

Scientific Program

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MONDAY 20 APRIL, 2009

Room Sydney

- 12:00–13:00 *Lunch*
13:00–15:00 National examination for medical microbiologists in training
15:00–15:30 *Coffeeltea*
15:30–16:15 *J. Verhoef*, Lecture
16:15–17:00 *G.J.J. van Doornum*, Lecture
18:30 *Dinner*

Room 1

- 13:30–14:00 *Registratie deelnemers LEAN-programma*
14:00–15:00 Sessie LEAN microbiology: future or fiction
D. Van Goubergen
Inleiding
15:00–15:30 *Coffeeltea*

Room 3

- 15:30–17:00 Workshop LEAN microbiology: future or fiction
18:30 *Diner*

TUESDAY 21 APRIL, 2009

Room Athene Plenary session “Microbes go Extreme”

Chairmen: S. Brul & P. Rottier

- 09:30–10:15 *W. M. de Vos (Wageningen/Helsinki, The Netherlands/Finland)*
O001 Microbes inside
10:15–11:00 *S. Mattiucci (Rome, Italy)*
O002 Genetic diversity of nematodes in arctic and Antarctic ecosystems
11:00–11:30 *Coffeeltea*
11:30–12:15 *M. Young (Bozeman, USA)*
O003 Archaeal viruses from high temperature environments: integrating evolution, ecology, and biochemistry
12:15–13:00 *A. Casadevall (New York, USA)*
O004 Fungal virulence, vertebrate endothermy, and dinosaur extinction: is there a connection?
13:00–13:30 Award ceremony
13:30–14:30 *Lunch*

Room Athene Lunch symposium Siemens Healthcare Diagnostics: efficiency and quality in molecular diagnostics

- 13:30–13:45 *J. Rothuizen*
Welcome and introduction
13:45–14:20 *G. Hennig*
OS Siemens’ magnetic bead extraction technology: a key for efficiency and quality in molecular diagnostics
14:20–14:30 Questions & answers

Room Athene Werkgroep Oost & West: EU CAST or CLSI breakpoints: can we reach consensus in the Netherlands?

Chairman: M. A. Leverstein—van Hall

- 14:30–15:00 G. Kahlmeter (Växjö, Sweden)
O005 EUCAST: background and developments
- 15:00–15:15 J. W. Mouton
O006 pro EUCAST
- 15:15–15:30 M. Visser
O007 pro CLSI
- 15:30–15:45 J. Van Eldere (Leuven, Belgium)
O008 The Belgian consensus: EUCAST starting January 2010
- 15:45–16:00 Panel discussion
- 16:00–16:30 *Coffeeltea*

Room Sydney WOGIZ: *Coxiella burnetii*/Q fever outbreaks in The Netherlands

Chairmen: Y. T. H. P. van Duynhoven & P. M. Schneeberger

- 14:30–14:45 M. H. Nabuurs-Franssen
O009 Clinical follow-up after acute Q fever
- 14:45–15:00 P. Vellema
O010 Q fever in (small) ruminants in The Netherlands
- 15:00–15:15 B. J. van Rotterdam
O011 Molecular detection of *Coxiella burnetii*
- 15:15–15:30 W. van den Hoek
O012 Epidemiology of Q-fever in The Netherlands
- 15:30–15:45 G. J. Blaauw
O013 Evaluation of an ELISA in comparison to an IFA to estimate the seroprevalence of *Coxiella burnetii* in the population
- 15:45–16:00 J. J. H. C. Tilburg
O014 Molecular typing of *Coxiella burnetii* directly in various clinical samples shows a possible clonal origin of the ongoing Q-fever outbreak
- 16:00–16:30 *Coffeeltea*

Room 3 Antifungal resistance in fungi

Chairman: P. E. Verweij

- 14:30–15:00 M. Arendrup (Copenhagen, Denmark)

- O015 In vitro susceptibility testing of fungi: methods and correlation with in vivo efficacy
15:00–15:30 S. J. Howard (Manchester, United Kingdom)
- O016 Azole resistance in aspergilla: the Manchester experience
15:30–15:45 J. W.M. van der Linden
O017 Direct detection of Azole resistance in tissue in a patient with Central Nervous System (CNS) aspergillosis
15:45–16:00 E. Snelders
O018 Correlation between mutations in the *Aspergillus fumigatus* cyp51 gene and their azole resistance profile
16:00–16:30 *Coffeeltea*

