



Siena
14 - 19 June



Final Program



16th NSV Meeting
Siena, Italy

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Meeting Organizers:

Prof. Daniel Kolakofsky
University of Geneva, Geneva, Switzerland
Prof. Sean Whelan
Harvard Medical School, Boston, USA
Prof. Dominique Garcin
University of Geneva, Geneva, Switzerland
Prof. Laurent Roux
University of Geneva, Geneva, Switzerland
Prof. Paul Duprex
Boston University, Boston, USA
Prof. Maria Grazia Cusi
University of, Siena, Italy

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Program NSV 2015 Siena

Sunday, June 14

14:00-18:00 **Registration:** Auditorium Department of Law
Università degli Studi di Siena
Via Mattioli 10, Siena

Poster session I-IV:

Monday, June 15 and Tuesday, June 16

Poster Setup:

11-37, 47-67, 78-102, 112-124 and 145-165

Poster Dismantling:

Tuesday, June 16, at the end of the sessions

Poster session V-VIII:

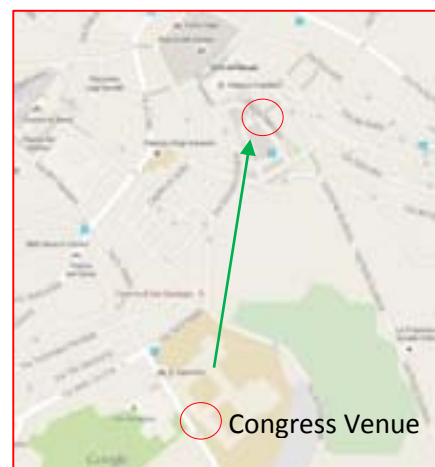
Wednesday, June 17 and Thursday, June 18

Poster Setup:

166-197, 203-224, 239-277, 287-298 on Wednesday,
June 17

19:00-23:00 **Opening reception:**

Piazza del Mercato



Monday June 15

08:45-09:00: Welcome by the Rector of University of Siena and introductory remarks Daniel Kolakofsky

Session I: In and Out and Moving About

Chairpersons: Silke Stertz and Benhur Lee

09:00-09:10: Chairpersons's remarks

09:10-09:30 20'	1	STRUCTURE AND ACTIVATION OF PARAMYXOVIRUS FUSION GLYCOPROTEINS <u>Theodore Jardetzky</u> ^{*1} ¹ Structural Biology, Stanford University School of Medicine, Stanford, United States
09:30-09:50 20'	2	X-RAY STRUCTURE OF VESICULAR STOMATITIS VIRUS GLYCOPROTEIN BOUND TO A FRAGMENT OF ITS CELLULAR RECEPTOR. <u>Aur�lie A. Albertini</u> ^{*1} , Jovan Nikolic ¹ , Pierre Legrand ² , Yves Gaudin ¹ ¹ Department of Virology, Institute for Integrative Biology of the Cell, ² SOLEIL synchrotron, Gif sur Yvette, France
09:50-10:10 20'	3	THE INTERACTION BETWEEN TIM-1 AND NPC1 IS IMPORTANT FOR THE CELLULAR ENTRY OF EBOLA VIRUS Makoto Kuroda ¹ , Daisuke Fujikura ¹ , Asuka Nanbo ² , Reiko Yoshida ¹ , <u>Ayato Takada</u> ^{*1} ¹ Research Center for Zoonosis Control, Hokkaido University, ² Department of Cell Physiology, Hokkaido University Graduate School of Medicine, Sapporo, Japan
10:10-10:20 10'	4	HAPLOID GENETIC SCREEN REVEALS A PROFOUND AND DIRECT DEPENDENCE ON CHOLESTEROL FOR HANTAVIRUS MEMBRANE FUSION <u>Rohit K. Jangra</u> ^{*1} , Lara M. Kleinfelter ¹ , Lucas T. Jae ² , Andrew S. Herbert ³ , Eva Mittler ¹ , Katie M. Stiles ⁴ , Ariel S. Wirchnianski ³ , Margaret Kielian ⁴ , Thijn R. Brummelkamp ² , John M. Dye ³ , Kartik Chandran ¹ ¹ Microbiology and Immunology, Albert Einstein College of Medicine, New York, United States, ² Netherlands Cancer Institute, Amsterdam, Netherlands, ³ US Army Medical Research Institute of Infectious Diseases, Fort Detrick, ⁴ Cell Biology, Albert Einstein College of Medicine, New York, United States
10:20-10:30 10'	5	ENDOSOME-LYSOSOME FUSION INDUCED BY THE PROTEIN COMPLEX HOPS IS CRITICAL FOR EBOLA VIRUS ENTRY <u>Eva Mittler</u> ^{*1} , Jennifer S. Spence ¹ , Kartik Chandran ¹ ¹ Microbiology and Immunology, Albert Einstein College of Medicine, New York, United States

10:30-11:30 Coffee break
Poster session I-IV

11:30-11:50 20'	6	INSIGHTS INTO HUMAN METAPNEUMOVIRUS PARTICLE ASSEMBLY AND TRANSMISSION Farah El Najjar ¹ , Nicolas Cifuentes ¹ , Ursula J. Buchholz ² , <u>Rebecca E. Dutch</u> ^{*1} ¹ Molecular and Cellular Biochemistry, University of Kentucky, Lexington, ² Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, United States
11:50-12:10 20'	7	INTRACELLULAR TRAFFICKING OF INFLUENZA VIRUS GENOME MEDIATED BY ENDOCYTIC RECYCLING COMPARTMENTS LOCATED AT THE CENTROSOME <u>Atsushi Kawaguchi</u> ^{*1} , Mikako Hirohama ¹ , Kyosuke Nagata ¹ ¹ Faculty of Medicine, University of Tsukuba, Tsukuba, Japan
12:10-12:30 20'	8	THE NECTIN-4/AFADIN PROTEIN COMPLEX AND INTERCELLULAR MEMBRANE PORES CONTRIBUTE TO RAPID MEASLES VIRUS SPREAD IN PRIMARY HUMAN AIRWAY EPITHELIA <u>Roberto Cattaneo</u> ^{*1} , Brajesh K. Singh ² , Andrew A. Hornick ² , Sateesh Krishnamurthy ² , Anna Locke ³ , Crystal A. Mendoza ¹ , Mathieu Mateo ¹ , Catherine L. Miller-Hunt ² , Patrick L. Sinn ² ¹ Molecular Medicine, Mayo Clinic, Rochester, ² Pediatrics, University of Iowa, Iowa City, ³ University of Iowa, Iowa, United States
12:30-12:40 10'	9	NIPAH VIRUS C PROTEIN FACILITATES EFFICIENT VIRUS BUDDING BY RECRUITING ESCRT TO SITES OF MATRIX BUDDING <u>Arnold Park</u> ^{*1} , Frederic Vigant ¹ , Tatyana Yun ² , Sohui Won ¹ , Olivier Pernet ³ , Alexander Freiberg ² , Benhur Lee ¹ ¹ Microbiology, Icahn School of Medicine at Mount Sinai, New York, ² Pathology, University of Texas Medical Branch, Galveston, ³ Microbiology, Immunology and Molecular Genetics, University of California Los Angeles, Los Angeles, United States
12:40-12:50 10'	10	VIRAL BUDDING REGULATED BY A CRITICAL RESIDUE LOCATED AT THE PUTATIVE DIMERIC INTERFACE OF THE CANINE DISTEMPER VIRUS MATRIX PROTEIN <u>Fanny Bringolf</u> ^{*1} , Nadine Ebert ¹ , Mojtaba Khosravi ¹ , Herren Michael ¹ , Marianne Wyss ¹ , Andreas Zurbriggen ¹ , Philippe Plattet ¹ ¹ Division of Experimental and Clinical Research, Vetsuisse faculty/ University of Bern, Bern, Switzerland

Monday, June 15
Session I

12:50-14:20 Lunch
Poster session I-IV

Session II: Structure and function

Chairpersons: Stephan Becker and Juan Ortin

14:20-14:30: Chairpersons's remarks

14:30-14:50 20'	38	STRUCTURES OF CHANDIPURA VIRUS GLYCOPROTEIN: NEW INSIGHTS IN THE EVOLUTION AND WORKING OF THE VESICULOVIRUS GLYCOPROTEIN FUSION MACHINERY. Eduard Baquero¹, Aurélie Albertini¹, Elisabetta Boeri², Hélène Raux¹, Linda Buonocore³, John K. Rose³, Jean Lepault¹, Stéphane Bressanelli⁴, Yves Gaudin^{*1} ¹Department of Virology, Institute for Integrative Biology of the Cell, CNRS, Gif sur Yvette, ²Institute of Structural Biology, Grenoble, France, ³Department of Pathology, Yale University School of Medicine, New Haven, United States, ⁴Department B3S, Institute for Integrative Biology of the Cell, CNRS, Gif sur Yvette, France
14:50-15:10 20'	39	NEW STRUCTURE-BASED STABILIZATION OF RESPIRATORY SYNCYTIAL VIRUS FUSION PROTEIN SHEDS LIGHT ON THE FUSION MECHANISM Johannes P. Langedijk^{*1}, Krarup anders¹, Daphne Truan¹, Polina Furmanova-Hollenstein¹, Lies Bogaert¹, Pascale bouchier¹, Ilona Bisschop¹, Richard Voorzaat¹, Graham Whyteside¹, Dominika Czapska¹, Renske bolder¹, Marjolein van der meer¹, Myra Widjojoatmodjo¹, Roland Zahn¹, Hanneke Schuitemaker¹, Jason S. Mclellan² ¹viral vaccines, Janssen Infectious Diseases and Vaccines , Leiden, Netherlands, ²Department of Biochemistry, Geisel School of Medicine at Dartmouth, Hanover, United States
15:10-15:30 20'	40	MOLECULAR RECOGNITION OF HUMAN EPHRINB2 CELL SURFACE RECEPTOR BY AN EMERGENT AFRICAN HENIPAVIRUS Benhur Lee^{1,2}, Olivier Pernet¹, Asim A. Ahmed³, Antra Zeltina⁴, Shannon M. Beaty², Thomas Bowden^{*4} ¹Department of Microbiology, Immunology & Molecular Genetics, David Geffen School of Medicine at UCLA, Los Angeles, ²Department of Microbiology, Icahn School of Medicine at Mount Sinai, New York, ³Division of Infectious Disease, Boston Children's Hospital, Boston, United States, ⁴Division of Structural Biology, University of Oxford, Oxford, United Kingdom
15:30-15:40 10'	41	STRUCTURAL ANALYSIS OF INFLUENZA VIRUS MEMBRANE FUSION BY ELECTRON CRYOTOMOGRAPHY Lesley J. Calder^{*1}, Peter B. Rosenthal¹ ¹National Institute for Medical Research / Francis Crick Institute, London, United Kingdom
15:40-15:50 10'	42	THE USE OF SHOTGUN GLYCOMICS TO IDENTIFY ENDOGENOUS RECEPTORS FOR INFLUENZA VIRUSES IN NATURAL TISSUES Lauren Byrd-Leotis^{*1}, David F. Smith^{2,3}, David A. Steinhauer¹, Richard D. Cummings^{3,4} ¹Department of Microbiology and Immunology, Emory University School of Medicine, ²The Glycomics Center, Emory University, ³Department of Biochemistry, ⁴The Glycomics Center, Emory University School of Medicine, Atlanta, United States

