International Conference on Influenza

London, UK  August 24-26, 2015

Scientific Program

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### Day 1  August 24, 2015

**Opening Ceremony**

#### Keynote Forum

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<td>09:25-09:30</td>
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| 09:30-10:00| For the control of avian and human influenza  
Hiroshi Kida, Hokkaido University, Japan |
| 10:00-10:30| Both PB1 473V mutation in RNA polymerase activity and NP sumoylation plays an important role in the pathogenesis of influenza virus infection  
Bing Sun, Chinese Academy of Sciences, China |
| 10:45-11:45| Interactions between viral structural proteins and human host factors  
Beatrice Nal, Brunel University London, UK |

#### Track 1: Molecular Virology and Immunology

#### Track 2: Virus Host Interaction/Pathogenesis/Transmission

#### Track 8: Implications for pandemic influenza preparedness

**Session Chair:** Hiroshi Kida, Hokkaido University, Japan  
**Session Co-Chair:** Bing Sun, Chinese Academy of Sciences, China

### Session Introduction

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| 11:45-12:10| An immuno-modulating treatment strategy of influenza with propranolol: A non-selective lipophilic beta-blocker  
Karin E Peuschel, Meissenberg Clinic Inc, Switzerland |
| 12:10-12:35| Highly pathogenic avian influenza virus (H5N1) causes severe symptoms due to insufficient induction of humoral immune responses  
Ai Ikejiri, Tokyo Metropolitan Institute of Medical Science, Japan |
| 12:35-13:00| Biophysical studies of Influenza virus proteins involved in membrane fusion and host RNA cleavage  
Remigiusz Worch, Institute of Physics, Polish Academy of Science, Poland |

#### Lunch Break 13:00-14:00 @ Orwell’s Restaurant

#### Panel Discussion

**Symposium on**  
Control of avian influenza and preparedness for pandemic influenza

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<th>Time</th>
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| 15:55-18:00| Chair: Hiroshi Kida, Hokkaido University, Japan  
The impact of influenza virus ecology on pandemic preparedness  
Robert G. Webster, St. Jude Children’s Research Hospital, USA  
How to Stop Influenza and its Sequelae  
David C. Jackson, The University of Melbourne, Australia |
Inducing cross-reactive responses
Lorena E. Brown, The University of Melbourne, Australia
Ian Brown, Animal Health and Veterinary Laboratories Agency, UK

Day 2 August 25, 2015
Madison

Keynote Forum

10:00-10:30 How to elicit immediate and long-term immunity against influenza
David Charles Jackson, The University of Melbourne, Australia

10:30-11:00 Development of DNA vaccine against H5N1 avian influenza virus
Agnieszka Sirko, Polish Academy of Sciences, Poland

Coffee Break 11:00-11:15 @ Orwell’s Restaurant

Track 3: Antiviral Drug Development and Treatment Strategies, Including Vaccination
Track 9: Strategies for Developing New Antiviral Flu Drugs
Track 12: Vaccines: Current and Novel Approaches

Session Chair: Robert G Webster, St. Jude Children’s Research Hospital, USA
Session Co-Chair: David Charles Jackson, The University of Melbourne, Australia

Inhibition of Akt kinase activity suppresses entry and replication of influenza virus
Masayuki Noguchi, Institute for Genetic Medicine, Hokkaido University, Japan

The human viral challenge model – accelerating antiviral and vaccine development
Anthony S. Gilbert, hVIVO, UK

Effective defense activity of honey against influenza virus infection: The combination with neuraminidase inhibitors
Takahiro Haruyama, Nagasaki University, Japan

Novel coated nanoclusters from structure-stabilized influenza H7N9 HA induce enhanced protective immunity
Bao-Zhong Wang, Emory University School of Medicine, USA

Universal pandemic and seasonal Influenza vaccine design: directing the antibody repertoire
Jaap Goudsmit, Global Head, Janssen Prevention Center, The Netherlands and USA

Panel Discussion

Lunch Break 13:20-14:20 @ Orwell’s Restaurant

14:20-15:30 Poster Session

IP-01 H7N9 influenza virus infection in BALB/c mouse induced impaired neutralizing antibody responses
Anna J.X. Zhang, State Key Laboratory of Emerging Infectious Diseases, China

IP-02 Ribosomal RNA processing 1 homolog B (RRP1B) is involved in influenza virus transcription
Wen-Chi Su, China Medical University Hospital, Taiwan

