThP 374TP 122ThP 455ThP 401ThP 403WP 114TP 523 ThOE am 09:30ThP 115ThP 321
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco van Soest, Remco Van Soest, Remco van Soolingen, Dick. Van Stipdonk, Michael J.	ThP 374 TP 122 ThP 455 ThP 403 WP 114 TP 523 ThOE am 09:30 ThP 321 ThP 321 ThP 321 TP 045
Van Oosten, Luuk N	ThP 374 TP 122 ThP 455 ThP 401 ThP 403 WP 114 TP 523 ThOE am 09:30 ThP 115 ThP 321 TP 045
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco. van Soest, Remco. van Soest, Remco. van Soolingen, Dick. Van Stipdonk, Michael J.	ThP 374TP 122ThP 455ThP 401ThP 403WP 114TP 523 ThOE am 09:30ThP 115ThP 321TP 045TP 045TP 056TP 618ThP 036
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco. van Soest, Remco. van Soest, Remco. van Soest, Remco. van Solingen, Dick. Van Stipdonk, Michael J. van 't Erve, Thomas J. van 't Slot, Gordon. van Veelen, Peter	ThP 374TP 122ThP 455ThP 401ThP 403WP 114TP 523 ThOE am 09:30ThP 115ThP 321TP 045TP 055TP 618TP 036TP 523
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco Van Soest, Remco Van Soest, Remco Van Soilingen, Dick Van Stipdonk, Michael J. van 't Erve, Thomas J. van 't Slot, Gordon van Veelen, Peter van Veelen, Peter	ThP 374 TP 122 ThP 455 ThP 401 ThP 403 WP 114 TP 523 ThOE am 09:30 ThP 115 ThP 321 TP 045 TP 055 TP 618 ThP 036 TP 523
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco van Soest, Remco van Soest, Remco van Soilingen, Dick Van Stipdonk, Michael J. van S	ThP 374 TP 122 ThP 455 ThP 401 ThP 403 WP 114 TP 523 ThOE am 09:30 ThP 115 ThP 321 TP 045 TP 055 TP 618 ThP 036 TP 523 WOE pm 3:50 TP 630 TP 630
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco van Soest, Remco van Soest, Remco van Solingen, Dick Van Stipdonk, Michael J. van 't Erve, Thomas J. van 't Slot, Gordon van 't Slot, Gordon van Veelen, Peter van Veelen, Peter Vanamala, Jairam Vananda, Jennifer Vanbellingen, Quentin	ThP 374 TP 122 ThP 455 ThP 401 ThP 403 WP 114 TP 523 ThOE am 09:30 ThP 115 ThP 321 TP 045 TP 055 TP 618 ThP 036 TP 523 WOE pm 3:50 TP 630 ThP 404 ThP 404 ThP 679
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco. van Soest, Remco. van Soest, Remco. van Soest, Remco. van Solingen, Dick. Van Stipdonk, Michael J. van Stipdonk, Michael	ThP 374TP 122ThP 455ThP 401ThP 403WP 114TP 523 ThOE am 09:30ThP 115ThP 321TP 045TP 045TP 055TP 618ThP 036TP 523WOE pm 3:50ThP 630ThP 404ThP 679WP 052
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco van Soest, Remco van Soest, Remco van Soingen, Dick. Van Stipdonk, Michael J. van 't Erve, Thomas J. van 't Slot, Gordon van 'Veelen, Peter van Veelen, Peter van Veelen, Peter Vanamala, Jairam Vananda, Jennifer Vanbellingen, Quentin. Vandamme, Maria vandell, Victor.	ThP 374 TP 122 ThP 455 ThP 403 WP 114 TP 523 ThOE am 09:30 ThP 321 TP 045 TP 055 TP 618 ThP 368 TP 523 WOE pm 3:50 TP 630 ThP 404 ThP 679 WP 052 ThP 048
Van Oosten, Luuk N. Van Orden, Steven Van Riper, Susan K. van Soest, Remco. van Soest, Remco. van Soest, Remco. van Soest, Remco. van Solingen, Dick. Van Stipdonk, Michael J. van Stipdonk, Michael	ThP 374 TP 122 ThP 455 ThP 401 ThP 403 WP 114 TP 523 ThOE am 09:30 ThP 115 ThP 321 ThP 045 TP 045 TP 055 TP 618 ThP 036 TP 630 TP 630 ThP 404 ThP 679 WP 052 ThP 048
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/argas, Luiz Henrique	
/argas, Tia	
/arghese, Rency	MP 45
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/arghese, Rency	TP 20
/arma, Sameer	
/arney, Timothy	WP 34
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/ashishth, Deepak	MP 503
/asil'ev, Yury V/asil'ev, Yury V	MP 20
/asil'ev, Yury V	. ThOc am 09:10
/asquez, Vinicio/asquez, Vinicio/asquez, Vinicio	MP 26
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/asquez-Montes, Victor	
/astenhouw, Nadine	IP 604
/audel, Marc	
/aughn, Valerie	MP 163
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/elez Arango, Ana Maria	
/eličković, Dušan	
/ellucci, Danielle	ThOF pm 3:30
/endramini, Pedro	IP 092
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/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /enn-Watson, Stephanie	TP 14iThP 21iWP 01iMP 48iWP 35i
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /enn-Watson, Stephanie	TP 144WP 21WP 014MP 486WP 356TOC am 09:56
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre	TP 144ThP 21WP 014MP 484WP 354TOC am 09:50
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre	TP 14iThP 21MP 01iMP 48iWP 35iTOC am 09:5iThP 12iTP 09i
/enkatraman, Vidya/enne, Karine/enne, Philippe/ernn-Watson, Stephanie/enn-Watson, Stephanie/ens-Cappell, Simeon/enter, Andre/enter, Andre/enter/en	
Venkatraman, Vidya Venne, Karine Venne, Philippe Venn-Watson, Stephanie Vens-Cappell, Simeon Venter, Andre Venter, Andre Venturini, Gabriela	
/enkatraman, Vidya	
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enturini, Gabriela /ena, Nicholas B	
/enkatraman, Vidya	
/enkatraman, Vidya	TP 144 ThP 21 WP 014 WP 015 MP 486 WP 35- TOC am 09:51 TP 096 WOA am 09:11 MP 166 MP 11: MOA am 08:30 ThOA am 08:30
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/enkatraman, Vidya	
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /eren, Sarah /era, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbeeck, Nico /erbeeck, Nico /erbeeck, Nico /erbeeck, Nico /erbeeck, Nico	TP 14i ThP 21 WP 01i MP 48i WP 35i TOC am 09:5i ThP 12i WOA am 09:1i WOA am 09:1i MOA am 08:3i ThOA am 08:3i ThOE pm 3:5i TP 23i MOB am 10:1i MOG pm 3:1i TOE am 08:3i
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /erenturini, Gabriela /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbeck, Nico /erbeck, Nico /erbruggen, Steven	
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /erenturini, Gabriela /eran, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbeck, Nico /erbeck, Nico /erbruggen, Steven /erbruggen, Steven	
