

Announcement
Preliminary scientific programme

IX International Congress of Virology

Glasgow, Scotland, 8–13 August 1993

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With the application of new technologies, our understanding of the mechanisms of virus infections has developed significantly over the last three years. These technologies have also successfully facilitated the introduction of sensitive and specific diagnostic procedures, the development of better vaccines and routes to chemotherapy, and have expanded our knowledge of the complexities of the interactions between viruses and the infected host. The remarkable pace of advances in many different areas of virology makes it difficult to

keep in step with the moving edge of knowledge. It is for this reason that the triennial International Congress of Virology plays a significant role in allowing virologists to keep abreast of advances not only in their own immediate areas of concern but at the same time to interact with their specialist colleagues from all over the world.

In this IXth International Congress of Virology we have constructed a programme which brings together a galaxy of distinguished scientists to present their latest data and to review progress over a wide spectrum of virological topics.

Scotland and the City of Glasgow invite you to this Congress and offer a warm and friendly welcome to what promises to be a stimulating and instructive experience.

Vivien Mautner, Jeff Almond, Willie Russell
for the National Organising Committee

The IXth International Congress of Virology will be held in the Scottish Exhibition Centre (SECC) in Glasgow on 8th–13th August 1993. The SECC is located on the River Clyde, minutes from the city centre, and has five self-contained halls grouped around a large central concourse, which includes shops, a bank, a travel bureau and other facilities. Adjacent to the SECC is the Moat House International Hotel, with additional conference facilities.

The Scientific Programme will consist of morning plenary sessions with invited speakers addressing major topics across a broad spectrum of virological interests. In the afternoons there will be workshops with contributed oral presentations, selected by the invited co-chairs from the submitted abstracts. Throughout the week there will be poster sessions linked to the Workshops, and a Commercial Exhibition. A novel departure is the One Day Course on the day preceding the Congress; this is conceived as a training session for virologists wanting to learn some of the basics in an area outside their own expertise – we hope it will appeal to students and more experienced scientists alike.

The events organised in the evening social calendar of the Congress are designed to provide a lasting impression of the cultural and social life of the West of Scotland. A wide range of specially planned sightseeing tours in and around Glasgow is on offer to help you make the most of your stay. We hope you will be able to enjoy the many attractions, both urban and rural, that make Glasgow the ideal base for exploring Scotland. The accompanying persons programme features a 'welcome' talk, on the background to the Scottish heritage, and a tour to introduce the splendours of the city. For the first time, the Congress is offering a Creche facility during the hours of the scientific programme, to be provided by Kidcare Ltd. who are expert in high quality childcare.

We are pleased to have the services of CEP Consultants Ltd as Registration Secretariat and Exhibition Organisers, and of Expotel Executive Travel to handle hotel bookings and the daytime tours programme.

A one day seminar programme is to be offered on Sunday August 8th from 10.00 hr until 17.00 hr. The aim is to provide for some an introduction, and for others an update of areas of virology that are current and outside the participant's particular field of expertise. They are directed at people with some knowledge of virology and will therefore not be too basic. In essence, the aim is to provide background for the Congress plenary sessions and workshops.

Each seminar will consist of a 45 minute lecture, followed by 30 minutes of interaction between the speaker and audience. Eight seminars will be offered, with two running in parallel so that four in all can be attended by each delegate. Each speaker has been chosen for their expertise in the subject and ability to relate to a general audience; most are chairing workshops in the Congress. The registration fee of £40 includes lunch, tea and coffee and a reference list for each seminar. Registration is open to all registered participants in the Congress.

