



The Macrae Group LLC

**XI International Symposium on Respiratory Viral Infections
February 19 – 22, 2009
Royal Orchid Sheraton Hotel & Towers
Bangkok, Thailand**

Program (January 26, 2009)

Chairs:

- | | |
|-------------------------|---|
| Frederick Hayden | Stuart S. Richardson Professor of Clinical Virology, Professor of Medicine and Pathology, University of Virginia School of Medicine, Charlottesville, Virginia, USA |
| Nancy Cox | Director, Influenza Division, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia, USA |
| Tawee Chotpitayasunondh | Queen Sirikit National Institute of Child Health Department of Medical Services, Ministry of Public Health, Bangkok, Thailand |

Scientific Advisory Board:

- | | |
|--------------------|---|
| Menno de Jong | Head, Department of Medical Microbiology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands, |
| John DeVincenzo | University of Tennessee, Memphis, Tennessee, USA |
| James Gern | University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin, USA |
| Sebastian Johnston | National Heart & Lung Institute, Imperial College, London, UK |
| Yoshihiro Kawaoka | Univ of Wisconsin & Tokyo, USA & Japan |
| Sangkot Marzuki | Eijkman Institute of Molecular Biology, Jakarta, Indonesia |
| Albert Osterhaus | Erasmus MC, Rotterdam, The Netherlands |
| Malik Peiris | Department of Microbiology, The University of Hong Kong, Pokfulam, Hong Kong SAR, China |
| Paul Tambyah | Infectious Diseases, University of Singapore Hospital, Singapore |

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Day One, Thursday, February 19, 2009

- 7:00 AM **Registration desk opens**
- 10:00 – 10:10 AM Opening Remarks & Introduction of Keynote – Frederick Hayden, Stuart S. Richardson Professor of Clinical Virology, Professor of Medicine and Pathology, University of Virginia School of Medicine, Charlottesville, Virginia, USA
- 10:10 – 10:55 AM **Keynote Speaker – Robert B. Couch, Baylor College of Medicine, Houston, Texas, USA**
Lessons Learned in Studying Influenza and Other Respiratory Viruses
- Session I Epidemiology/Impact**
- 10:55 – 11:20 AM ARI Impact and Surveillance: China – Zhou Lei, Chinese Center for Disease Control and Prevention, Beijing, China
- 11:20 – 11:45 AM ARI Impact and Surveillance: Bangladesh – W. Abdulla Brooks, Division of Health and Infectious Diseases, Mohakali, Dhaka, Bangladesh
- 11:45 – 12:10 PM ARI Impact and Surveillance: Cambodia – Sirenda Vong, Institute Pasteur Network, Cambodia
- 12:10 – 12:35 PM ARI Impact and Surveillance: Thailand - Kumnuan Ungchusak, Director, Bureau of Epidemiology MOPH – Thailand (*invited*)
- 12:35 – 1:00 PM Validating Disease Burden Estimates for Respiratory Virus Infections – S.S. Chiu, Hong Kong University, SAR Hong Kong, China
- 1:00 – 3:45 PM Mid-Day Break
- 3:45 – 4:10 PM Swine, Horse and Dog Influenza Virus: Threat to Humans – Gregory Gray, University of Iowa, College of Public Health, Iowa, USA
- 4:10 – 4:25 PM **Oral Presentation:** Prospective Cohort Study of Avian Influenza Transmission in Cambodia and Thailand - Khuntirat Benjawan, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand
- 4:25 – 4:40 PM **Oral Presentation:** Findings of a Cluster Randomized Controlled Trial of Face Masks and Hand Hygiene to Prevent Influenza Transmission in Households – Benjamin J. Cowling, School of Public Health, the University of Hong Kong, Hong Kong SAR, China
- 4:40 - 4:55 PM **Oral Presentation:** A Prospective Cohort Study of the Seasonality and Burden of Pediatric Influenza in Nicaragua – Aubree Gordon, Division of Epidemiology, School of Public Health, University of California, Berkeley, California, USA

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- 4:55 – 5:40 PM How Respiratory Viruses are Spread and How to Stop Transmission – Arnold Monto, University of Michigan, Ann Arbor, Michigan, USA
- 5:40 – 6:10 PM Coffee Break
- 6:10 – 6:25 PM **Oral Presentation:** Preexisting Immunity to Diverse Respiratory Adenovirus Serotypes Among Young Adults in the United States – David Metzgar, Department of Respiratory Disease Research, Naval Health Research Center, San Diego, California, USA
- 6:25 – 6:40 PM **Oral Presentation:** Social Contact Patterns in Vietnam and Modeling the Transmission of Respiratory Infections – Peter Horby, Oxford University Clinical Research Unit, Vietnam and Centre for Tropical Medicine, Nuffield Department of Clinical Medicine, Oxford University, United Kingdom
- 6:40 – 6:55 PM **Oral Presentation: Young Investigator Award**
The Global Emergence and Evolution of Adamantane Resistant A/H3N2 Influenza Viruses – Martha I. Nelson, Fogarty International Center, National Institutes of Health, Bethesda, Maryland, USA
- 6:55 – 7:45 PM Poster Review - Albert Osterhaus, Erasmus MC, Rotterdam, The Netherlands
- 7:45 – 9:45 PM Welcoming Reception