/enkatraman, Vidya	
/enkatraman, Vidya	
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /erani, Gabriela /erani, Claudio /erea, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbruggen, Steven /erbruggen, Steven /erenchikov, Anatoly /ereyken, Liesbetth	TP 14i Th 21i WP 01i WP 01i WP 35i TOC am 09:5i Th 12i WP 16i WP 16i WP 16i MP 11i MOA am 08:3i Th 66i TOE pm 3:5i TP 23i MOB am 10:1i MOG pm 3:1i TOE am 08:3i Th 46i TOB am 08:5i TOA am 08:3i Th 46i TOB am 08:5i TOA am 08:3i
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /erenturini, Gabriela /era, Nicholas B. /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbruggen, Steven /erbruggen, Steven /erenchikov, Anatoly /eregyee, Matthew	
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/enkatraman, Vidya /enne, Karine /enne, Rarine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enturini, Gabriela /era, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbeck, Nico /erbeck, Nico /erbruggen, Steven /erenchikov, Anatoly /eregyken, Liesbeth /ergne, Matthew /ergne, Matthew /erema, Karine	
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /ernus, Sarah /era, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeeck, Nico /erbeeck, Nico /erbergen, Steven /erenchikov, Anatoly /ereyken, Liesbeth /ergna, Aparna /erma, Mausam	
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /erani, Gabriela /era, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbruggen, Steven /erbruggen, Steven /erenchikov, Anatoly /erenyken, Liesbeth /ergne, Matthew /erma, Aparna /erma, Mausam /erplaetse, Ruth	TP 14 Th 21 WP 01: WP 03: WP 35: TOC am 09:50 Th 12: WP 16: WP 16: MP 11: MOA am 08:31 Th 66: TOE pm 3:50 TP 23: MOB am 10:11 MOG pm 3:11 TOE am 08:35 TP 24: WP 16: WP 16: WP 17 WP 18: WP 26: TP 31: THP 24:
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /erenturini, Gabriela /era, Nicholas B. /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbruggen, Steven /erbruggen, Steven /erenchikov, Anatoly /erenchikov, Anatoly /erenge, Matthew /erhaert, Peter D. /erma, Aparna /erma, Mausam /erplaetse, Ruth /erplaetse, Ruth /erplaetse, Ruth	TP 14i ThP 21 MP 01i MP 48i WP 35i TOC am 09:5i ThP 12i WOA am 09:1i WOA am 09:1i MOA am 08:3i ThO 66i TOE pm 3:5i TP 23i MOB am 10:1i MOG pm 3:1i TOE am 08:3i
/enkatraman, Vidya /enne, Karine /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /ernturini, Gabriela /erna, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbeck, Nico /erbruggen, Steven /erenchikov, Anatoly /ereyken, Liesbeth /ergne, Matthew /erma, Aparna /erma, Aparna /erplaetse, Ruth /erplaetse, Ruth /erplaetse, Ruth /erplaetse, Ruth /erpreautt, Alain	
/enkatraman, Vidya /enne, Karine /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /erenturini, Gabriela /eran, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbeck, Nico /ererbeck, Nico /ererbuggen, Steven /erenchikov, Anatoly /erenchikov, Anatoly /erergne, Matthew /ergne, Matthew /ergne, Matthew /ergnet, Peter D /erma, Aparna /erglaetse, Ruth /ererault, Alain /erersalovic, James	
/enkatraman, Vidya /enne, Karine /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /era, Nicholas B /era, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeeck, Nico /erbeeck, Nico /erbeeck, Nico /erbeeck, Nico /erberpiuggen, Steven /erenchikov, Anatoly	
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-, Philippe /enn-, Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /erani, Gabriela /era, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbruggen, Steven /erbruggen, Steven /erenchikov, Anatoly /erenchikov, Anatoly /erenge, Matthew /erma, Aparna /erma, Aparna /erplaetse, Ruth /erplaetse, Ruth /erplaetse, Ruth /eresalovic, James /ertesal, Alfred /ertes, Akos	TP 14i Th 21i WP 01i WP 01i WP 03i TP 20i TP 09i WOA am 09:1i MOA am 08:3i Th 06i TOE pm 3:5i TP 23i MOB am 10:1i TOB am 08:3i TOB am 08:5i
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /erenturini, Gabriela /enus, Sarah /era, Nicholas B. /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbruggen, Steven /erbruggen, Steven /erenchikov, Anatoly /erenchikov, Anatoly /erenge, Matthew /erenge, Matthew /erhaert, Peter D. /erma, Aparna /erma, Mausam /ereplaetse, Ruth /erplaetse, Ruth /erreault, Alain /ersalovic, James /ertes, Akos /ertes, Akos	TP 14i Th 21i MP 01i MP 48i WP 35i TOC am 09:5i Th 12i WP 16i MP 16i MP 16i MP 16i MOA am 08:3i ThO 66i TOE pm 3:5i TOE am 08:3i
/enkatraman, Vidya /enne, Karine /enne, Karine /enne, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /erent, Robriela /enus, Sarah /era, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbeck, Nico /erbeck, Nico /erbruggen, Steven /erenchikov, Anatoly /erenchikov, Anatoly /ereyken, Liesbeth /ergne, Matthew /erhaert, Peter D /erma, Aparna /erma, Aparna /erma, Mausam /erplaetse, Ruth /erreault, Alain /ersalovic, James /ertes, Akos /ertes, Akos /ertes, Akos /ertes, Akos	
/enkatraman, Vidya /enne, Karine /enne, Philippe /enn-, Philippe /enn-Watson, Stephanie /ens-Cappell, Simeon /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /enter, Andre /erani, Gabriela /era, Nicholas B /erani, Claudio /erbeck, Guido /erbeck, Guido /erbeck, Guido /erbeck, Nico /erbruggen, Steven /erbruggen, Steven /erenchikov, Anatoly /erenyken, Liesbeth /ergne, Matthew /erma, Aparna /erma, Mausam /erplaetse, Ruth	TP 144 ThP 21

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Viel, François	TD 200
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Viglino, Emilie	ThOC pm 3:50
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Viner Door	
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Viner, Rosa Vinueza, Nelson Vinueza, Nelson	TP 158 TP 395 TP 504 TP 583 WP 373 WP 406 WP 513 MP 588 ThP 155
