



Oral Program

Sunday, October 1, 2017	
11:00-13:00	Registration Room: Hotel Lobby North/Assembly Foyer
Room	South Ballroom
13:00-13:15	Opening Remarks, Editorial Organizers
13:15-14:15	Opening Keynote: Anthony S. Fauci, NIAID, USA Emerging and Re-Emerging Infectious Diseases: From AIDS to Zika [KEY1]
14:15-17:45	Session 1: Genomics & Evolution Session Chair: Akiko Iwasaki, Yale University
14:15-14:45	George Fu Gao, Chinese Academy of Sciences, China Enveloped virus entry: From Flu to Ebola [INV01]
14:45-15:00	[ST01] Functional Evolution of Zika Virus in the Americas N.D. Grubaugh*, C. Ontiveros, R. Agarwal, T. Rogers, N. Beutler, K. Gangavarapu, G. Oliveira, R. Robles-Sikisaka, D. Burton, K.G. Andersen <i>The Scripps Research Institute, USA</i>
15:00-15:15	[ST02] Characterization of a clade-defining Ebola virus glycoprotein mutant from the 2013-2016 epidemic W.E. Diehl ¹ , D. Mu ¹ , A.E. Lin ³ , M. Cabot ² , K.G. Andersen ⁴ , J.H. Kuhn ⁶ , P. Sabeti ³ , B. Ganser-Pornillos ² , J. White ² , J. Luban ^{*1} et al ¹ University of Massachusetts Medical School, USA, ² University of Virginia, USA, ³ Harvard University, USA, ⁴ The Scripps Research Institute, USA, ⁵ University of Edinburgh, UK, ⁶ NIAID, USA
15:15-15:45	Gustavo Palacios, USAMRIID Center for Genomic Sciences, USA Near real-time genomics applications in clinical virology and biosurveillance [INV02]
15:45-16:15	Refreshment Break Room: North Ballroom
16:15-16:45	Linfa Wang, Duke-NUS Medical School, Singapore Programme in emerging infectious diseases [INV03]
16:45-17:00	[ST03] Immune correlates of protection from a universal influenza vaccine during intra- and intersubtypic heterologous challenge with H1, H6, H7 and H10 influenza viruses J.C. Kash ^{*1} , K.A. Walters ² , L.M. Schwartzman ¹ , S. Fong ¹ , X. Yang ¹ , J.K. Park ¹ , J.K. Taubenberger ¹ ¹ National Institute of Allergy and Infectious Diseases, USA, ² Institute for Systems Biology, USA
17:00-17:15	[ST04] Molecular basis for differential regulation of innate immune responses by Ebola and Marburg viruses G.K. Amarasinghe ^{*1} , A. Bukreyev ² , D.W. Leung ¹ , C.F. Basler ³ ¹ Washington University in St. Louis, USA, ² University of Texas, USA, ³ Georgia State University, USA
17:15-17:30	[ST05] Elucidating host and viral contributions to flavivirus virulence in vivo F. Douam*, G. Hrebikova, R. Leach, Y. Sharon, L. Parson ² , W. Wang, J. Gaska, B. Heller, Q. Ding ¹ , A. Ploss <i>Princeton University, USA</i>
17:30-17:45	[ST06] EphrinB2 receptor binding induces allosteric changes in Nipah virus attachment protein G J.J. Wong ^{*1} , T.A. Young ² , J. Zhang ³ , S. Liu ³ , G.P. Leser ⁵ , E.A. Komives ⁴ , R.A. Lamb ⁵ , Z.H. Zhou ³ , J. Salafsky ² , T.S. Jardetzky ¹ et al ¹ Stanford University, USA, ² Biodesy Inc., USA, ³ University of California Los Angeles, USA, ⁴ University of California San Diego, USA, ⁵ Northwestern University, USA
17:45-19:00	Welcome Drinks Reception Room: North Ballroom