IP-03 Kinetic, thermodynamic and structural analysis of tamiphospor binding to neuraminidase of H1N1 (2009) pandemic influenza
Kožíšek Milan & Jana Pokorna, Gilead Sciences and IOCB Research Center, Czech Republic

IP-04 The epidemiological and virological characteristics of influenza in Tunisia: Season 2013-1014
Zorraga.M, El Manar University, Tunisia & Afif Ben Salah, Pasteur Institute, Tunisia

IP-05 Analysis of full-length genome sequences of the first H7N9 imported case in Taiwan
Tai-Ling, National Taiwan University College of Medicine, Taiwan

IP-06 Modifications improving effectiveness of DNA vaccine against H5N1
Róża Sawicka, Polish Academy of Sciences, Poland

IP-07 Development of a competitive ELISA based on M2e protein as a DIVA tool for avian influenza virus
Noor Haliza Hasan, The University of Adelaide, Australia
Human properdin binds influenza A virus and restricts infection in a complement-independent manner
Lubna Kouser, Brunel University London, UK

Molecular mechanism of restriction of influenza A virus by human annexin A6
Stefan Diaz Gaisenband, Brunel University London, UK

Genetic drift of influenza A viruses in a subtropical city Hong Kong, 2013-2014
Peihua Cao, The University of Hong Kong, China

Influenza hemagglutinin and Ebola glycoprotein fragments characterisation and mutual interaction revealed by biophysical methods
Rene Kizek, Mendel University in Brno, Czech Republic

Rapid multiplex detection of Ebola and Influenza using nanotechnological approaches based on magnetic particles and quantum dot probes
Rene Kizek, Mendel University in Brno, Czech Republic

Monitoring influenza viruses’ genetic data - a touchstone in understanding the virus-host interaction and in selection of seasonal influenza vaccine’s strains
Mihaela Lazar, National Institute for Research “Cantacuzino”, Romania

A glycosylation near antigenic site A in H7 hemagglutinin determines H7 influenza virus sensitivity to neutralizing antibodies
Esmeralda Alvarado-Facundo, Center for Biologics Evaluation and Research, US-FDA, USA

Effect of radiation in stratosphere on viability and physiological properties of influenza virus
Rene Kizek, Mendel University, Czech Republic

Effect of natural and synthetic melittin on influenza-infected chicken embryos
Rene Kizek, Mendel University, Czech Republic

Immunomodulation and protective properties of combined mucosal vaccine based on attenuated influenza A virus and recombinant group B Streptococcus polypeptides
Y A Desheva, Federal State Budgetary Scientific Institution, Russia

Coffee Break 15:30-15:45 @ Orwell’s Restaurant

Day 3 August 26, 2015

Keynote Forum

9:00: 09:30 Influenza: The same virus but a very different illness if you are young or old
Nicolas Noulin, hVIVO, UK

Track 4: Evolution and Epidemiological Aspects of Influenza
Track 7: Reassortment and Reverse Genetics
Track 14: Animal Flu-ecology
Track 16: Influenza Lung Immunology: Major Diseases

Session Chair: Nicolas Noulin, hVIVO, UK

Epidemiological analysis of H9N2 virus in China
Yanbo Yin, Qingdao Agricultural University, China

09:00-09:55 Characterization of H5N1 influenza A virus that caused the first highly pathogenic avian influenza outbreak in Saudi Arabia
Mohammed N Al-Ahdal, AlFaisal University, Saudi Arabia

Coffee Break: 10:20-10:35 @ Orwell’s Restaurant

Track 4: Evolution and Epidemiological Aspects of Influenza
Track 16: Influenza Lung Immunology: Major Diseases

Session Introduction

09:30-09:55 Genetic Characterization of co-circulating Influenza A Viruses in the Pandemic (2009-2010) and Post Pandemic (2010-2011) periods in Mumbai
Devanshi Gohil, Haffkine Institute for Training, Research and Testing, India

Molecular characterization of the hemagglutinin receptor-binding specificity of avian influenza viruses: predicting the jump across the species barrier
Tony Velkov, Monash University, Australia

Mpho Seleka, National Institute for Communicable Diseases, South Africa

Use of Heliox Delivered via High-Flow Nasal Cannula to treat an Infant With Coronavirus Enterovirus-Related Respiratory Syndrome and Severe Acute Air-Flow Obstruction

Sherwin Morghan, University of Chicago Medicine, USA

Panel Discussion
Award Ceremony

Lunch Break 12:15-13:15 @ Orwell’s Restaurant

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