

Sunday 2 September 2007

09.00 – 10.30 h **Opening Session *Fifty Years of Interferons*** Room Tokio

Bernhard Fleckenstein **Welcome Address**
Otto Haller **Fifty Years of Interferons**
Richard E. Randall **The interplay between viruses and the Interferon system**
Michael P. Manns **The treatment of Hepatitis C – the past, present and future
role of Interferon**
European Virology Award (EVA) Lecture:
Jean Lindenmann **Skeletons in the closets of interference research**

10.30 - 11.00 h COFFEE BREAK

11.00 – 13.00 h **Workshop 1 *Structure and Assembly*** Room Tokio

Chair: Franz X. Heinz, Rob Ruigrok
Keynote Lecture: Félix A. Rey:
11.00 - 11.30 h **Evolutionary and mechanistic insights from structural
studies of viral fusion proteins**

11.30 - 13.00 h Oral presentations:

The MCMV NEC interacts with the LBR complex at the inner nuclear membrane

* Mark Lötzerich (1), Zsolt Ruzsics (1), Frederic Lemnitzer (1), Ulrich H. Koszinowski (1)
(1) Max von Pettenkofer Institute, LMU, Munich, Germany

Assembly and budding of a hepatitis B virus is mediated by a novel type of intracellular vesicles

* Mouna Mhamdi (1), Anneke Funk (1), Heinz Hohenberg (1), Hans Will (1), Hüseyin Sirma (1)
(1) Heinrich Pette Institut, Hamburg, Germany

Characterization of a reactive groove in HIV-1 capsid protein defined by an in vitro assembly inhibitor

* Vanda Bartonova (1), Jana Sticht (1), Peter Sehr (2), Joe Lewis (2), Sebastien Igonet (3), Felix Rey (3), Hans-Georg Kraeusslich (1)
(1) University Heidelberg, Virology, Heidelberg, Germany; (2) EMBL, Chemical Biology Core Facility, Heidelberg, Germany; (3) Institute Pasteur, Structural Virology, Paris, France

EBOV VP40 homooligomerization is essential for the formation of virus-like particles

* T. Hoenen (1), F. Zielecki (2), U. Ströher (1), H. Feldmann (1), S. Becker (2)
(1) Public Health Agency of Canada, NML, Winnipeg, Canada; (2) RKI, Berlin, Germany

From structural proteomics of coronaviruses to antiviral drug discovery

* Rolf Hilgenfeld
University of Lübeck, Institute of Biochemistry, Lübeck, Germany

Structure-function relationships in viral proteinases

* Tim Skern (1), Carla Sousa (1), Christina Mayer (1), Eva Schmid (1), Luiza Deszcz (1), Ernst Kuechler (1), Regina Cencic (1), Nikolas Stefan (1)
(1) Max F. Perutz Labs, Vienna, Austria

Sunday 2 September 2007

11.00 – 13.00 h Workshop 2 *Plant Viruses*

Room Istanbul

Chair: Rob W. Goldbach, Thomas Hohn

Keynote Lecture: Rob W. Goldbach:

11.00 - 11.30 h **Novel insights in virus-plant interactions**

11.30 - 13.00 h Oral presentations:

The Silencing Suppressor P25 of Potato Virus X Interacts with Argonaute 1 Resulting in Degradation through Proteasome Pathway

* Ching-Hsiu Tsai (1), David Baulcombe (2), Meng-Shuen Chiou (1)

(1) National Chung Hsing University, Graduate Institute of Biotechnology, Taichung, TAIWAN; (2) John Innes Centre, The Sainsbury Laboratory, Norwich, United Kingdom

Abutilon mosaic virus as a VIGS and protein expression vector

* Björn Krenz (1), Christina Wege (1), Holger Jeske (1)

(1) Universität Stuttgart, Biolog. Institut, Abt. Pflanzenvirologie, Stuttgart, Germany

Characterisation of PKR: a Plant-Encoded, Double-Stranded RNA-Activated Protein Kinase

Elaine Chan (1), Michael Pearson (1), John Taylor (1), Dave Greenwood (2), Donald Roth (3), * Robin MacDiarmid (2)

(1) University of Auckland, School of Biological Sciences, Auckland, New Zealand; (2) HortResearch, Plant-Pathogen Interactions, Auckland, New Zealand; (3) University of Wyoming, Molecular Biology, Laramie, USA

Cross-protection with a CMV mutant lacking the *2b* silencing suppressor gene

* Heiko Ziebell (1), Tina Payne (2), James O. Berry (3), John Walsh (2), John Carr (1)

(1) Cambridge University, Plant Sciences, Cambridge, United Kingdom; (2) Warwick HRI, Warwick, United Kingdom; (3) SUNY, Biological Sciences, Buffalo, United States

Tobacco mosaic virus (TMV): a self-assembling nanotechnology template

* A. Mueller (1), A. Kadri (1), G. Barralia (2), A.M. Bittner (2), H. Jeske (1), C. Wege (1)

(1) Univ. Stuttgart, Stuttgart, Germany; (2) MPI, FKF, Stuttgart, Germany

Promotorelements of *Acanthocystis turfacea* chlorella virus 1 (ATCV-1), a new Phycodnavirus, are active in prokaryotic cells

Moritz Degen (1), * Artur J. P. Pfitzner (1)

(1) Universität Hohenheim, Allgemeine Virologie, Stuttgart, Germany

Sunday 2 September 2007

11.00 – 13.00 h Workshop 3 *Retroviruses I*

Room Shanghai

Chair: Olivier Schwartz, Luc Willems

Keynote Lecture: Hans-Georg Kräusslich:

11.00 - 11.30 h **Assembly and entry of HIV**

11.30 - 13.00 h Oral presentations:

High variety of STLV-1 strains in herbivore red colobus monkeys (*Ptilocolobus badius*)

* Sandra Junglen (1), Claudia Hedemann (1), Heinz Ellerbrok (1), Georg Pauli (1), Christophe Boesch (2), Fabian Leendertz (2)
(1) Robert Koch-Institut, ZBS1, Berlin, Germany; (2) Max Planck Institut, Primatology, Leipzig, Germany

HERV-K expression in melanomas

* Silvia Hahn (1), Selma Ugurel (2), Kay-Martin Hanschmann (3), Heike Strobel (1), Christiane Tondera (1), Dirk Schadendorf (2), Johannes Löwer (1), Roswitha Löwer (1)
(1) Paul-Ehrlich Institut, PR2/Retroelemente, Langen, Germany; (2) German Cancer Research Center Heidelberg and Department of Dermatology, University Hospital of Mannheim, Skin Cancer Unit, Mannheim, Germany; (3) Paul-Ehrlich Institut, Biostatistics, Langen, Germany

Impact of Human and Porcine APOBEC3 Proteins on Replication of Porcine Endogenous Retrovirus

* Eva Dörrschuck (1), Klaus Cichutek (1), Carsten Münk (1), Ralf Tönjes (1)
(1) Paul-Ehrlich-Institut, Medical Biotechnology, Langen, Germany

Towards a multi-transgenic rat model of HIV infection

Christine Goffinet (1), Nico Michel (1), Ina Allespach (1), Daniel Rupp (1), Kerstin Ganter (1), Hanna-Mari Tervo (1), * Oliver Keppler (1)
(1) University of Heidelberg, Virology, Heidelberg, Germany

A TRIM Gene from Rabbit with broad Anti-Retroviral Activity

* Torsten Schaller (1), Greg J. Towers (1)
(1) University College London, Infection, London, United Kingdom

Vpu-mediated downmodulation of CD4 is dispensable for efficient HIV-1 replication and CD4+ T cell depletion in ex vivo human lymphoid tissue