Monday, October 2, 2017

Room	South Ballroom
09:00-11:45	Session 2: Emergence and Surveillance <i>Session Chair: Sara Cherry, University of Pennsylvania</i>
09:00-09:30	Peter Daszak, EcoHealth Alliance, USA TBC [INV04]
09:30-10:00	Zhengli Shi, Wuhan Institute of Virology, China SARS coronavirus may have originated from frequent recombination events between SL-CoVs in a single horseshoe bat habitat [INV05]
10:00-10:15	[ST07] Interferon-γ-driven iNOS: a molecular pathway to terminal shock in arenavirus hemorrhagic fever M.M. Remy ^{1,2} , M. Sahin ^{*1} , L. Flatz ^{2,3} , T. Regen ^{4,5} , L. Xu ¹ , M. Kreuzfeldt ⁶ , B. Fallet ¹ , B.A. Kaufmann ¹ , D. Merkler ⁶ , D.D. Pinschewer ^{1,2} et al ¹ University of Basel, Switzerland, ² University of Geneva, Switzerland, ³ Kantonspital St. Gallen, Switzerland, ⁴ Georg-August-University, Germany, ⁵ Johannes Gutenberg University, Germany, ⁶ University and University Hospital of Geneva, Switzerland
10.15-10.45	Refreshment Break Room: North Ballroom
Room	South Ballroom
10:45-11:15	Yoshihiro Kawaoka, University of Wisconsin-Madison, USA Working with deadly viruses: battling Ebola and influenza [INV06]
11:15-11:30	[ST08] Multifrontal countermeasures by Zika virus to subvert type I interferon signaling J.R. Bowen ¹ , K.M. Quicke ¹ , M.G. Zimmerman ¹ , E.L. Johnson ¹ , J.T. O'Neal ¹ , C.E. McDonald ² , R. Chakraborty ¹ , B. Pulendran ² , M.S. Suthar ^{*1} ¹ Emory University, USA, ² Stanford University, USA
11:30-11:45	[ST09] Organotypic human models of type III interferon-mediated protection from Zika virus infections at the maternal-fetal interface J. Corry ^{1,2} , N. Arora ^{1,2} , C.B. Coyne ^{*1,2} ¹ University of Pittsburgh, USA, ² Children's Hospital of Pittsburgh of UPMC, USA
11:45-11:55	Bio-techne Travel Award Presentation
11:55-12:05	Poster Teasers 1
12:05 - 13:30	Lunch Room: North Ballroom
12:30 -13:30	Meet the Editors Session Room: South Ballroom
13:30-15:00	Poster Session 1 Room: North Ballroom
Room	South Ballroom
15:00-17:30	Session 3: Innate and Cellular Responses <i>Session Chair: George Gao, Chinese Academy of Sciences</i>
15:00-15:30	Adolfo Garcia Sastre, Mount Sinai School of Medicine, USA Regulation of influenza virus sensing and antiviral responses by host and virus factors [INV07]
15:30-16:00	Akiko Iwasaki, Yale University, USA Immune responses and pathogenesis of Zika virus infection [INV08]
16:00-16:30	Refreshment break Room: North Ballroom
Room	South Ballroom
16:30-17:00	Michael Diamond, Washington University School of Medicine at St. Louis, USA Using mouse models to study the pathogenesis and immune response to zika virus [INV09]
17:00-17:30	Sara Cherry, University of Pennsylvania, USA Using functional genomics to explore arbovirus-host interactions [INV10]
17:30-18:00	SPECIAL TALK: Richard Preston, Author, USA
19:00-22:00	Meet the Speakers Dinner Room: North Ballroom

Tuesday, October 3, 2017

Room	South Ballroom
09:00-11:45	Session 4: Antibody Responses <i>Session Chair: Adolfo Garcia Sastre, Mount Sinai School of Medicine, USA</i>
09:00-09:30	Erica Ollmann Saphire, The Scripps Research Institute, USA TBC [INV11]
09:30-10:00	Nancy Sullivan, NIAID, USA TBC [INV12]
10:00-10:30	Sheemei Lok, Duke-NUS Medical School, Singapore Zika virus and its antibody structures [INV13]
10:30-10:45	[ST10] Maternal immunity and antibodies to dengue can promote Zika virus-induced microcephaly in fetuses A.P.S. Rathore ^{3,1} , W.A. Saron ¹ , T. Lim ¹ , A.L. St. John ^{*1,2} ¹ Duke-NUS Medical School, Singapore, ² National University of Singapore, Singapore, ³ Duke University, USA
10.45-11.05	Refreshment Break Room: North Ballroom
Room	South Ballroom
11:05-16:15	Session 5: Vaccines & Therapeutics <i>Session Chair: Julie Stacey, Editor, EBiomedicine</i>
11:05-11:35	James Crowe, Vanderbilt University School of Medicine, USA Antibody mediated neutralization of emerging viral threats [INV14]
11:35-12:05	Dan Barouch, Ragon Institute of MGH, MIT and Harvard, USA Preclinical and Clinical Development of Zika Virus Vaccines [INV15]
12:05-12:20	[ST11] Targeting Tfr1-tropic arenaviruses at their achilles heel: structure-based rational design of universal immunotherapy H. Cohen-Dvashi, R. Diskin* Weizmann Institute of Science, Israel
12:20-12:30	Poster Teasers 2
12:30-13:30	Lunch Room: North Ballroom
13:30-15:00	Poster Session 2 Room: North Ballroom
Room	South Ballroom
15:00-15:30	Luciano Moreira, Centro de Pesquisas René Rachou, Brazil Wolbachia as an arbovirus control strategy [INV16]
15:30-15:45	[ST12] Viral oral infections in Drosophila are cleared independently of RNAi and increase resistance to further infections J.A. Mondotte*, V. Gausson, L. Frangeul, H. Blanc, L. Lambrechts, M.C. Saleh Institut Pasteur, France
15:45-16:15	Johan Neyts, KU Leuven, Belgium Antivirals, a lot has been achieved, yet a long way to go [INV17]
16:15-16:30	Poster winners & Closing Remarks