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Day Two, Friday, February 20, 2009

Session II	<u>Minisymposium on H5N1 Animal/Human Interface: Chairs:</u> Tawee Chotpitayasunondh, Queen Sirikit National Institute of Child Health Department of Medical Services, Ministry of Public Health, Bangkok, Thailand and Sangkot Marzuki, Eijkman Institute of Molecular Biology, Jakarta, Indonesia
8:30 – 8:55 AM	H5N1 in Non-avian Species - Albert Osterhaus, Erasmus MC, Rotterdam, The Netherlands
8:55 – 9:20 AM	Poultry Vaccine Efficacy in H5N1 – David Swayne, USDA, Athens, Georgia, USA
9:20 – 10:20 AM	Country-specific experiences <ul style="list-style-type: none">- Indonesia – 15 minutes – Sardikin Giri Putro, Sulianti Saroso Hospital for Infectious Diseases, Jakarta, Indonesia- Vietnam – 15 minutes – Nguyen Tran Hien, The National Institute for Hygiene and Epidemiology, Hanoi, Vietnam- Egypt – 15 minutes – <i>(to be determined)</i>- China – 15 minutes – Cuiling Xu, Chinese Center for Disease Control and Prevention, Beijing, China <i>(invited)</i>
10:20 – 10:50 AM	Panel Discussion
10:50 – 11:20 AM	Coffee Break
Session III	<u>Virology and Diagnostics</u>
11:20 – 11:45 AM	Update on H5N1 and Influenza Diagnostics – Michael Perdue, BARDA, Washington, DC, USA
11:45 – 12:10 PM	Review of Diagnostic Test Platforms for Detection of Respiratory Pathogens – Nancy Cox, Director, Influenza Division, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia, USA
12:10 – 12:35 PM	Overview of Adenovirus 14 and other Adenovirus Infections – Larry Anderson, CDC, Atlanta, Georgia, USA
12:35 – 1:00 PM	New Insights into Rhinovirus Evolution and Detection – Caroline Tapparel, University of Geneva, Switzerland

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- 1:00 – 1:15 PM **Oral Presentation:** Antiviral Control of Influenza in Aged-Care Facilities in Sydney Region Over 3 Seasons – Robert Booy, National Centre for Immunisation Research and Surveillance of Vaccine Preventable Disease, The Children's Hospital at Westmead and The University of Sydney, New South Wales, Australia; and Academic Unit of Child Health, Queen Mary's School of Medicine and Dentistry at Barts and the London, London, United Kingdom
- 1:15 – 1:30 PM **Oral Presentation:** Genetic Clustering of Human Rhinovirus Strains in Infants with Severe Bronchiolitis – Glaucia Paranhos-Baccala, Emerging Pathogens Laboratory, Fondation Mérieux, Lyon, France
- 1:30 - 1:45 PM **Oral Presentation: Young Investigator Award**
Development of a Multiplexed luminex xMap Assay for Serotype Specific Detection of Five Human Adenoviruses that Cause Respiratory Illness – Cicely Washington, Walter Reed Army Institute of Research, Silver Spring, Maryland, USA
- 1:45 – 4:30 PM Mid-Day Break
- Session IV** **Pathogenesis**
- 4:30 – 4:50 PM Pre-Clinical Papers Literature Review – SARS & Influenza – Malik Peiris, Department of Microbiology, The University of Hong Kong, Pokfulam, Hong Kong SAR, China
- 4:50 – 5:10 PM Pre-Clinical Papers Literature Review – Rhinovirus and Other Respiratory Viruses – Sebastian Johnston, Heart and Lung Institute, Imperial College, London, United Kingdom
- 5:10 – 5:35 PM Mechanism of Lung Injuries and Pulmonary Inflammation – Joseph Mizgerd, Molecular and Integrative Physiological Sciences, Harvard School of Public Health, Boston, Massachusetts, USA
- 5:35 – 6:00 PM Influenza Virus Receptor Interactions – James Paulson, Scripps Institute, La Jolla, California
- 6:00 – 6:20 PM Coffee Break
- 6:20 – 6:45 PM Viral Bacterial Interactions – John McCullers, St. Jude Children's Research Hospital, Memphis, Tennessee, USA
- 6:45 – 7:00 PM **Oral Presentation:** Ocular Infections of Mice with Influenza A (H7) Viruses: A Site of Primary Virus Replication and Spread to the Respiratory Tract – Jessica Belser, Immunology and Pathogenesis Branch, Influenza Division, CCID, CDC, Atlanta, Georgia, USA and Department of Microbiology, Mount Sinai School of Medicine, New York City, New York, USA

