Programme

The 5th International Symposium on Neglected Influenza Viruses

8 - 10 April 2024 Lexington | Kentucky | USA

Day 1 Monday 8 April

07:30-08:25	**Breakfast**	
07:30-10:00	**Registration**	08:00 – 08:20 **Poster set-up**
08:30-08:45	**Welcome and Opening Remarks**	**Thomas Chambers** | University of Kentucky, US **S. Mark Tompkins** | University of Georgia, US
08:45-09:30	**Opening Keynote** **Global Epizootic H5NI in Wildlife: Challenges and Opportunities** **Nicola Lewis** | Francis Crick Institute, UK	
Session I	**Influenza in Wildlife** Chairs: **Janet Daly** | University of Nottingham, UK **Yuan Liang** | University of Copenhagen, Denmark	
09:30-10:00	**Understanding Highly Pathogenic Avian Influenza Viruses in North American Wild Birds Against a Backdrop of Immunity** **Rebecca Poulson** | University of Georgia, US	

10:00-10:15	**Mortality among wild red foxes and harbor seals in Denmark were caused by mammalian-adapted clade 2.3.4.4b H5N1 high pathogenicity avian influenza viruses** (AN50030) Yuan Liang | University of Copenhagen, Denmark
10:15-10:30	**Expansion of Wild Bird Avian Influenza Risk Assessments in North America** (AN50062) Mohammad Jawad Jahid | The Ohio State College of Veterinary Medicine, US
10:30-11:00	**BREAK**
11:00 -11:20	**Highly pathogenic avian influenza A (H5N1) in South American sea lions** (AN50017) Martha Nelson | NIH/NLM/NCBI, US
11:20 -11:40	**Genetic characterisation and pseudotyping strategies applied to a novel candidate haemagglutinin subtype of influenza A viruses** (AN50024) Simon Scott | University of Kent, UK
11:40 -12:00	**Genomic epidemiology and surveillance of avian influenza viruses in the Southwest United States** (AN50044) Temitope Faleye | Arizona State University, US
12:00 – 13:00	**LUNCH**
Session II	**Field Research [Surveillance & Disease Investigation]** **Chairs: Erik Stemmy | NIH NIAID, US** **Luke Terry | The Ohio State University, US**
13:00-13:30	**Longitudinal Detection of Diverse Influenza A virus in North Atlantic Grey Seals: a Look at How Marine Mammals May Serve as a Mammalian Reservoir** **Wendy Puryear |** Tufts University, US
13:30-13:45	**Tracking Equine Influenza Virus Occurrence in the United States from 2017-2023 Based Upon a Voluntary Biosurveillance Program (AN50003)** Duane Chappell | Merck Animal Health, US

13:45-14:00	**Antiviral susceptibility of swine-origin influenza A variant viruses isolated from humans in the United States, 2007-2023** (AN50007) Rongyuan Gao | Centers for Disease Control and Prevention, Georgia, US
14:00-14:15	**Genetic identification and replicative fitness of reassortant influenza A viruses recovered from individual pigs in farm conditions** (AN50010) Chong Li | University of Minnesota, US
14:15-14:30	**Surveillance of Influenza A Viruses in Danish Pigs: Uncovering a Diverse Range of Swine and Human-Origin Viruses, with Shifting Subtypes and Genotypes** (AN50029) Charlotte Hjulsager | Statens Serum Institut, Denmark
14:30-14:45	**Detection of multiple subtypes of influenza A virus at the individual pig level** (AN50016) Joaquin Alvarez-Norambuena | University of Minnesota, US
14:45-15:30	**BREAK (plus solar eclipse viewing)**
15:30-15:45	**Evolution of 1990.4 lineage swine influenza A(H3N2) viruses since 2011 has led to antigenic drift among circulating strains** (AN50043) Han Di | Centers for Disease Control and Prevention, Georgia, US
15:45-16:00	**Nationwide Surveillance of Influenza D Virus Infection in China** (AN50051) Jieshi Yu | Agro-biological Gene Research Center, Guangdong Academy of Agricultural Sciences, China
16:00-16:15	**Phylogeography Highlights an Influenza Virus A Epizootic Spread in Swine and Multiple Species Barrier Crossing in France** (AN50052) Gautier Richard | ANSES Ploufragan Plouzane Niort Laboratory Swine Virology Immunology Unit, France
16:15-16:30	**Epidemiological Assessment of Influenza A Viruses in Exhibition Swine and Associated Human Health Risks: A Comprehensive Study from the Summer of 2023** (AN50061) Luke Terry | The Ohio State University, US
16:30-16:45	**Epidemiological surveillance of Equine Influenza in Argentina during 2019-2023** (AN50074) Maria Aldana Vissani | INTA, Buenos Aires
16:45-17:00	**Comfort break**
17:00 -19:00	**POSTER RECEPTION**
17:00 -18:00	**Live Webinar: Dogs, Pigs, Horses & Influenza: What You Need to Know**