* Michael Schindler (1), Devi Rajan (1), Anke Specht (1), Frank Kirchhoff (1)
(1) University of Ulm, Institute of Virology, Ulm, Germany

13.00 - 14.00 h BREAK

Chair: Urs Greber, Göran Wadell

Keynote Lecture: Lukas Pelkmans:

14.00 - 14.30 h **Towards a taxonomy of viruses based on host requirement complexity**

14.30 - 16.00 h Oral presentations:

Crystal structure of a SV40 VP1 pentamer in complex with its ganglioside receptor

* Ursula Neu (1), Thilo Stehle (1)

(1) University of Tübingen, Interfaculty Institute for Biochemistry, Tübingen, Germany

Transferrin receptor 1 is a cellular receptor for New World haemorrhagic fever arenaviruses

* Sheli R. Radoshitzky (1), Jonathan Abraham (2), Christina F. Spiropoulou (3), Jens H. Kuhn (1), Dan Nguyen (2), Jane Nagel (1), Paul J. Schmidt (2), Jack H. Nunberg (4), Nancy C. Andrews (2), Michael Farzan (1), Hyeryun Choe (2)

(1) New England Primate Research Center, Harvard Medical School, Southborough, MA, USA; (2) Children's Hospital, Harvard Medical School, Boston, MA, USA; (3) Centers for Disease Control and Prevention, Atlanta, GA, USA; (4) The University of Montana, Montana Biotechnology Center, Missoula, MT, USA

Adenovirus type 11 binding alters the conformation of its receptor CD46

* David Persson (1), Dirk Reiter (1), Marko Marttila (2), Ya-Fang Mei (2), Jose Casasnovas (3), Niklas Arnberg (2), Thilo Stehle (1)

(1) Institute for Biochemistry, Tübingen, Germany; (2) Department of Clinical Microbiology, Department of Virology, Umeå, Sweden; (3) Centro Nacional de Biotecnología, CSIC, Madrid, Spain

Measles Virus (MV) attenuation: role of recognition of the ubiquitous membrane cofactor protein (MCP; CD46)

* Claudia S. Antunes Ferreira (1), Marie Frenzke (1), G. Grant Welstead (2), Christopher D. Richardson (2), Roberto Cattaneo (1)

(1) Mayo Clinic, Molecular Medicine Program, Rochester MN, USA; (2) University of Toronto, Department of Medical Biophysics and Ontario Cancer Institute, Toronto, Canada

High-throughput siRNA screens to determine host factors involved in human adenovirus infections

* Nina Wolfrum (1), Raphael Sacher (2), Berend Snijder (2), Lucas Pelkmans (2), Urs F. Greber (1)

(1) University of Zurich, Zurich, Switzerland; (2) Swiss Federal Institute of Technology, Zurich, Switzerland

Dual-color Herpes Simplex Viruses for the analysis of assembly, egress and cell entry

* CH Nagel (1), M Fathollahy (1), T Strive (1), K Döhner (1), E Borst (1), M Messerle (1), B Sodeik (1)

(1) Hannover Medical School, Institute of Virology, Hannover, Germany

Sunday 2 September 2007

14.00 – 16.15 h Workshop 5 *Respiratory Viruses*

Room Istanbul

Chair: Laurent Kaiser, Olli Ruuskanen

Keynote Lecture: Annika Linde:

14.00 - 14.30 h **Spread of viral respiratory tract infections in child-care - consequences and preventive strategies**

14.30 - 16.15 h Oral presentations:

Patterns of Virus Infection in the Respiratory Tract Suggest a Causal Link to Serious Illness in Hospitalized Patients

* Peter Coyle

Belfast Hospital Trust, Regional Virus Lab, Belfast, UK

Vaccination against human metapneumovirus

* Bernadette van den Hoogen (1), Sander Herfst (1), Miranda de Graaf (1), Nancy Ulbrandt (2), Albert Osterhaus (1), Rik de Swart (1), Ron Fouchier (1)

(1) ErasmusMC, Virology, Rotterdam, The Netherlands; (2) MedImmune, Gaithersburg, USA

Characterisation of a patient-derived mutant of SARS-CoV by a novel T7 promoter-driven infectious cDNA clone

* Susanne Pfefferle (1), Klaus Grywna (1), Christian Drosten (1)

(1) Bernhard Nocht Institute for Tropical Medicine, Clinical Virology, Hamburg, Germany

Interaction of SARS-CoV attenuated mutants with the host

Marta L. DeDiego (1), E. Alvarez (1), K. Subbarao (2), E. W. Lamirande (2), S. Perlman (3),

* Luis Enjuanes (1)

(1) CNB, CSIC, Madrid, Spain; (2) NIH, MD, USA; (3) University of Iowa, Iowa, USA

A reverse-genetic analysis of reassortant H1N2 human influenza A viruses

* Aline Anton (1), Alla Heider (1), Larisa Mochalova (2), Nikolai Bovin (2), Brunhilde Schweiger (1), Thorsten Wolff (1)

(1) Robert Koch-Institute, Berlin, Germany; (2) Shemyakin Institute of Bioorganic Chemistry, Moscow, Russia

NS1 of the 1918 pandemic virus and many avian strains of influenza A bind to the SH3 domains of the Crk/CrkL adapter proteins to regulate host cell signalling

Leena Heikkinen (1), Arunas Kazlauskas (1), Ralf Wagner (2), Krister Melén (3), Thedi Ziegler (3), Ilkka Julkunen (3), * Kalle Saksela (1)

(1) Department of Virology, Haartman Institute, University of Helsinki, Finland; (2) Institute of Medical Microbiology and Hygiene, University of Regensburg, Germany; (3) National Public Health Institute, Helsinki, Finland

Recombinant modified vaccinia virus Ankara (MVA)-based vaccine induces protective immunity in mice against infection with influenza virus H5N1

J.H. Kreijtz (1), * Y. Süzer (2), G. van Amerongen (1), G. de Mutsert (1), B. Schnierle (2), J.M. Wood (3), T. Kuiken (1), R.A. Fouchier (1), J. Löwer (2), A.D. Osterhaus (1), G. Sutter (2), G.F. Rimmelzwaan (1)

(1) Erasmus MC, Rotterdam, The Netherlands; (2) PEI, Langen, Germany; (3) NIBSC, Potters Bar, United Kingdom

Sunday 2 September 2007

Chair: Wolfram H. Gerlich, Michael Kann

Keynote Lecture: Fabien Zoulim:

14.00 - 14.30 h **Mechanisms of hepatitis B virus persistence and resistance to antivirals**

14.30 - 16.00 h Oral presentations:

A structural model for duck hepatitis B virus core protein derived by extensive mutagenesis and antibody epitope mapping

Jolanta Vorreiter (1), Immanuel Leifer (1), Christine Roesler (1), * Michael Nassal (1)
(1) University Hospital Freiburg, Internal Med. 2 / Molecular Biology, Freiburg, Germany

Hepatitis B viruses require cholesterol for endosomal escape during virus entry

* Anneke Funk (1), Mouna Mhamdi (1), Carsten Lambert (2), Reinhild Prange (2), Heinz Hohenberg (1), Hüseyin Sirma (1)
(1) Heinrich Pette Institut, Hamburg, Germany; (2) Institute for Medical Microbiology and Hygiene, Johannes-Gutenberg-University, Mainz, Germany

Host factors involved in hepatitis B virus maturation

* M. Rost (1), C. Lambert (1), T. Döring (1), R. Prange (1)
(1) University of Mainz, Institute for Medical Microbiology, Mainz, Germany

A triple function for the N-terminal domain of large hepatitis B virus surface protein: viral binding, antigenicity and influence on folding of the S-domain