Viner, Rosa Vineza, Nelson Vinueza, Nelson Vinueza, Nelson R	TP 158 TP 395 TP 503 TP 504 TP 583 WP 373 WP 406 WP 513 MP 583 ThP 155 ThP 281
Viner, Rosa Vinueza, Nelson Vinueza, Nelson R Vinueza, Neus	TP 158 TP 395 TP 504 TP 583 WP 373 WP 406 WP 513 MP 589 ThP 155 ThP 281 ThP 183
Viner, Rosa Vinueza, Nelson Vinueza, Nelson R Vinueza, Nelson R Visa, Neus Visentin, Sonja	TP 158 TP 395 TP 503 TP 583 WP 373 WP 406 WP 513 MP 589 ThP 155 ThP 183 MP 540 TP 667
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C.	TP 158 TP 395 TP 503 TP 583 WP 373 WP 406 WP 513 MP 589 ThP 155 ThP 281 ThP 186 TP 667
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vissers, Johannes P.C.	TP 158 TP 395 TP 504 TP 583 WP 373 WP 406 WP 513 MP 589 ThP 155 ThP 281 ThP 183 MP 540 MP 540 MP 540 WP 667
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vissers, Johannes P.C.	TP 158 TP 395 TP 504 TP 583 WP 373 WP 406 WP 513 MP 589 ThP 155 ThP 281 ThP 183 MP 540 MP 540 MP 540 WP 667
Viner, Rosa Vineza, Nelson Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vissers, Johannes P.C. Vissers, Johannes P.C.	TP 158 TP 395 TP 503 TP 504 TP 583 WP 373 WP 406 WP 513 MP 583 ThP 155 ThP 183 MP 540 TP 667 MP 482 WP 267
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C.	TP 158 TP 395 TP 503 TP 504 TP 583 WP 373 WP 406 WP 513 MP 589 ThP 158 ThP 183 MP 540 TP 667 MP 482 WP 267 ThP 292 ThP 293
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C.	TP 158 TP 395 TP 503 TP 504 TP 583 WP 373 WP 406 WP 513 MP 585 ThP 155 ThP 281 ThP 183 MP 540 TP 667 MP 482 WP 267 ThP 292 ThP 451
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vistek, Olga	TP 158TP 395TP 395TP 583WP 373WP 406WP 513MP 589ThP 185ThP 183MP 540TP 667MP 482WP 267ThP 267ThP 258ThP 258ThP 358ThP 358ThP 368ThP 368
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visantin, Sonja Vissers, Johannes P.C. Vister, Olga Vitek, Olga	TP 158 TP 395 TP 503 TP 503 WP 373 WP 406 WP 513 MP 589 ThP 155 ThP 281 MP 540 TP 667 MP 482 WP 267 ThP 292 ThP 458 ThP 588 MOB am 09:50
Viner, Rosa Vinez, Rosa Vineza, Nelson Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vissers, Johannes P.C. Vissers, Johannes P.C Vistek, Olga Vitek, Olga	TP 158 TP 395 TP 503 WP 373 WP 406 WP 513 MP 583 ThP 155 ThP 281 ThP 183 MP 540 TP 667 MP 482 WP 267 ThP 292 ThP 451 ThP 588 MOB am 09:50 MP 476 Special 693
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vissers, Johannes P.C. Vissers, Johannes P.C Vistek, Olga Vitek, Olga Vitek, Olga Vitek, Olga	TP 158TP 395TP 503TP 504TP 583WP 406WP 513MP 583ThP 155ThP 155ThP 481MP 540TP 667MP 482WP 267ThP 292ThP 451ThP 588MOB am 09:50MP 476MP 476MP 476MP 450TP 150
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Viste, Olga Vitek, Olga Vithayathil, Sajna A.	TP 158 TP 395 TP 504 TP 583 WP 373 WP 406 WP 513 MP 588 ThP 158 ThP 183 MP 540 TP 667 MP 482 WP 267 ThP 292 ThP 451 ThP 588 MOB am 09:50 MP 476 Special 669 TP 150 TP 150
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vistek, Olga Vitek, Olga Vitek, Olga Vitek, Olga Vitek, Olga Vithayathil, Sajna A. Vladimirov, Gleb	TP 158 TP 395 TP 508 TP 508 WP 373 WP 406 WP 513 MP 588 ThP 155 ThP 281 ThP 183 MP 540 TP 667 MP 482 WP 261 ThP 292 ThP 451 ThP 588 MOB am 09:50 MP 462 Special 669 TP 150 ThP 461
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vitek, Olga Vitek, Olga Vitek, Olga Vitek, Olga Vitek, Olga Vithayathil, Sajna A. Vladimirov, Gleb. Vladimirov, Gleb.	TP 158TP 395TP 395TP 503TP 583WP 373WP 406MP 589ThP 155ThP 183MP 540TP 667MP 482WP 267ThP 251ThP 588MOB am 09:50MP 476Special 693TP 150TP 461MP 461MP 086MP 860TP 460
Viner, Rosa Vinueza, Nelson Vinueza, Nelson Vinueza, Nelson R Visa, Neus Visentin, Sonja Vissers, Johannes P.C. Vistek, Olga Vitek, Olga Vitek, Olga Vitek, Olga Vitek, Olga Vithayathil, Sajna A. Vladimirov, Gleb	TP 158 TP 395 TP 503 TP 504 TP 583 WP 373 WP 406 WP 513 MP 583 ThP 155 ThP 281 ThP 183 MP 540 TP 667 MP 482 WP 267 ThP 451 ThP 588 MOB am 09:50 MP 476 Special 693 TP 156 ThP 461 MP 4086 TOA pm 3:10



Voelker, Troy		Wakabayashi, Masaki			Hay-Yan J	
Vogelsang, Maryann		Wakazono, Hiroshi			Heng	
Vogelsang, Maryann		Wakeman, Catherine			Hong	
ogelstein, Bert		Walch, Axel			Hong	
oggu, Ramakrishna Reddy		Wales, Thomas E			Hong	
ogler, Bernadette		Wales, Thomas E			Hongwei	
ogt , Bruno		Wales, Thomas E			Hongxia	
ogt, Bruno		Walker, Aaron			Hongxia (Jessica)	
oinov, Valery G		Walker, Angela			Hongxia (Jessica)	
/oinov, Valery G		Walker, Chelsea			Hongxia (Jessica)	
/olant, Stevenn		Walker, Chery			Hongxia (Jessica)	
/olchenboum, Samuel		Walker, Dale			Jack	
/olchenboum, Samuel		Walker, Dale			Jasmine SH	
/olf, Petr		Walker, Douglas			Jiamin	
/olmer , Dietrich/olmer, Dietrich		Walker, Elisabeth M Walker, Elisabether			Jian Jian	
/olmer, Dietrich		Walker, Gary			Jian	
olmer, Dietrich		Walker, Gary			Jian	
om Eyser, Claudia		Walker, L. DeEtte		-	Jiang	
on Bergen, Martin		Walker, Larry			Jiang	
on Eggeling, Ferdinand		Walker, Michael			Jianyong	
on Helden, Gert		Walker-Peddakotla, Arti			Jie	
on Helden, Gert		Wall, John			Jihong	
on Keudell, Achim		Wallace, Mark			Jing	
on Mering, Christian	MOE am 00.30	Wallace, William T		-	Jingkui	
on Stechow, Louise		Walmsley, Scott			Jingxin	
on Sydow, Lena		Walrath, Jessica			Jingxin	
onderach, Matthias		Walrond, Lisa			Jingxin	
oogt, Richard		Walsh, Callee			Jun	
oogt, Nichard forontsov, Egor		Walsh, Callee			Junhua	
orontsov, Egor		Walsh, Callee			Junhua	
orwerg, Lars		Walsh, James L			Junhua	
orwerg, Lars		Walski, Tomasz		-	Junjie	
oss, John		Walte, Andreas			Kefei	
oss, John G		Walte, Andreas			Kelin	
ouros, Paul		Walter, Liau			Kevin	
ouros, Paul		Walters, Ben			Kevin K.W.	