Room 4/5 General pathogenesis 1

Chairman: P. W. M. Hermans

- 14:30–14:45 P. J. Burghout
O019 Genome-wide identification of genes contributing to pneumococcal meningitis
14:45–15:00 S. R. Konstantinov
O020 Functional genomic analysis of *Coxiella burnetii* identifies novel virulence factors
15:00–15:15 M. van Gent
O021 Bordetella strains with a novel allele for the pertussis toxin promoter are associated with pertussis resurgence
15:15–15:30 A. M. van der Sar
O022 Using zebrafish to understand mycobacterial infections: identification and characterization of a bacterial secretion mutant with highly increased virulence
15:30–15:45 A. Paauw
O023 The siderophore yersiniabactin produced by the High Pathogenicity Island of Enterobacteriaceae reduces the oxidative stress response of polymorphonuclear leukocytes
15:45–16:00 H. J. Bootsma

- O024 Phenotypic and genomic characterization of pneumococcus like streptococci isolated from HIV-seropositive patients
16:00–16:30 *Coffeeltea*

Room 6/7 Small RNA in microorganisms

Chairman: J. van der Oost

- 14:30–15:00 *G. Wagner (Uppsala, Sweden)*
O025 Small regulatory RNAs in bacteria
15:00–15:15 *M. Lundgren*
O026 Unraveling the CRISPR-based immune system of prokaryotes
15:15–15:30 *J. de Jong*
O027 RNAi-based silencing in Fungi
15:30–15:45 *Y. Pannekoek*
O028 Investigation of the interaction between the small RNA NrrF of *Neisseria meningitidis* with its targets *sdhC* and *petA* by means of site directed mutagenesis
15:45–16:00 *R. A. G. Huis in 't Veld*
O029 Identification of sRNAs involved in the RpoE and Fur regulon of *Neisseria meningitidis*
16:00–16:30 *Coffeeltea*

Room 8/9 Current aspects in molecular typing

Chairman: P. H. M. Savelkoul

- 14:30–15:00 *D. M. Aanensen (London, United Kingdom)*
O030 Novel bioinformatics for analysis of sequence based typing results such as MLST
15:00–15:15 *H. Vennema*
O031 Influenzae typing
15:15–15:30 *D. C. Melles*
O032 Population genetics of *Staphylococcus aureus*
15:30–15:45 *K. Kremer*
O033 The use of 24-locus variable number of tandem repeat typing to study the epidemiology of tuberculosis
15:45–16:00 *M. E. M. Kraakman*
O034 Genetic diversity of nosocomial *Klebsiella pneumoniae* isolates from the Leiden University Medical Center
16:00–16:30 *Coffeeltea*

Room Athene Proteomics: spectrometric identification of micro-organisms

Chairman: P. H. M. Savelkoul

- 16:30–17:00 *G. Schwarz (Bremen, Germany)*
O035 Principles of mass-spectrometry and new developments of Maldi-tof
17:00–17:15 *S. Q. van Veen*
O036 Identification of bacteria and yeast by matrix-assisted laser ionization/desorption time-of-flight mass spectrometry (MALDI-TOF MS) in routine laboratory setting
17:15–17:30 *B. L. M. van Baar*
O037 MALDI TOF MS of aerosolized bacteria, directly from air: method and perspectives
17:30–17:45 *K. Maquelin*
O038 Epidemiological typing; the light and easy way
17:45–18:00 General discussion
18:00–18:30 *Drinks*

Room Sydney Prevalence of intra and extra-mural antimicrobial resistance in The Netherlands

