

Keystone Symposia in Hong Kong

Framing the Response to Emerging Virus Infections

The University of Hong Kong | Pok Fu Lam, Hong Kong | October 14–18, 2018

Organized in collaboration with the Croucher Foundation and The University of Hong Kong

Scientific Organizers:

Ralph A. Tripp, University of Georgia, USA

Suresh Mahalingam, Griffith University, Australia

John W. Lowenthal, Australia

Andrew G. Bean, Commonwealth Scientific and Industrial Research Organization, Australia

Malik Peiris, The University of Hong Kong, Hong Kong

Emerging and re-emerging viruses have the potential to cause high morbidity and mortality and range from localized outbreaks to epidemics. Due to their emerging nature, most aspects of the biology and infectious potential of these viruses are poorly understood. Our continuing struggle to respond to a procession of pandemics, including SARS, avian influenza, MERS, Ebola and more recently Zika, highlights key gaps in our knowledge and should serve to motivate our re-thinking as to how we can better prepare and deal with future unknown viral threats. This conference will focus on important areas such as surveillance, diagnostics and countermeasures and other important advances in new technologies and how they are being applied to research. Furthermore, we will discuss how to facilitate the translation of research, data and candidate treatments through the development pipeline in a timely and cost-effective manner. The key themes to be covered include the need to understand why zoonotic diseases matter, their association with agriculture, the importance of surveillance and early detection, and the difficulties of dealing with diseases that involve both medical and veterinary communities. The conference will bring together experts in virology, immunology, vaccinology and epidemiology with those who seek to transfer knowledge between these groups, veterinarians and industry and government. Further, this meeting is designed to bring together individuals involved in the control of these diseases in government and non-government organizations, as well as those involved in study of zoonosis and countermeasures. The creation of global networks and sharing of information will ensure that we are better prepared for future outbreaks.

Plenary Session Topics:

- Zika Virus: Biology and Host Interactions
- ZIKV Diagnostics and Countermeasures
- Ebola Virus: Biology and Host Interactions
- Ebola Virus: Vaccines and Therapeutics
- Zoonotic Influenza
- MERS and Influenza Viruses: Immunity and Vaccines
- Emerging Disease Preparedness Research
- Drivers of Disease and Emerging Viral Infections – Late-Breaking Developments
- Outbreak Preparedness and Responses

Travel Award Deadline: May 15, 2018; Scholarship/Discounted Abstract Deadline: Jun 14, 2018;

Abstract Deadline: Jul 17, 2018; Discounted Registration Deadline: Aug 14, 2018

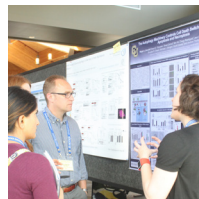
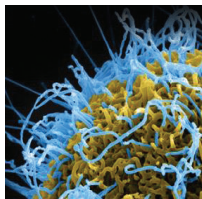
Visit www.keystonesymposia.org/18S2 for more details.



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Framing the Response to Emerging Virus Infections (S2)

October 14-18, 2018 • Lee Shau Kee Lecture Centre, Centennial Campus, The University of Hong Kong • Pok Fu Lam, Hong Kong

Scientific Organizers: Ralph A. Tripp, Suresh Mahalingam, John W. Lowenthal, Andrew G. Bean and Malik Peiris

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SUNDAY, OCTOBER 14

Arrival and Registration

MONDAY, OCTOBER 15

Welcome and Keynote Address

Speaker to be Announced

Zika Virus: Biology and Host Interactions

Michael S. Diamond, Washington University School of Medicine, USA
Talk Title to be Announced

Tatjana Avsic-Zupanc, Institute of Microbiology and Immunology, Slovenia
Zika Virus Associated with Microcephaly

Scott C. Weaver, University of Texas Medical Branch, USA
Zika Virus: Biology and Host Interactions

Short Talk(s) Chosen from Abstracts

Poster Session 1

ZIKV Diagnostics and Countermeasures

Rajeev V. Venkayya, Takeda Pharmaceutical Company, USA
Talk Title to be Announced

Nicholas Jackson, Sanofi Pasteur, France
Zika Virus: Knowledge Gaps and Vaccine Research and Development Challenges

Speaker to be Announced

Short Talk Chosen from Abstracts

TUESDAY, OCTOBER 16

Ebola Virus: Biology and Host Interactions

Speaker to be Announced

Heinz Feldmann, Rocky Mountain Laboratories, USA
Animal Models of Ebola Virus

Ebola Virus: Vaccines and Therapeutics

Ana Maria Henao-Restrepo, World Health Organization, Switzerland
Talk Title to be Announced

Erica Ollmann Saphire, The Scripps Research Institute, USA
Antibodies Against Ebola Virus: A Global Collaboration

Short Talk(s) Chosen from Abstracts

Zoonotic Influenza

Yi Guan, University of Hong Kong, Hong Kong
Talk Title to be Announced

Leo Poon, University of Hong Kong, Hong Kong
Talk Title to be Announced

Speaker to be Announced

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, OCTOBER 17

MERS and Influenza Viruses: Immunity and Vaccines

Ralph S. Baric, University of North Carolina at Chapel Hill, USA
Rapid Response Strategies to Control Emerging Coronavirus Infections

Bart L. Haagmans, Erasmus MC, Netherlands
MERS Coronavirus: from Discovery to Intervention

Jincun Zhao, Guangzhou Institute of Respiratory Disease, China
Immune Responses in MERS-CoV Infected Mice and Humans

KY Yuen, University of Hong Kong, Hong Kong
Host Cellular Protein Facilitating Viral Replication

Ralph A. Tripp, University of Georgia, USA
Short Talk: Virus-Host Interactions, Development of Vaccine Cell Lines

Poster Session 3

Emerging Disease Preparedness Research

Marion P.G. Koopmans, Erasmus MC, Netherlands
Challenges and Opportunities in Global Disease Detection

Gavin J.D. Smith, Duke-NUS Graduate Medical School, Singapore
Surveillance for Risk Assessment and Prediction

Anna-Bella Failloux, Institute Pasteur, Paris, France
Mosquito-Borne Disease Expansion

Linfa Wang, Duke-NUS Medical School, Singapore
Bat-Borne Diseases

Suresh Mahalingam, Griffith University, Australia
Short Talk

THURSDAY, OCTOBER 18

Drivers of Disease and Emerging Viral Infections – Late Breaking Developments

Peter Daszak, EcoHealth Alliance, USA
Emerging Infectious Diseases of Wildlife

Malik Peiris, University of Hong Kong, Hong Kong
Emerging Virus Disease at the Animal-Human Interface

Andrew G. Bean, Commonwealth Scientific and Industrial Research Organization, Australia
Short Talk

Outbreak Preparedness and Responses I

Ted M. Ross, University of Georgia, USA
Broadly Protective Influenza Vaccines: Protection Against Mismatch – Bettering Standard of Care

Stephen Whitehead, NIAID, National Institutes of Health, USA
Evaluation of Live Attenuated Vaccines for Dengue and Zika Viruses (and Their Challenge Models)

Outbreak Preparedness and Responses II

Scott B. Halstead, Dengue Vaccine Initiative, South Korea
Design of Effective Zika Vaccines: Lessons from Dengue

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Mario Barro, Sanofi Pasteur, USA

Talk Title to be Announced

John W. Lowenthal, , Australia

A Strategy for Developing a MERS Camel Vaccine in order to Protect Humans

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

FRIDAY, OCTOBER 19

Departure