Corinna M. Leistner (1), Irina Sominskaya (2), Dace Skrastina (2), Paul Pumpens (2), Aiste Bulavaite (3), Kestas Sasnauskas (3), Wolfram H. Gerlich (1), * Dieter Glebe (1)
(1) University of Giessen, Medical Virology, Giessen, Germany; (2) Biomed. Research and Study Centre, Riga, Latvia; (3) Institute of Biotechnology, Vilnius, Lithuania

Suppression of HBV replication by Toll-like receptor activated non-parenchymal liver cells

Jun Wu (1), Mengji Lu (2), Michael Roggendorf (2), * Jörg F. Schlaak (1)
(1) University Hospital of Essen, Dept. of Gastroenterology and Hepatology, Essen, Germany; (2) University Hospital of Essen, Institute of Virology, Essen, Germany

HBV specific adoptive immune transfer by living liver donation

* A Schumann (1), M Lindemann (2), C Valentin-Gamazo (3), D Knop (4), U Dahmen (3), CE Broelsch (3), H Grosse-Wilde (2), M Roggendorf (1), M Fiedler (1)
(1) University, Virology, Essen, Germany; (2) University, Immunology, Essen, Germany; (3) University, Surgery and Transplantation, Essen, Germany; (4) University, Transfusion medicine, Essen, Germany

16.00 - 16.30 h COFFEE BREAK

Monday 3 September 2007

09.00 – 10.30 h **Symposium I *Epidemiology*** Room Tokio

Chair: Detlev H. Krüger, Marc van Ranst
Albert D. M. E. Osterhaus **Emerging virus infection and intervention strategies**
Isabelle Schuffenecker **Chikungunya: where will the virus emerge next?**
Sir Roy M. Anderson **The interface between scientific analysis and policy
formulation for pandemic influenza A virus**

10.30 - 11.00 h COFFEE BREAK

11.00 – 13.00 h **Workshop 7 *Transcription and siRNA*** Room Tokio

Chair: Peter O'Hare, Walter Schaffner
Keynote Lecture: Bryan R. Cullen:
11.00 - 11.30 h **Viruses, microRNAs and RNA interference**

11.30 - 13.00 h Oral presentations:

The NS3 protein of *Rice hoja blanca* tenuivirus suppresses RNA silencing by efficiently binding to siRNAs

* Esther Schnettler (1), Hans Hemmes (1), Rob Goldbach (1), Marcel Prins (2)
(1) Wageningen University, Virology, Wageningen, The Netherlands; (2) Keygene, Wageningen, The Netherlands

Histone modification pattern of the T lymphotropic Herpesvirus saimiri genome in latency

* Barbara Alberter (1), Armin Ensser (1)
(1) Virologisches Institut, Universitätsklinikum Erlangen, Erlangen, Germany

Functional Analysis of Epstein-Barr Virus (EBV)- encoded microRNAs

* Thorsten Pfuhl (1), Stephanie Barth (1), Nathalie Motsch (1), Claudia Ehse (1), Ruth Nord (1), Klaus Römer (2), Friedrich Grässer (1)
(1) University of Saarland, Medical School, Institute of Virology, Homburg/Saar, Germany; (2) University of the Saarland, Medical School, Jose-Carreras-Center, Homburg/Saar, Germany

High expression levels of HNF1 α and 4 α link efficient hepatitis B virus (HBV) replication with hepatocyte differentiation

* Maria Quasdorff (1), Marianna Hoesel (1), Uta Zedler (1), Felix Bohne (1), Margarete Odenthal (1), Tobias Goeser (1), Ulrike Protzer (1)
(1) University of Cologne, Cologne, Germany

Foamy viral RNA-export is distinct from other retroviruses

* Jochen Bodem (1), Axel Rethwilm (1)
(1) Universität Würzburg, Institut für Virologie, Würzburg, Germany

The papillomavirus E2 protein inhibits AP-1-dependent regulation of the beta4-integrin

Monika Oldak (1), Radoslaw Maksym (1), Jacek Malejczyk (1), * Sigrun Smola-Hess (2)
(1) University of Warsaw, Dept. of of Histology and Embryology, Warsaw, Poland; (2) University of Cologne, Institute of Virology, Cologne, Germany

Monday 3 September 2007

11.00 – 13.00 h **Workshop 8 *Viral Gastroenteritis***

Room Istanbul

Chair: Axel Rethwilm, Jacques Rohayem

Keynote Lecture: Marion Koopmans:

11.00 - 11.30 h **The interplay between viral evolution and epidemiology of caliciviruses**

11.30 - 13.00 h Oral presentations:

Differential and sequential cleavage of the polyprotein precursor of human pathogenic calicivirus by two active forms of the viral protease

Ivonne Robel (1), Ulrike Scheffler (1), Julia Gebhardt (1), * Jacques Rohayem (1)
(1) Institut für Virologie, The Calicilab, TU Dresden, Germany

Bovine Noroviruses and Porcine Sapoviruses: Prevalence and Phylogeny

* Barbara Regina Bank-Wolf (1), Matthias König (1), Heinz-Jürgen Thiel (1)
(1) Institut für Virologie, FB Veterinärmedizin, Justus-Liebig-Universität Giessen, Giessen, Germany

Correlation Between Recombinant Norovirus-like Particle Binding and Expression of Histo-Blood Group Antigens in Oyster Gastrointestinal Tissue

* Peng Tian (1), Anna Engelbrektsen (1), Robert Mandrell (1)
(1) WRRRC, ARS, USDA, PSMRU, Albany, USA

Validation of the viral enzymes of replication in calicivirus as a target for antiviral therapy

* Dorothea Kramer (1), Julia Gebhardt (1), Gregor Meyers (2), Jacques Rohayem (1)
(1) Institut für Virologie, The Calicilab, TU Dresden, Germany; (2) Friedrich-Loeffler-Institut, Tübingen, Germany

Parechovirus in patients with diarrhea, Northern Germany: type 1/3 recombination and evidence for a new parechovirus type or subtype

Luciano Luna (1), Sigrid Baumgarte (2), Klaus Grywna (1), * Christian Drosten (1)
(1) Bernhard Nocht Institute for Tropical Medicine, Clinical Virology, Hamburg, Germany; (2) Institute of Hygiene and Environment, Hamburg, Germany

Complete Genomic Sequence of Turkey Coronavirus

* Maged Gomaa Hemida (1), John Barta (1), Davor Ojkic (1), Dongwan Yoo (2)
(1) Guelph University-OVC, Pathobiology, Guelph, Canada; (2) University of Illinois at Urbana-Champaign, Pathobiology, Urbana-Champaign, USA

Monday 3 September 2007

11.00 – 13.00 h **Workshop 9 Negative Strand RNA Viruses I** Room Shanghai

Chair: Richard M. Elliott, Juan Ortín

Keynote Lecture: Richard M. Elliott:

11.00 - 11.30 h **Bunyavirus replication**

11.30 - 13.00 h Oral presentations:

Nipah virus infection of endothelial cells

* Stephanie Erbar (1), Sandra Diederich (1), Dennis Pfaff (2), Hellmut Augustin (2), Andrea Maisner (1)

(1) Institute of Virology, Marburg, Germany; (2) Department of Vascular Oncology and Metastasis, DKFZ, Heidelberg, Germany

Identification and characterization of cellular interaction partners of Influenza A Virus vRNP and polymerase complex

* Geoffrey Chase (1), Daniel Mayer (1), Kaaweh Molawi (1), Adolfo Garcia-Sastre (2), Martin Schwemmle (1)

(1) University of Freiburg, Department of Virology, Freiburg, Germany; (2) Mt Sinai School of Medicine, Department of Microbiology, NY, USA

High pathogenicity of an avian influenza virus (H7N1) is regulated by the shuttling ability of NS1 between Nucleolus and Cytoplasm

* Benajmin Mänz (1), Björn Keiner (1), Hans-Dieter Klenk (1)