Chairman: E. Stobberingh

- 16:30–17:00 *J. A. A. Hoogkamp-Korstanje*
O039 Resistance development in the Netherlands: 1996-2007
17:00–17:15 *D. Mevius*
O040 Resistance surveillance in animals
17:15–17:30 *G. Oudhuis*
O041 Prevalence of antibiotic resistance in ICU's in the Netherlands
17:30–17:45 *J. W. T. Cohen Stuart*
O042 High prevalence of Extended Spectrum Beta-Lactamase (ESBL) production in *Enterobacter spp.* bloodculture isolates in The Netherlands
17:45–18:00 *B. A. G. L. van Cleef*
O043 Acquisition and persistence of Methicillin-resistant *Staphylococcus aureus* Clonal Complex 398 during occupational exposure
18:00–18:30 *Drinks*

Room 3 Molecular biology of pathogenic yeasts

Chairmen: H. de Cock & H. Wösten

- 16:30–17:00 *B. Distel*
O044 Carnitine-dependent transport of acetyl units in central carbon metabolism in *Candida albicans*
- 17:00–17:15 *F. M. Klis*
O045 An in vitro model for mucosal infections of *Candida albicans* reveals the dynamics of its cell wall proteome
- 17:15–17:30 *H. de Cock*
O046 The *Cryptococcus neoformans* strains CAP10 and CAP59, affected in GXM synthesis, differentially activate human dendritic cells
- 17:30–18:00 *A. Casadevall (New York, USA)*
O047 *Cryptococcus neoformans* intracellular replication and exocytosis
- 18:00–18:30 *Drinks*

Room 4/5 SKMM: Kwaliteit van standaarden en eenheden

Voorzitter: G.J.J. van Doornum

- 16:30–16:45 *A. Vossen*
O048 Standaarden in de serologie
- 16:45–17:00 *A. M. van Loon*
O049 Kwantitatieve respiratoire virusdetectie m.b.v. nucleïnezuurtechnieken
- 17:00–17:15 *W. H. F. Goessens*
O050 Kwaliteit van afkapwaarden bij antibioticum resistentiebepalingen
- 17:15–17:30 *H. G. M. Niesters*
O051 Monitoring of blood born viruses, in particular hepatitis B and hepatitis C virus
- 17:30–17:45 *W. J. G. Melchers*
O052 Kwaliteit en betekenis van kwantitatieve HPV bepalingen
- 17:45–18:00 *G. J. J. van Doornum*
Vergadering SKMM
- 18:00–18:30 *Drinks*

Room 6/7 SKML: Legionella: waar zijn we mee bezig?

Chairman: P. Petit

- 16:30–16:45 *B. M. W. Diederens*
O054 Legionellose: het diagnostiek palet

- 16:45–17:00 *J. W. den Boer*
O055 Legionella: Epidemiologie en public health maatregelen
- 17:00–17:15 *E. Ijzerman*
O056 *Legionella pneumophila*: genotypische verschillen tussen patiënten- en omgevingsstammen
- 17:15–17:30 *D. van der Kooij*
O057 Wat weten we over groei van Legionella in water?
- 17:30–17:45 *B. M. W. Diederens*
O058 Evaluation of the Thermo Fisher Scientific (Oxoid) Xpect™ Legionella test for detection of Legionella pneumophila antigen in urine samples
- 17:45–18:00 Discussie
- 18:00–18:30 *Drinks*

Room 8/9 Gut commensals: the good and the bad

Chairmen: R. Willems & J. Kok

- 16:30–17:00 *D. van Sinderen (Cork, Ireland)*
O060 Getting better with bifidobacteria: the genomics approach
- 17:00–17:15 *W. van Schaik*
O061 Unraveling the secrets of hospital-acquired *Enterococcus faecium* through genomics
- 17:15–17:30 *J. Corver*
O062 Virulence factors of *Clostridium difficile*
- 17:30–17:45 *C. J. M. Koning*
O063 The composition of the dominant faecal microbiota in COPD patients receiving multispecies probiotics during and after antibiotic intake
- 17:45–18:00 *A. P. A. Hendrickx*
O064 Differential PiliA Pili expression among a hospital-acquired and a non-hospital acquired *Enterococcus faecium* isolate

Exhibition

- 18:00–18:30 *Drinks* (sponsored by Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology)

Restaurant Conference dinner

- 18:30–20:30

Room Sydney Poster session & drinks (sponsored by Yakult)