owcicefski, Rachel		Walters, Benjamin		-	Laixin	
oy, Brynn		Walters, Benjamin			Laixin	
/rana, Julie		Walters, James J		-	Laixin	
/rana, Julie		Walters, James J			Langing	
/ranish, James		Walton, Anthony			Lei	
reeken, Rob		Walzthoeni, Thomas		-	Lei	
/reeken, Rob J		Wan, Bang-lin		-	Lei	
/reeken, Rob J		Wan, Haitong		-	Leilei	
/reeken, Rob J		Wan, Min			Leo	
/reeken, Robert		Wan, Min			Leo (Jinyuan)	
/u, Mai N		Wan, Terence S. M			Li	
/u, Trung Nghia		Wan. Xuelian			Liang	
/uckovic, Dajana		Wan, Xuelian		-	Liang	
/uckovic, Dajana		Wan, Yisong			Lin	
/ujaskovic , Zeljko		Wanaski, Stephen			Linan	
ujaskovic, Zeljko ujaskovic, Zeljko		Wancewicz, Benjamin			Linna	
utrieu, Isabelle		Wanders, Lisa			Linna	
vatkina, Kira		Wanders, Lisa			Liwen	
Vaaijer, Cathelijn		Wanders, Ronald J. A			Lu	
Vaas , Matthew		Wang, Amy			Lu	
Vabuyele, Simuli		Wang, Amy		-	Lu	
Vachsmuth, Christian		Wang, Benlian			Mei	
/ada, Motoi		Wang, Bing			Meiyao	
Vada, MotolVadell, Keith		Wang, Chenchen			,	
Vaddell, KeithVaddell, Keith					Meizhe	
*		Wang, Cheng			Miao	
Vaddell, Keith		Wang, Chenlu Wang, Chi-Hwa				
Vade, Mary		Wang, Chi-Hwa		-	Mingda	
Vaechter, HerbertVaelkens, Etienne		,			Mingda	
*		Wang, Chunyan Wang, Clarence			Mingxun	
Vaelkens, Etienne		O ,			•	
Vaelkens, Etienne		Wang, Deyun			Minkun	
Vaggoner, Derek		Wang, Dongxue			Nan	
Vaggoner, Derek		Wang, Evolve			Pengcheng	
lagner, Brian		Wang, Evelyn			Pengcheng	
Vagner, Elizabeth		Wang, Fangjun			Ping-Ya	
lagner, Elizabeth		Wang, Feng			Qi	
Vagner, Elsa		Wang, Guanbo		-	Qian	
Vagner, Sebastian		Wang, Guanghui			Qian	
Vagner, Ulrich		Wang, Guo-Liang			Qing	
Vagstaff, Jane		Wang, Haichuan		-	Qing Jun	
Vahl, Karen		Wang, Hanliu			Qingqing	
Nakabayashi, Masaki	TI D 004	Wang, Haopeng	TI-D 004	14/	Qingsong	TD 440



		MP 185	Wanigasekara, Maheshika	ThP 563	Wei, Xin	
•		WP 217	Wanka, Stefanie		Wei, Yongzheng	
		WP 333	Wanner, Ina-Beate		Weidner, Steffen M	
		WP 362	Wanninger, Markus		Weil, David A	
		WP 422	Wanninger, Markus		Weil, David A	
		MP 051	Wanninger, Markus Wanninger, Markus		Weimer, Bart Wein, Samuel	
•		WP 308	Ward, Jennie		Weinert, Emily	
		ThP 333	Ward, Malcolm		Weinstein, John	
		ThOF pm 4:10	Ward, Malcolm		Weintraub, Susan T	
		TP 449	Ward, Malcolm		Weintraub, Susan T	
		TP 534	Ward, Malcolm		Weintraub, Susan T	
		WP 188	Ward, Malcolm		Weintraub, Susan T	
		ThP 057	Waridel, Patrice		Weis, David	
•		ThP 043	Wariishi, Hiroyuki	WP 102	Weis, David D	
		TP 113	Warner, Isiah	WP 531	Weisbrod, Chad	
Wang,	Wen-wen	WP 075	Warnet, Anna	ThP 225	Weisbrod, Chad	TP 048
Wang,	Xiangchun	WP 396	Warnke, Stephan	WOC am 08:50	Weisbrod, Chad	TP 393
Wang,	Xiao	WP 436	Warnken, Uwe		Weisbrod, Chad	TP 402
Nang,	Xiao	WP 443	Warrack, Bethanne		Weisbrod, Chad R	ThP 103
Nang,	Xiaodong	TP 671	Warren, Peter	MOD am 09:30	Weiskittel, Taylor M	MP 167
•	•	MOD pm 2:30	Warren, William		Weiskopf, Andrew	
		ThOG am 10:10	Warwick, John		Weisz, Daniel A	
		ThP 454	Washburn, Michael		Weitz, Karl K	
		ThOF pm 3:30	Washburn, Michael		Weller, Harold	
		MP 602	Wassif, Christopher A		Wellman, Sydney	
		WP 364	Wasslen, Karl V		Wells, Ann	
		MP 361	Watabe, Yoshiyuki		Wells, Edward	
_		TP 025	Watanabe, Jun		Wells, Mitch	
		MP 455	Watanabe, Jun		Wells, Mitch Wells, Mitch	
•	,	TP 328	Watanabe, Jun		,	
		ThP 041	Watanabe, Jun		Wen, Bo	
		MOH am 09:50 ThP 239	Watanabe, Jun Watanabe, Jun		Wen, Zhihui Wendel, Friedrich	
		WP 679	Watanabe, Jun		Wendt, Chris H	
		ThP 448	Watanabe, Kyoko		Wendt, Juergen	
		ThP 449	Watanabe, Mitsugu		Wendt, Karin	
		TOD pm 3:10	Watanabe, Yosuke		Wendt, Patricia	
		MP 616	Waterhouse, David		Weng, Kai	
_	•	ThP 586	Waters, James		Weng, Naidong	
		WP 373	Watkins, Steven		Weng, Rui	
		WP 404	Watkinson, Tom G		Weng, Shao-Hsing	
_		MP 235	Watson, Bonnie		Weng, Xiang Ray	
		ThP 234	Watson, Bonnie		Wenger, Craig D	
Nang,	Yanhua	TP 641	Wattenberg, Andreas	ThP 625	Wenke, Jamie	MP 572
Nang,	Yanzhuang	TOF am 10:10	Wattiez, Ruddy	MP 618	Wenke, Jamie L	TP 684
		ThOC pm 4:10	Watts, Brandy	MP 460	Wennblom, Trevor	ThP 455
Vang,	Yawei	TP 113	Wauer, Tobias		Wenschuh, Holger	
Vang,	Ye	ThP 096	Wavreille, Anne-Sophie		Werner, Angelika	TP 538
		ThP 328	Weaver, Eric		Wernisch, Stefaine	
•	0	ThP 324	Weaver, Eric		Wernisch, Stefanie	
		ThP 548	Webb, Andrew		Werth, Emily	
		TP 595	Webb, Andrew		Werth, Emily	
-	•	WOD pm 2:50	Webb, Andrew		Wesdemiotis, Chrys	
Vang,	Yinsheng	WP 179	Webb, lan K		Wesdemiotis, Chrys	ThP 070
		WP 180	Webb, lan K		Wesdemiotis, Chrys	
	•	WP 361	Webb, lan K		Wesdemiotis, Chrys	
		WP 380	Webborn, Peter		West Andy	
_	•	TP 096	Webborn, Peter	•	West, Andy	
		WP 200	Weber, Darren		West, Graham	
		MP 578	Weber, Waylon		West, Raymond	
		MP 410	Wecksler, Aaron		West III. Paymond F	
		ThP 040 ThP 510	Weddle, Gary H Weggler, Benedikt		West III, Raymond E Westland, Jessica	
_		TP 119	Wehr, Angela		Westland, Jessica	
		MP 093	Wehrli, Patrick		Weston, Daniel	
		ThP 044	Wei, Alexander		Westover, Kenneth	
_		TP 622	Wei, Hui		Westphall, Michael	
		TOH am 08:30	Wei, Hui		Westphall, Michael S	
_		ThP 649	Wei, Juan	MOG am 08:50	Westphall, Michael S	
		TOF am 09:10	Wei, Michael		Westphall, Michael S	
		MP 410	Wei, Michael		Westphall, Michael S	
_		WOH am 08:50	Wei, Pu		Westphall, Michael S	
		WP 659	Wei, Qing		Westphall, Michael S	
_		MP 019	Wei, Ru		Westphall, Michael S	
		WP 449	Wei, Wanghui		Westphall, Michael S	
		TP 632	Wei, Xianrong (Jenny)		Westphall, Michael S	
_		ThP 290	Wei, Xianrong (Jenny)		Westphall, Michael S	
		ThP 548	Wei, Xian-Yong		Westphall, Michael S	



Westphall, Michael S	TD 580
Westphall, Michael S	
Westphall, Michael S	WP 460
Westwood, Carole	ThP 575
Wettstädt, Sarah	
Wetzel, Collin	
Wetzel, Stephanie	ThP 184
Wheeler, Patrick	NP 102
Whelan, Stephen	MP 465
Whelan, Stephen A	ThP 555
Whelan, Stephen A	
Wherritt, Daniel	ThP 228
Whetton, Anthony	MP 554
Whigham, Arlene	
White, Earl	
White, Earl L	TP 507
White, Mitchell R	TOD nm 4:10
White, Robert	IIIP 110
White, Thomas	ThP 178
Whiteaker, Jeff	
Whitehead, Shawn	
Whitehead, Shawn N	
Whitehouse, Craig	WP 027
Whitehouse, Craig M	
Whitelegge, Julian	
vviitelegge, Julian	THOI PIN 3.30
Whitelegge, Julian	TOD am 10:10
Whitelegge, Julian	WP 391
Whiteley, Gordon	TP 465
Whittal, Randy	
willtal, Ralluy	111F 410
Whitwell, Andrew	MP 376
Wichard, Thomas	ThP 683
Wickramasekara, Samanthi	
Wickramasekara, Samanthi I	
Wickramasekara, Samanthi I	TP 014
Widjaja, Fanny	TP 057
Wiechmann, Anja	
Wiechmann, Anja	
Wiechmann, Anja	WP 676
	WP 676
Wiechmann, Anja Wiederin, Jayme	WP 676 MP 515
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel	WP 676 MP 515 TOC am 09:50
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen	WP 676 MP 515 TOC am 09:50 ThP 141
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan	WP 676 MP 515 TOC am 09:50 ThP 141 TP 500
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen	WP 676 MP 515 TOC am 09:50 ThP 141 TP 500
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie	WP 676
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh	WP 676
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie	WP 676
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiestner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R.	