15:50-16:50 Coffee break
Posters Session I-IV

16:50-17:10 20'	43	THE F SPECIFICITY OF THE PARAINFLUENZA VIRUS HN IS NOT DEFINED SOLELY BY THE PRIMARY STRUCTURE OF THE HN STALK DOMAIN Masato Tsurudome ^{*1} , Morihiro Ito ² , Machiko Nishio ³ , Tetsuya Nosaka ¹ ¹ Microbiology and Molecular Genetics, Mie University Graduate School of Medicine, Tsu, ² Biomedical Sciences, Chubu University, Nagoya, ³ Microbiology, Wakayama Medical University, Wakayama, Japan
17:10-17:30 20'	44	NEAR-ATOMIC STRUCTURE OF THE HELICAL MEASLES VIRUS NUCLEOCAPSID Irina Gutsche ^{*1} , Ambroise Desfosses ² , Grégory Effantin ³ , Wai Li Ling ³ , Rob W. Ruigrok ¹ , Carsten Sachse ² , Guy Schoehn ¹ ¹ UVHCI, Grenoble, France, ² EMBL, Heidelberg, Germany, ³ IBS, Grenoble, France.
17:30-17:50 20'	45	LIMITING TYPE-1 INTERFERON AMPLIFICATION PHARMACOLOGICALLY DURING INFLUENZA VIRUS INFECTION BY GPCR-LIGAND INDUCED IFNAR1 TRAFFICKING AND TURNOVER John Teijaro ^{*1} , Department of Immunology and Microbial Science and Chemical Physiology, The Scripps Research Institute, United States
17:50-18:10 20'	46	IMPACT OF AMINO ACID SUBSTITUTIONS IN THE P-BINDING DOMAIN OF THE MEV NUCLEOPROTEIN ON VIRAL RNA SYNTHESIS Marion Dosnon ¹ , Joanna Brunel ² , Véronique Hamon ³ , Jenny Erales ⁴ , Antoine Gruet ⁴ , Christophe Bignon ¹ , Philippe Roche ³ , Sonia Longhi ¹ , Denis Gerlier ^{*2} ¹ AFMB, Aix-Marseille University, CNRS, Marseille, ² Immunobiologie des Infections Virales, CIRI, INSERM U1111, CNRS UMR5308, Université Lyon 1, ENS de Lyon, Lyon, ³ Centre de Recherche en Cancérologie de Marseille, CNRS, UMR7258 ; INSERM U1068 ; Institut Paoli-Calmettes, and Aix-Marseille Université UM 105, ⁴ Architecture et Fonction des Macromolécules Biologiques CNRS , Aix-Marseille University, Marseille, France.

Monday, June 15
Session II

18:30 Free evening and guided tours



Tuesday June 16

Session III: RNA Synthesis

Chairpersons: Amiya Banerjee and Danielle Blondel

09:00-09:10: Chairpersons's remarks

09:10-09:30 20'	68	STRUCTURE AND FUNCTION OF THE RNA SYNTHESIS MACHINERY OF VESICULAR STOMATITIS VIRUS Bo Liang ^{1,3} , Zongli Li ^{2,4} , Simon Jenni ³ , Amal A. Rahmeh ¹ , Benjamin M. Morin ¹ , Tim Grant ⁵ , Nikolaus Grigorieff ⁵ , Stephen C. Harrison ^{3,4} , Sean P.J. Whelan¹ ¹ Department of Microbiology and Immunobiology, ² Department of Cell Biology, ³ Department of Biological Chemistry and Molecular Pharmacology, and ⁴ Howard Hughes Medical Institute, Harvard Medical School, Boston, MA 02115 ⁵ Howard Hughes Medical Institute, Janelia Research Campus, 19700 Helix Dr, Ashburn, VA 20147
09:30-09:50 20'	69	DIVERGENT SEGMENTED NEGATIVE STRAND VIRAL POLYMERASES HAVE THE SAME ARCHITECTURE AND MODE OF REGULATION BY VIRAL RNA Juan Reguera^{*1} , Piotr Gerlach ¹ , Helene Malet ¹ , Stephen Cusack ¹ ¹ Structural Biology - Grenoble Outstation, European Molecular Biology Laboratory, Grenoble, France.
09:50-10:00 10'	70	X-RAY STRUCTURE AND ACTIVITIES OF AN ESSENTIAL MONONEGAVIRALES L-PROTEIN DOMAIN Axelle Collet^{*1} , Guido C. Paesen ² , Corinne Sallamand ³ , Françoise Debart ³ , Jean-Jacques Vasseur ³ , Bruno Canard ¹ , Etienne Decroly ¹ , Jonathan M. Grimes ² ¹ AFMB, UMR 7257, Marseille, France, ² Division of Structural Biology, Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom, ³ IBMM, UMR 5247, Montpellier, France.
10:00-10:10 10'	71	STRUCTURE OF THE INFLUENZA C VIRUS RNA-DEPENDENT RNA POLYMERASE Narin Hengrung^{*1} , Kamel El Omari ¹ , Itziar Serna Martin ¹ , Karl Harlos ¹ , Frank Vreede ² , Stephen Cusack ³ , Robert Rambo ⁴ , Clemens Vonrhein ⁵ , Gérard Bricogne ⁵ , David Stuart ¹ , Jonathan Grimes ¹ , Ervin Fodor ² ¹ Structural Biology, ² Sir William Dunn School of Pathology, University of Oxford, Oxford, United Kingdom, ³ Grenoble Outstation, EMBL, Grenoble, France, ⁴ Diamond Light Source, Didcot, ⁵ Global Phasing, Cambridge, United Kingdom.
10:10-10:30 20'	72	UNIQUE INTERACTIONS OF THE MUMPS VIRUS PHOSPHOPROTEIN WITH ITS NUCLEOCAPSID Ming Luo^{*1} , Robert Cox ² , Richard Plemper ² , Adrian Pickar ³ , James Zengel ³ , Biao He ³ ¹ Chemistry, ² Institute of Biomedical Sciences, Georgia State University, Atlanta, ³ Department of Infectious Diseases, College of Veterinary Medicine, University of Georgia, Athens, United States.

10:30-11:30 Coffee break
Posters Session I-IV

11:30-11:50 20'	73	FUNCTIONAL AND STRUCTURAL ANALYSIS OF THE INTERACTION BETWEEN INFLUENZA VIRUS POLYMERASE AND THE SPLICEOSOMAL RED-SMU1 COMPLEX Guillaume Fournier¹, Laura Tengo², Julie Magnus¹, Chiayn Chiang¹, Sandie Munier¹, Andru Tomoiu¹, Caroline Demeret¹, Pierre-Olivier Vidalain³, Yves Jacob¹, Rob W Ruigrok², Thibaut Crépin², Nadia Naffakh^{*1} ¹Unité de Génétique Moléculaire des Virus à ARN, Institut Pasteur, CNRS UMR 3569, Université Paris Diderot, Paris, ²Unit of Virus-Host Cell Interactions, UMI 3265 UJF-EMBL-CNRS, Grenoble, ³Laboratoire de Chimie et Biochimie Toxicologiques et Pharmacologiques, Université Paris-Descartes, CNRS UMR 8601, Paris, France.
11:50-12:10 20'	74	INFLUENZA VIRUS EXPLOITS HOST KINASES TO REGULATE NP OLIGOMERIZATION AND ASSEMBLY OF THE VIRAL REPLICATION MACHINERY Arindam Mondal¹, Anthony R. Dawson¹, Gregory K. Potts², Joshua J. Coon³, Andrew Mehle^{*1} ¹Medical Microbiology and Immunology, ²Chemistry, ³Chemistry, Biomolecular Chemistry, University of Wisconsin Madison, Madison, United States.
12:10-12:30 20'	75	A PREDICTED DYNEIN LIGHT CHAIN 1 BINDING MOTIF IN RABIES VIRUS L PROTEIN IS INVOLVED IN MICROTUBULE REORGANIZATION AND PRIMARY TRANSCRIPTION Anja Bauer¹, Tobias Nolden¹, Sabine Nemitz¹, Eran Perlson², Stefan Finke^{*1} ¹Institute of Molecular Virology and Cell Biology, Friedrich-Loeffler-Institut, Greifswald - Insel Riems, Germany, ²Dept. of Physiology and Pharmacology, Tel Aviv University, Tel Aviv, Israel.
12:30-12:40 10'	76	RNA-BINDING OF EBOLA VIRUS VP30 IS ESSENTIAL FOR ACTIVATING VIRAL TRANSCRIPTION Nadine Biedenkopf^{*1}, Julia Schlereth², Arnold Grünweller², Roland K. Hartmann², Stephan Becker¹ ¹Institute of Virology, ²Institute for Pharmaceutical Chemistry, Philipps University Marburg, Marburg, Germany.
12:40-12:50 10'	77	IDENTIFICATION OF A NOVEL VIRAL PROTEIN EXPRESSED FROM THE PB2 SEGMENT OF INFLUENZA A VIRUS Seiya Yamayoshi^{*1}, Mariko Watanabe¹, Hideo Goto¹, Masato Hatta², Yoshihiro Kawaoka^{1,2} ¹Division of Virology, Institute of Medical Science, University of Tokyo, Tokyo, Japan, ²Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, United States.

