



# MISMS Oceania Regional Influenza Meeting and Workshop

March 15-19, 2010 // Melbourne Business School, Melbourne, Australia

## Day 1: Monday, March 15 (General Scientific Meeting)

**8:30-9:00 am – Registration**

**9:00-10:30 am – Session I. Welcome and MISMS overview**

**9:00-9:30 am** – Mark Miller, Fogarty International Center, USA: *MISMS Overview*

**9:30-10:00 am** – John Mathews, University of Melbourne, Australia: *The ecology of human influenza helps to explain pandemic mortality, seasonal mortality, and long-term trends in mortality.*

**10:00-10:30 am** – Wladimir Alonso, Fogarty International Center, USA: *Influenza seasonality: Reconciling patterns across temperate and tropical populations.*

**10:30-11:00 am – Coffee Break**

**11:00 am-12:20 pm – Session II. Disease burden and transmission dynamics of inter-pandemic influenza. Moderators: Cécile Viboud and John Mathews**

**11:00-11:20 am** – Chit-Ming Wong, University of Hong Kong, Hong Kong: *Disease burden of influenza in three tropic and sub-tropic cities in Asia.*

**11:20-11:40 am** – Vernon Lee, Ministry of Defense, Singapore: *Influenza excess mortality from 1950-2000 in tropical Singapore.*

**11:40 am-12:00 pm** – Luzhao Feng, China CDC, China: *Influenza-associated deaths in northern, southern cities and Shanghai of China, 2003-2007.*

**12:00-12:20 pm** – Stephen Lambert, Queensland Paediatric Infectious Diseases Laboratory, Australia: *The proportion of influenza tests that are positive: an important influenza metric unbiased by testing volume.*

**12:20-1:40 pm – Lunch**

**1:40-3:20 pm – Session III. The 1918-20 influenza pandemic. *Moderators:* Mark Miller and G. Dennis Shanks**

**1:40-2:00 pm** – G. Dennis Shanks, Australian Army Malaria Institute, Australia: *Highly variable mortality on isolated Pacific islands during the 1918-20 influenza pandemic.*

**2:00-2:20 pm** – John Mathews, University of Melbourne, Australia: *Prior immunity helps to explain wave-like behaviour of pandemic influenza in 1918-19.*

**2:20-2:40 pm** – Dora Pearce, Vaccine and Immunisation Research Group (VIRGo), Australia: *Understanding recurrent pandemic waves – a re-analysis of mortality rates from 333 administrative areas in England & Wales in 1918-19.*

**2:40-3:00 pm** – Kirsty Joy Bolton, University of Melbourne, Australia: *Alternative immune hypotheses for explaining the three mortality waves of the UK 1918-19 influenza pandemic.*

**3:00-3:20 pm** – Cécile Viboud, Fogarty International Center, USA: *Age mortality patterns in Europe and the Americas during the 1918 pandemic.*

**3:20-3:50 pm – Coffee break**

**3:50-5:30 pm – Session IV. Rapid reports: 2009 H1N1 pandemic in the Pacific region Group A. Surveillance and disease burden. *Moderators:* Wladimir Alonso and Vernon Lee**

**3:50-4:00 pm** – Sandra Carlson, Hunter New England Population Health, Australia: *Flutracking: Measuring community influenza-like illness during a pandemic.*

**4:00-4:10 pm** – David Muscatello, NSW Dept. of Health, Australia: *All cause mortality during the first winter wave of pandemic (H1N1) 2009 virus, New South Wales, Australia.*

**4:10-4:20 pm** – David Lee, National Taiwan University, Taiwan: *Comparison of pandemic and inter-pandemic mortality age patterns.*

**4:20-4:30 pm** – Yee Sin Leo, Tan Tock Seng Hospital, Singapore: *Wide variation in H1N1-2009 seroconversion rates in Singapore: a comparative seroepidemiological study in four distinct cohorts.*

**4:30-4:40 pm** – Andrew Davies, Alfred Hospital Intensive Care Unit, Australia: *The impact of influenza A (H1N1) 2009 on intensive care services during the Australian and New Zealand winter.*

**4:40-4:50 pm** – Andrew Davies, Alfred Hospital Intensive Care Unit, Australia: *Extra-corporeal membrane oxygenation for novel influenza A (H1N1) acute respiratory distress syndrome during the 2009 winter in Australia and New Zealand.*

**5:00-5:30 pm** – Questions/discussion

**5:30pm** – Housekeeping/logistics

## **Day 2: Tuesday, March 16 (General Scientific Meeting)**

### **9:00 -10:40 am – Session V. Genetic and antigenic evolution of influenza viruses (Part I).**

**Moderators:** Martha Nelson and Ian Barr

**9:00-9:40 am** – Eddie Holmes, Pennsylvania State University, USA & Fogarty International Center, USA: *The evolution of the influenza A virus.*

**9:40-10:10 am** – Derek Smith, University of Cambridge, UK & Fogarty International Center, USA: *The antigenic evolution of influenza viruses.*

**10:10-10:40 am** – Andrew Rambaut, University of Edinburgh, UK & Fogarty International Center, USA: *The spatial and temporal evolutionary dynamics of human influenza virus.*

**10:40-11:10 am** – Coffee break

### **11:10 am -12:20 pm – Session V. Genetic and antigenic evolution of influenza viruses (Part II).**

**Moderators:** Eddie Holmes and Yiming Bao

**11:10-11:30 am** – Ian Barr, WHO Collaborating Center for Reference & Research on Influenza, Melbourne, Australia: *The small picture: Detection and significance of quasi species, reassortants, and antiviral resistance in human clinical samples.*