Wiechmann, Anja	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R Wild, Peter Wildgoose, Jason	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R Wild, Peter Wildgoose, Jason	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R Wild, Peter Wildgoose, Jason Wildgoose, Jason Wildgoose	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R Wild, Peter Wildgoose, Jason Wildgoose, Jason L Wildgoose, Jason L	WP 676 MP 515 TOC am 09:50 ThP 141 F 500 MP 563 ThOH pm 3:10 WP 570 MP 575 WP 122 TP 651 TP 146 ThOH am 09:30 MP 146 ThP 588
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiestner, Jan Wigstner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R Wild, Peter Wildgoose, Jason Wildgoose, Jason L Wildgoose, Jason L Wildgoose, Jason L Wildgoose, Jason L	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiestner, Jan Wigstner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcock, William R Wild, Peter Wildgoose, Jason Wildgoose, Jason L	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiestner, Jan Wigstner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcock, William R Wild, Peter Wildgoose, Jason Wildgoose, Jason L	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wigstner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R. Wild, Peter Wildgoose, Jason L.	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel. Wiese, Steffen Wiesner, Jan. Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R. Wild, Peter Wildgoose, Jason L.	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R Wild, Peter Wildgoose, Jason Wildgoose, Jason L	
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Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiestner, Jan Wigstner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcox, Brandon Wilcox, William R Wild, Peter Wildgoose, Jason Wildgoose, Jason L Wildsmith, Kristin Wiley, H. Steven Wiley, Joshua Wiley, Steven	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wiestner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcox, William R. Wild, Peter Wildgoose, Jason Wildgoose, Jason L.	
Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wigstner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcock, Brandon Wildoose, Jason L Wildgoose, Jason L	
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Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wigstner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcock, Brandon Wilcock, Brandon Wildoose, Jason L Wildgoose, Jason L	
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Wiechmann, Anja Wiederin, Jayme Wiegelmann, Marcel Wiese, Steffen Wiesner, Jan Wigstner, Adrian Wigger, Tina Wight, Julie Wigneshweraraj, Sivaramesh Wilcox, Brandon Wilcox, William R Wild, Peter Wildgoose, Jason L Wildgoose, Jason	
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Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard. Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Troy. Wood, William Wood, William Woodall, Daniel Woodorofe, Carolyn C. Woods, Alisa G.	MP 260 ThP 315 ThP 315 MOD am 08:33 TOB am 09:30 ThP 522 ThP 532 ThP 550 TP 420 TP 550 TP 560 TP 472 MP 511 ThP 162 MOE pm 3:33 MP 337 TP 586 TP 586 MOA am 08:30 WP 655 MP 655 MOA am 08:30 WP 655 MP 476
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Tim Wood, Troy. Wood, William Wood, William Woodall, Daniel Woodroofe, Carolyn C Woods, Alisa G. Woods, Alisa G.	MP 260 ThP 315 ThP 315 MOD am 08:30 TOB am 09:30 TP 522 ThP 532 TP 500 TP 420 TP 541 MP 511 ThP 162 ThP 172 ThP 208 MOE pm 3:30 MP 331 TP 588 TP 588 MP 651 TP 588 MP 652 TP 586 MP 470 WP 472 WP 293
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Tim Wood, Troy Wood, William Wood, William Woodall, Daniel Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Alisa G.	MP 260 ThP 315 MOD am 08:30 TOB am 09:33 TOB am 09:33 TOB am 09:33 ThP 532 ThP 532 ThP 550 TP 420 TP 547 MP 511 ThP 1620 MOE pm 3:30 MP 333 MP 333 TP 586 TP 586 TP 586 MOA am 08:33 MP 475
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Troy Wood, William Wood, William Wood, William Woodall, Daniel Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Amina S.	MP 260 ThP 315 MOD am 08:30 TOB am 09:30 TOB am 09:30 TOB am 09:30 TOB 30 TOB 3
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Tim Wood, Troy Wood, William Wood, William Wood, William Wood, William Woodall, Daniel Woodrofe, Carolyn C Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S.	MP 260 ThP 315 TP 486 MOD am 08:30 TOB am 09:33 TOB 53 ThP 532 ThP 553 TP 540 MP 51' ThP 164 ThP 164 MOD pm 3:33 TP 586 MP 65' TP 586 MP 475 MP 475 MP 272 ThP 665 TP 676
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, William Wood, Troy Wood, William Wood, William Wood, William Wood, William Wood, Jine Wood, Carolyn C. Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S. Woods, Amina S. Woods, Amina S.	MP 260 ThP 315 ThP 315 MOD am 08:33 TOB am 09:30 TP 522 ThP 532 TP 500 TP 420 TP 550 TP 541 MP 511 ThP 162 MOE pm 3:30 MP 337 TP 588 MOA am 08:30 WP 656 MP 475 WP 272 ThP 685 TOE pm 3:30 TP 6865 TP 6865
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard. Wood, Michelle Wood, Michelle Wood, Michelle Wood, Troy. Wood, William Wood, William Wood, William Wood, William Wood, Jason Wood, William Wood, Searolyn C. Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S. Woods, Amina S. Woods, Christopher	MP 260 ThP 315 ThP 315 MOD am 08:33 TOB am 09:33 ThP 522 ThP 532 ThP 550 TP 420 TP 540 MP 511 ThP 164 ThP 177 ThP 206 MOE pm 3:33 MP 333 TP 586 MP 656 MP 479 WP 272 ThP 686 TOE pm 3:33
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Tim Wood, Troy. Wood, William Wood, William Woodall, Daniel Woodall, Daniel Woods, Alisa G.	MP 260 ThP 315 ThP 315 MOD am 08:30 TOB am 09:30 TP 522 ThP 532 TP 500 TP 420 TP 547 MP 511 ThP 162 MOE pm 3:30 MP 333 MP 333 MP 333 MP 353 TP 586 TP 586 MP 477 MP 517 ThP 686 TOE pm 3:30 MP 277 ThP 686 TOE pm 3:30 MP 556 MP 556 MP 476 MP 5576
