

## Scientific Program

### International Conference on **Influenza**

London, UK August 24-26, 2015

348<sup>th</sup> OMICS International Conference



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## Keynote Forum

- 09:25-09:30 **Introduction**
- 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

Coffee Break: 10:30-10:45 @ Orwell's Restaurant

- 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

- 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

Group Photo

Lunch Break 13:00-14:00 @ Orwell's Restaurant

- 14:00-14:25 **Bat lung epithelial cells show variable species-specific resistance to human and avian influenza viruses**  
Kin-Chow Chang, University of Nottingham, UK
- 14:25-14:50 **Human genetic variability and susceptibility to severe Influenza infection**  
Ana Carolina Arcanjo, University of Brazilia, Brazil
- 14:50-15:15 **Identification of TMPRSS2 as a Susceptibility Gene for Severe 2009 Pandemic A(H1N1) influenza and A(H7N9) influenza**  
Zhou Jie Jane, University of Hong Kong, China
- 15:15-15:40 **Intermonomer interactions in hemagglutinin subunits HA1 and HA2 affecting hemagglutinin stability and influenza virus infectivity**  
Wei Wang, Center for Biologics Evaluation and Research, US-FDA, USA

Panel Discussion

Coffee Break 15:40-15:55 @ Orwell's Restaurant

Symposium on

Control of avian influenza and preparedness for pandemic influenza

- 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

**Session Introduction**

- 11:15-11:40 Inhibition of Akt kinase activity suppresses entry and replication of influenza virus**  
**Masayuki Noguchi**, Institute for Genetic Medicine, Hokkaido University, Japan
- 11:40-12:05 The human viral challenge model – accelerating antiviral and vaccine development**  
**Anthony S. Gilbert**, hVIVO, UK
- 12:05-12:30 Effective defense activity of honey against influenza virus infection: The combination with neuramidase inhibitors**  
**Takahiro Haruyama**, Nagasaki University, Japan
- 12:30-12:55 Novel coated nanoclusters from structure-stabilized influenza H7N9 HA induce enhanced protective immunity**  
**Bao-Zhong Wang**, Emory University School of Medicine, USA
- 12:55-13:20 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**  
**Zorruga.M**, El Manar University, Tunisia & **Aff 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

- IP-08** **Human properdin binds influenza A virus and restricts infection in a complement-independent manner**  
Lubna Kouser, Brunel University London, UK
- IP-09** **Molecular mechanism of restriction of influenza A virus by human annexin A6**  
Stefan Diaz Gaisenband, Brunel University London, UK
- IP-010** **Genetic drift of influenza A viruses in a subtropical city Hong Kong, 2013-2014**  
Peihua Cao, The University of Hong Kong, China
- IP-011** **Influenza hemagglutinin and Ebola glycoprotein fragments characterisation and mutual interaction revealed by biophysical methods**  
Rene Kizek, Mendel University in Brno, Czech Republic
- IP-012** **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
- IP-013** **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
- IP-014** **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

#### E-Posters

- E-01** **Effect of radiation in stratosphere on viability and physiological properties of influenza virus**  
Rene Kizek, Mendel University, Czech Republic
- E-02** **Effect of natural and synthetic melittin on influenza-infected chicken embryos**  
Rene Kizek, Mendel University, Czech Republic
- E-03** **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**

**Madison**

### 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**

Session Introduction

- 09:30-09:55** **Epidemiological analysis of H9N2 virus in China**  
Yanbo Yin, Qingdao Agricultural University, China
- 09:55-10:20** **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

- 10:35-11:00** **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
- 11:00-11:25** **Molecular characterization of the hemagglutinin receptor-binding specificity of avian influenza viruses: predicting the jump across the species barrier**  
Tony Velkov, Monash University, Australia

11:25-11:50 **Circulating parttens of influenza B in South Africa: 2005-2014**  
Mpho Seleka, National Institute for Communicable Diseases, South Africa

11:50-12:15 **Use of Heliox Delivered via High-Flow Nasal Cannula to treat an Infant With Cononavirus 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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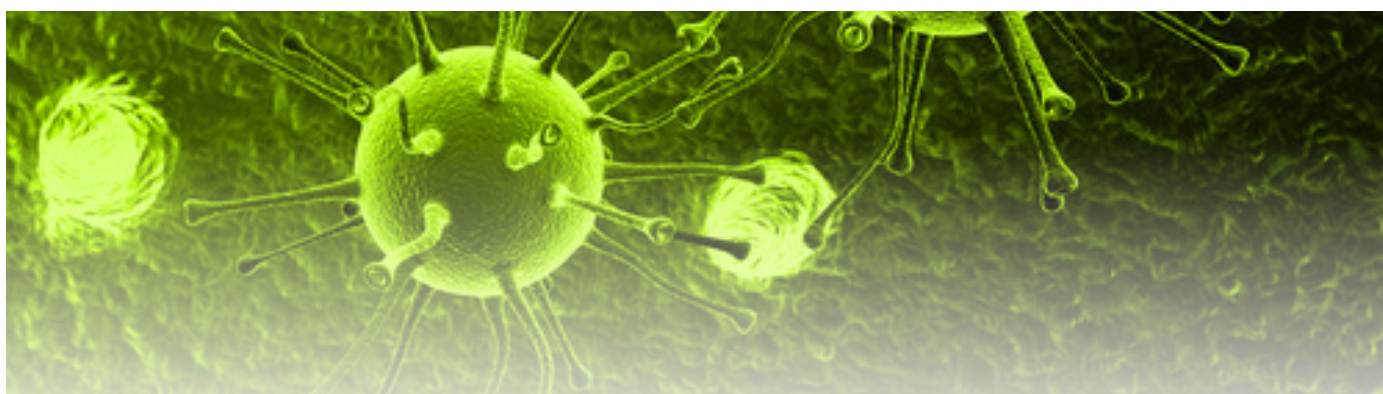
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**2<sup>nd</sup> International Conference on**

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