Scientific Programme

Workshop topics

General

- 01 Adenoviruses
- 02 Alpha- and rubiriviruses
- 03 Arenaviruses
- 04 Arteriviruses
- 05 Baculoviruses
- 06 Bunyaviruses
- 07 Caliciviruses (incl. hepatitis E)
- 08 Coronaviruses
- 09 Cytomegalo- and Epstein-Barr viruses
- 10 Flaviviruses (incl. pesti- and hepatitis C)
- 11 Hepatitis B and D viruses
- 12 Herpesviruses – genome structure and gene expression
- 13 Herpesvirus proteins
- 14 HIV-molecular biology
- 15 Orthomyxoviruses
- 16 Papillomaviruses
- 17 Paramyxoviruses
- 18 Parvoviruses
- 19 Picornaviruses
- 20 Poxviruses
- 21 Reoviruses (incl. rota- and orbiviruses)
- 22 Retroviruses
- 23 Rhabdoviruses
- 24 New and emerging viruses

Control and immunity

- 25 AIDS – prevention and control
- 26 Antiviral chemotherapy
- 27 Epidemiological surveillance
- 28 Molecular epidemiology
- 29 Mechanisms of virus neutralization
- 30 Trends in vaccine development
- 31 Cellular immunity to viral infections

Diagnostic

- 32 Diagnostic virology – detection of viral nucleic acid by PCR
- 33 Diagnostic virology – detection of viral antigens
- 34 Recombinant proteins and synthetic peptides in diagnosis

Molecular

- 35 Cell transformation by DNA viruses
- 36 Intracellular processing of viral glycoproteins
- 37 Post-translational modifications of viral proteins
- 38 Viral expression vectors
- 39 Genetic engineering of RNA viruses
- 40 Virus structure and assembly
- 41 Virus receptors, entry and fusion

- 42 Viral proteases
- 43 Translational control
- 44 Replication and transcription of RNA viruses
- 45 Transcription of DNA viruses
- 46 RNA recombination
- 47 DNA replication

Pathogenesis

- 48 AIDS epidemiology and pathogenesis
- 49 Immunopathogenesis
- 50 Slow and persistent virus infections
- 51 Molecular basis for virulence
- 52 Viral haemorrhagic fevers
- 53 Respiratory infections
- 54 Viral gastroenteritis
- 55 Viral infections of the CNS
- 56 Herpesvirus infections
- 57 Interferons, lymphokines and virokines in virus infections
- 58 Viral latency
- 59 Spongiform encephalopathies

Plant virology

- 60 Plant virus replication
- 61 RNA plant virus gene expression
- 62 DNA plant virus gene expression
- 63 Virus movement in plants
- 64 Molecular basis of symptom expression in plants
- 65 Virus resistance mechanisms in plants
- 66 Mechanisms of vector transmission of plant viruses
- 67 Interactions and satellitism in plant viruses
- 68 Plant virus variation and mini-evolution
- 69 Viroids
- 70 Advances in techniques in plant virology

Phage

- 71 Phage structure and assembly
- 72 Phage evolution, taxonomy, new phages
- 73 Lysogeny, carrier state, phage conversion
- 74 Phage-host interactions
- 75 Phage replication and gene expression

Miscellaneous

- 76 Taxonomy of viruses and data bases
- 77 Viral diseases in tropical countries: epidemiology, diagnosis, and control
- 78 Viruses of fungi and simple eukaryotes
- 79 Release of genetically modified viruses

Monday 9th August

Opening ceremony

Keynote lecture:

Michael H. Merson (WHO Geneva) *The global impact of AIDS*

10.30–12.30 *Plenary session 1*

Virus structure and assembly. Chair: S. C. Harrison (U.S.A.), J. H. Subak-Sharpe (U.K.)

Stephen C. Harrison (U.S.A.) *Three-dimensional structure of viruses*

Mary K. Estes (U.S.A.) *Rotavirus structure and assembly*

John K. Rose (U.S.A.) *Formation of virus spike protein complexes*

13.30–15.30 *Workshops*

- 1 Adenoviruses. Chair: P. Boulanger (France), G. Wadell (Sweden)
- 2 Alpha- and rubiriviruses. Chair: T. K. Frey (U.S.A.), L. Kääriäinen (Finland)
- 14 HIV – molecular biology. Chair: W. A. Haseltine (U.S.A.), S. Wain-Hobson (France)
- 15 Orthomyxoviruses. Chair: J. Ortin (Spain), R. Rott (Germany)
- 55 Viral infections of the CNS. Chair: M. A. Billeter (Switzerland), K. Kristenson (Sweden)
- 57 Interferons, lymphokines and virokines in virus infections. Chair: C. H. Evans (U.S.A.), G. E. Griffin (U.K.)
- 60 Plant virus replication. Chair: K. W. Buck (U.K.), T. Hall (U.S.A.)
- 71 Phage structure and assembly. Chair: D. H. Bamford (Finland), R. W. Hendrix (U.S.A.)