20:30–22:00

20:30–21:15 Presentations odd poster numbers

21:15–22:00 Presentations even poster numbers

22:00 Presentation Yakult Poster Prize

Room Sydney

As of 22:15 Dance party sponsored by Becton Dickinson

WEDNESDAY 22 APRIL, 2009

Room Athene Guidelines for diagnosis and treatment of *Clostridium difficile* infection (CDI)

Chairman: E. J. Kuijper

09:00–09:30 M. Wilcox (Leeds, United Kingdom)
O070 Guidelines for diagnosis and treatment of CDI in the UK

09:30–09:45 J. Keller
O071 Application of feces transplantation for treatment of relapsing CDI

09:45–10:00 J. van Dissel
O072 Non-antibiotic treatment of CDI

10:00–10:15 D. Bakker
O073 Optimization and application of a Multi Locus Variable tandem repeat Analysis for *Clostridium difficile* Ribotype 078

10:15–10:30 A. Goorhuis
O074 A case control study during an outbreak of *Clostridium difficile* infections by PCR ribotypes 027 and 017 occurring simultaneously in one hospital in The Netherlands

10:30–11:00 Coffeeltea

Room Sydney General pathogenesis 2

Chairman: B. Zaat

09:00–09:15 B. Quintero Moreno
O075 Occurrence of transparent phenotype and pilus type 1 among *Streptococcus pneumoniae* strains colonizing healthy children in Venezuela

09:15–09:30 P. H. S. Kwakman
O076 Identification of essential structural elements for microbicidal activity of thrombicidin-1 and design of TC-1 variants with enhanced activity

09:30–09:45 L. E. Cron
O077 Contribution of DHH Subfamily 1 Proteins to pneumococcal virulence

09:45–10:00 I. Jongorius
O078 Binding of Ecb to C3d results in conformation changes and convertase impairment

10:00–10:15 G. A. M. Berbers
O079 Serological surveillance to pertussis vaccines in the NIP from 2004 till 2008. Switch from whole cell to acellular vaccine in children of 1 year

10:15–10:30 M. A. Daleke
O080 ESX-5 dependent secretion and proteolytic processing of the PE protein LipY in *Mycobacterium marinum*

10:30–11:00 Coffeeltea

Room 3 Functional fungi for foods

Chairman: M. J. R. Nout

09:00–09:30 J. Schnürer (Uppsala, Sweden)
O081 Yeasts for biocontrol

09:30–10:00 P. J. Roubos
O082 Health aspects of tempe

10:00–10:30 L. J. L. D. van Griensven
O083 Medicinal Mushrooms: fake or reality?

10:30–11:00 Coffeeltea

Room 4/5 Viral pathogenesis

Chairman: P. Rottier

09:00–09:30 D. van Baarle
O084 Immune control of viral reactivations: predicting outcome after allogeneic stem cell transplantation in children and adults

09:30–09:45 H. Schuitemaker
O085 Role of neutralizing antibodies in the clinical course of HIV-1 infection

09:45–10:00 R. L. de Swart
O086 A crucial role for CD150 + lymphocytes and dendritic cells in the pathogenesis of measles

10:00–10:15 M. Cornelissen
O087 HIV-1 co/super-infections, the impact on pathogenesis

- 10:15–10:30 *J. Siebenga*
O088 Norovirus strain evolution, impact on pathogenesis
- 10:30–11:00 *Coffeeltea*

Room 6/7 Bacterial motility and chemotaxis; mechanisms and roles in survival and pathogenesis

Chairman: *T. Abee*

- 09:00–09:30 *E. Ghelardi (Pisa, Italy)*
O089 Bacterial swarming
- 09:30–10:00 *C. Hill (Cork, Ireland)*
O090 *Listeria* motility and virulence
- 10:00–10:15 *K. J. Hellingwerf*
O091 Tactic responses in bacteria to blue light
- 10:15–10:30 *S. van der Veen*
O092 Role of *Listeria monocytogenes* motility regulator MogR in stress response
- 10:30–11:00 *Coffeeltea*