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7:00 – 7:15 PM

Oral Presentation: Young Investigator Award

The PB1-F2 Protein of Influenza A Virus Modulates the Early Immune Response Leading to Increased Pathogenesis in the Mouse Model – Gina Conenello, Department of Microbiology, Mount Sinai School of Medicine, New York, USA

7:15 - 7:30 PM

Oral Presentation: Young Investigator Award

Rhinovirus Infection Augments Recruitment of Th2 Allergen Specific T Cells to the Airway – Ross Walton, Department of Respiratory Medicine, Imperial College London. United Kingdom

7:30 – 9:00 PM

Wine/Cheese Reception
Poster Session

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Day Three, Saturday, February 21, 2009

Session V

Clinical

- 8:30 – 8:50 AM Literature Review: Clinical Papers Adults – Frederick Hayden, Stuart S. Richardson Professor of Clinical Virology, Professor of Medicine and Pathology, University of Virginia School of Medicine, Charlottesville, Virginia, USA
- 8:50 – 9:10 AM Literature Review: Clinical Papers Children – Tawee Chotpitayasunondh, Queen Sirikit, National Institute of Child Health, Department of Medical Services, Ministry of Public Health, Bangkok, Thailand
- 9:10 – 9:55 AM Emerging Infectious Diseases Research in Southeast Asia – Sangkot Marzuki, Eijkman Institute of Molecular Biology, Jakarta, Indonesia
- 9:55 – 10:20 AM Influenza in Transplant Patients – Mike Ison, Northwestern University, Evanston, Illinois, USA
- 10:20 – 10:45 AM Respiratory Viral Infections in Lung Transplant Recipients – Laurent Kaiser, University of Geneva, Switzerland
- 10:45 – 11:15 AM Coffee Break
- 11:15 – 11:30 AM **Oral Presentation:** Safety and Efficacy of Multiple-Day Treatment with Intravenous Peramivir or Oral Oseltamivir in Hospitalized Adults with Acute Influenza – Michael Ison, Northwestern University, Chicago, Illinois, USA
- 11:30 – 11:45 AM **Oral Presentation:** A Cell Culture (Vero) Derived H5N1 Whole Virus Vaccine Induces Cross-Reactive Memory Responses – Otfried Kistner, Biomedical Research Center, Baxter Innovations GmbH, Orth/Donau, Austria
- 11:45 - 12:00 PM **Oral Presentation:** Clinical Features of Human Influenza A (H5N1) Infection in Vietnam: 2004-2006 - Peter Horby, Oxford University Clinical Research Unit, Vietnam and Centre for Tropical Medicine, Nuffield Department of Clinical Medicine, Oxford University, United Kingdom
- 12:00 – 3:00 PM Mid-Day Break

Session VI

Vaccinology and Prevention

- 3:00 – 3:30 PM Special Lecture: Insights into Influenza Pathogenesis and Prevention – Yoshi Kawaoka, University of Wisconsin, Madison, Wisconsin, USA and University of Tokyo, Japan
- 3:30 – 4:00 PM Pandemic Preparedness: Updated WHO Guidance – Sylvie Briand, WHO, Geneva, Switzerland