16.00–18.00 *Workshops*

- 7 Caliciviruses (incl. hepatitis E). Chair: D. Bradley (U.S.A.), D. Cubitt (U.K.)
- 9 Cytomegalo- and Epstein-Barr viruses. Chair: B. E. Griffin (U.K.), U. H. Koszinowski (Germany)
- 17 Paramyxoviruses. Chair: P. L. Collins (U.S.A.), A. D. M. E. Osterhaus (Netherlands)
- 38 Viral expression vectors. Chair: D. H. L. Bishop (U.K.), H. Garoff (Sweden)
- 40 Virus structure and assembly. Chair: E. Hunter (U.S.A.), D. Stuart (U.K.)
- 41 Virus receptors, entry and fusion. Chair: J. J. Skehel (U.K.), J. M. White (U.S.A.)
- 51 Molecular basis for virulence. Chair: J. W. Almond (U.K.), Y. Nagai (Japan)
- 61 RNA plant virus gene expression. Chair: J. F. Bol (Netherlands), W. Dougherty (U.S.A.)

Tuesday 10th August

09.00–12.30 *Plenary session 2*

Expression of viral genomes. Chair: B. D. Harrison (U.K.), S. Schlesinger (U.S.A.)

Phillip A. Sharp (U.S.A.) *Regulation of gene expression*

Peter Palese (U.S.A.) *Genetic manipulations of negative-strand viruses*

John H. Subak-Sharpe (U.K.) *Herpesvirus gene expression*

Flossie Wong-Staal (U.S.A.) *Lentivirus gene expression*

The Richard Francki Lecture:

Rob Goldbach (Netherlands) *Expression of the tospoviral genome*

13.30–15.30 *Workshops*

- 3 Arenaviruses. Chair: M. J. Buchmeier (U.S.A.), J. C. S. Clegg (U.K.)
- 12 Herpesviruses – genome structure and gene expression. Chair: D. J. McGeoch (U.K.), A. Sergeant (France)
- 19 Picornaviruses. Chair: P. D. Minor (U.K.), R. R. Rueckert (U.S.A.)
- 21 Reoviruses (incl. rota- and orbiviruses). Chair: A. R. Bellamy (New Zealand), U. Desselberger (U.K.)
- 29 Mechanisms of virus neutralization. Chair: N. J. Dimmock (U.K.), N. Nathanson (U.S.A.)
- 59 Spongiform encephalopathies. Chair: D. C. Gajdusek (U.S.A.), J. Hope (U.K.)
- 62 DNA plant virus gene expression. Chair: J. W. Davies (U.K.), T. Hohn (Switzerland)
- 72 Phage evolution, taxonomy, new phages. Chair: H.-W. Ackermann (Canada), J. Schneider (Germany)

16.00–18.00 *Workshops*

- 4 Arteriviruses. Chair: P. W. Plagemann (U.S.A.), W. J. M. Spaan (Netherlands)
- 11 Hepatitis B and D viruses. Chair: H. Schaller (Germany), J. M. Taylor (U.S.A.)
- 16 Papillomaviruses. Chair: M. S. Campo (U.K.), U. G. Pettersson (Sweden)
- 27 Epidemiological surveillance. Chair: D. J. Gubler (U.S.A.), C. Hannoun (France)
- 34 Recombinant proteins and synthetic peptides in diagnosis. Chair: J. M. Best (U.K.), A. Vaheri (Finland)
- 36 Intracellular processing of viral glycoproteins. Chair: R. A. Lamb (U.S.A.), P. J. M. Rottier (Netherlands)
- 44 Replication and transcription of RNA viruses. Chair: D. Kolakofsky (Switzerland), J. H. Strauss (U.S.A.)
- 63 Virus movement in plants. Chair: J. G. Atabekov (Russia), T. Godefroy-Colburn (France)