(1) Institut für Virologie, Marburg, Germany

The influenza virus NS1 protein activates the PI3K/Akt pathway to suppress premature apoptosis in infected cells

* Christina Ehrhardt (1), Thorsten Wolff (2), Stephan Pleschka (3), Oliver Planz (4), Wiebke Beermann (2), Mirco Schmolke (1), Stephan Ludwig (1)

(1) Institute of Molecular Virology, WWU, Münster, Germany; (2) RKI, Berlin, Germany; (3) Inst. of Virology, Giessen, Germany; (4) FLI, Tübingen, Germany

Influenza B virus targets nuclear speckle domains

* Jana Schneider (1), Bianca Dauber (1), Andreas Standke (1), Thorsten Wolff (1)

(1) Robert Koch-Institute, Berlin, Germany

Borna disease virus phosphoprotein is responsible for viral interference with neuronal signaling and plasticity

* Christine Prat (1), Sonja Schmid (2), Romain Volmer (1), Martin Schwemmle (2), Daniel Gonzalez-Dunia (1)

(1) INSERM U563, Toulouse, France; (2) University of Freiburg, Department of Virology, Freiburg, Germany

13.00 - 14.00 h BREAK

14.00 – 16.00 h **Poster Session II**

16.00 - 16.30 h COFFEE BREAK

Monday 3 September 2007

16.30 - 18.30 h **Workshop 10 *Virus-Host Interactions*** Room Tokio

Chair: Guido Antonelli, Peter Staeheli

Keynote Lecture: Geoffrey L. Smith:

16.30 - 17.00 h **Intracellular inhibitors of innate immunity from vaccinia virus**

17.00 - 17.30 h **Loeffler-Frosch Award:**

Introduction: Nikolaus Müller-Lantzsch

Award Lecture: Friedemann Weber:

Induction and suppression of the interferon response by pathogenic RNA viruses

17.30 - 18.30 h Oral presentations:

Axonal transport mediates West Nile virus entry into the central nervous system and induces paralysis

* Melanie Samuel (1), Michael Diamond (1), Hong Wang (2), Venkatraman Siddharthan (2), John Morrey (2)

(1) Washington University School of Medicine, Molecular Microbiology, St. Louis, MO, USA; (2) Utah State University, The Institute for Antiviral Research, Logan, UT, USA

Involvement of the E⁶²EEE⁶⁵ Nef Acidic Domain and TRAF Family Members on Signaling Events Induced by Treatment of Monocytes/Macrophages with HIV-1 Nef

* G. Mangino (1), Z. Percario (1), A. Noto (1), G. Fiorucci (2), G. Romeo (2), M. Geyer (3), E. Affabris (1)

(1) Univ. Roma Tre, Biology, Rome, Italy; (2) CNR, Inst. of Mol. Biol. and Pathology, Rome, Italy; (3) MPI für Mol. Physiologie, Abteilung Physikalische Biochemie, Dortmund, Germany

Maintenance of normal cell morphology in cells infected with a MCMV deletion mutant

* Sarah Sengstake (1), Martin Messerle (1)

(1) Hanover Medical School, Virology, Hanover, Germany

Mutant suppression explained by virus cell interactions

* Samuel Ojosnegros (1), Cristina Escarmís (1), Esteban Domingo (1)

(1) Centro de Biología Molecular Severo Ochoa, CSIC-UAM, Madrid, Spain

Monday 3 September 2007

16.30 - 18.30 h **Workshop 11 (PCR) Diagnostics** Room Istanbul

Chair: William F. Carman, Bert Niesters

Keynote Lecture: William F. Carman:

16.30 - 17.00 h **Problems with NAT as a gold standard for viral diagnostics**

17.00 - 17.30 h **Abbott Diagnostic Award:**

Introduction: Peter Coyle

Award Lecture: [Daniele Lilleri](#):

Monitoring of HCMV infection in transplant recipients

17.30 - 18.30 h Oral presentations:

DNA-microarray for simultaneous detection of herpesviruses and adenovirus in transplanted patients

Anette Ditzen (1), Markus Stichling (1), René Müller (1), Anke Rutzka (1), Thomas Illmer (2), Kristine Hille (1), Gerhard Ehninger (2), Ralf Ehricht (3), * Jacques Rohayem (1)
(1) Institut für Virologie, TU Dresden, Germany; (2) Medizinische Klinik I, Uniklinikum Dresden, Germany; (3) Clondiag GmbH, Jena, Germany

An Adenovirus Type F41 (HAdV-F41) Outbreak in a Pediatric Bone Marrow Transplant (BMT) Unit

Frauke Mattner (1), * Albert Heim (2)

(1) Medizinische Hochschule, Krankenhaushygiene, Hannover, Germany; (2) Medizinische Hochschule, Virologie, Hannover, Germany

Molecular diagnosis and prediction of EBV infection after allogeneic stem cell transplantation

* Sanna Aalto (1), Eeva Juvonen (2), Jussi Tarkkanen (3), Liisa Volin (2), Heikki Haario (4), Tapani Ruutu (2), Klaus Hedman (1)

(1) Dept Virology, Univ Helsinki, Finland; (2) HUCH, Helsinki, Finland; (3) Dept Pathology, Univ Helsinki, Finland; (4) Univ Lappeenranta, Lappeenranta, Finland

High Predictive Value of Amniotic Fluid (AF) real-time PCR (RT-PCR) for Prenatal Diagnosis of Congenital CMV Infection (CCI)

* D Wolf (1), O Kaplan (1), N Mador (1), B Shainberg (2), L Shreiber (2), A Bonnef (3), Z Roash (3), E Nir (4)

(1) Hadassah Univ Hosp, Jerusalem, Israel; (2) Maccabi, Rehovot, Israel; (3) Meuchedet, Rehovot, Israel; (4) Clalit, Rehovot, Israel

Monday 3 September 2007

16.30 - 18.30 h **Workshop 12 *Herpesviruses / DNA Viruses I*** Room Shanghai

Chair: Janos Minarovits, Thomas Stamminger

Keynote Lecture: Roger D. Everett:

16.30 - 17.00 h **The role of PML and other ND10 proteins in cellular defense against herpes simplex virus infection**

17.00 - 18.30 h Oral presentations:

A somewhat different look at virus host interaction. Cellular and viral proteins, which change their intracellular location during HCMV infection

* Jörg Schröer (1), Tom Shenk (1)

(1) Princeton University, Dept. Mol. Bio., Princeton, USA

Complete Intracellular Localization Map of all HHV-8 Proteins

* Gaby Sander (1), Andreas Konrad (1), Mathias Thureau (1), Michael Stürzl (1)

(1) Molecular and experimental Surgery, Surgery, Erlangen, Germany

Identification of Conserved γ -Herpesvirus miRNAs

* Nicole Walz (1), Thomas Christalla (1), Uwe Tessmer (1), Adam Grundhoff (1)

(1) Heinrich-Pette-Institute for experimental Virology and Immunology, Hamburg, Germany

Role of the Ubiquitin E3 Ligases SIAH in the Infectious Cycle of the Kaposi's Sarcoma-Associated Herpesvirus

Rinat Abada (1), Tsofia Dreyfus (1), Yifat Herman-Bachinsky (1), Haim Geva (1), * Ronit Sarid (1)

(1) Bar Ilan University, The Mina and Everard Goodman Faculty of Life Sciences, Ramat-Gan, ISRAEL

The essential UL52 gene of human cytomegalovirus—a novel player in genome packaging?