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- 4:00 – 4:30 PM Methodologies of Assessing Influenza Vaccine Effectiveness – David Shay, CDC, Atlanta, Georgia, USA
- 4:30 – 5:00 PM Overview of H5 Vaccines – Wendy Keitel, Baylor College of Medicine, Houston, Texas, USA
- 5:00 – 5:15 PM **Oral Presentation:** Anti-Influenza Serum and Mucosal Antibody Responses After Administration of Live Attenuated or Inactivated Influenza Vaccines to HIV-Infected Children – Myron Levin, University of Colorado-Denver, Aurora, Colorado, USA
- 5:15 – 5:30 PM **Oral Presentation:** Vaccination Approaches to Combat Human Metapneumovirus Lower Respiratory Tract Infections – Sander Herfst, Department of Virology, Erasmus MC, Rotterdam, The Netherlands
- 5:30 – 6:00 PM Coffee Break
- 6:00 – 6:15 PM **Oral Presentation:** Paradoxical Generalized Decrease of Influenza-Specific T-cell Responses in HIV-Infected Children After Administration of Inactivated Influenza Vaccine and Sporadic Decrease After Live Attenuated Influenza Vaccine – Adriana Weinberg, University of Colorado-Denver, Aurora, Colorado, USA
- 6:15 - 6:30 PM **Oral Presentation:** Cross-reactive Immunity of Influenza A/H5N1 Strains in Mice and Humans – Inca Kusters, sanofi pasteur, Marcy L'Etoile, France
- 6:30 – 6:45 PM **Oral Presentation:** An Early Report from a Randomized Controlled Trial of Nonpharmaceutical Interventions to Reduce Household Influenza Transmission; the Bangkok HITS Study – Piyarat Suntarattiwong, Queen Sirikit National Institute of Child Health, Bangkok, Thailand
- 6:45 – 7:00 PM **Oral Presentation:** Nature and Impact of Influenza Antigen Specific T Cell Responses on Disease in an In Vivo Human Challenge Model – John Oxford, Reroscreen Virology Ltd., London, United Kingdom
- 7:00 – 7:15 PM **Oral Presentation:** Safety and Immunogenicity of an AS03- adjuvanted H5N1 Prepandemic Influenza Vaccine – Prasert Auewarakul, Faculty of Medicine Siriraj Hospital, Bangkok, Thailand
- 7:15 – 7:30 PM **Oral Presentation:** Maternal Influenza immunization and Birth Weights – M.C. Steinhoff, Cincinnati Children's Hospital and Medical Center, Global Health Center, Cincinnati, Ohio, USA

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Day Four – Sunday, February 22, 2009

Session VII

Antivirals and Therapeutics

- 8:30 – 9:00 AM Update on Antiviral Resistance in H1N1 – Frederick Hayden, Stuart S. Richardson Professor of Clinical Virology, Professor of Medicine and Pathology, University of Virginia School of Medicine, Charlottesville, Virginia, USA
- 9:00 – 9:30 AM Drug Therapy for H5 Disease in Southeast Asia – Menno de Jong, Department of Medical Microbiology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands
- 9:30 – 10:00 AM Novel Agents for Adenoviruses – Karl Hostetler, University of California – San Diego, La Jolla, California, USA
- 10:00– 10:30 AM Drugs Inhibiting Both Host Responses and Virus Replication – Stephan Ludwig, Institut für Molekulare Virology, Westfaelische Wilhelms University Muenster, Muenster, Germany
- 10:30 – 11:20 AM Updates on Antivirals
- Peramivir – W. James Alexander, BioCryst Pharmaceuticals, Inc., Cary, North Carolina, USA
- T705 Compound – Tsutmo Sakurai, Toyama Chemical Co., Ltd., Toyama, Japan
- CS-8958, a Long Acting Neuraminidase Inhibitor (LANI) for Influenza – Makoto Yamashita, Daiichi Sankyo Co., Ltd., Tokyo, Japan
- 11:20 – 11:50 AM Coffee Break
- 11:50 – 12:20 PM Update on siRNA – John DiVincenzo, University of Tennessee, Memphis, Tennessee, USA
- 12:20 – 12:35 PM **Oral Presentation:** Oseltamivir Prophylaxis Significantly Reduces the Incidence of Seasonal Influenza Infection in Immuno-Compromised Patients – Michael Ison, Northwestern University, Chicago, Illinois, USA
- 12:35 – 12:50 PM **Oral Presentation:** Combinations of Immunomodulators and Specific Antivirals: A New Treatment Paradigm for Influenza – Ralf Altmeyer, CombinatoRx Singapore, Helios, Singapore
- 12:50 – 1:05 PM **Oral Presentation:** Cystus052 a New Compound Against Seasonal and Pandemic Influenza Virus – Oliver Planz, Friedrich-Loeffler-Institut, Institute of Immunology, Tübingen, Germany
- 1:05 – 1:20 PM **Oral Presentation:** Oseltamivir Pharmacokinetics in Vietnamese Patients with Severe Human and H5N1 Avian Influenza – Walter Taylor, Oxford University Clinical Research Unit, Hanoi, Vietnam and Centre for Vaccinology and Tropical Medicine, Churchill Hospital, Oxford, United Kingdom

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1:20 - 1:35 PM

Oral Presentation: Young Investigator Award

Characterization of Influenza H1N1 Viruses Resistant to Oseltamivir –
Angie Lackenby, Respiratory Virus Unit, Centre for Infection, Health
Protection Agency, London, United Kingdom

1:35 – 2:05 PM

Closing Remarks – Frederick Hayden, Nancy Cox, Tawee
Chotpitayasunondh

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