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Tim Wood, Troy Wood, William Wood, William Wood, William Woodall, Daniel Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S. Woods, Robert Woods, Robert Woods, Robert Woods, Robert Woods, Robert Woods, Robert Woodwor, Caroline	MP 260 ThP 315 MOD am 08:30 TOB am 09:30 TOB am 09:30 TP 522 ThP 533 ThP 533 TP 550 TP 547 MP 511 ThP 162 MOE pm 3:30 MP 333 TP 586 MOA am 08:30 MP 475 WP 202 WP 272 ThP 688 TOE pm 3:30 TP 686 TOE pm 3:30 TP 687
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Troy. Wood, William Wood, William Wood, William Woodall, Daniel Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S. Woods, Robert. Woodword, Caroline Woodward, Caroline Woodward, Caroline Woodward, Caroline Woodward, Caroline Woodward, Caroline Woodward, Caroline Woodritt, Adrian R	MP 260 ThP 315 TP 486 MOD am 08:30 TP 522 ThP 537 ThP 537 ThP 556 TP 547 MP 517 ThP 162 MOE pm 3:30 MP 337 TP 586 MP 475 MP 475 MP 206 MP 475 MP 206 MP 475 MP 206 MP 475 MP 476 MP 477 MP 476 MP 477 MP 477
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michaelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michaelle Wood, Jim Wood, William Wood, William Wood, William Wood, William Woodall, Daniel Woodall, Daniel Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S. Woods, Amina S. Woods, Christopher Woods, Cooline Woodlitt, Adrian R Wooten, R. Mark.	MP 260 ThP 315 TP 486 MOD am 08:30 TP 532 ThP 537 ThP 537 ThP 537 TP 540 MP 517 ThP 167 MP 517 ThP 172 MOE pm 3:30 WP 657 WP 255 TP 686 TOE pm 3:30 WP 657 TP 686 TOE pm 3:30 WP 657 TP 420 MP 293
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard. Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Troy. Wood, William Wood, William Wood, William Wood, William Wood, Jason Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S. Woods, Amina S. Woods, Amina S. Woods, Christopher Woodward, Caroline Woolfitt, Adrian R. Wooten, R. Mark. Wootton, Christopher	MP 260 ThP 315 ThP 315 MOD am 08:33 TOB am 09:33 ThP 532 ThP 532 ThP 550 TP 550 TP 550 TP 561 MP 511 ThP 162 MOE pm 3:33 MP 333 TP 586 TP 586 MP 475 WP 657 TP 686 TOE pm 3:36 MP 272 ThP 686 TOE pm 3:36 MP 576 TP 496 MP 576 TP 496 MP 295
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard Wood, Michelle Wood, Michelle Wood, Michelle Wood, Tim Wood, Troy. Wood, William Wood, William Woodall, Daniel Woodall, Daniel Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S. Woods, Amina S. Woods, Christopher Wooln, Christopher Wootn, Christopher	MP 260 ThP 315 ThP 315 MOD am 08:30 TOB am 09:30 TP 522 ThP 532 TP 550 TP 420 TP 547 MP 517 ThP 164 ThP 167 MOE pm 3:30 MP 333 MP 333 MP 333 TP 586 MP 476 MP 477 WP 293 WP 277 ThP 688 TOE pm 3:30 TP 686 TP 496 WP 576 TP 496 MP 479 WP 272 TP 496 MP 203 TP 111
Wong, Philip S. Wong, Yi Ling Elaine Wongkongkathep, Piriya Woo, Christina. Woo, Sunghee Wood, David Wood, Jason Wood, Jason Wood, Jason Wood, Keith Wood, Keith Wood, Keith Wood, Michael Howard. Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Michelle Wood, Troy. Wood, William Wood, William Wood, William Wood, William Wood, Jason Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Alisa G. Woods, Amina S. Woods, Amina S. Woods, Amina S. Woods, Amina S. Woods, Christopher Woodward, Caroline Woolfitt, Adrian R. Wooten, R. Mark. Wootton, Christopher	MP 260 ThP 315 MOD am 08:30 TOB am 09:33 TOB am 09:33 TOB am 09:33 TP 532 ThP 533 ThP 550 TP 420 TP 560 ThP 172 ThP 1620 MOE pm 3:30 MP 333 MP 333 TP 586 MOA am 08:33 MP 475 WP 257 ThP 686 TOE pm 3:30 TP 686 TOE pm 3:30 TP 687 TOE pm 3:30 TP 697 TP 496 TOE pm 3:30 TP 697 TP 496 TP 202 MP 275 TP 496 TP 202 MP 275 TP 496 TP 202 MP 275 TP 496 TP 202 MP 203 TP 111 MOC pm 3:10



Wormwood, Kelly L	MP 479	Wu , Ronghu	MP 599	Xiao, Xiaovin	MP 029
Wormwood, Kelly L		Wu, Ronghu			MP 030
Wormwood, Kelly L		Wu, Ronghu			WP 643
Woroniecki, Witold	ThP 348	Wu, Shiaw-Lin		Xiao, Yongsheng	MP 292
Woroniecki, Witold		Wu, Shiaw-Lin (Billy)			TP 605
Woroniecki, Witold		Wu, Si			TP 595
Woroniecki, Witold		Wu, Si			WP 36
Woroniecki, Witold Worrell, Brady		Wu , Si Wu , Wei			
Worsfold, Camilla R		Wu, Wei			WP 215
Worsley, Peter		Wu, Wei			ThP 500
Worth, Andrew		Wu, Xia			ThP 460
Worth, Andrew		Wu , Xia		, ,	TP 129
Worth, Andrew J		Wu , Xia			MP 59
Worth, Andrew J	WOH am 09:10	Wu , Xinyan	TP 529	· ·	TP 587
Wouters, Eloy R		Wu, Yanxin	WP 129	Xie, Liqi	WOH am 09:50
Wright, David		Wu, Yiman			WP 35
Wright, David		Wu, YingNian			MP 334
Wright, George		Wu , Yue			ThOC am 08:30
Wright, Kenneth		Wu, Yunqi			MP 308
Wright, Lori		Wu, YunQi		,	TP 648
Wright, Zachary		Wu, Zeming			WP 12
Wrobel, John		Wu, Zhiping			ThP 434
Wrobleski, Aaron		Wu, Zhixiang Wu Ludvigsson, Jufang		,	MP 310
Wrona, Mark		Wu, Gaston J			TP 102
Wrona, Mark		Wuehr, Martin			TP 325
Wrona, Mark		Wuehr, Martin		•	WP 054
Wrona, Mark		Wühr, Martin			WP 074
Wrona, Mark	WP 148	Wühr, Martin	ThP 439	Xing, Zhi	MP 064
Wu, Ban Hsin	TP 008	Wuhrer, Manfred	MP 586	Xiong, Bob	ThP 344
Wu, Billy		Wuhrer, Manfred		· ·	ThOA am 10:10
Wu, Changgong		Wuhrer, Manfred			ThP 348
Wu, Chi-Lin		Wujcik, Chad		•	ThP 356
Wu, Ching		Wulff, Tune			WP 375
Wu, Ching		Wunderlich, Dirk			WP 682
Wu, Ching		Wunderlich, Dirk Wurlitzer, Marcus		•	MP 22 ²
Wu, Ching		Wyatt, Mark			MP 630
Wu, Christine		Wylie, Philip L.		•	ThP 540
Wu, Christine		Wylie, Philip L.			WP 29
Wu, Chun-Feng		Wylie, Philip L			ThP 396
Wu, Chun-Yi		Wynne, Paul			TP 385
Wu, Cong	WP 355	Wynne, Paul	ThP 207	Xiu, Lichen	TP 388
Wu, Haiyan		Wysocki, Vicki	MP 550	Xiu, Lichen	TP 40 ⁻
Wu, Hanzhi		Wysocki, Vicki		,	TP 649
Wu, HongKun		Wysocki, Vicki			WP 157
Wu, Hsuan-Wen		Wysocki, Vicki		· / F	WOH pm 2:50
Wu , Hui		Wysocki, Vicki		' ·	WP 67
Wu , Hulin		Wysocki, Vicki H Wysocki, Vicki H		,	WP 287
Wu, Jiang		Wysocki, Vicki H			MP 083
Wu, Jiang		Wysocki, Vicki H		, 0	MP 089
Wu, Jianglin		Wysocky, Becca			WP 659
Wu, Jianglin		Wysocky, Rebecca		,	TP 335
Wu, Jianglin		Xi, Wanpeng		Xu, Fuxing	MP 093
Wu, Jianglin	MP 138	Xia, Beryl	WOA am 09:30	Xu, Fuxing	ThOC am 08:30
Wu, Jianqiang		Xia, Jun-Liu			ThP 040
Wu , Jing		Xia, Qiangwei		,	TP 432
Wu , Jing		Xia , Shaw			TP 69
Wu, Jing-Tao		Xia, Weiming			WP 45
Wu , Jinn		Xia, Yu			TP 513
Wu, Jinn		Xia, Yu			MP 150
Wu , Jinn		Xia, Yu		, 0	ThP 51!