Tuesday, June 16
Session III

12:50-14:20 Lunch
Poster session I-IV

Session IV: Antiviral Response

Chairpersons: Adolfo Garcia-Sastre

14:20-14:30: Chairpersons's remarks

14:30-14:50 20'	103	IDENTIFICATION OF CONSERVED PARAMYXOVIRUS T CELL EPITOPES: DOES MEASLES VACCINATION PROTECT AGAINST ZONOTIC HENIPAVIRUS INFECTIONS? Rory D. De Vries¹, Alwin De Jong¹, R. J. Verburgh¹, Robert S. Van Binnendijk², Albert D. Osterhaus¹, Marion P. Koopmans¹, Rik L. De Swart^{*1} ¹Department of Viroscience, Erasmus MC, Rotterdam, ²Centre for Infectious Disease Control, National Institute for Public Health and the Environment, Bilthoven, Netherlands.
14:50-15:10 20'	104	LYMPHOCYTIC CHORIOMENINGITIS VIRUS DIFFERENTIALLY AFFECTS VIRUS-INDUCED TYPE I IFN RESPONSE AND MITOCHONDRIAL APOPTOSIS MEDIATED BY RIG-I/MAVS Christelle Pythoud¹, Sylvia Rothenberger¹, Stefan Kunz^{*1}, Luis Martinez-Sobrido², Juan Carlos de la Torre³ ¹Microbiology, Lausanne University Hospital, Lausanne, Switzerland, ²Microbiology and Immunology, University of Rochester, Rochester, ³Immunology and Microbial Sciences, Scripps Research Institute, La Jolla, United States.
15:10-15:30 20'	105	UNDERSTANDING THE ANTIVIRAL ACTION OF HUMAN MXA, STRUCTURAL AND FUNCTIONAL ANALYSIS OF TWO CRUCIAL MODULES. Georg Kochs^{*1}, Laura Graf¹, Corinna Patzina¹ ¹University Medical Center, Institute of Virology, Freiburg, Germany
15:30-15:40 10'	106	TARGETING IMPORTIN-A7 AS A THERAPEUTIC APPROACH AGAINST PANDEMIC INFLUENZA VIRUSES. Patricia Resa-Infante^{*1}, Duncan Paterson², Jaume Bonet³, Anna Otte¹, Baldo Oliva³, Ervin Fodor², Gülsah Gabriel¹ ¹Heinrich Pette Institute, Leibniz Institute for Experimental Virology, Hamburg, Germany, ²Sir William Dunn School of Pathology, University of Oxford, Oxford, United Kingdom, ³Structural Bioinformatics Lab (GRIB), Universitat Pompeu Fabra, Barcelona Research Park of Biomedicine (PRBB), Barcelona, Spain.
15:40-15:50 10'	107	MECHANISM OF CELL-INTRINSIC INNATE IMMUNE ANTAGONISM BY EBOLA VIRUS VP24 Megan Edwards^{*1}, Wei Xu², Dominika Borek³, Alicia Feagins¹, Anuradha Mittal⁴, Joshua Alinger², Benjamin Yen¹, Jennifer Hamilton¹, Audrey Diederichs¹, Juanli Pan², Toni Schwarz¹, Rohit Pappu⁴, Daisy Leung², Christopher Basler¹, Gaya Amarasinghe² ¹Microbiology, Icahn School of Medicine at Mount Sinai, New York, ²Pathology and Immunology, Washington University School of Medicine, St Louis, ³Biophysics and Biochemistry, University of Texas Southwestern Medical Center at Dallas, Dallas, ⁴Biomedical Engineering and Center for Biological Systems Engineering,, Washington University, St Louis, United States.

15:50-16:50 Coffee break
Poster Session I-IV

16:50-17:10 20'	108	HOST DEFENCE AND VIRAL COUNTER DEFENCE BY THE PLANT-INFECTING BUNYAVIRUS TSWV Dryas de Ronde ¹ , Marcio Hedil ¹ , Patrick Butterbach ¹ , Richard Kormelink^{*1} ¹ Laboratory of Virology, Wageningen University, Wageningen, Netherlands.
17:10-17:30 20'	109	ATTENUATION OF LYSSAVIRUSES: BIOTYPE II AND III PHOSPHOPROTEINS CANNOT INHIBIT IRF3 ACTIVATION AND INTERFERON INDUCTION IN HUMAN CELLS Marco Wachowius ¹ , Martina Rieder ¹ , Daniel Aberle ¹ , Karl-Klaus Conzelmann^{*1} ¹ Max von Pettenkofer-Institute & Gene Center, Ludwig-Maximilians-University Munich, Muenchen, Germany.
17:30-17:40 10'	110	C-TERMINAL REGION OF TOSCANA VIRUS NSS PROTEIN IS CRITICAL FOR INTERFERON-B ANTAGONISM AND PROTEIN STABILITY. Gianni Gori Savellini^{*1} , Claudia Gandolfo ¹ , Maria Grazia Cusi ¹ ¹ Medical Biotechnologies, University of Siena, Siena, Italy.
17:40-17:50 10'	111	EVIDENCE FOR A NOVEL MECHANISM OF INFLUENZA VIRUS-INDUCED TYPE I INTERFERON EXPRESSION BY A DEFECTIVE RNA-ENCODED PROTEIN Yvonne Börgeling^{*1} , Timofey Rozhdestvensky ² , Mirco Schmolke ³ , Patricia Resa Infante ⁴ , Thomas Robeck ² , Gerrit Randau ² , Thorsten Wolff ⁵ , Gülsah Gabriel ⁴ , Jürgen Brosius ² , Stephan Ludwig ¹ ¹ Institute of Molecular Virology, ² Institute of Experimental Pathology, University of Muenster, Münster, Germany, ³ Department of Microbiology and Molecular Medicine, University of Geneva, Geneva, Switzerland, ⁴ Heinrich Pette Institute, University of Hamburg, Hamburg, ⁵ Robert Koch Institute, Berlin, Germany.
17:50-18:10 20'	115	B-INTERFERON INDUCTION IN VSV-INFECTED CELLS: WHAT IS THE VIRAL RNA INDUCER? Jacques Perrault^{*1} , Chun-Teng Huang ^{1,1} ¹ Biology, San Diego State University, San Diego, United States

Tuesday, June 16
Session IV

19:00 Get together party :

*Chiostro di San Francesco, Piazza
San Francesco, 6*



Wednesday June 17

08:00-09:00 Put up posters for sessions V-VIII

Session V: Host cell interaction

Chairpersons: Christina Spiropoulou and Mirco Schmolke

09:00-09:10: Chair persons's remarks

09:10-09:30 20'	125	FUNCTIONS OF HUMAN PARAINFLUENZA VIRUS 3 HEMAGGLUTININ-NEURAMINIDASE RECEPTOR BINDING SITES IN FUSION ACTIVATION Matteo Porotto ¹ , Laura M. Palermo ¹ , <u>Anne Moscona</u> ^{*1} ¹ Microbiology & Immunology, Pediatrics, Weill Cornell Medical College, New York, United States.
09:30-09:50 20'	126	REVERSE GENETIC ANALYSIS OF BAT INFLUENZA VIRUS HARBORING THE ENTRY MACHINERY OF AN INFLUENZA A VIRUS <u>Martin Schwemmle</u> ^{*1} , Mindaugas Juozapaitis ¹ , Étori Aguiar Moreira ¹ , Ignacio Mena ² , Martin Beer ³ , Adolfo García-Sastre ² ¹ Institute of Virology, Freiburg, Germany, ² Icahn School of Medicine at Mount Sinai, New York, United States, ³ Friedrich-Loeffler-Institut, Insel Riems - Greifswald, Germany.
09:50-10:10 20'	127	EBOLA VIRUS ENTRY INTO MACROPHAGES Florian Wrensch ¹ , Franziska Dahlmann ¹ , Heike Hofmann-Winkler ¹ , Michael Winkler ¹ , Nadine Biedenkopf ² , Stephan Becker ² , <u>Stefan Pöhlmann</u> ^{*1} ¹ German Primate Center, Göttingen, ² Institute for Virology, Marburg, Germany.
10:10-10:20 10'	128	BISBENZYLISOQUINOLINES ARE POTENT ANTI-EBOLA VIRUS COMPOUNDS TARGETING HOST CELL ENTRY <u>Yasuteru Sakurai</u> ^{*1} , William E. Bauta ² , Mathew Mahindaratne ² , Ricardo Carrion Jr ¹ , Robert A. Davey ¹ ¹ Virology & Immunology, Texas Biomedical Research Institute, ² Medicinal and Process Chemistry, Southwest Research Institute, San Antonio, United States.
10:20-10:30 10'	129	HOST CELL FACTORS INVOLVED IN MARBURG VIRUS NUCLEOCAPSID TRANSPORT <u>Olga Dolnik</u> ^{*1} , Larissa Kolesnikova ¹ , Thomas Strecker ¹ , Gordian Schudt ¹ , Stephan Becker ¹ ¹ Institut für Virologie, Philipps-University Marburg, Marburg, Germany.