**11:30-11:50 am** – Steven Barry, NCEPH, ANU, Australia: *Modeling strain mutation, cross-immunity, seasonality, and global migration of influenza viruses.*

**11:50 am-12:00 pm** – Vuong Duc Cuong, National Influenza Centre, Vietnam: *Characteristics of H5N1 viruses in Vietnam, 2003-2008.*

**12:00-12:20 pm** – Martha Nelson, Fogarty International Center, USA: *The early diversification of the 2009 H1N1pdm virus.*

**12:20-1:10 pm** – Lunch

**1:10-1:40 pm** – **Special Presentation:** Jim Bishop, Chief Medical Officer, Department of Health & Ageing, Australia: *Pandemic influenza (H1N1) 2009 in Australia*

**1:40-3:00 pm** – **Session VI. Rapid reports: 2009 H1N1 pandemic in the Pacific region Group B. Transmission dynamics and intervention strategies.** **Moderators:** Andrew Rambaut and Jody McVernon

**1:40-1:50 pm** – Geoff Mercer, Australian National University, Australia: *Community transmission of pandemic (H1N1) 2009 influenza was already established in Victoria, but not in Western Australia, around the time the virus was first identified in North America.*

**1:50-2:00 pm** – Shui Shan Lee, The Chinese University of Hong, Hong Kong: *Spatial heterogeneity in the initial spread of human swine influenza H1N1 in Hong Kong.*

**2:00-2:10 pm** – Pham Quang Thai, NIHE, Vietnam: *Household transmission of novel influenza H1N1, Vietnam, 2009-2010.*

**2:10-2:20 pm** – Vernon Lee, Ministry of Defense, Singapore: *Combination strategies are effective in mitigating pandemic influenza: Evidence from a prospective observational cohort study.*

**2:20-2:30 pm** – Rob Moss, Melbourne School of Public Health, Australia: *Considering the influence of health services capacity when developing antiviral deployment strategy.*

**2:30-3:10 pm** – Questions/Discussion.

**3:10-3:40 pm** – Coffee break

**3:40-4:50 pm** – **Session VII. Rapid reports: 2009 H1N1 pandemic in the Pacific region Group C. Population immunity patterns.** *Moderators:* Derek Smith and Tim Nguyen

**3:40-3:50 pm** – Mark Chen, Tan Tock Seng Hospital, Singapore: *Correlation between symptoms and serological infection in a sero-incidence cohort of pandemic H1N1 in Singapore – insights and implications.*

**3:50-4:00 pm** – Jiehui Kevin Yin, University of Sydney, Australia: *Assessing cross-protection from 2009 pandemic H1N1 influenza through absenteeism of school teachers including comparison with 2007 experience.*

**4:00-4:10 pm** – Jodie McVernon, Murdoch Children's Research Institute & University of Melbourne, Australia: *Immunity to influenza A H1N1 (2009) in Australian blood donors, October - December 2009.*

**4:10-4:20 pm** – Heath Kelly, VIDRL, Australia: *Influenza seasonal vaccine provides no protection against pandemic influenza H1N1 2009.*

**4:20-4:30 pm** – Chwan-Chuen King, National Taiwan University, Taiwan: *Temporal and Spatial Variations of 2009 Pandemic Influenza A (H1N1) Viruses in Northern versus Southern Taiwan.*

**4:30-5:00 pm** – Questions/discussion

**4:50-5:20 pm** – **Session VIII. Options for further collaboration**

**4:50-5:00 pm** – Mark Miller, Fogarty International Center, USA

**5:00-5:10 pm** – John Mathews, University of Melbourne, Australia

**5:10-5:20 pm** – Tim Nguyen, World Health Organization, Geneva, Switzerland

### **Day 3: Wednesday, March 17 (Workshop)**

**9:00-10:00 am** – Eddie Holmes, Pennsylvania State University & FIC, USA: *Phylogenetics 101*

**10:00-11:00 am** – Andrew Rambaut, University of Edinburgh, UK & FIC, USA: *Practical in evolutionary analysis (Part I)*.

**11:00-11:30 am** – Coffee break

**11:30 am-12:30 pm** – Andrew Rambaut, University of Edinburgh, UK & FIC, USA: *Practical in evolutionary analysis (Part II)*.

**12:30-1:30 pm** – Lunch

**1:30-2:30 pm** – Wladimir Alonso, FIC, USA: *Practical in time-series analysis*.

**2:30-3:30 am** – Derek Smith, University of Cambridge, UK & FIC, USA: *Practical in evolutionary analysis: antigenic evolution (Part I)*.

**3:30-4:00 pm** – Coffee break

**4:00-5:00 pm** – Derek Smith, University of Cambridge, UK & FIC, USA: *Practical in evolutionary analysis: antigenic evolution (Part II)*.

### **Day 4: Thursday, March 18 (Workshop)**

**9:00-9:35 am** – Yiming Bao, National Center for Biotechnology Information, National Library of Medicine, NIH, USA: *The NCBI Influenza Virus Resource*

**9:35-10:30 am** – Technical workshop

**10:30-11:00 am** – Coffee break

**11:00 am-12:30 pm** – Technical workshop

**12:30-1:30 pm** – Lunch

**1:30-3:00 pm** – Technical workshop

**3:00-3:30 pm** – Coffee break

**3:30-5:00 pm** – Technical workshop

### **Day 5: Friday, March 19 (Workshop)**

**9:00-10:30am** – Technical workshop

**10:30-11:00am** – Coffee break

**11:00am-12:30pm** – Technical workshop

**12:30-1:30pm** – Lunch

*Thank you for attending, and travel safely!*