* Eva Borst (1), Anne Binz (1), Beate Sodeik (1), Martin Messerle (1)

(1) MHH, Virology, Hannover, Germany

Human torque teno virus (TTV): cell biology and immunology

* Laura Kakkola (1), Klaus Hedman (1), Maria Söderlund-Venermo (1)

(1) Haartman Institute, University of Helsinki and Helsinki University Central Hospital Laboratory, Department of Virology, Helsinki, Finland

Tuesday 4 September 2007

09.00 – 10.30 h **Symposium II New Vaccination Strategies** Room Tokio

Chair: Giorgio Palù, Klaus Überla
Peter Palese: **Can we make better influenza virus vaccines?**
Ronald C. Desrosiers: **Overcoming HIV's strategies of immune evasion: the challenges of a vaccine for AIDS**
10.00 - 10.30 h **Loeffler-Frosch Medal:**
Introduction: Nikolaus Müller-Lantzsch
Award Lecture: Harald zur Hausen:
Virus vaccination against cancer

10.30 - 11.00 h COFFEE BREAK

11.00 – 13.00 h **Workshop 13 Intrinsic and Innate Immunity** Room Tokio

Chair: Manfred P. Dierich, Jay A. Levy
Keynote Lecture: Klaus Strebel:
11.00 - 11.30 h **Disarming innate antiretroviral defense mechanisms**

11.30 - 13.00 h Oral presentations:

Foamy virus protein Bet induces delocalization and inhibits complex formation of APOBEC3

* Mario Perkovic (2), Henning Hofmann (2), Stanislaw Schmidt (2), Ferdinand Kopietz (2), Martin Löchelt (1), Klaus Cichutek (2), Carsten Münk (2)
(1) DKFZ, Genome Modifications and Carcinogenesis, Heidelberg, Germany; (2) Paul-Ehrlich-Institut, Medical Biotechnology, Langen, Germany

Increased APOBEC3-Expression in long-term non progressors (LTNPs) of SIV-Infected Macaques

* Bianka Mussil (1), Dirk Motzkus (1), Ulrike Sauermann (1), Christiane Stahl-Hennig (1), Sieghart Sopper (1)
(1) German Primate Center, Virology and Immunology, Goettingen, Germany

PML and Daxx independently contribute to an intrinsic immune response against HCMV infection

* Nina Tavalai (1), Thomas Stamminger (1)
(1) Virologisches Institut, Universität Erlangen-Nürnberg, Germany

The Cytomegalovirus pM27 Protein Disrupts Interferon JAK-STAT-Signaling by Recruiting STAT2 to the DNA Damage Binding (DDB1)-CUL4A E3 Ligase Complex

Mirko Trilling (1), Albert Zimmermann (1), Manuela Fiedler (1), * Hartmut Hengel (1)
(1) Universitätsklinikum Düsseldorf, Institut für Virologie, Düsseldorf, Germany

Agonist of Proteinase-Activated Receptor-2 (PAR2) Enhances Anti-viral Effects of IFN γ on Human Monocytes

* Victoria Shpacovitch (1), Micha Feld (1), Stefan Ludwig (2), Martin Steinhoff (1)
(1) University of Münster, Dept of Dermatology, Münster, Germany; (2) University of Münster, ZMBE, Institute of Molecular Virology, Münster, Germany

Summary Lecture: Jay A. Levy: **Overview: Innate Immunity in HIV Infection**

Chair: David Klatzmann, Stefan Kochanek

Keynote Lecture: Mary Collins:

11.00 - 11.30 h **Engineering HIV for gene delivery**

11.30 - 13.00 h Oral presentations:

Re-directed T cells eliminate HBV-infected hepatocytes

Felix Bohne (1), Markus Chmielewski (2), Gregor Ebert (1), Stephan Urban (3), Hinrich Abken (2), * Ulrike Protzer (1)

(1) University, Molecular Infectiology, Institute for Medical Microbiology, Cologne, Germany; (2) University Hospital, Tumor Genetics, Cologne, Germany; (3) University, Molecular Virology, Heidelberg, Germany

The neutralizing antibody C2F5 as a secretable fusion inhibitor for gene therapy of HIV infection

* Janine Kimpel (1), Sebastian Newrzela (1), Shweta Pahujani (1), Dorothee von Laer (1)
(1) Georg-Speyer Haus, Frankfurt, Germany

Chromosomal integration of adenovirus vector DNA in vitro and in vivo

Sam Laurel Stephen (1), * Stefan Kochanek (2)

(1) University of Cologne, ZMMK, Cologne, Germany; (2) University of Ulm, Division of Gene Therapy, Ulm, Germany

CD133+ cells as targets for glioma gene therapy using adenovirus vectors

Johan Skog (1), Karin Edlund (1), Tommy Bergenheim (2), * Göran Wadell (1)

(1) Clinical Microbiology, Virology, Umeå, Sweden; (2) Radiation Sciences, Oncology, Umeå, Sweden

Evaluation of 20 human adenovirus types and one infectivity-enhanced adenovirus for the therapy of softtissue sarcoma

Dennis Hoffmann (1), Albert Heim (2), Dirk M. Nettelbeck (3), Steinstraesser Lars (4), *Oliver Wildner (1)

(1) Ruhr University Bochum, Dep. for Virology, Bochum, Germany; (2) Hannover Medical School, Institut of Virology, Hannover, Germany; (3) University Heidelberg, German Cancer Research Center, Heidelberg, Germany; (4) Ruhr-University Bochum

Development of an SIVsmmPBj- and a HIV-2-derived three-plasmid vector system

* Björn-Philipp Kloke (1), Silke Schüle (1), Katrin Högner (1), Nina Wolfrum (1), Klaus Cichutek (1), Matthias Schweizer (1)

(1) Paul-Ehrlich-Institut, Medical Biotechnology, Langen, Germany

Tuesday 4 September 2007

11.00 – 13.00 h Workshop 15 *Retroviruses II*

Room Shanghai

Chair: Ben Berkhout, Kalle Saksela

Keynote Lecture: Jeremy Luban:

11.00 - 11.30 h **Host factors that restrict retroviral replication**

11.30 - 13.00 h Oral presentations:

Characterization of the Vif Interaction domain in APOBEC3C

* Björn-Philipp Kloke (1), Klaus Cichutek (1), Carsten Münk (1)
(1) Paul-Ehrlich-Institut, Medical Biotechnology, Langen, Germany

APOBEC3 proteins are major players in intracellular defense against human LINE-1 retrotransposition

Heide Muckenfuss (1), Matthias Hamdorf (1), Axel Horn (2), Mario Perkovic (1), Johannes Löwer (2), Klaus Cichutek (1), Egbert Flory (1), Carsten Münk (1), * Gerald Schumann (2)
(1) Paul-Ehrlich-Institut, Division of Medical Biotechnology, Langen, Germany; (2) Paul-Ehrlich-Institut, Section PR2/Retroelements, Langen, Germany

RNA Requirements for the Incorporation of Pol Protein into Foamy Virus Particles

* Tatiana Wiktorowicz (1), Katrin Peters (1), Axel Rethwilm (1)
(1) Universität Würzburg, Institut für Virologie und Immunbiologie, Würzburg, Germany

The role of viral and cellular factors that control translation of Human Immunodeficiency Virus Type-1 (HIV-1) RNA

* Harriet Groom (1), Emma Anderson (1), John Dangerfield (2), Andrew Lever (1)
(1) University Cambridge, Medicine, Cambridge, UK; (2) University of Veterinary Medicine, Research Institute of Virology and Biomedicine, Vienna, Austria

DNA repair factors in foamy virus integration

Tatjana Cornu (1), Benjamin Krause (1), * Christine Schuberth (1), Toni Cathomen (1)
(1) Charité – Universitätsmedizin Berlin, Virologie (CBF), Berlin, Germany

Modulation of Immunological Synapse Organization and Function by HIV-1 Nef

Claudia Haller (1), Susanne Rauch (1), * Oliver Fackler (1)
(1) Universitätsklinikum Heidelberg, Abteilung Virologie, Heidelberg, Germany