10:30-11:30 Coffee break

Posters Session V-VIII

11:30-11:50 20'	130	HOW DO PARAMYXOVIRUSES ESTABLISH PROLONGED/PERSISTENT INFECTIONS? LESSONS FROM STUDIES ON PARAINFLUENZA VIRUS TYPE 5. Dan F. Young ¹ , Elizabeth Wignall-Fleming ^{1,2} , Daniel Eldeman ³ , Elizabeth Randall ¹ , Andrew Davison ² , Steve Goodbourn ⁴ , <u>Richard Randall</u> ^{*1} ¹ University of St Andrews, St Andrews, ² University of Glasgow, Glasgow, United Kingdom, ³ Ruprecht-Karls-Universität, Heidelberg, Germany, ⁴ St. George's, University of London, London, United Kingdom.
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11:50-12:10 20'	131	IDENTIFICATION OF EBOLA VIRUS AND SUDAN VIRUS DEFECTIVE VIRAL GENOMES IN SERUM OF EXPERIMENTALLY INFECTED NONHUMAN PRIMATES Kendra Alfson ¹ , Heather M Menzie ¹ , Jean Patterson ¹ , Ricardo Carrion ¹ , Anthony Griffiths ^{*1} ¹ Virology and Immunology, Texas Biomedical Research Institute, San Antonio, United States.
12:10-12:30 20'	132	DIFFERENTIAL INHIBITION OF MACROPHAGES AND DENDRITIC CELLS BY PATHOGENIC AND NONPATHOGENIC ARENAVIRUSES Yuying Liang ^{*1} , Junji Xing ¹ , Hinh Ly ^{1 1} University of Minnesota, St Paul, United States.
12:30-12:40 10'	133	ACUTE LUNG INJURY RESULTS FROM INNATE SENSING OF VIRUSES BY AN ER STRESS PATHWAY Eike R. Hrncius ^{*1} , Swantje Liedmann ² , David Finkelstein ³ , Peter Vogel ⁴ , Shane Ganseboom ¹ , Amali E. Samarasinghe ⁵ , Dahui You ⁵ , Stephania A. Cormier ⁵ , Jonathan A. McCullers ^{1,5} ¹ Department of Infectious Diseases, St. Jude Children's Research Hospital, Memphis, United States, ² Institute of Molecular Virology (IMV), University of Muenster, Muenster, Germany, ³ Department of Computational Biology, ⁴ Department of Veterinary Pathology, St. Jude Children's Research Hospital, ⁵ Department of Pediatrics, University of Tennessee Health Science Center, Memphis, United States.
12:40-12:50 10'	134	CELLULAR RNA EDITING ENZYME ADAR1 INTERACTS WITH INFLUENZA A VIRUS PROTEINS DURING INFECTION AND ENHANCES VIRUS REPLICATION THROUGH INHIBITION OF IRF3 Nikki Smith ^{*1} , Artur A. Arikainen ² , Tali Pechenick-Jowers ¹ , Helen Wise ¹ , Julian A. Hiscox ³ , Paul Digard ¹ ¹ Roslin Institute, The University of Edinburgh, Edinburgh, ² University of Cambridge, Cambridge, ³ Institute of Infection and Global Health, University of Liverpool, Liverpool, United Kingdom.

12:50-14:20 Lunch
Poster session V-VIII

Session V: Host cell interaction

Chairpersons: Jean Patterson and Otto Haller

14:20-14:30: Chairperson's remarks

14:30-14:50 20'	135	MECHANISMS OF PARAINFLUENZA VIRUS DISSEMINATION, PATHOGENESIS, AND TRANSMISSION IN A MOUSE MODEL John N. Mason ¹ , Heba H. Mostafa ¹ , Crystal W. Burke ¹ , Peter Vogel ² , Julia L. Hurwitz ¹ , Ashok Srinivasan ³ , Charles J. Russell ^{*1} ¹ Infectious Diseases, ² Pathology, ³ BMTCT, St. Jude Children's Research Hospital, Memphis, United States.
14:50-15:10 20'	136	INTERFERON-LAMBDA CONTROLS THE SPREAD OF INFLUENZA VIRUSES FROM THE UPPER RESPIRATORY TRACT TO THE LUNGS AND RESTRICTS VIRUS TRANSMISSION IN MICE

Wednesday, June 17
Session IV / V

		Jonas Klinkhammer ¹ , Daniel Schnepf ¹ , Marilena Schwaderlapp ¹ , Tanel Mahlakõiv ¹ , Peter Staeheli ^{*1} ¹ Virology, University of Freiburg, Freiburg, Germany
15:10-15:30 20'	137	AN EPITHELIAL INTEGRIN REGULATES THE AMPLITUDE OF PROTECTIVE LUNG INTERFERON RESPONSES TO INFLUENZA AND SENDAI VIRUS INFECTIONS Stacey Schultz-Cherry ^{*1} , Victoria A. Meliopoulos ¹ , Lee Ann Van de Velde ² , Peter J. Murray ² ¹ Infectious Diseases, ² Infectious Diseases and Immunology, St Jude Children's Research Hospital, Memphis, United States.
15:30-15:40 10'	138	THE INFLUENZA A VIRUS PROTEIN NS1 INHIBITS NLRP3 INFLAMMASOME-MEDIATED INTERLEUKIN-1BETA SECRETION Miyu Moriyama ^{*1,2,3} , I-Yin Chen ¹ , Haruko Takeyama ³ , Hideki Hasegawa ² , Takeshi Ichinohe ¹ ¹ Department of Virology, University of Tokyo, ² Department of Pathology, National Institute of Infectious Diseases, ³ Faculty of Science and Engineering, Waseda University, Tokyo, Japan.
15:40-15:50 10'	139	MAPPING OF A REGION IMPORTANT FOR SHUT-OFF ACTIVITY IN THE PA-X PROTEIN OF INFLUENZA A VIRUS Kohei Oishi ^{*1} , Seiya Yamayoshi ¹ , Yoshihiro Kawaoka ^{1,2,3} ¹ Division of Virology, University of Tokyo, ² Special Pathogens, International Research Center for Infectious Diseases, Medical Science, University of Tokyo, Tokyo, Japan, ³ Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, United States.

15:50-16:50 Coffee break

Posters Session V-VIII

16:50-17:10 20'	140	THE FOCAL ADHESION KINASE IS INVOLVED IN RABIES VIRUS INFECTION THROUGH ITS INTERACTION WITH THE VIRAL PHOSPHOPROTEIN P Baptiste FOUQUET ¹ , Jovan NIKOLIC ¹ , Florence LARROUS ² , Hervé BOURHY ² , Christoph WIRBLICH ³ , Cecile LAGAUDRIERE-GESBERT ^{*1} , Danielle BLONDEL ¹ ¹ Department of Virology, Institute for Integrative Biology of the Cell, CNRS UMR9198, GIF SUR YVETTE, ² Unit Lyssavirus Dynamics and Host Adaption, Institut Pasteur, Paris, France, ³ Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, United States.
17:10-17:30 20'	141	NUCLEAR FUNCTION OF THE RESPIRATORY SYNCYTIAL VIRUS MATRIX PROTEIN Reena Ghildyal ^{*1} , David Jans ² , Michael Teng ³ , John Mills ² ¹ Centre for Research in Therapeutic Solutions, University of Canberra, Bruce, ² Monash University, Melbourne, Australia, ³ University of South Florida, Tampa, United States.
17:30-17:50 20'	142	INFLUENZA A VIRUS PROTEIN PB1-F2 TRANSLOCATES INTO MITOCHONDRIA VIA TOM40 CHANNELS AND IMPAIRS INNATE IMMUNITY. Takeshi Ichinohe ^{*1} , Takuma Yoshizumi ² , Takumi Koshiba ² ¹ Department of Virology, University of Tokyo, Tokyo, ² Department of Biology, Kyushu University, Kyushu, Japan.
17:50-18:00 10'	143	A NOVEL HOST FACTOR PROMOTES THE NUCLEAR EXPORT OF INFLUENZA VIRAL RIBONUCLEOPROTEIN COMPLEXES Tomomi Ando ^{*1} , Seiya Yamayoshi ¹ , Shinji Watanabe ^{1,2} , Tokiko Watanabe ¹ ,

		Yoshihiro Kawaoka ^{1,3} ¹ Division of Virology, Institute of Medical Science, University of Tokyo, ² Influenza Virus Research Center, National Institute of Infectious Diseases, Tokyo, Japan, ³ Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, United States.
18:00-18:10 10'	144	UNRAVEL MOLECULAR MECHANISMS OF INFLUENZA NS1 PROTEIN AND HOST CELL PKR INTERACTION BY USING LIVE CELL MULTICOLOR FLIM-FRET AND ANISOTROPY Fabian Jolmes ^{*1} , Kristina Schierhorn ² , Claus Seidel ³ , Thorsten Wolff ² , Andreas Herrmann ¹ ¹ Molecular Biophysics, Humboldt Universität zu Berlin, ² Division of Influenza and Other Respiratory Viruses, Robert Koch-Institut, Berlin, ³ Molecular Physical Chemistry, Heinrich Heine University, Bochum, Germany.

