

Influenza 2014

One Influenza, One World, One Health:
Bringing together veterinary and human influenza researchers

09-11 September 2014, St Hilda's College, Oxford, UK

Twitter: @InfluenzaOxford, #influenzaoxford

Welcome to the Conference

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About LibPubMedia

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General Information

WiFi Code and instructions for internet access via your laptop/mobile device will be available from the registration desk during the first refreshment break.

- Event Dates:** 09-11 September 2014
- Event Website:** <http://lpmhealthcare.com/influenza-2014/>
- Venue:** Edward Boyle Auditorium, The Jacqueline du Pré Music Building (JdP), St Hilda's College Oxford, Cowley Place, Oxford, OX4 1DY, England, UK
Tel: +44 (0) 1865 276884, Website: <http://www.st-hildas.ox.ac.uk>
- Registration Desk:** Located outside the auditorium
- Accommodation:** If you are staying at St Hilda's College, please ask the receptionist for directions upon arrival. For resident delegates, self-service breakfast will be available in the College Dining Hall between 7.30am-8.00am. Please vacate your rooms by **10.00am** on the day of your departure to avoid additional charges by the college and leave your keys at the Porter's Lodge.
- Name Badges:** The College requests all delegates to wear name badges while on the premises to avoid any confusion.
- Lunch/Dinner:** Lunches and dinners will be served in the College Dining Hall. Lunches are open to all participants. Evening dinners are by prior booking/invitation and entry will be by dinner tickets. Extra dinner tickets can be bought on site for £50 (cash only).
- Mobile Phones:** Please switch off your mobile phone during oral presentations.
- Event Handbook:** Your handbook cannot be replaced if lost. You can buy additional copies of the book from the registration desk for £25 each (cash only) or for £50 each (plus P&P) after the event.
- Poster Display:** Posters will be displayed in the JdP foyers
- Health and Safety:** Please familiarise yourself with the emergency exits. If you are staying in the College, please read any Health and Safety notices displayed in your room.
- Smoking:** In addition to any local venue regulations, UK no-smoking regulations apply on the College premises.

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Distinguished speakers and Agenda

All presentations will be held in the Edward Boyle Auditorium, Jacqueline du Pré Music Building, St Hilda's College.

Day 1, 09th September

13.45-14.30: Registration, welcome coffee and networking

14.30: Welcome and housekeeping

Public Health

14.40: Professor Maria Zambon, Inaugural Keynote Address

Director, Reference Microbiology Laboratory, Public Health England, UK

Clinical and public health challenges of influenza

15.20: Dr Roger Thomas

Department of Family Medicine, Faculty of Medicine, University of Calgary, Alberta, Canada

When physicians diagnose “Influenza-like illness” what pathogens are found if the patient is tested?

15.40: Refreshment Break and Posters

Immunology and Vaccinology (Human)

16.10: Professor Alain Townsend

Professor of Molecular Immunology, Investigative Medicine Division, Weatherall Institute of Molecular Medicine, University of Oxford, UK

Original Antigenic Sin promotes Antigenic Drift

16.40: Dr Rob Lockhart

MS&T - Virology, AstraZeneca Global Operations, UK

Generation and production of a live attenuated influenza vaccine

17.00: Dr Benjamin Cowling

Associate Professor and Head, Division of Epidemiology and Biostatistics, School of Public Health, The University of Hong Kong, Hong Kong, China

Incidence of influenza virus infections in children in Hong Kong in a three year randomised placebo-controlled vaccine study, 2009-12

17.15: Dr Kerstin Beer

MRC National Institute for Medical Research, Division of Virology, London NW7 1AA, UK

Diversity of neutralising epitopes of currently circulating influenza A (H3N2) viruses

Epidemiology and Surveillance (Human)

17.30: Dr Karen L Laurie

WHO Collaborating Centre for Reference and Research on Influenza, Melbourne, Australia
Improving Standardisation and Timeliness of Seroepidemiological Studies through the Global Partnership CONSISE (the Consortium for the Standardization of Influenza Seroepidemiology)

17.45: Dr Steven Riley

Reader in the Ecology and Epidemiology of Infectious Disease, Faculty of Medicine, Imperial College London, UK

Incidence and severity of infection with seasonal influenza A H3N2 compared with pandemic H1N1 : a longitudinal serological cohort study

18.00: Professor Amita Jain

Virology Laboratory, Department of Microbiology, King George Medical University, India

Observation of genetic changes in Influenza A/H3N2 and A/ H1N1 pdm09 viruses circulating during 2011 to 2013 in Northern India (Lucknow)

18.15 Close of Day 1

Day 2, 10th September

Modelling and Public Health

8.30: Professor John Oxford

Blizard Institute, Queen Mary College, London & Director, Oxford Media and Medicine, UK
A deadly synergy, the Great War and the Great Pandemic

9.00: Professor Neil Ferguson

Professor of Mathematical Biology & Head of Department, Faculty of Medicine, Imperial College London, UK
How predictable is the antigenic evolution of human influenza A?