13.00 - 14.00 h BREAK

14.00 – 16.00 h Poster Session III

16.00 - 16.30 h COFFEE BREAK

Chair: Barbara Ensoli, Stipan Jonjič

Keynote Lecture: Cornelis J. M. Melief

16.30 - 17.00 h **Immunoprevention and immunotherapy of high risk HPV-induced diseases**

17.00 - 18.30 h Oral presentations:

Inconsistent responses of cytomegalovirus (CMV)-specific T-cells to pp65 and IE-1 vs infected dendritic cells in organ transplant recipients (OTR)

Daniele Lilleri (1), Paola Zelini (1), Chiara Fornara (1), Giuditta Comolli (2), * Giuseppe Gerna (1)

(1) Servizio di Virologia, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy; (2) Servizio di Virologia, Laboratori Sperimentali di Ricerca Area Biotecnologie, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy

A Randomized, Controlled, Phase II Study with an MVA-Nef Vaccine in HIV-1 Infected Patients Followed by Structured Treatment Interruption (STI)

* T. Harrer (1), J. Hain (2), T. Meyer (2), N. Baedeker (2), V. Sobek (2), M. Baeuerle (1), H. Jaeger (3), M. Helm (4), D. Gorriahn (5), L. Schneider (6), E. Harrer (1)

(1) University Hospital Erlangen, Dept. of Medicine III, Erlangen, Germany; (2) Bavarian Nordic GmbH, Martinsried, Germany; (3) Practice Jaeger, Munich, Germany; (4) Practice Helm, Nuremberg, Germany; (5) Practice Gorriahn, Munich, Germany; (6) Practice Schneider, Fürth, Germany

Allogeneic CTL therapy for Epstein-Barr virus (EBV)-positive PTLD: Results of a phase II multicentre clinical trial

* Tanzina Haque (1), Gwen Wilkie (2), Craig Higgins (3), Karen McAulay (2), Anthony Swerdlow (3), Dorothy Crawford (2)

(1) Royal Free Hospital, Department of Virology, London, UK; (2) University of Edinburgh, CMV Laboratory, Edinburgh, UK; (3) ICR, Sutton, UK

Cross-competition of CD8+ T cells shapes the immunodominance hierarchy during boost vaccination

Wolfgang Kastenmüller (1), Georg Gasteiger (2), * Ingo Drexler (3)

(1) TUM, Virology, Munich, Germany; (2) GSF, Virology, Munich, Germany; (3) GSF, Virology, Munich, Germany

Seamless Modification of the HCMV Genome by GalK Mediated Recombineering: Generation of Recombinant Dense Bodies

* Sabine Reyda (1), Véronique Mersseman (1), Bodo Plachter (1)

(1) University of Mainz, Institute for Virology, Mainz, Germany

Microsphere co-encapsulated PrP with CpG breaks self-tolerance to prion protein and induces CD4 and CD8 T cell responses

Gunnar Kaiser-Schulz (2), Antje Heit (1), * Hermann Schätzl (2)

(1) Technical University of Munich, Institute of Medical Microbiology, Munich, Germany; (2) Technical University of Munich, Institute of Virology, Munich, Germany

Chair: Karl-Klaus Conzelmann, Veronika von Messling

Keynote Lecture: Paul Duprex:

16.30 - 17.00 h **Live cell imaging of paramyxovirus infection**

17.00 - 18.30 h Oral presentations:

The fusion protein of respiratory syncytial virus (RSV) activates transcription factor p53 leading to apoptosis and shedding of epithelial cells

* Julia Eckardt-Michel (1), Markus Lorek (1), Diane Baxmann (1), Gert Zimmer (1)
(1) University of Veterinary Medicine, Institute of Virology, Hannover, Germany

Measles virus P gene products inhibit Toll-like receptor 7/9 signaling

* Christian Pfaller (1), Karl-Klaus Conzelmann (1)
(1) Max von Pettenkofer-Institute & Gene Center, LMU, Munich, Germany

Structural properties of phosphoproteins of Rhabdoviridae

* Francine Gerard (1), Euripedes Ribeiro (1), Aurelie Albertini (1), Irina Gutsche (1), Rob Ruigrok (1), Marc Jamin (1)
(1) UVHCI UMR5233 CNRS-UJF-EMBL, Grenoble, France

Functional characterization of the major and minor phosphorylation sites of the P protein of Borna disease virus

* Sonja Schmid (1), Daniel Mayer (1), Urs Schneider (1), Martin Schwemmle (1)
(1) University of Freiburg, Department of Virology, Freiburg, Germany

Influenza mRNA translation revisited: is the eIF4E cap-binding factor required for viral mRNA translation?

Idoia Burgui Herrera (1), * Emilio Yángüez López-Cano (1), Nahum Sonenberg (2), Amelia Nieto Martín (1)
(1) Centro Nacional de Biotecnología (C.S.I.C.), Departamento de Biología Molecular y Celular, Madrid, Spain; (2) McGill Cancer Center, McGill University, Department of Biochemistry, Montreal, Canada

Inhibition of filovirus replication by the zinc finger antiviral protein

Stefanie Müller (1), Peggy Möller (2), Matthew Bick (1), Stephanie Wurr (1), Stephan Becker (2), Stephan Günther (1), * Beate Kümmerer (1)
(1) Bernhard-Nocht-Institute, Department of Virology, Hamburg, Germany; (2) Philipps University Marburg, Institute of Virology, Marburg, Germany

Tuesday 4 September 2007

16.30 - 18.30 h **Workshop 18 Positive Strand RNA Viruses** Room Shanghai

Chair: Tapani Hovi, John Ziebuhr

Keynote Lecture: John Ziebuhr:

16.30 - 17.00 h **The coronavirus replicase: special enzymes for special viruses**

17.00 - 18.30 h Oral presentations:

Two non-infectious flaviviruses can form an infectious alliance

* Christian Riepl (1), Christian Mandl (1)

(1) Medical University of Vienna, Clinical Institute of Virology, Vienna, Austria

Recombination of polioviruses- advantage to a recombinant strain?

* Carita Savolainen-Kopra (1), Merja Roivainen (1), Anna-Kaisa Hiekka (1), Elena Samoilovich (2), Tapani Hovi (1)

(1) Nat. Publ. Health Inst., Helsinki, Finland; (2) Res. Inst. of Epid. and Microb., Minsk, Byelorussia

Characterization of IRES elements by a RNA virus based dual luciferase reporter system

* Adriane Marschalek (1), Stefan Finke (2), Karl-Klaus Conzelmann (1)

(1) Max von Pettenkofer-Institute & Gene Center, LMU Munich, Germany; (2) Friedrich-Loeffler-Institute, Insel Riems, Germany

The Non-structural Protein 4A of Dengue Virus Is an Integral Membrane Protein Inducing Intracellular Membrane Alterations

* Sven Miller (1), Jacomine Krijnse-Locker (2), Sandra Bühler (1), Ralf Bartenschlager (1)

(1) Molecular Virology, Heidelberg, Germany; (2) EMBL, Heidelberg, Germany

Activation of dsRNA-dependent protein kinase and induction of apoptosis in SARS-coronavirus-infected cells

* Verena Krähling (1), Judith Küsters (1), Elke Mühlberger (1)

(1) Philipps-University, Institute of Virology, Marburg, Germany

Cytopathogenicity of Classical Swine Fever Virus Correlates With Attenuation in the Natural Host

* Andreas Gallei (1), Sandra Blome (2), Volker Moennig (2), Paul Becher (1)

(1) Institut für Virologie, Justus-Liebig-Universität, Giessen, Germany; (2) Institut für Virologie, Stiftung Tierärztliche Hochschule, Hannover, Germany