Thursday June 18

Session VI: Pathogenesis

Chairpersons: Veronica von Messling and Yoshihira Kawaoka

09:00-09:10 Chairpersons's remarks

09:10-09:30 20'	198	PROLONGED MULTIPHASIC B AND T CELL RESPONSES DURING MEASLES VIRUS INFECTION AND RNA CLEARANCE Diane E. Griffin ^{*1} , Nicole Putnam ^{1,1} , Ashley Nelson ¹ , Debra Hauer ¹ , Victoria Baxter ¹ , Robert Adams ² ¹ Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, ² Molecular and Comparative Pathobiology, Johns Hopkins School of Medicine, Baltimore, United States.
09:30-09:50 20'	199	IMMUNE BIOMARKERS OF EBOLA VIRUS DISEASE IN HUMANS Anja Luedtke ¹ , Lisa Oestereich ² , Paula Ruibal ² , Romy Kerber ² , Martin Gabriel ² , Babak Afrough ³ , Johanna Repits ⁴ , Beate Becker-Ziaja ² , Sophie Duraffour ² , Miles Carroll ³ , Pierre Formenty ⁵ , N'faly Magassouba ⁶ , Stephan Guenther ² , Cesar Munoz-Fontela ^{*1} ¹ Heinrich-Pette-Institut, Leibniz Institute For Experimental Virology, ² Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, ³ Public Health England at Porton Down, Porton Down, United Kingdom, ⁴ Janssen, Pharmaceutical Companies of Johnson and Johnson, Hamburg, Germany, ⁵ World Health Organization, Geneva, Switzerland, ⁶ Laboratoire des Fièvres Hémorragiques en Guinée, Conakry, Guinea.
09:50-10:10 20'	200	DISSECTING THE DYNAMICS OF INFLUENZA VIRUS TRANSMISSION. Ruth A. Elderfield ¹ , Rebecca Cocking ¹ , Kim L. Roberts ² , Holly Shelton ³ , Konrad Bradley ¹ , Neeltje van Doremalen ⁴ , Mirian Fernandez Alonso ⁵ , Shahjahan Miah ⁶ , Peter Stilwell ⁷ , Jonathan Ashcroft ¹ , Angie Lackenby ⁶ , Wendy S.

Thursday, June 18
Session VI

		<u>Barclay</u>^{*1} ¹Virology, Imperial College London, LONDON, United Kingdom, ²Department of Microbiology, Moyne Institute of Preventive Medicine, Trinity College, Dublin, Ireland, ³Avian Infectious Diseases, The Pirbright Institute, Compton Laboratory, Newbury, United Kingdom, ⁴Laboratory of Virology, National Institute of Allergy and Infectious Disease, Hamilton MT, United States, ⁵Microbiology, Universidad de Navarra, Pamplona, Spain, ⁶Centre for Infections, Public Health England, London, ⁷Environment and Sustainability Institute, University of Exeter, Penryn, United Kingdom.
10:10-10:20 10'	201	SHED GP OF EBOLA VIRUS RENDERS MONOCYTES PERMISSIVE TO INFECTION <u>Beatriz Escudero Pérez</u>^{*1}, Olga Dolnik², Thierry Walzer¹, Olivier Reynard¹, Philip Lawrence¹, Viktor Volchkov¹ ¹Molecular Basis of Viral Pathogenicity, CIRI - INSERM U1111 - CNRS UMR5308, Lyon, France, ²Institute of Virology, Philipps University Marburg, Marburg, Germany.
10:20-10:30 10'	202	HOST AND VIRAL DETERMINANTS OF PROTEOLYTIC ACTIVATION OF INFLUENZA VIRUSES <u>Kouji Sakai</u>^{*1}, Yasushi Ami¹, Minori Kitazawa^{1,2}, Katsuhiko Nakajima^{1,2}, Tsuyoshi Sekizuka¹, Noriko Nakajima¹, Masaki Anraku¹, Maino Tahara¹, Toru Kubota¹, Katsuhiko Komase¹, Kazuaki Takehara², Takato Odagiri¹, Makoto Kuroda¹, Hideki Hasegawa¹, Yoshihiro Kawaoka^{3,4}, Masato Tashiro¹, Makoto Takeda¹ ¹National Institute of Infectious Diseases, ²Tokyo University of Agriculture and Technology, ³The University of Tokyo, Tokyo, Japan, ⁴University of Wisconsin, Madison, WI, United States.

10:30-11:30 Coffee-break
Posters Session V-VIII

Session VII: Vaccines and antivirals and therapeutics

Chairpersons: Martin Billeter, Thomas Pietschmann and Kanta Subbarao

11:30-11:40: Chairpersons's remarks

11:40-12:00 20'	225	ENGINEERED ONCOLYTIC NEWCASTLE DISEASE VIRUS SHOWS GREAT PROMISES FOR VIROTHERAPY Xing Cheng¹, Weijia Wang¹, Qi Xu¹, James Harper², Danielle Carroll², <u>Hong Jin</u>^{*1} ¹Research, Medimmune, Mountain View, United States, ²Research, Medimmune, Cambridge, United Kingdom.
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12:00-12:20 20'	226	PAN-RESISTANCE MECHANISM OF RESPIRATORY SYNCYTIAL VIRUS AGAINST DIVERSE SMALL-MOLECULE ENTRY INHIBITORS Richard K. Plemper* ¹ , Dan Yan ¹ , Marco Weisshaar ¹ , Martin L. Moore ² ¹ Institute for Biomedical Sciences, Georgia State University, ² Pediatrics, Emory University, Atlanta, United States.
12:20-12:40 20'	227	INHIBITION OF THE ANDES HANTAVIRUS FUSION PROCESS Gonzalo P. Barriga ¹ , Fernando Villalon ¹ , Simon Vidal ¹ , Chantal Marquez ¹ , Gonzalo Mardones ² , Nicole Tischler* ^{1,3} ¹ Molecular Virology Laboratory, Fundacion Ciencia & Vida, Santiago, ² Departamento de Fisiologia, Facultad de Medicina, Universidad Austral de Chile, Valdivia, ³ Facultad de Ciencias Biologicas, Universidad Andres Bello, Santiago, Chile.
12:40-12:50 10'	228	INHIBITORS OF CELLULAR KINASES WITH BROAD-SPECTRUM ANTIVIRAL ACTIVITY FOR HEMORRHAGIC FEVER VIRUSES Mike Flint* ¹ , Emma L. Mohr ^{1,2} , Laura K. McMullan ¹ , Michael Lo ¹ , Jessica Spengler ¹ , Eric Bergeron ¹ , Cesar Albarino ¹ , Punya Shrivastava-Ranjan ¹ , Chiang Cheng-Feng ¹ , Stuart Nichol ¹ , Christina Spiropoulou ¹ ¹ Viral Special Pathogens Branch, Centers for Disease Control and Prevention, ² Department of Pediatrics, Emory University, Atlanta, United States.
12:50-13:00 10'	229	AN IN VITRO RNA SYNTHESIS ASSAY FOR MEASLES VIRUS DEMONSTRATES THAT NON-NUCLEOSIDE ANALOGS BLOCK POLYMERASE INITIATION Benjamin Morin* ¹ , Linda J. Rennick ² , W. Paul Duprex ² , Sean P. J. Whelan ¹ ¹ Microbiology and Immunobiology, Harvard Medical School, ² Microbiology, Boston University School of Medicine, Boston, United States.

13:00-14:30 Lunch
Posters VI-VIII

14:30-14:50 20'	230	DELETION OF THE RESPIRATORY SYNCYTIAL VIRUS M2-2 ORF YIELDS A HIGHLY ATTENUATED LIVE VACCINE CANDIDATE WITH INCREASED IMMUNOGENICITY IN YOUNG CHILDREN Ruth R. Karron ¹ , Cindy Luongo ² , Bhagvanji Thumar ¹ , Janet Englund ³ , Peter L. Collins ² , Ursula J. Buchholz* ² ¹ Center for Immunization Research, Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, ² RNA Viruses Section, NIAID, NIH, Bethesda, ³ Seattle Children's Research Institute, University of Washington, Seattle, United States.
14:50-15:10 20'	231	THE STRUCTURALLY RELATED FUSION PROTEINS OF HUMAN RESPIRATORY SYNCYTIAL VIRUS AND METAPNEUMOVIRUS ARE ANTIGENICALLY AND IMMUNOGENICALLY DISSIMILAR José A. Melero* ¹ , Vicente Mas ¹ , Concepción Palomo ¹ , Laura Rodriguez ¹ , Eduardo Olmedillas ¹ , Alfonsina Trento ¹ , Monica Vazquez ¹ , Olga Cano ¹ , Barney Graham ² , Bernadette vand den Hoogen ³ , Jason McLellan ⁴ , Michelle Tom ⁵ , Geraldine Taylor ⁵ ¹ Centro Nacional de Microbiología and CIBER de Enfermedades Respiratorias, Instituto de Salud Carlos III, Madrid, Spain, ² Vaccine Research Center, NIH, Bethesda, United States, ³ Erasmus Medical Center, Erasmus University, Rotterdam, Netherlands, ⁴ Biochemistry, Gesel School of Medicine,

Thursday, June 18
Session VII

		Dartmouth, United States, ⁵ Virology, The Pirbright Institute, Pirbright, United Kingdom
15:10-15:30 20'	232	HUMAN MONOCLONAL ANTIBODY DEVELOPMENT FROM FILOVIRUS SURVIVORS IN UGANDA <u>John M. Dye</u> ^{*1} , Leslie Lobel ² , Julius J. Lutwama ³ ¹ Virology, USAMRIID, Fort Detrick, United States, ² Virology, Ben-Gurion University, Beer Sheva, Israel, ³ Arbovirology, Uganda Virus Research Institute, Entebbe, Uganda.
15:30-15:40 10'	233	A RECOMBINANT NOVIRHABDOVIRUS EXPRESSING PORTIONS OF DENGUE VIRUS (DENV) E GLYCOPROTEINS AS VACCINE AGAINST DENV IN A MICE MODEL <u>Ronan N. Rouxel</u> ^{*1} , Emilie Mérour ¹ , Julie Bernard ¹ , Sophie Chat ² , Michel Brémont ¹ ¹ VIM, ² GPL, INRA, Jouy-en-Josas, France.
15:40-15:50 10'	234	BRAIN ORGANOTYPIC CULTURE MODEL AS A USEFUL TOOL FOR DRUGS DISCOVERY AND SCREENING AGAINST NEUROTROPIC VIRUSES <u>Jeremy C. Welsch</u> ^{*1} , Louis-Marie Bloyet ¹ , Anne Moscona ² , Matteo Porotto ² , Branka Horvat ¹ , Denis Gerlier ¹ , Cyrille Mathieu ¹ ¹ CIRI-Lyon, INSERM, Lyon, France, ² Pediatrics, Microbiology, Immunology, Weill Medical College of Cornell University, New York, United State.s