Room 8/9 The microbial genomics era: from prediction to function 1

Chairmen: *H. Bootsma & A. van Vliet*

- 09:00–09:45 *C. Buchrieser (Paris, France)*
O093 Comparative and functional genomics uncovers molecular mimicry as the main virulence strategy of *Legionella pneumophila*
- 09:45–10:00 *M. J. Bart*
O094 Genomic analysis of a highly successful *Bordetella pertussis* lineage
- 10:00–10:15 *M. J. Schijffelen*
O095 Whole genome analysis shows substantial diversification between pig-associated Methicillin-Resistant *Staphylococcus aureus* ST398 isolates
- 10:15–10:30 *A. Paauw*
O096 A recombination hotspot with several genomic islands and a high number of putative pili operons in the chromosome of an epidemic *Enterobacter hormaechei*
- 10:30–11:00 *Coffeeltea*

Room Athene Diagnostiek parasitaire infectie: moleculaire diagnostiek

Voorzitter: *L. M. Kortbeek*

- 11:00–11:15 *P. Beckers*
O097 Ervaring in de praktijk met moleculaire diagnostiek PCP
- 11:15–11:30 *L. Bruijnesteijn*
O098 *Dientamoeba fragilis* PCR: ervaringen uit de praktijk
- 11:30–11:45 *T. Mank*
O099 Moleculaire diagnostiek van Giardiasis gezien vanuit het kwaliteitshandboek
- 11:45–12:00 *G. Noordhoek*
O100 Multiplex PCR voor Gastro-enteritis patiënten: ervaringen uit de praktijk
- 12:00–12:15 *J. J. Verweij*
O101 Molecular diagnosis of *Strongyloides stercoralis* infection in faecal samples of patients living in a nonendemic region
- 12:15–12:30 *L. van Dommelen*
O102 First case of *Echinococcus multilocularis* acquired in The Netherlands
- 12:30–14:00 *Lunch*

Room Sydney General pathogenesis 3

Chairman: *C. Vink*

- 11:00–11:15 *C. T. H. P. Hopman*
O103 Stress response related sigma factors in *Neisseria meningitidis*
- 11:15–11:30 *G. Buist*
O104 The staphylococcal cell wall proteome
- 11:30–11:45 *J. Bestebroer*
O105 Modulation of GPCR signaling by pathogens
- 11:45–12:00 *K. Stol*
O106 Development of a murine non-invasive infection model to study *Streptococcus pneumoniae* acute otitis media
- 12:00–12:15 *E. Heikens*
O107 Enterococcal surface protein Esp aggravates *Enterococcus faecium* induced urinary tract infection in mice
- 12:15–12:30 *J. van Ingen*

O108 Clinical relevance of nontuberculous mycobacteria isolated from pulmonary samples in The Netherlands

12:30–14:00 *Lunch*

Room 3 Sectie onderwijs: De microbiologisch analist: van opleiding tot beroep

Chairman: A. J. W. van Alphen

11:00–11:15 *M. M. Immink*

O109 De specialisatie medische microbiologie van de Hogeschool Utrecht

11:15–11:30 *C. E. van Goor*

O110 De specialisatie Microbiologie en de master Moleculaire Diagnostiek van de Hogeschool Leiden

11:30–11:45 *J. Bruin*

O111 Automatisering en mechanisering in het microbiologisch diagnostisch laboratorium van de toekomst

11:45–12:00 *D. van den Berg*

O112 De rol van de analist in testlaboratoria

12:00–12:30 *O. l. v. G. Mattheé*

Discussie over de opleiding tot analist in de toekomst

12:30–14:00 *Lunch*

Room 4/5 NWKV: Eradication of Poliovirus and measles virus: is it feasible?

Chairman: J. M. D. Galama

11:00–11:30 *R. Martin (Copenhagen, Denmark)*

O114 Measles Goodbye?