Wednesday 5 September 2007

09.00 – 10.30 h **Workshop 19 *Viral Persistence and Immune Evasion*** Room Tokio

Chair: Ulrich Koszinowski, Bracha Rager

Keynote Lecture: Antonio Alcamí:

09.00 - 09.30 h **Viral mimicry of cytokine receptors: contribution to pathogenesis and immune modulation**

09.30 - 10.30 h Oral presentations:

Cytomegalovirus evasion of innate immunity by subversion of the NKR-P1B:Ocil/Cir-b missing-self axis

* Sebastian Voigt (1), Aruz Mesci (2), Jakob Ettinger (1), Jason Fine (2), Peter Chen (2), Wayne Chou (2), James Carlyle (2)

(1) Robert Koch Institute, Division of Viral Infections, Berlin, Germany; (2) University of Toronto, Department of Immunology, Toronto, Canada

Selective Inhibition of host FcγR activation through Herpesviral Fcγ Receptors

* Eugenia Corrales-Aguilar (1), Henrike C. Reinhard (1), Albert Zimmermann (1), David C. Johnson (2), Ofer Mandelboim (3), Hartmut Hengel (1)

(1) Virology, Düsseldorf, Germany; (2) OHSU, Portland, USA; (3) Jerusalem, Israel

Polyomavirus JC (JCV) with rearranged noncoding control region (rr-NCCR) are found in CSF, but not in urine and increase early gene expression

* Rainer Gosert (1), Adrian Egli (1), Sohrab Bodaghi (1), Nina Khanna (1), Nicolas Müller (1), Hans H. Hirsch (1)

(1) Medical Microbiology, Basel, Switzerland

Borna disease virus with terminally truncated genome can retrieve missing genetic information

* A. Martin (1), J. Tadewaldt (1), P. Staeheli (1), U. Schneider (1)

(1) University of Freiburg, Dep. Virology, Freiburg, Germany

Wednesday 5 September 2007

09.00 – 10.30 h **Workshop 20 Antivirals and Resistance**

Room Istanbul

Chair: Bruno Lina, Elisabeth Puchhammer-Stöckl

Keynote Lecture: John M. Coffin:

09.00 - 09.30 h **Antiviral drugs and the HIV-host relationship: Resistance and Persistence**

09.30 - 10.30 h Oral presentations:

Peptide-mediated interference with the influenza A virus polymerase

* Alexander Ghanem (1), Daniel Mayer (1), Geoffrey Chase (1), Ronald Frank (2), Georg Kochs (1), Adolfo Garcia-Sastre (3), Martin Schwemmle (1)

(1) University of Freiburg, Department of Virology, Freiburg, Germany; (2) HCI, Braunschweig, Germany; (3) MSSM, NY, USA

Filoviral Receptor-Binding Domains are Promising Subunit Vaccine Candidates

* Jens H. Kuhn (1), Kelly L. Warfield (2), Sheli R. Radoshitzky (1), Dana Swenson (2), Gene G. Olinger (2), Sina Bavari (2), Michael Farzan (1), M. Javad Aman (2)

(1) New England Primate Research Center, Harvard Medical School, Southborough, MA, USA; (2) USAMRIID, Ft. Detrick, Frederick, MD, USA

Chimeric TCR for antiviral therapy

* Florian Full (1), Gabriel Götz (2), Manfred Lehner (2), Michael Mach (1), Wolfgang Holter (2), Armin Ensser (1)

(1) Virologisches Institut, Universitätsklinikum Erlangen, Erlangen, Germany; (2) Klinik für Kinder und Jugendliche, Universitätsklinikum Erlangen, Erlangen, Germany

HIV cleavage site mutations and protease-inhibitor resistance

* Jens Verheyen (1), Elena Litau (1), Tobias Sing (2), Herbert Pfister (1), Rolf Kaiser (1)

(1) Institute of Virology, University of Cologne, Cologne, Germany; (2) Max Planck Institute for Informatics, Saarbrücken, Germany

Wednesday 5 September 2007

09.00 – 10.30 h Workshop 21 *Herpesviruses / DNA Viruses II* Room Shanghai

Chair: Giuseppe Gerna, Nikolaus Müller-Lantzsch

Keynote Lecture: Gabriella Campadelli-Fiume:

09.00 - 09.30 h **Herpes simplex virus, the entry mechanism of a complex virus**

09.30 - 10.30 h Oral presentations:

Unravelling the structure function relationship of the HCMV encoded Fcγ-receptors

* Henrike Reinhard (1), Elizabeth R. Sprague (2), Albert Zimmermann (1), Pamela J. Bjorkman (2), Hartmut Hengel (1)

(1) Virology, Duesseldorf, Germany; (2) California Inst. of Technology, Pasadena, USA

CMV-adrenalitis in patients with HIV infection

* Sven Grützmeier (1), Eric Sandström (1), Anneka Ehrnst (2), Inger Nennesmo (3)

(1) Karolinska University Hospital, Department of Infectious Diseases, Stockholm, Sweden; (2) MTC, Karolinska Institute, Stockholm, Sweden; (3) Karolinska University Hospital, Department of Pathology, Huddinge, Sweden

MCMV retargets costimulatory molecules of the immune system by enhancing clathrin mediated endocytosis

* Pen Kay-Jackson (1), Andrea Loewendorf (2), Martin Messerle (1)

(1) Medical School, Virology, Hannover, Germany; (2) La Jolla Institute for Allergy and Immunology, San Diego, USA

New plasmacytoid dendritic cell (PDC) surface receptors indicate novel types of cellular interactions in the defense of herpesviral infections

* Philipp Schuster (1), Norbert Donhauser (1), Nico Kittan (1), Sabrina Haupt (1), Barbara Schmidt (1)

(1) Institute of Virology, University of Erlangen-Nürnberg, Germany

10.30 - 11.00 h COFFEE BREAK

Chair: Thomas Schulz, Jan Svoboda

Keynote Lecture: Kuan-Teh Jeang:

11.00 - 11.30 h **HTLV-1 and transformation: multisteps to genetic damage**

11.30 - 13.00 h Oral presentations:

Physical and Functional interactions of human endogenous retrovirus k proteins Np9 and Rec with the Promyelocytic Leukemia Zinc Finger(PLZF)protein

* M. Denne (1), M. Sauter (1), V. Armbruester (1), JD. Licht (2), K. Roemer (1), N. Mueller-Lantzsch (1)

(1) Inst. of Virology, Homburg, Germany; (2) Div. of Oncology, Chicago, USA

Reduced UV-induced apoptosis by specific papillomaviruses associated with skin cancer

Linda Struijk (1), Els van der Meijden (1), Frank de Gruijl (2), * Mariet Feltkamp (1)

(1) Leiden University Medical Center, Medical Microbiology, Leiden, The Netherlands; (2) LUMC, Dermatology, Leiden, The Netherlands

T-cellular signaling pathways influenced by Herpesvirus saimiri oncoprotein StpC

* Anja Glanz (1), Jens-Christian Albrecht (1), Stefanie Heinemann (1), Bernhard Fleckenstein (1), Noah Isakov (2), Brigitte Biesinger (1)

(1) Virologisches Institut, Universitätsklinikum, Erlangen, Germany; (2) Ben Gurion University of the Negev, Beer Sheva, Israel

The viral interferon regulatory factor-3 (K10.5, LANA-2) is required for the proliferation of infected primary effusion lymphoma cells and counteracts cellular IRF-5

* Effi Wies (1), Alexander Hahn (1), Nadine Rohland (1), Angela Holzer (1), Bernhard Fleckenstein (1), Frank Neipel (1)