15:50-16:50 Coffee break
Posters V-VIII

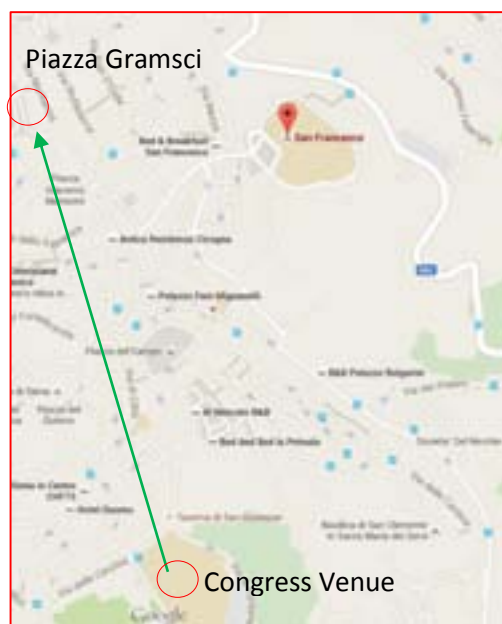
16:50-17:10 20'	235	NONSPREADING RIFT VALLEY FEVER VIRUS INFECTION OF HUMAN DENDRITIC CELLS RESULTS IN DOWNREGULATION OF CD83 AND FULL MATURATION OF BYSTANDER CELLS Nadia Oreshkova ¹ , <u>Paul J. Wichgers Schreur</u> ^{*1} , Lotte Spel ² , Rianka P. M. Vloet ¹ , Rob J. M. Moormann ¹ , Marianne Boes ² , Jeroen Kortekaas ¹ ¹ Virology, Central Veterinary Institute, Lelystad, ² Department of Pediatric Immunology and Laboratory of Translational Immunology, University Medical Centre Utrecht/Wilhelmina Children's Hospital, Utrecht, Netherlands.
17:10-17:20 10'	236	IMPROVING THE THERAPEUTIC TREATMENT OF ACUTE RESPIRATORY VIRUS INFECTION VIA INTRAVENOUS LIPOSOMAL DELIVERY OF SIRNA TO THE LUNG. <u>Daniel Clarke</u> ^{*1} , Jana McCaskill ² , Adriana Pliego-Zamora ¹ , Keith Chappell ³ , Paul Young ³ , Nigel McMillan ¹ ¹ Menzies Health Institute Queensland, Griffith University, Gold Coast, ² Diamantina Institute, University of Queensland, ³ Australian Infectious Diseases Research Centre, University of Queensland, Brisbane, Australia.
17:20-17:30 10'	237	A NOVEL RNA VIRUS VECTOR SYSTEM FOR RNAI THERAPIES BASED ON BORNA DISEASE VIRUS <u>Tomoyuki Honda</u> ^{*1} , Yusuke Yamamoto ¹ , Yusuke Matsumoto ² , Akiko Makino ¹ , Keizo Tomonaga ¹ ¹ Institute for Virus Research, Kyoto University, Kyoto, ² Wakayama Medical University, Wakayama, Japan.

17:30-17:50 20'	238	POST EXPOSURE PROTECTION AGAINST ZAIRE AND SUDAN EBOLAVIRUS IN LETHAL MOUSE MODELS BY HUMAN IMMUNOGLOBULINS PRODUCED IN TRANSCHROMOSOMAL CATTLE Callie Bounds^{*1}, Steven Kwilas¹, Jennifer Brannan¹, Russell Bakken¹, Barry Ellefsen², Drew Hannaman², Eddie Sullivan³, Connie Schmaljohn⁴ ¹Virology, United States Army Medical Research Institute of Infectious Disease, Fort Detrick, ²Ichor Medical Systems, Inc, San Diego, ³SAB Biotherapeutics, Inc, Sioux Falls, ⁴S & T, United States Army Medical Research Institute of Infectious Disease, Fort Detrick, United States.
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19:30 Bus to Gala dinner:

Certosa di Pontignano, Residenza d'Epoca, Pontignano, 53019 Pontignano SI

19:30 Buses depart at Piazza Gramsci



Friday June 19

Session VIII: Natural and unnatural virus evolution

Chairpersons: Jens Kuhn

09:30-09:40: Chair persons's remarks

09:40-10:00 20'	278	NUCLEOTIDE SEQUENCE CONSERVATION IN PARAMYXOVIRUSES; THE CONCEPT OF CODON CONSTELLATION. Bertus Rima * ¹ ¹ Centre for Infection and Immunity, Queen's University, Belfast, Belfast, United Kingdom
10:00-10:10 10'	284	DIVIDE AND CONQUER: CREATION OF A FOUR-SEGMENTED RIFT VALLEY FEVER VACCINE VIRUS Paul Wichgers Schreur * ¹ , Jet Kant ¹ , Nadia Oreshkova ^{1,2} , Lucien van Keulen ¹ , Rob Moormann ^{1,2} , Jeroen Kortekaas ¹ ¹ Virology, Central Veterinary Institute, part of Wageningen University and Research Centre, Lelystad, ² Infectious Diseases and Immunology, Faculty of Veterinary Medicine, Utrecht University, Utrecht, Netherlands.
10:10-10:20 10'	280	A RAPID CELL-FREE STRATEGY TO DETERMINE THE LIKELY IMPACT OF VIRAL EVOLUTION ON ANTIGEN DETECTION SYSTEMS Divya Nandamudi * ^{1,2} , Laura Sherwood ¹ , John Garza ¹ , Alex Taylor ³ , John Hart ³ , Andrew Hayhurst ^{1,2} ¹ Virology, Texas Biomedical Research Institute, ² Microbiology & Immunology, ³ Biochemistry, University of Texas Health Science Center at San Antonio, San Antonio, United States.
10:20-10:30 10'	281	EFFICIENT CLONING OF COMPLETE NNSV FULL-LENGTH GENOMES BY REC-E / REC-T MEDIATED RECOMBINATION TO CREATE GENETICALLY MODIFIED FIELD ISOLATES. Tobias Nolden * ¹ , Stefan Finke ¹ ¹ Institute of Molecular Virology and Cell Biology, Friedrich-Loeffler-Institute, Greifswald Isle of Riems, Germany.

**10:30-11:30 Coffee break-
Poster session VI-VIII**

11:30-11:50 20'	282	IDENTIFICATION OF A NOVEL SWINE H1N2 INFLUENZA A VIRUS IN CHILE Marco Saavedra ¹ , Karla Tapia ¹ , Victor M. Neira ² , Rafael A. Medina * ^{1,3,4} ¹ Pediatric Infectious Diseases and Immunology, Pontificia Universidad Catolica de Chile, ² Ciencias Veterinarias y Pecuarias, FAVET, Universidad de Chile, ³ Instituto Milenio en Inmunologia e Inmunoterapia, Pontificia Universidad Catolica de Chile, Santiago, Chile, ⁴ Department of Microbiology, Icahn School of Medicine at Mount Sinai, New York, United States.
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11:50-12:00 10'	283	THE EFFECT OF RIFT VALLEY FEVER VIRUS P78 PROTEIN ON VIRUS REPLICATION, SPREAD AND DISSEMINATION IN THE MOSQUITO VECTOR Felix Kreher* ¹ , Carole Tamietti ² , Anna-Bella Failloux ³ , Michèle Bouloy ⁴ , Marie Flamand ² , Richard M. Elliott ¹ ¹ MRC-University of Glasgow Centre for Virus Research, Glasgow, United Kingdom, ² Structural Virology, ³ Arboviruses and Insect Vectors, ⁴ Molecular Genetics of Bunyaviruses, Institut Pasteur, Paris, France.
12:00-12:10 10'	279	IN VITRO EVOLUTION OF PERSISTENT RABIES VIRUS. Alexander Ghanem* ¹ , Maximilian F. Eizinger ¹ , Karl K. Conzelmann ¹ ¹ Max v Pettenkofer-Institute and Gene Center, LMU Munich, Muenchen, Germany.
12:10-12:30 20'	285	IMPACT OF EBOLA VIRUS GENOMIC DRIFT ON THE EFFICACY OF SEQUENCE-BASED CANDIDATE THERAPEUTICS Gustavo Palacios* ¹ ¹ Center for Genome Sciences, USAMRIID, Frederick, United States.
12:30-12:50 20'	286	MODELING THE EVOLUTIONARY TRAJECTORIES OF AN EXPANDING MORBILLIVIRUS GENUS Sham Nambulli ¹ , Andrew S. Acciardo ¹ , Linda J. Rennick ¹ , Mehraj Awal ¹ , Andrey Tovchigrechko ² , Reed S. Shabman ² , Timothy B. Stockwell ² , David E. Wentworth ² , Andrea Rasche ³ , J F. Drexler ⁴ , Bertus K. Rima ⁵ , Claire R. Sharp ⁶ , W Paul Duprex* ¹ ¹ Microbiology , Boston University, Boston, ² J. Craig Venter Institute, Rockville, United States, ³ School of Medicine, Bonn University, ⁴ School of Medicine, Bonn University, Bonn, Germany, ⁵ School of Medicine, Dentistry and Biomedical Sciences, The Queen's University of Belfast, Belfast, United Kingdom, ⁶ Cummings School of Veterinary Medicine, Tufts University, Grafton, United States.