11:30–12:00 *S. Gorbalenya*

O115 Evidence for emergence of poliovirus from C-cluster Coxsackie A viruses

12:00–12:15 *R. D. de Vries*

O116 Attenuated measles virus delivered by aerosol inhalation replicates in both the upper and lower respiratory tract of non-human primates

12:15–12:30 *S. M. G. van der Sanden*

O117 Shedding of vaccine viruses with increased antigenic and genetic divergence after vaccination of newborns with Monovalent Type 1 Oral Poliovirus Vaccine

12:30–14:00 *Lunch*

Room 6/7 Pseudomonas: Fundamentals and applications of an X-tremely versatile cellfactory

Chairman: H. J. Ruijsenaars

11:00–11:30 *J. L. Ramos (Granada, Spain)*

O118 Molecular mechanism of solvent tolerance

11:30–11:45 *N. Wierckx*

O119 Construction and analysis of a phenol producing strain of the solvent-tolerant *Pseudomonas putida* S12

11:45–12:00 *M. Llamas*

O120 Keeping in touch, cell surface signaling in *Pseudomonas aeruginosa*

12:00–12:15 *B. W. Bardoel*

O122 *Pseudomonas aeruginosa* degrades excess flagellin to avoid immune activation in both mammals and plants

12:15–12:30 Discussion

12:30–14:00 *Lunch*

Room 8/9 The microbial genomics era: from prediction to function 2

Chairmen: J. J. E. Bijlsma & A. van Vliet

11:00–11:45 *D. J. Kelly (Sheffield, United Kingdom)*

O123 From genome to in vivo physiology: testing predictions about the metabolism of *Campylobacter jejuni*

11:45–12:00 *W. J. Maalcke*

O124 Hydrazine metabolism by anammox bacteria

12:00–12:15 *J. Stoof*

O125 Presence and differential nickel-dependent expression of multiple urease clusters in pathogenic and non-pathogenic bacteria

12:15–12:30 *E. J. Gaasbeek*

O126 Identification of DNases involved in inhibition of natural transformation of *Campylobacter jejuni*

12:30–14:00 *Lunch*

Room 3

12:45–14:00 **BBC-MMO vergadering**

Room Sydney

12:45–14:00 **Business meeting NVvM**

Room Athene Lunch symposium
GlaxoSmithKline

- 13:00–13:30 *G. Frijstein*
 Preventie van beroepsgebonden
 infectieziekten: kinkhoest
- 13:30–14:00 *A. Voss*
 Hepatitis A: risico voor patiënt en
 medewerker

Room Athene Dealing with orthopedic infections

Chairman: J. de Vries

- 14:00–14:30 *H. J. Busscher*
 O127 The infected implant
- 14:30–14:45 *P. W. L. Thimister*
 O128 Nuclear medicine in imaging
 orthopaedic infections
- 14:45–15:00 *G. H. I. M. Walenkamp*
 O129 Pharmacokinetics of antibiotic release
 from some biomaterials: beads, c
 collagen and spacers
- 15:00–15:15 *S. F. de Boer*
 O130 Outcome of prosthetic joint infections
 after combined rifampicin therapy
- 15:15–15:30 *C. S. M. Hoenders*
 O131 Detection of bacteria and bacterial
 DNA in interface tissues from
 “aseptically” loosened hip prostheses
- 15:30–16:00 *Coffeeltea*

Room Sydney General clinical microbiology

Chairman: B. J. M. Vlamincx

- 14:00–14:15 *M. J. Vanspauwen*
 O132 Can the Clara cell protein
 concentration in bronchoalveolar
 lavage fluid be used as a predictor of
 ventilator-associated pneumonia?
- 14:15–14:30 *M. A. Leverstein—van Hall*
 O133 A novel DNA micro-array system for
 rapid detection of TEM, SHV and
 CTX-M extended-spectrum beta-
 lactamases (ESBLs) in
Enterobacteriaceae
- 14:30–14:45 *E. van Duijkeren*
 O134 Methicillin resistant *Staphylococcus*
aureus at an equine clinic
- 14:45–15:00 *L. M. Kortbeek*

- O135 Congenital Toxoplasmosis in The
 Netherlands: an underestimated
 disease?
- 15:00–15:15 *R. van Mansfeld*
 O136 Age dependency and *Pseudomonas*
aeruginosa genotype prevalence in
 Dutch cystic fibrosis patients
- 15:15–15:30 *K. Stol*
 O137 Limited role of *Streptococcus*
pneumoniae infections in children
 with recurrent acute otitis media and
 chronic otitis media with effusion
- 15:30–16:00 *Coffeeltea*

