

SCIENTIFIC PROGRAM

Wednesday, 15 April 2015

- 4:00 – 6:00 pm** *Registration*
- 5:00 – 6:00 pm** **Overview and new features of the Influenza Research Database (IRD)**
Richard Scheuermann, Yun Zhang (subject to change) Masters Hall
- 6:00 – 8:00 pm** *Welcome Reception* Magnolia Ballroom

Thursday, 16 April 2015

- 7:00 – 10:00 am** *Registration*
- 8:00 – 8:15 am** **Welcome and Opening Remarks**
Tom Chambers and Stacey Schultz-Cherry Masters Hall
- 8:15 – 9:00 am** **Keynote**
William Karesh, EcoHealth Alliance
- 9:00 – 12:00 pm** **Session I: Surveillance and Disease Investigation**
- 9:00 – 9:30 am** **Invited Speaker**
Jeff Hall, USGS National Wildlife Health Center
- 9:30 – 9:45 am** Influenza virus surveillance in backyard poultry and swine in central Chile
Chris Hamilton-West, University of Chile
- 9:45 - 10:00 am** Surveillance program for equine influenza virus in the United States (2010-2013)
Wendy Vaala, Merck Animal Health
- 10:00 - 10:15 am** Influenza A virus H10N7 detected in dead harbor seals (*Phoca vitulina*) at several
locations in Denmark 2014
Charlotte Hjulsager, National Veterinary Institute, Technical University of Denmark
- 10:15- 10:45 am** **AM Coffee Break**
- 10:45 - 11:00 am** Examining influenza A virus activity in swine at agricultural fairs in the United States
Andy Bowman, The Ohio State University
- 11:00 - 11:15 am** Influenza A virus evolution and ecology in western Canadian swine
Susan Detmer, University of Saskatchewan
- 11:15 - 11:30 am** Ireland's largest equine influenza outbreak since the turn of the century - an in depth
analysis
Sarah Gildea, The Irish Equine Centre, Johnstown, Naas, Co. Kildare, Ireland
- 11:30 - 11:45 am** Active surveillance of swine influenza virus in South Eastern US over the summer of
2014
Constantinos Kyriakis, University of Georgia

*3rd International Symposium on Neglected Influenza Viruses
15th – 17th April 2015*

The Georgia Center, Athens Georgia USA

11:45 - 12:00 pm New influenza viruses H4N6 and H2N2 isolated from marine and wetland mammals in Russia
Marina Gulyaeva, Novosibirsk State University, Novosibirsk, Russia

12:00 - 1:30 PM BUFFET LUNCH – MAGNOLIA BALLROOM

1:30 – 4:30 pm Session II: Virus Transmission and Control Masters Hall

1:30 – 2:00 pm **Invited Speaker**

Martha Nelson, Fogarty International Center, National Institutes of Health

2:00 - 2:15 pm Equine Influenza Vaccination? Closing the Immunity Gap

Ann Culinane, The Irish Equine Centre, Johnstown, Naas, Co. Kildare, Ireland

2:15 - 2:30 pm Dynamics of co-circulating H1N1 and H3N2 influenza A viruses in a cohort of pigs after weaning

Andres Diaz, University of Minnesota

2:30 - 2:45 pm Spill-back transmission of European H1N1 avian-like swine influenza viruses between pigs and turkeys: a strain-dependent possibility?

Francesco Bonfante, Istituto Zooprofilattico Sperimentale delle Venezie, Viale delle Università, Italy

2:45 - 3:00 pm The evaluation of twenty rapid antigen detection (RAD) tests in the diagnosis of Equine Influenza

Takashi Yamanaka, Epizootic Research Center, Equine Research Institute, the Japan Racing Association

3:00 - 3:15 pm PM Coffee Break

3:15 - 3:30 pm Novel human-like swine H3N2 and H3N1 Influenza A viruses detected in pigs are virulent and antigenically distinct from contemporary swine and human H3 strains
Daniela Rajao, USDA-ARS, Ames, Iowa

3:30 - 3:45 pm Genotypic Variation of Influenza Viruses Circulating within European Swine since 2009

Simon Watson, Wellcome Trust Sanger Institute, UK

3:45 - 4:00 pm North Atlantic gray seals (*Halichoerus grypus*) may be an underappreciated reservoir host for Influenza A Virus

Jonathon Rundstadler, Massachusetts Institute of Technology

4:00 - 4:15 pm Detection and characterization of influenza A virus endemic circulation in neonatal and nursery pigs in a farm using an inactivated influenza vaccine
Philip Gauger, Iowa State University

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4:15 - 4:45 pm **Invited Speaker**
 Nitin Virmani, Principal Scientist, National Research Centre on Equines Sirsa
 Roar, Hisar, Haryana, India