vvu , Jinn Wu , Jinn		Xia , Yu Xia , Yu		, ,	TP 025
Wu, Jinn		Xia, Yu			WP 060
Wu, Lauren		Xia. Yu		, ,	WP 333
Wu, Lin		Xia, Yuan-Qing			WP 67
Wu , Lin		Xian, Feng			WP 39
Wu , Long		Xiang, Rong			ThP 08
Wu , Long		Xiao, Gang			MP 52
Wu , Min		Xiao, Gang		,	TP 53
Wu, Qian		Xiao, Haopeng			MP 375
Wu, Qian		Xiao, Haopeng			ThOA am 09:50
Wu, Qinghao		Xiao, Hua		,	WP 405
Wu, Ranran		Xiao, Kaijie		,	WP 45
Wu, Ranran	WOC pm 3:50 MOD am 09:50	Xiao, Kunhong Xiao, Peng		,	WP 472



Xu , Xin	MP 247	Yang	Guixiang	MP 253	Yang, Zhibo	WP 519
Xu, Xin				ThP 041	Yang, Zhichang	
Xu, Xun	WP 333	Yang,	Guowu	WP 003	Yanjanin, Nicole M	
Xu, Yang	MP 319	Yang,	Haiyang	MP 083	Yao, Chunxiang	MP 465
Xu, Yang	ThP 341	Yang,	Han-Yin	MP 568	Yao, Chunxiang	MP 485
Xu, Yongmei				ThOG am 09:50	Yao, Chunxiang	
Xu , Yue				WP 407	Yao, Chunxiang	
Xu, Zhenghe		Yang,	Heyi	ThOD pm 4:10	Yao, Conghui	
Xuan, Yue				ThP 179	Yao, Honglin	
Xuan, Yue		•		MOE pm 3:50	Yao, Huifang	
Xuan, Yue				ThP 279	Yao, Jinting	
Xuan, Yue		•		WP 008	Yao, Jinting	
Xuan, YueXuan, Yue				TP 368 ThP 253	Yao, Lihang Yao, Ming	
Xuan, Yue		•	•	TP 671	Yao, Qiuming	
Xuan, Yue		•	•	WP 360	Yao, Zhong-Ping	
Xuan, Yue				WP 349	Yao, Zhong-Ping	
Xue, Bingbing				WP 356	Yao, Zhong-Ping	
Xue, Runmiao				MOB am 10:10	Yao, Zhong-Ping	
Xue, Runmiao				MOG pm 3:10	Yao-Hsin, Tseng	
Xue, Yuzhu				MP 183	Yargeau, Viviane	
Xue, Yuzhu	ThP 427	Yang,	Junhai	TOC am 09:30	Yariwake, J.H	
Xun, Likun	ThP 450	Yang,	Junhai	WP 520	Yasuno, Hideyuki	TP 662
Yadav, Shruti	MP 357	Yang,	Kui	TOE am 09:30	Yates, John	MOF am 08:30
Yager, James D		Yang,	Li	MP 641	Yates, John	TP 396
Yagnik, Gargey				TP 625	Yates, John	
Yajaira Combariza, Marianny		•		MP 222	Yates III, John R	
Yalcin, Emine				MP 524	Yazawa, Itaru	
Yalcin, Talat				TP 217	Yazawa, Itaru	
Yamada, Iwao		•		WP 003	Yazawa, Itaru	
Yamada, Masaki Yamada, Masaki				ThP 290 WP 020	Ye, GeneYe, Hui	
Yamada, Masuyoshi		•	•	MP 232	Ye, Hui	
Yamada, Tadaaki				MP 481	Ye, Juanying	
Yamagishi, Yoko		•		MP 492	Ye, Kegiong	
Yamaguchi, Hitomi		•	•	TP 527	Ye, Sha Joshua	
Yamaguchi, Tadayuki				ThP 027	Ye, Sha Joshua	
Yamaki, Satoshi		•		ThP 388	Ye, Sha Joshua	
Yamamoto, Takushi	TP 655	Yang,	Ning	ThP 390	Ye, Sha Joshua	WP 146
Yamamoto, Takushi	WP 528	Yang,	Nora	MP 247	Ye, Xiaoying	TP 465
Yamamoto, Tetsushi				ThP 328	Ye, Xiaoyun	
Yamane, Hisakazu		•		WP 400	Yee, Cassandra	•
Yamashita, Hiroki				MP 105	Yefremova, Yelena	
Yamauchi, Yoshio		•		WP 285	Yen, Gloria	
Yamazaki, Yuzo		•		TP 345	Yen, Gloria	
Yamazaki, Yuzo Yamazaki, Yuzo				MP 583 TP 436	Yen, Kai-Chun Yen, Roger	
Yan, Beizhan				MP 019	Yen, Ten-Yang	
Yan . Bo				WP 449	Yerabolu, Ravikiran	
Yan, Bo				ThP 507	Yerabolu, Ravikiran	
Yan, Cunyu				ThP 500	Yerabolu, Ravikiran	
Yan, Hui				MP 576	Yerabolu, Ravikiran	
Yan, Jing				TP 436	Yerabolu, Ravikiran	
Yan, Jing				WP 396	Yergey, Alfred L	
Yan, Ping				MP 474	Yergey, Alfred L	
Yan, Xiaojing				WP 109	Yergey, Alfred L	
Yan, Xin				ThP 290	Yesilbag Tonga, Gulen	
Yan, Yahui Yanachkov, Ivan				MOD pm 3:30	Yeung, Hoi Sze Yeung, Ken	
Yanagi, Hiroyuki				MOB pm 3:30 TP 612	Yeung, Ken KC	
Yandeau-Nelson, Marna	ThP 686	•	0,	ThP 564	Yi , Dai	
Yang, Bing				ThP 355	Yi , Jinghai	
Yang, Bo				ThP 359	Yi, Xingling	
Yang, Charles				ThP 398	Yi, Xingling	
Yang, Charles T	TP 321	Yang,	Yanan	TP 319	Yi , Yi TP 194	
Yang, Charles T	TP 350	Yang,	Yang	ThOB pm 3:10	Yi , Yi WP 001	
Yang, Charles T	WP 056	Yang,	Yanling	MP 616	Yi, Zhengping	MP 505
Yang, Cheng				TP 323	Yi, Zhengping	
Yang, Cheng		•		MP 429	Yi, Zhengping	
Yang, Chenxi		•	0, 0	ThOF pm 3:30	Yi, Zhengping	
Yang, Chih-Hsiang				ThP 570	Yiannikouris, Alexandros	
Yang, Dajian		•	•	MP 361	Yiantzi, Evangelina	
Yang, Dan-Hui Dorothy				TP 025	Yilmaz, Ali Yim, Won Cheol	
Yang, Dong Sik		•		ThP 017 MOA am 09:30	Yim, Won Cheol	•
Yang, Dorothy				MP 021	Yin, Haidi	
Yang, Dorothy				MP 032	Yin, Haidi	
Yang, Fuquan				TOH pm 3:50	Yin, Hengfu	
Yang, Guang				WP 392	Yin, Hongfeng	
- •		3,				



in, Hongrui		Yu, Haoying		Zacharos, Athanasios	
in, Liusong		Yu, Huaidong		Zachova, Katerina	
i n , Xiaoyanin, Xiaoyanin, Yanhai		Yu, Jau-Song Yu, Jau-Song		Zahedi, René Zahradníčková, Helena	
i ng , Wantao		Yu , Jhe-Wei		Zahradnikova, Martina	
i p , Ping		Yu, Jianshi		Zaia, Joseph	
i p , Ping		Yu, Julie		Zaia, Joseph	
ip, Ping		Yu, Kate		Zaia, Joseph	
ip, Richard	MP 322	Yu, Kate	MP 245	Zaia, Joseph	TOD pm 4:
oda, Ritsuko		Yu, Kate	ThP 300	Zaia, Joseph	WOD am 10:
oder, Sean		Yu, Kyung-Sang		Zaia, Joseph	
okoi, Yasuto		Yu, Kyung-Sang		Zaikin, Vladimir	
okoi, Yasuto		Yu, Li-Rong		Zaima, Nobuhiro	
okoi, Yasuto		Yu, Li-Rong		Zaitsu, Kei	
ong, Jeongsik		Yu, Lori		Zaker Shahrak, Mehrdad	
oo, Hyun Ju		Yu, Lu-Gang		Zakeri, Hamideh	
oo, Jong Shin		Yu, Marcella		Zakirova, Zuchra	
on, Jung-Hwan		Yu, Ningxi Yu, Peng		Zambardi, Gilles Zambito, Frank	
oon, Seo Hyun oon, Seo Hyun		Yu, Qing		Zambito, Frank	
on, Sohee		Yu, Qing		Zamboni, Nicola	
on, Sung Hwan		Yu, Shaoxia		Zamora, Ismael	
on, Sung Hwan		Yu, Shaoxia		Zamora, Ismael	
on, Sung Hwan		Yu, Sheng-Sheng		Zamora, Ismael	
on, Sung Hwan		Yu , Soo-Young		Zamora, Ismael	
on, Sung Hwan		Yu , Su Jong		Zamora, Ismael	
on, Sung Hwan		Yu, Xiaofeng		Zamora, Ismael	
on, Sung Hwan		Yu, Xiaofeng		Zamora, Ismael	
orozu, Keigo		Yu, Xu		Zanchin, Nilson	
shida, Hideo		Yu , Yang		Zand, Martin	TP 5
shida, Masaru		Yu, Yaping		Zandkarimi, Fereshteh	TP 1
shikawa, Katsunori		Yu , Yi-Kuo	TP 139	Zandkarimi, Fereshteh	TP 2
shinaga, Sosuke	ThP 482	Yu, Yi-Kuo	WOB pm 3:30	Zandkarimi, Fereshteh	TP 2
shizawa, Satoko	WP 175	Yu, Ying Qing	MP 590	Zang, Li	MOD am 10:
st, Richard	TP 188	Yu, Ying-Qing	MP 188	Zang, Li	TP 5
st, Richard A	MP 362	Yu, Ying-Qing	MP 600	Zang, Li	WP 6
st, Richard A	MP 120	Yu, Ying-Qing		Zang, Lisa	ThP 3
st, Richard A		Yu, Ying-Qing		Zang, Xiaoling	
ost, Richard A		Yu , Yuan		Zanon, Stephen	
st, Richard A		Yu, Yucheng		Zaragoza, William J	
st, Richard A		Yu, Zhihao		Zare, Richard	
st, Richard A		Yu, Zhiren		Zare, Richard	
ost, Richard A		Yuan, Moucun		Zare, Richard	
est, Richard A		Yuan, Moucun		Zarraga, Gabriela	
st, Richard A		Yuan, Wei		Zarrine Afsar, Arash	
st, Richard A		Yuan, Zuo-Fei Yuan. Zuo-Fei		Zavalin, Andre	
st, Richard A		,		Zavalin, AndreZavras, Athanasios	
st, Richard Ast, Richard A		Yuan, Zuo-Fei Yudi Icimoto, Marcelo		Zaw, Thiri	
u, Chun-Yan		Yue. Lei		Zaware, Nilesh	
u , Youwen		Yue, Lei		Zecha, Jana	
u , Youwen		Yue, Lei		Zeisel, Steven	
uhnovski, Nikolay		Yue, Wyatt W		Zekavat, Behrooz	
ung, Holly		Yue, Xiaoshan		Zekavat, Behrooz	
ung, lain		Yue, Xiaoshan		Zekavat, Behrooz	
ung, lain		Yuk, Jimmy		Zekavat, Behrooz	
ung, lain S		Yuk, Jimmy		Zelanis, André	
ung, Lydia M		Yukihira, Daichi		Zeller, Martin	
ung, Nicolas L		Yukihira, Daichi		Zelnick, Leila	
ung, Nicolas L		Yukiyama, Manabu		Zelter, Alex	
ung, Nicolas L		Yun, Danny		Zemaitatis, Bozena	
ung, Nicolas L		Yung, Yeni P		Zen , Yoh	
ung, Nicolas L	WP 190	Yung, Yeni P		Zendong, Zita	
ung, Nicolas L		Zabel, Matthias		Zeneyedpour, Lona	TOF am 08
ıng, Patricia		Zabrouskov, Vlad	MOB am 09:50	Zeng, Hang	
ung, Sydney		Zabrouskov, Vlad		Zeng, Jianing	
ungblood, Rick		Zabrouskov, Vlad		Zeng, Lingfei	
ungblood, Rick		Zabrouskov, Vlad		Zeng, Maomao	
ussef, Nader		Zabrouskov, Vlad		Zeng, Rong	
Ai-Ming		Zabrouskov, Vlad		Zeng, Su	
Byungsoo		Zabrouskov, Vlad		Zeng, Wen-Feng	
, Byung-Yong		Zabrouskov, Vlad		Zeng, Wen-Feng	
Chia-Jung		Zabrouskov, Vlad		Zeng, Wen-Feng	
, Chuan-Yih		Zabrouskov, Vlad		Zenka, Roman	
Chuan-Yih	TP 433	Zabrouskov, Vlad		Zenka, Roman	
		Zahrauakay \/lad	MOH nm 2:20	Zenobi, Renato	ThP (
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	nbing ngliang				TP 053			ThP 515
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	aoqi				TP 293			ThOB am 09:30
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•	inging				ThOG pm 3:30ThOB am 09:30			MP 236
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	chi		-		WP 349			ThP 082
•	abing		-		WOF am 10:10	,		TP 572
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	mma				ThP 518			MOA am 10:10
	uming		•	,	TP 504			MP 550
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•	laiying		-		TP 149			MP 605
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	lao				WP 043			ThOG pm 2:50
•	lao		-		MP 406			TP 031
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•	lui		-		TP 161		•	MOH am 09:50
	lui		-		TP 494			MP 386
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•	ennifer				WP 665	,	•	WOD am 08:30
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	ing		Zhang,	Xin	WP 135	Zheng,	Во	TP 347
•	itao				ThP 645			TP 469
•	iyang		-	•	TOE am 09:10			WP 194
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•	ai				MP 024			WP 188
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•	i				MP 220			TP 258
	iangtao				ThOA am 10:10			WP 585
	ichao				MP 591	•	•	MP 024
	ihua				ThOF am 09:30			MP 064
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