**Room 3 Internet and computer programs for
 diagnosis of infectious (tropical) diseases**

Chairman: C. H. E. Boel

- 14:00–14:15 *S. Thijssen*
 O138 ISIS-web
- 14:15–14:45 *J. van den Ende (Antwerp, Belgium)*
 O139 Kabisa
- 14:45–15:00 *B. Mulder*
 O140 Gideon
- 15:00–15:15 *R. Schouten*
 O141 www.Fevertravel.ch
- 15:15–15:30 Discussie
- 15:30–16:00 *Coffeeltea*

Room 4/5 Virology

Chairman: A. C. T. M. Vossen

- 14:00–14:15 *R. S. van Binnendijk*
 O143 Measles outbreak in an
 anthroposophic community in The
 Netherlands (2008): pathways of virus
 transmission through epidemiological
 and molecular investigation
- 14:15–14:30 *M. T. van der Beek*
 O144 Treatment failure and antiviral
 resistance in cytomegalovirus
 infections in stem cell transplant
 recipients
- 14:30–14:45 *H. K. Brand*
 O145 Transcriptome analyses of blood
 immune cells and nasopharyngeal
 cells in children with RSV lower
 respiratory tract infections reveal
 distinct gene signatures correlating
 with disease severity

- 14:45–15:00 *M. C. W. Feltkamp*
O146 Persistent betapapillomavirus infections are associated with precursor lesions of squamous-cell carcinoma of the skin
- 15:00–15:15 *A. K. Kroneman*
O147 An automated norovirus typing tool based on BLAST and phylogenetic analyses provides accurate and robust typing for viral sequences of different lengths
- 15:15–15:30 *A. C. van de Pol*
O148 Prevalence of human bocavirus and KI/WU polyomaviruses in children with and without lower respiratory tract infection at the pediatric intensive care unit
- 15:30–16:00 *Coffeeltea*

Room 6/7 Progress in microbiology 1*Chairman: S. Brul*

- 14:00–14:15 *D. Bald*
O149 Respiratory ATP synthesis: an Achilles' heel in mycobacteria?
- 14:15–14:30 *P. J. Orij*
O150 Genome-wide analysis of pH homeostasis in yeast using a pH sensitive GFP
- 14:30–14:45 *M. Ceragioli*
O151 Comparative transcription analysis of *Bacillus cereus* in response to benzalkonium chloride, peracetic acid, and sodium hypochlorite treatment
- 14:45–15:00 *L. M. Hornstra*
O152 Mechanisms of heterogeneity in outgrowth and stress resistance of *Bacillus* spore populations
- 15:00–15:15 *M. Mols*
O153 Comparative transcriptome and phenotype analysis of acid-stressed *Bacillus cereus* strains ATCC 14579 and ATCC 10987 reveals a major oxidative response and inactivation associated radical formation

- 15:15–15:30 *H. M. W. den Besten*
O154 Dealing with salinity: Phenotype and transcriptome analyses of salt-stressed *Bacillus cereus*
- 15:30–16:00 *Coffeeltea*

Room 8/9 Progress in microbiology 2*Chairman: M. H. Zwietering*

- 14:00–14:15 *F. A. Luesken*
O155 Anaerobic methane-oxidizing bacteria: surprising players in the methane and nitrogen cycle
- 14:15–14:30 *L. van Niftrik*
O156 Combined structural and chemical analysis of unique anammox bacteria that contain a prokaryotic organelle
- 14:30–14:45 *A. F. Khadem*
O157 Methanotrophy under extreme conditions: Biochemistry and physiology of *Methylacidiphilum fumarolicum* SolV
- 14:45–15:00 *S. C. M. Haaijer*
O158 A new *Nitrospira* sp nitrite oxidizer enriched from the North Sea
- 15:00–15:15 *S. M. C. A. de Walick*
O159 The core proteome of the *Schistosoma mansoni* eggshell
- 15:15–15:30 *M. G. Bruins*
O160 Device-independent, real-time identification of bacterial pathogens with a metaloxide-based olfactory sensor
- 15:30–16:00 *Coffeeltea*

Room Athene

- 16:00–18:00 **Business meeting NVMM**