Wednesday 11th August

9.00–12.30 *Plenary session 3*

Molecular basis of disease. Chair: P. A. Sharp (U.S.A.), C. Weissmann (Switzerland)

Harald zur Hausen (Germany) *Viruses and cancer*

Bernard N. Fields (U.S.A.) *Molecular basis of virus pathogenesis*

David C. Baulcombe (U.K.) *Plant resistance against viruses*

Michael B. A. Oldstone (U.S.A.) *Transgenic mice as models for studying virus pathogenesis*

Stanley B. Prusiner (U.S.A.) *Molecular biology of prion diseases*

13.30–15.30 *Workshops*

8 Coronaviruses. Chair: K. V. Holmes (U.S.A.), S. G. Siddell (Germany)

18 Parvoviruses. Chair: K. I. Berns (U.S.A.), J. R. Pattison (U.K.)

30 Trends in vaccine development. Chair: M. P. Girard (France), B. Moss (U.S.A.)

37 Post-translational modifications of viral proteins. Chair: H.-D. Klenk (Germany), M. J. Schlesinger (U.S.A.)

49 Immunopathogenesis. Chair: C. A. Mims (U.K.), T. Pang (Malaysia)

64 Molecular basis of symptom expression in plants. Chair: S. N. Covey (U.K.), M. Zaitlin (U.S.A.)

73 Lysogeny, carrier state, phage conversion. Chair: M. S. DuBow (Canada), R. Thomas (Belgium)

78 Viruses of fungi and simple eukaryotes. Chair: J. L. Patterson (U.S.A.), J. L. van Etten (U.S.A.)

16.00–18.00 *Workshops*

5 Baculoviruses. Chair: R. D. Possee (U.K.), M. D. Summers (U.S.A.)

10 Flaviviruses (incl. pesti- and hepatitis C). Chair: F. X. Heinz (Austria), R. H. Purcell (U.S.A.)

20 Poxviruses. Chair: G. McFadden (Canada), G. L. Smith (U.K.)

23 Rhabdoviruses. Chair: A. K. Banerjee (U.S.A.), A. Flamand (France)

33 Diagnostic virology – detection of viral antigens. Chair: C. R. Madeley (U.K.), C. G. Ray (U.S.A.)

54 Viral gastroenteritis. Chair: I. H. Holmes (Australia), J. S. Tam (Hong Kong)

58 Viral latency. Chair: S. M. Brown (U.K.), N. W. Fraser (U.S.A.)

65 Virus resistance mechanisms in plants. Chair: R. S. S. Fraser (U.K.), P. Tien (China)

Thursday 12th August

09.00–12.30 *Plenary session 2*

Virus-host interactions. Chair: D. Baltimore (U.S.A.), H. zur Hausen (Germany)

Robin A. Weiss (U.K.) *Viral receptors*

David Baltimore (U.S.A.) *Molecular mechanisms of HIV latency*

Chris M. Preston (U.K.) *Herpesvirus latency and persistence*

Andrew McMichael (U.K.) *Antigen processing and presentation*

Charles Weissmann (Switzerland) *Action of interferons*

13.30–15.30 *Workshops*

13 Herpesvirus proteins. Chair: D. C. Johnson (Canada), H. S. Marsden (U.K.)

22 Retroviruses. Chair: J. M. Coffin (U.S.A.), N. M. Teich (U.K.)

31 Cellular immunity to viral infections. Chair: T. J. Braciale (U.S.A.), S. Buus (Denmark)

50 Slow and persistent virus infections. Chair: R. Ahmed (U.S.A.), V. ter Meulen (Germany)

66 Mechanisms of vector transmission of plant viruses. Chair: A. F. Murant (U.K.), T. Tamada (Japan)

69 Viroids. Chair: D. Riesner (Germany), R. H. Symons (Australia)

75 Phage replication and gene expression. Chair: J. Maniloff (U.S.A.), N. E. Murray (U.K.)

77 Viral diseases in tropical countries: epidemiology, diagnosis, and control. Chair: J. S. MacKenzie (Australia), P. Thongcharoen (Thailand)