12:20

Lunch and beer session / End of meeting

Posters

Session I: In out and moving about

Poster 11

EXPLORING MARBURGVIRUS NUCLEOPROTEIN INTERACTION WITH MATRIX PROTEIN VP40

Tamarand Darling^{*1,2}, Laura Sherwood², Andrew Hayhurst^{1,2}

¹Microbiology and Immunology, University of Texas Health Science Center at San Antonio, ²Virology and Immunology, Texas Biomedical Research Institute, San Antonio, United States

Poster 12

THE ARENAVIRUS MATRIX PROTEIN PPXY LATE DOMAIN DRIVES THE PRODUCTION OF DEFECTIVE INTERFERING PARTICLES

Chris Ziegler^{*1}

¹Medicine, University of Vermont, Burlington, United States

Poster 13

CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS ENTRY INTO HOST CELLS OCCURS THROUGH THE MULTIVESICULAR BODY AND REQUIRES ESCRT REGULATORS

Olena Shtanko^{*1}, Raisa A. Nikitina², Cengiz Z. Altuntas³, Alexander A. Chepurnov², Robert A. Davey⁴

¹Virology and Immunology, Texas Biomedical Research Institute, San Antonio, United States, ²Laboratory of Regulation of Immunopoiesis, Institute for Clinical Immunology, Novosibirsk, Russian Federation, ³Texas Institute of Biotechnology Education and Research, North American University, Houston, ⁴Texas Biomedical Research Institute, San Antonio, United States

Poster 15

EBOLA VIRUS INTERNALIZATION INTO CELLS BY MACROPINOCYTOSIS IS DEPENDENT ON AUTOPHAGY-MEDIATING PROTEINS

Olena Shtanko^{*1}, Ann N. Reyes¹, Robert A. Davey¹

¹Virology and Immunology, TEXAS BIOMEDICAL RESEARCH INSTITUTE, San Antonio, United States

Poster 16

UNDIAGNOSED ACUTE VIRAL FEBRILE ILLNESSES IN SIERRA LEONE

Randal J. Schoepp^{*1}

¹Diagnostic Systems Division, USAMRIID, Fort Detrick, United States

Poster 17

DECIPHERING THE ASSEMBLY OF MULTI-SEGMENT GENOME COMPLEXES IN INFLUENZA A VIRUS (IAV)

Simon Prisner^{*1}, Ivan Haralampiev¹, Matthias Schade¹, Jasmine Chamiolo², Andreas Herrmann¹

¹AG Molecular Biophysics, ²AG Bioorganic Synthesis, Humboldt-Universität zu Berlin, Berlin, Germany

Poster 18

THE STEM REGION OF TYPE II TRANSMEMBRANE SERINE PROTEASES IS DETERMINANT OF INFLUENZA VIRUS ACTIVATION AND A TARGET FOR ANTIVIRAL INHIBITION

Pawel Zmora^{*1}, Anna-Sophie Moldenhauer¹, Stefan Pöhlmann¹

¹Infection Biology Unit, German Primate Center, Goettingen, Germany

Poster 19

MEASLES VIRUS IS ENDOCYTOSED AND INDUCES MACROPINOCYTOSIS IN SLAM-POSITIVE CELLS

Daniel Goncalves Carneiro^{*1}, Dalan Bailey¹

¹School of Immunity and Infection, University of Birmingham, Birmingham, United Kingdom

Poster 20**IDENTIFICATION OF A NEURONAL RECEPTOR FOR WILD TYPE MEASLES VIRUS**

Hannah Abdullah¹, John P. Earle¹, Adam Jeffers¹, Misako Yoneda², Chieko Kai², Sara Louise Cosby^{*1} Centre for Infection and Immunity, School of Medicine, Dentistry and Biomedical Sciences, Queen's University Belfast, Belfast, United Kingdom, ²Laboratory Animal Research Center, Institute of Medical Science, University of Tokyo, Tokyo, Japan

Poster 21**INFLUENZA VIRUS REPLICATION DECREASES SIALIC ACID ON THE CELL**

Yukari Miyake¹, Maiko OBANA², Jaebun CHO², Madoka TAKAI², Ayae HONDA^{*1}

¹Frontier Bioscience, Hosei university, Koganei, ²Graduate school of Bioengineering, University of Tokyo, Bunkyo, Japan

Poster 22**ANALYSIS OF THE ASSEMBLY AND BUDDING OF LUJO VIRUS**

Shuzo Urata^{*1}, Yukiko Miyazaki¹, Jiro Yasuda¹

¹Department of Emerging Infectious Diseases, Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan

Poster 23**IGF2 IS INVOLVED IN THE REGULATION OF BORNA DISEASE VIRUS PRODUCTION**

Akiko Makino^{*1}, Tomoyuki Honda¹, Keizo Tomonaga¹

¹Institute for Virus Research, Kyoto University, Kyoto, Japan

Poster 24**TETHERIN MEDIATED INHIBITION OF MEASLES VIRUS**

Joe Alderman¹, Daniel Goncalves Carneiro¹, Dalan Bailey^{*1}

¹Medical School, University of Birmingham, Birmingham, United Kingdom

Poster 25**THE HEPTAD REPEAT C DOMAIN IN THE RESPIRATORY SYNCYTIAL VIRUS F PROTEIN PLAYS A KEY ROLE IN VIRUS MEDIATED MEMBRANE FUSION**

Imogen M. Bermingham^{*1}, Daniel Watterson^{1,2}, Keith J. Chappell^{1,3}, Paul R. Young^{1,3}

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THE ROLES OF PHOSPHORYLATION OF THE NUCLEOCAPSID PROTEIN OF MUMPS VIRUS IN REGULATING VIRAL RNA TRANSCRIPTION AND REPLICATION

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PARTICIPATION OF INTERNAL SEQUENCES WITHIN THE 5' AND 3' NON CODING REGIONS IN ARENAVIRUS RNA TRANSCRIPTION AND REPLICATION

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THE USE OF A HYBRIDIZATION-BASED PATHOGEN ENRICHMENT STRATEGY TO ENHANCE THE DETECTION AND IDENTIFICATION OF HENIPAVIRUSES.

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HOST CELL TYPE AFFECTS FORMATION OF DEFECTIVE INTERFERING PARTICLES IN WILD-TYPE AND VACCINE STRAINS OF MEASLES VIRUS

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MASS-SPECTROMETRY BASED PROFILING OF PKR-INTERACTION PARTNERS IN THE COURSE OF INFLUENZA A VIRUS INFECTIONS

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THE SMALL HYDROPHOBIC PROTEIN OF MUMPS VIRUS INFLUENCES NF-KB AND MAPK ERK SIGNALLING PATHWAYS

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MISMATCHES IN RNA DUPLEXES PREVENT RIG-I ACTIVATION

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THE NUCLEOPROTEIN OF NEWLY EMERGED H7N9 INFLUENZA A VIRUS HARBORS A UNIQUE MOTIF CONFERRING RESISTANCE TO ANTIVIRAL HUMAN MXA.

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NSS PROTEIN OF SFTS VIRUS SUPPRESSES INTERFERON PRODUCTION THROUGH DIFFERENT WAYS FROM RIFT VALLEY FEVER VIRUS

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GENERATION OF RECOMBINANT SCHMALLENBERG VIRUS NUCLEOCAPSID PROTEIN AND ITS APPLICATION IN SEROLOGICAL TESTS

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LLOV VP24 AND VP35 PROTEINS FUNCTION AS INNATE IMMUNE ANTAGONISTS IN BAT AND HUMAN CELLS

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DISTINCT REGIONS OF THE NIV C PROTEIN ARE INVOLVED IN SUPPRESSING VIRAL REPLICATION AND THE HOST IFN- β RESPONSE

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IDENTIFICATION OF CELLULAR FACTORS INFLUENCING INFLUENZA A VIRUS REPLICATION IN PRIMARY HUMAN RESPIRATORY CELLS

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VIRO-INDUCED-COMPARTMENTALIZATION : THE CASE OF NEGRI BODIES FORMED IN RABIES VIRUS INFECTED CELLS

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DISSECTING CANINE DISTEMPER VIRUS PATHOLOGY AND PATHOGENESIS AT THE LIGHT OF NATURALLY-OCCURRING HEMAGGLUTININ FUNCTIONAL CHANGES

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RANDOM MUTAGENESIS OF INFLUENZA A PB2 RESIDUES 701 AND 702 EXHIBIT HETEROGENEOUS TEMPERATURE SENSITIVITY AND VIRAL GROWTH IN DIFFERENT HOST SYSTEMS

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CHARACTERIZATION OF THE HEMAGGLUTININ OF BAT-DERIVED INFLUENZA VIRUSES

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HOST SIGNALING PATHWAYS INVOLVED IN ANTIBODY-DEPENDENT ENHANCEMENT OF EBOLA VIRUS INFECTION

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IDENTIFICATION OF HOST FACTORS INVOLVED IN INFLUENZA VIRUS REPLICATION

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OPENING THE CAGE ON INFLUENZA REPLICATION IN HUMAN MACROPHAGES

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EXPLOITING THE REVERSE GENETIC SYSTEM FOR SEVERE FEVER WITH THROMBOCYTOPENIA SYNDROME VIRUS TO STUDY NSS FUNCTION

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COMPARATIVE RESPIRATORY SYNCYTIAL VIRUS INFECTION OF HUMAN UPPER AND LOWER RESPIRATORY TRACT AIRWAY EPITHELIUM

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INFECTION OF EPITHELIAL CELLS IS REQUIRED FOR EFFICIENT MORBILLIVIRUS TRANSMISSION

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ANTIBODY-INDUCED INTERNALIZATION OF RSV F PROTEIN EXPRESSED ON THE SURFACE OF INFECTED CELLS AND CELLS EXPRESSING A RECOMBINANT PROTEIN

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ANTIBODIES DIRECTED TOWARDS NEURAMINIDASE CONTROL DISEASE IN A MOUSE-MODEL OF INFLUENZA
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QUANTITATIVE PROTEOMIC ANALYSIS OF PROTEIN SIGNATURES RELATED TO PERMISSIVE VS. NON-PERMISSIVE INFLUENZA A VIRUS INFECTIONS IN HUMAN HOST CELLS

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MUTATION OF SERPINE1 IN MICE INCREASED SUSCEPTIBILITY TO INFLUENZA A VIRUS INFECTION DUE TO INCREASED VASCULAR LEAKAGE AND VIRUS DISSEMINATION