4:45 - 6:30 pm	Poster Session and Cocktail Reception	<u>Pecan Tree Galleria</u>
5:30- 6:30 pm	Science “Speed Dating”	<u>TBA</u>
6:30- 8:00 pm	BUFFET DINNER	<u>Magnolia Ballroom</u>

Friday, 17 April 2015

7:00 – 10:00 am *Registration*

8:00 – 8:45 am **Keynote** Masters Hall
 Montserrat Torremorell, University of Minnesota

8:45 – 12:00 pm **Session III: Clinical and Experimental Virology**

8:45 – 9:15 am **Invited Speaker**
 Colin Parrish, Cornell University

9:15 - 9:30 am The impact of adjuvant in whole inactivated virus vaccines on vaccine-associated enhanced respiratory disease in pigs following influenza A virus challenge
 Amy Vincent, USDA-ARS, Ames, Iowa

9:30 - 9:45 am The contribution of specific haemagglutinin mutations to equine influenza vaccine breakdown
 Rebecca Kinsley, University of Kent, UK

9:45 - 10:00 am Pathogenesis and transmission of a naturally occurring reassortant swine H1N2 - A(H1N1)pdm09 virus in pigs and ferrets
 Sharon Brookes, Animal Health and Veterinary Laboratories Agency, UK

10:00 -10:15 am M2e-PP vaccination induced antibody recognizes influenza M2e on the virus and infected cells
 Kyung-il Kang, Food Animal Health Research Program, The Ohio State University

10:15- 10:30 am AM Coffee Break

10:30 - 10:45 am Induction of type-I IFN by both TLR3 and RIG-I-mediated signaling in respiratory epithelial cells infected with canine influenza virus
 Woo-Jung Park, College of Veterinary Medicine, Konkuk University, Korea

10:45 - 11:00 am Cross-lineage antibody responses and protection upon vaccination with inactivated swine influenza virus vaccines
 Yu Qiu, Faculty of Veterinary Medicine, Ghent University, Belgium

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- 11:00 - 11:15 am Respiratory transmission of an avian H3N8 influenza virus isolated from a harbor seal
Erik Karlsson, St Jude Children's Research Hospital, Memphis, Tennessee
- 11:15 - 11:30 am Substitutions Near the Receptor Binding Site Can Cause Major Antigenic Changes in Swine Influenza
Eugenio Abente, USDA-ARS Ames, Iowa
- 11:30 - 12:00 pm Invited Speaker**
Shoujun Li, China

12:00 - 1:30 PM BUFFET LUNCH – MAGNOLIA BALLROOM

- 1:30 – 4:00 pm Session IV: Emerging Issues and New Developments** Masters Hall
- 1:30 – 2:00 pm Invited Speaker**
David Wentworth, Centers for Disease Control and Prevention, Atlanta, Georgia
- 2:00 - 2:15 pm Recent emergence and zoonotic potential of a novel bovine influenza C virus
Laura Eckard, St Jude Children's Research Hospital, Memphis, Tennessee
- 2:15 – 2:30 pm EMPRES-i for the recording of all influenza events including the neglected ones?
Gwenaelle Dauphin, FAO, Rome, Italy
- 2:30 – 2:45 pm An automated tool for quantifying spatial and temporal dynamics of influenza A in North American swine
Tavis Anderson, Georgia Southern University
- 2:45 – 3:00 pm Mathematical Modeling of Influenza A Virus Dynamics within Swine Farms and the Effects of Vaccination
Meggan Craft, University of Minnesota
- 3:00 – 3:15 pm Novel, High-Dimensional, High-Throughput Method for Influenza Hemagglutinin (HA) Antigenicity Measurement: The mPlex-Flu Assay
Jiong Wang, University of Rochester Medical Center
- 3:15 – 3:30 pm Vaccine Breakdown in an Outbreak of Equine Influenza
Angie Danner, St Jude Children's Research Hospital, Memphis, Tennessee
- 3:30 - 3:45 pm The time-interval between infections and viral hierarchies are determinants of viral interference following influenza virus infection in a ferret model
Karen Laurie, WHO Collaborating Centre for Reference and Research on Influenza, Melbourne, Australia

3:45 – 4:00 pm PM Coffee Break

- 4:00 – 5:00 pm Session V: Ways Forward** Masters Hall
- 4:00 – 4:15 pm Invited Speaker - Progress on OFFLU STAR-IDAZ Research Agenda**
Stacey Schultz-Cherry, St Jude Children's Research Hospital, Memphis, Tennessee
- 4:15 – 5:00 pm Expert Panel – Ways Forward for Neglected Influenza Viruses**
WHO, OIE-FAO, OFFLU, NIAID, Industry Representatives
- 5:00 – 5:15 pm Meeting Summary and Close**
Tom Chambers and Stacey Schultz-Cherry
- 6:30 pm – Optional Dinner