16.00–18.00 *Workshops*

6 Bunyaviruses. Chair: R. M. Elliott (U.K.), C. S. Schmaljohn (U.S.A.)

25 AIDS – prevention and control. Chair: J. Curran (U.S.A.), E. Norrby (Sweden)

32 Diagnostic virology – detection of viral nucleic acid by PCR. Chair: K.-O. Habermehl (Germany), R. H. Yolken (U.S.A.)

35 Cell transformation by DNA viruses. Chair: P. M. Howley (U.S.A.)

42 Viral proteases. Chair: T. Skem (Austria), E. Wimmer (U.S.A.)

53 Respiratory infections. Chair: M. Grandien (Sweden), B. R. Murphy (U.S.A.)

67 Interactions and satellitism in plant viruses. Chair: R. M. Lister (U.S.A.), M. A. Mayo (U.K.)

79 Release of genetically modified viruses. Chair: R. Hull (U.K.), P.-P. Pastoret (Belgium)

18.00–19.00 *Roundtable*

Release of genetically modified viruses and of transgenic virus-resistant hosts: progress, problems and prospects. Chair: R. Hull (U.K.), P.-P. Pastoret (Belgium)

Friday 13th August

9.00–12.30 *Plenary session 5*

Impact of molecular biology on diagnostics and control. Chair: C. Y. Cheong (Singapore), P. D. Griffiths (U.K.)

Olen Kew (U.S.A.) *Molecular epidemiology of viruses*

Marjut Ranki (Finland) *Nucleic acids in diagnosis*

Marc H. V. van Regenmortel (France) *Synthetic peptides in clinical virology*

Richard C. Mulligan (U.S.A.) *Gene therapy and virus vectors*

Richard J. Whitley (U.S.A.) *Impact of antivirals on clinical virology*

13.30–15.30 *Workshops*

26 Antiviral chemotherapy. Chair: G. Darby (U.K.), E. de Clercq (Belgium)

28 Molecular epidemiology. Chair: Y. Becker (Israel), S. M. Lemon (U.S.A.)

39 Genetic engineering of RNA viruses. Chair: M. Krystal (U.S.A.), A. Nomoto (Japan)

45 Transcription of DNA viruses. Chair: G. Akusjärvi (Sweden), R. D. Everett (U.K.)

48 AIDS epidemiology and pathogenesis. Chair: B. Downing (Uganda), A. J. Leigh Brown (U.K.)

52 Viral haemorrhagic fevers. Chair: D. K. Lvov (Russia), R. Swanepoel (S. Africa)

68 Plant virus variation and mini-evolution. Chair: A. Gibbs (Australia), D. J. Robinson (U.K.)

74 Phage-host interactions. Chair: T. A. Bickle (Switzerland), A. W. Jarvis (New Zealand)

16.00–18.00 *Workshops*

24 New and emerging viruses. Chair: C. J. Peters (U.S.A.), O. Tomori (Nigeria)

43 Translational control. Chair: V. Agol (Russia), N. Sonenberg (U.S.A.)

46 RNA recombination. Chair: A. M. Q. King (U.K.), K. Kirkegaard (U.S.A.)

47 DNA replication. Chair: E. Fanning (Germany), N. D. Stow (U.K.)

56 Herpesvirus infections. Chair: B. Fleckenstein (Germany), R. Mori (Japan)

70 Advances in techniques in plant virology. Chair: R. Koenig (Germany), M. H. V. van Regenmortel (France)

76 Taxonomy of viruses and data bases. Chair: F. A. Murphy (U.S.A.), C. R. Pringle (U.K.)