9.30: Professor Emanuele Montomoli

Professor of Hygiene and Preventive Medicine, Faculty of Medicine and Surgery of the University of Siena, Italy

Title not available at the time of printing

10.00 Professor Anthony Nash

Professor Emeritus, The Roslin Institute, University of Edinburgh, UK
Influenza and Parkinson's Disease

10.15: Refreshment Break and Posters

10.50: Professor Robert Webster, Keynote Address

Rose Marie Thomas Chair, Member, St Jude Faculty, St Jude Children's Research Hospital, USA
The continued threat of H5N1, H7N9 and H9N2 influenza viruses

Molecular Genetics and Virus Assembly

11.30: Professor Paul Digard

Professor of Virology, The Roslin Institute, University of Edinburgh, Easter Bush Campus, UK
Differential mRNA splicing as a mechanism for determining the shape of influenza A virus particles

12.00: Dr Kenneth Baillie

Group Leader, The Roslin Institute, University of Edinburgh, Easter Bush Campus, UK
Title awaited

12.30: Dr Vânia Gaio

Department of Epidemiology, National Health Institute Doutor Ricardo Jorge, Portugal
Genetic variation at the IFITM3 and Influenza A(H1N1)pdm09 infection severity in the Portuguese population

12.45: Dr Adeline Kerviel

CPBS UMR 5236 CNRS, Montpellier, France
Deciphering the role of the M1 matrix protein basic residues in influenza virus A/H1N1 assembly

13.00: Group Photo in the JdP Lawn

13.05: Lunch and Networking

Virology, Epidemiology and Surveillance (Avian)

14.25: Dr Sharon Brookes

Animal Health and Veterinary Laboratories Agency (AHVLA), UK
Swine influenza and Zoonotic risks in the UK and Europe

14.45: Professor Daniel Perez, Keynote Address

Center for Research on Influenza Pathogenesis, University of Maryland, USA
Malleable Influenza Viruses

15.25: Dr Thierry van den Berg

Veterinary and Agrochemical Research Center, CODA-CERVA, Belgium
Vector vaccines and immunity against avian influenza

15.55: *Dr Munir Iqbal*

Head of Avian Influenza Group, Avian Viral Diseases Programme, The Pirbright Institute, UK
Development of aptamer-based rapid diagnostics for influenza viruses

16.10: *Refreshment Break and Posters*

16.45: *Dr Marek Slomka*

Scientist & Project Manager, Animal Health and Veterinary Laboratories Agency (AHVLA), Surrey, UK
Infection and exposure of chickens with a European H9N2 low pathogenicity avian influenza virus (LPAIV) elicits delayed onset of clinical signs and death following subsequent challenge with a clade 2.3.2 H5N1 highly-pathogenic avian influenza virus (HPAIV)

Host-Pathogen Interaction (human)

17.00: *Dr Juliet Bryant*

Oxford University Clinical Research Unit and Wellcome Trust Major Overseas Programme, Hanoi, Vietnam; and Center for Tropical Medicine, Nuffield Department of Clinical Medicine, University of Oxford, Oxford, UK
Making sense of market surveillance data for H5N1 from Vietnam: Research needs and next steps

17.15: *Dr Lauren Parker*

Divisions of Virology and Physical Biochemistry, MRC National Institute for Medical Research, London, NW7 1AA, UK
Biophysical characterisation of recent Influenza A (H3N2) virus receptor binding

Host-Pathogen Interaction and Virulence (Avian)

17.30: *Dr Sayed Abd El-Whab*

Avian Influenza Research Group, Institute of Molecular Biology, Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Germany
Multibasic proteolytic cleavage site and mutations in the HA2 protein are essential for full virulence and transmissibility of H7N1 virus in chickens

17.45: *Dr Jutta Veits*

Avian Influenza Research Group, Institute of Molecular Biology, Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Germany
Cryptic virulence potential in H5 and H7 field strains of avian influenza virus

18.00: *Close of Day 2*

19.00: *Dinner (By prior booking or invitation only)*

Day 3, 11th September

Animal Models, Methods, Assays - I

9.00: Mr Donald Benton

Divisions of Virology and Physical Biochemistry, MRC National Institute for Medical Research, Mill Hill, London, UK

Direct Measurement of Influenza A Haemagglutinin and Neuraminidase Balance

9.15: Dr Jonathan Bundy

Research Chemist, Toxins and Flu Lab, Clinical Chemistry Branch, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta GA, USA

Determination of the conformation of hemagglutinin in influenza vaccine preparations using size exclusion chromatography and mass spectrometry

9.35: Dr Carrie Pierce

National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta GA, USA

Isotope dilution mass spectrometry (IDMS) and immunocapture isotope dilution mass spectrometry (IC-IDMS) in response to pandemic influenza

9.55: Dr Nigel Temperton

Senior Lecturer in Biological Sciences, Medway School of Pharmacy, University of Kent, UK

Production of Influenza B haemagglutinin lentiviral pseudotype particles and their use in neutralization assays

10.15: Refreshment Break and Posters

Animal Models, Methods, Assays – II

10.50: Dr Anthony Marriott

Project Team Leader, Influenza Group, Public Health England, UK

Aerosol and intra-nasal challenge with 2009 pandemic influenza virus (H1N1) in cynomolgus macaques

11.10: Dr Simon Scott

Lecturer in Molecular Biology, Medway School of Pharmacy, University of Kent, UK

The use of pseudotyped viruses for investigation of neutralising antibody responses in mammals

11.30: Miss Kristina Fobian

National Veterinary Institute, Technical University of Denmark, Denmark

Assessment of zoonotic potential of four European swine influenza viruses in the ferret model

11.45: Dr Ruth Bouwstra

Central Veterinary Institute, Wageningen University and Research Centre (CVI-Lelystad), The Netherlands
Subtyping avian influenza antibody positive sera from the Dutch poultry monitoring programme using a protein microarray

12.00: Miss Khridiana Putri

Asia Pacific Centre for Animal Health (APCAH) Werribee, Faculty of Veterinary Science, The University of Melbourne, Victoria, Australia
HA2 subunit epitope of Indonesian avian influenza H5N1 as DIVA reagent

12.15: Lunch and Close