(1) Universität Erlangen, Virologisches Institut, Erlangen, Germany

Systematic Analysis of Combination Effects of HHV-8 genes on NF- κ B Activation

A. Konrad (1), E. Wies (1), G. Sander (1), M. Thureau (1), E. Naschberger (1), S. Bauer (1), R. Leubert (1), T.F. Schulz (2), F. Neipel (1), * M. Stürzl (1)

(1) Univ. of Erlangen, Erlangen, Germany; (2) Univ. of Hannover, Hannover, Germany

Elevated expression of oncogenic microRNAs in HTLV-1 transformed T cells and ATL leukemia cells

* Klemens Pichler (1), Claudine Pique (2), Ralph Grassmann (1)

(1) Virology, University of Erlangen-Nürnberg, Erlangen, Germany; (2) Institute Cochin, Paris, France

Chair: Åke Lundkvist, Ernst Peterhans

Keynote Lecture: Noël Tordo:

11.00 - 11.30 h **Bats and viruses**

11.30 - 13.00 h Oral presentations:

Spread and evolution of HPAI H5N1 in poultry, humans and wild-birds in Sub-Saharan Africa

C. Olinger (1), A. Owoade (2), A. Nasidi (3), M. Ducatez (1), Z. Tarnagda (4), M. Tahita (4), A. Sow (5), A. Osterhaus (6), J. Ouedraogo (4), R. Fouchier (6), * C. Muller (1)

(1) Institute of Immunology, Luxembourg, Luxembourg; (2) Dept. Veterinary Medicine, Univ. Ibadan, Ibadan, Nigeria; (3) Ministry of Health, Abuja, Nigeria; (4) Institut de Recherche en Santé, Bobo-Dioulasso, Burkina Faso; (5) Laboratoire National de l'élevage, Ouagadougou, Burkina Faso; (6) Dept. Virology, Erasmus Medical Center, Rotterdam, Netherlands

Scrapie infection of PrP deficient cell line upon ectopic expression of mutant prion proteins

Elke Maas (1), Markus Geissen (2), Martin Groschup (2), Romina Rost (1), Lars Gädtke (1), Takashi Onodera (3), Hermann Schätzl (1), * Ina Vorberg (1)

(1) Technical University of Munich, Institute of Virology, Munich, Germany; (2) Friedrich-Loeffler-Institute, Institute for Novel and Emerging Infectious Diseases, Greifswald, Germany; (3) University of Tokyo, Department of Immunology, Tokyo, Japan

Chikungunya fever in travellers returning from the Indian Ocean region

* Marcus Panning (1), Klaus Grywna (1), Marjan van Esbroeck (2), Petra Emmerich (1), Christian Drosten (1)

(1) Bernhard Nocht Institute for Tropical Medicine, Clinical Virology, Hamburg, Germany; (2) Prince Leopold Institute of Tropical Medicine, Antwerp, Belgium

A new primate animal model for orthopoxvirus infections

* Marit Kramski (1), Kerstin Mätz-Rensing (2), Christiane Stahl-Hennig (2), Franz-Josef Kaup (2), Georg Pauli (1), Heinz Ellerbrok (1)

(1) Robert Koch-Institut, ZBS1, Berlin, Germany; (2) German Primate Center, Göttingen, Germany

Isolation of a new flavivirus from mosquitoes collected in the Tai National Park, Côte d'Ivoire

* Sandra Junglen (1), Andreas Kurth (1), Fabian Leendertz (1), Georg Pauli (1), Heinz Ellerbrok (1)

(1) Robert Koch-Institut, ZBS1, Berlin, Germany

A novel Dobrava virus lineage carried by Apodemus ponticus (caucasian wood mouse) causes moderate/severe hemorrhagic fever with renal syndrome (HFRS)

* Detlev H Kruger (1), Boris Klempa (1), Tamara Dzagurova (2), Yuliya Yunicheva (2), Vyacheslav Morozov (2), Nataliya Okulova (2), Evgeniy A. Tkachenko (2)

(1) Charité Med.School, Inst. Virology, Berlin, Germany; (2) Russ.Acad.Med.Sci., Chumakov Inst. Poliomyelitis, Moscow, Russia

Chair: Michael Nassal, Thomas Pietschmann

Keynote Lecture: Darius Moradpour:

11.00 - 11.30 h **New insights into the replication and pathogenesis of hepatitis C virus**

11.30 - 13.00 h Oral presentations:

Different gene expression profile distinguish responders from non responders to HCV treatment

* A. Almeida (1), J. Caetano (2), P. Santos (2), A. Martinho (2), C. Valente (3), B. Pais (3), C. Luxo (4)

(1) C. Histocompatibilidade do Centro; Faculdade de Farmácia -UC, Coimbra, Portugal; (2) C. Histocompatibilidade do Centro, Coimbra, Portugal; (3) Centro Hospitalar de Coimbra, Coimbra, Portugal; (4) Faculdade de Farmácia UC, Coimbra, Portugal

Domain III of hepatitis C virus non-structural protein 5A is essential for virus production

Margarita Zayas (1), Peter Friebe (1), Torsten Schaller (2), Ralf Bartenschlager (1), * Nicole Appel (1)

(1) University of Heidelberg, Department of Molecular Virology, Heidelberg, Germany; (2) University College London, Department of Infection and Immunity, London, United Kingdom

Importance of HCV p7-protein for Efficient Assembly and Release of Infectious Virions

* Christiane Brohm (1), Eike Steinmann (1), Sibylle Haid (2), Stephanie Kallis (1), Francois Penin (3), Ralf Bartenschlager (1), Thomas Pietschmann (2)

(1) University Heidelberg, Molecular Virology, Heidelberg, Germany; (2) Twincore center, Experimental Virology, Hannover, Germany; (3) Institute of Biology and Chemistry of Proteins, Lyon, France

The hepatitis C virus IRES-mediated translation is modulated by both cis and trans viral factors

* Sofia Lourenço (1), Fleur Costa (1), Béatrice Desbarges (1), Annie Cahour (1)

(1) Laboratoire de Virologie CERVI, GH Pitié Salpêtrière, Paris, FRANCE

Hepatitis C virus replication involves nuclear proteins

Olaf Isken (1), Martina Baroth (1), Susan Weinlich (2), Dirk Ostareck (2), Antje Ostareck (2),

* Sven-Erik Behrens (2)

(1) Fox Chase Cancer Center, Philadelphia, USA; (2) Martin-Luther-University Halle-Wittenberg, Institute of Biochemistry/Biotechnology, Halle, Germany

Motility of Small Hepatitis C Virus Replication Complexes

* Benno Wölk (1), Darius Moradpour (2), Charles M. Rice (3)

(1) Hannover Medical School, Virology, Hannover, Germany; (2) Centre Hospitalier Universitaire Vaudois, Division of Hepatology, Lausanne, Switzerland; (3) The Rockefeller University, Center for the Study of Hepatitis C, New York, USA

13.00 - 14.00 h BREAK

Wednesday 5 September 2007

14.00 – 16.00 h **Symposium III *Emerging Viruses*** Room Tokio

Chair: Hans-Dieter Klenk, Thomas C. Mettenleiter

14.00 - 14.15 h **Poster Prizes**
Presenter: Ulrich Schubert

Keynote Lecture: Paul Sharp:
14.15 - 14.45 h **The origins of AIDS**

14.45 - 15.15 h **Heine-Medin Award:**
Introduction: Marion Koopmans
Award Lecture : Lia van der Hoek:
 Human coronaviruses, what's new?

15.15 - 15.45 h **Gardner Lecture:**
Introduction: Annika Linde
Awardee Ralf Bartenschlager:
 **Lessons learnt from hepatitis C virus cell culture systems:
 Insights into basic virology and clinical implications**

15.45 - 16.00 h **Farewell**
Otto Haller, Bernhard Fleckenstein