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STREPTOCOCCUS SUIIS AFFECTS THE REPLICATION OF SWINE INFLUENZA VIRUS IN PORCINE TRACHEAL CELLS

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ADVERSE OUTCOMES OF SEASONAL INFLUENZA A VIRUS INFECTION IN PREGNANT MOUSE MODEL

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DEFECTIVE VIRAL GENOMES AS CRITICAL DANGER SIGNALS DURING RESPIRATORY SYNCYTIAL VIRUS INFECTION

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ENTRY-DEPENDENT INNATE SIGNALING OF INFLUENZA H1N1 VIRUSES IN HUMAN MACROPHAGES

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MEASLES FUSION MACHINERY IS DYSREGULATED IN NEUROPATHOGENIC VARIANTS

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CHD1 CHROMATIN REMODELER IS A POSITIVE MODULATOR OF INFLUENZA VIRUS REPLICATION THAT PARALLELS RNAP II DEGRADATION IN THE INFECTED CELLS

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RESPIRATORY SYNCYTIAL VIRUS NS2 INDUCES MONO-UBIQUITINATION OF HOST PROTEINS

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CELL-TYPE SPECIFIC REGULATION OF ADHERENS JUNCTION PATHWAYS IN RESPONSE TO FILOVIRUS INFECTION

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MAPPING THE IMMUNOSTIMULATORY ACTIVITY OF A SENDAI VIRUS DEFECTIVE VIRAL GENOME

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JUNIN VIRUS BLOCKS PKR-MEDIATED PHOSPHORYLATION OF EIF2ALPHA

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KNOCKDOWN OF THE CELLULAR PROTEASE TMPRSS2 INHIBITS INFLUENZA A VIRUS GROWTH IN HUMAN CELL CULTURES

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THE CELLULAR STRESS RESPONSE AS AN ANTIVIRAL MECHANISM DURING EBOLA VIRUS INFECTION

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UNDERSTANDING THE ROLES OF PHOSPHORYLATION OF RSV P IN VIRUS REPLICATION: IDENTIFICATION OF AKT PHOSPHORYLATION SITES

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THE INFLUENZA VIRUS PROTEIN PB1-F2 INTERACTS WITH CALCOCO2 (NDP52) TO MODULATE INNATE IMMUNE RESPONSE

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DISSECTING THE INTERACTION BETWEEN NIPAH VIRUS P GENE ENCODED PROTEINS AND NF-KB PATHWAY

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A MOLECULAR SENSOR TO CHARACTERIZE ARENAVIRUS ENVELOPE GLYCOPROTEIN CLEAVAGE BY SUBTILISIN KEXIN ISOZYME 1 (SKI-1)/SITE 1 PROTEASE (S1P)

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NOVEL HOST FACTOR-DEPENDENT INFLUENZA A VIRUS VRNA SYNTHESIS FROM ITS CRNA

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IDENTIFICATION OF A NOVEL INTERACTING PROTEIN WITH NIPAH VIRUS V PROTEIN.

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INVOLVEMENT OF DNA DAMAGE RESPONSE IN BORNA DISEASE VIRUS INFECTION

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TRANSCRIPTIONAL REGULATORY NETWORK FOR COMPREHENSIVE DOWNREGULATION OF HOUSEKEEPING GENES INDUCED BY MORBILLIVIRUS INFECTION

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INTERACTION BETWEEN THE NIPAH VIRUS NONSTRUCTURAL C PROTEIN AND PROTEIN PHOSPHATASE 2A INHIBITOR SUPPRESSES INFLAMMATORY CYTOKINE INDUCTION

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UTILISATION OF HIGH-THROUGHPUT SEQUENCING TO INVESTIGATE A RABIES EPIZOOTIC FOLLOWING CROSS-SPECIES TRANSMISSION OF VIRUS FROM DOGS TO FOXES

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INVESTIGATING THE MITOCHONDRIAL FUNCTIONS OF THE PB2 SUBUNIT OF THE INFLUENZA VIRUS POLYMERASE

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A COMPARATIVE STUDY OF RESPIRATORY SYNCYTIAL VIRUS (RSV) INFECTION OF MURINE MACROPHAGE CELL LINES REVEALS REMARKABLE DIFFERENCES IN SUSCEPTIBILITY.

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IDENTIFICATION OF ANP32B/APRIL AS A NOVEL HOST PROTEIN INTERACTING WITH INFLUENZA VIRUS RIBONUCLEOPROTEINS

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THE ADAPTATION OF AVIAN INFLUENZA VIRUSES TO THE RESPIRATORY EPITHELIUM OF PIGS

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L-SIGN AS AN ATTACHMENT FACTOR FOR PHLEBOVIRUSES

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LASSA VIRUS INFECTION IN HUMAN BRONCHIAL EPITHELIAL CELLS

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DC-SIGN ENHANCES TICK CELL-DERIVED UUKUNIEMI VIRUS INFECTION

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USE OF INTERFERON-STIMULATED GENES CDNA OVEREXPRESSION TO SCREEN INFLUENZA VIRUS-HOST INTERACTIONS IN PRIMARY HUMAN RESPIRATORY EPITHELIAL CELLS

Ariel Rodriguez-Frandsen*¹, Miriam Dutra¹, Jessica von Recum-Knepper¹, Manuel Ruidiaz², Numana Bhat¹, Paul De Jesus¹, Randy Albrecht³, Susanne Heynen-Genel², Adolfo Garcia-Sastre³, Sumit K. Chanda¹

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ESTABLISHING A HUMAN EX VIVO LUNG TISSUE MODEL TO CHARACTERIZE HOST FACTORS ESSENTIAL FOR INFLUENZA A VIRUS INFECTION AND IDENTIFY NOVEL DRUG TARGETS

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A GENOME-WIDE RNAI SCREEN IDENTIFIES A ROLE FOR WNT/BETA-CATENIN SIGNALING DURING BUNYAVIRAL REPLICATION

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PPMO-KNOCKDOWN OF CELLULAR GENE EXPRESSION AFFECTS INFLUENZA VIRUS GROWTH IN THE LUNGS OF MICE

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THE NIPAH VIRUS P/V/W/C COMPLEX CONTRIBUTES IN MULTIPLE WAYS TO THE PATHOGENESIS AND DISEASE COURSE IN THE FERRET MODEL.

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SYSTEMIC POLYARTERITIS NODOSA AS THE CAUSE OF SUDDEN-ONSET BILATERAL SENSORINEURAL DEAFNESS IN A PRIMATE AFTER EXPERIMENTAL INFECTION WITH LASSA VIRUS

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COMPARATIVE PATHOGENESIS OF MARBURG VIRUS STRAINS IN SYRIAN GOLDEN HAMSTERS

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CORTICOSTEROIDS DO NOT PREVENT PATHOGENESIS IN THE SYRIAN HAMSTER MODEL OF HANTAVIRUS PULMONARY SYNDROME

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INNATE IMMUNE RESPONSES ELICITED BY SIN NOMBRE VIRUS PROTECT HAMSTERS FROM LETHAL ANDES VIRUS-INDUCED HANTAVIRUS PULMONARY SYNDROME

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AVIAN RECEPTOR BINDING INFLUENZA VIRUS ADAPTS RAPIDLY IN FERRETS TO TRANSMIT BY AEROSOLS

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DEVELOPMENT OF A HANTAAN VIRUS MINIREPLICON SYSTEM FOR DRUG-SCREENING

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MEASLES VIRUS HAS THE ABILITY TO INFECT CHICKEN EMBRYONIC FIBROBLASTS THROUGH CHICKEN NECTIN-4

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A MOUSE MODEL FOR SEVERE FEVER WITH THROMBOCYTOPENIA SYNDROME

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GENERATION OF A RECOMBINANT TRI-SEGMENTED MOPEIA VIRUS FOR ANTIVIRAL SCREENING

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IMPROVING VIROLOGIC SURVEILLANCE FOR MEASLES

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MMR VACCINATION IN HUMANS ELICITS A CROSS-NEUTRALIZING RESPONSE AGAINST A NOVEL MUMPS-LIKE VIRUS SEQUENCED FROM AFRICAN BATS

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DOES HOST EVOLUTION LIMIT THE DISTRIBUTION OF CENTRAL EUROPEAN PUUMALA VIRUS?

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ANTIGENIC AND GENETIC VARIATION OF H5 HIGHLY PATHOGENIC AVIAN INFLUENZA VIRUSES IN DOMESTIC DUCKS IN VIETNAM

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UTILITY OF ILLUMINA MISEQ WHOLE GENOME SEQUENCING FOR THE MOLECULAR EPIDEMIOLOGY OF MEASLES VIRUS

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MOLECULAR EPIDEMIOLOGY OF MEASLES AND MUMPS VIRUSES DETECTED IN THE US DURING 2014

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RAPID AND SENSITIVE DETECTION OF BAT INFLUENZA VIRUSES BY REAL TIME RT-PCR ASSAYS

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WITHIN HOST EVOLUTION AND CROSS-SPECIES TRANSMISSION OF EQUINE INFLUENZA VIRUS NON-STRUCTURAL PROTEIN NS1

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MOLECULAR EPIDEMIOLOGY AND GENETIC VARIABILITY OF HUMAN RESPIRATORY SYNCYTIAL VIRUS (HRSV) IN CROATIA, 2011-2014

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EVOLUTIONAL ANALYSIS OF A RECOMBINANT SENDAI VIRUS EXPRESSING THE HUMAN MAVS PROTEIN

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MOLECULAR EPIDEMIOLOGY OF INFLUENZA VIRUSES IN SHOREBIRD IN CHILE.

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MOLECULAR CHARACTERIZATION OF EBOLA ZAÏRE ADAPTATION TO THE SYRIAN GOLDEN HAMSTER

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DIVERSITY OF SINGLE NUCLEOTIDE VARIANTS AND RNA EDITING OF PLUS AND MINUS RNA STRANDS FROM MEASLES VIRUS.

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