Day 2 Tuesday 9 April

07:15 – 08:05	**Breakfast**
08:10-08:55	**Bats Reveal the True Power of Influenza A Virus Adaptability** **Martin Schwemmle | University of Freiburg, Germany**
Session III	**Virus Transmission and Control** **Chairs: Vivien Dugan | Centers for Disease Control and Prevention, US** **Valerie Le Sage | University of Pittsburgh, US**
09:00-09:30	**Control of highly pathogenic avian influenza through vaccination** **Hualan Chen |** Harbin Veterinary Research Institute (HVRI), China
09:30-09:45	**Transmission, size distribution, viral load and viability of influenza A virus-laden particles emitted from pigs over the course of infection** (AN50020) Lan Wang | University of Minnesota, US
09:45-10:00	**Assessing pandemic risk of swine influenza viruses** (AN50073) Valerie Le Sage | University of Pittsburgh, US
10:00-10:15	**Differential Cross-Protective Immunity is Elicited by Infection with Contemporary Influenza B Lineage Viruses** Caroline Page | University of Georgia, US
10:15-10:45	**BREAK**
10:45-11:00	**Assessment of monovalent alpha vectored, Alpha3 H1N2 virus vaccine against heterologous challenge for regional influenza vaccine development** (AN50041) Susan Detmer | University of Saskatchewan, Canada
11:00-11:15	**The roles of ANP32 proteins in viral replication and interspecies transmission of influenza virus** (AN50048) Xiaojun Wang | Harbin Veterinary Research Institute, CAAS, China
11:15-11:30	**Rapid development of pre-pandemic candidate vaccine viruses from digital sequence** (AN50054) Jaber Hossain | Centers for Disease Control and Prevention, Georgia, US

Rapid Talks	
11:30-11:37	**Comparison of antibody titers between infected and vaccinated horse antisera against equine influenza virus by neutralization assay** (AN50006) Manabu Nemoto | Equine Research Institute, Japan Racing Association, Japan
11:37-11:44	**Hand hygiene practices and detection of influenza on hands contaminated with secretions of swine-origin** (AN50015) Joaquin Alvarez-Norambuena | University of Minnesota, US
11:44-11:51	**Evaluation of an electrostatic precipitator on mitigating airborne transmission of influenza A virus in pigs under experimental conditions** (AN50021) Lan Wang | University of Minnesota, US
11:51-11:58	**Recreating field conditions to assess trivalent killed virus vaccine against double challenge with heterologous Alpha3 H1N2 and pdmH1N1 strains** (AN50039) Susan Detmer | University of Saskatchewan, Canada
12:00-13:30	**LUNCH**
Session IV	**Clinical and Experimental Virology** **Chairs: Lauren Byrd-Leotis | NIH NIAID, US** **Hope Leverett | University of Nottingham, UK**
13:30-14:00	**H3Nx Emergence and Evolution in Companion Canines** **Brian R. Wasik |** Cornell University, US
14:00-14:15	**The porcine nasal mucosa is a potential site for the generation of new influenza A viruses** (AN50023) Charlotte Kristensen | University of Copenhagen, Denmark
14:15-14:30	**Susceptibility of camelids (alpacas) to experimental infection with influenza C and D virus** (AN50025) Helen Everett | APHA, Surrey, UK
14:30-14:45	**Identifying equine genes with anti-Influenza A activity** (AN50035) Verena Schultz | MRC-University of Glasgow Centre for Virus Research, UK
14:45-15:00	**New Generation Equine Influenza Bivalent VLP Vaccine: Vaccination and Challenge** (AN50036) Stephanie Reedy | University of Kentucky, US

15:00-15:30	**BREAK**
15:30-15:45	**Bovine turbinate cells as an in vitro model for the study of influenza D virus** (AN50056) Meshach Maina | University of Nottingham, UK
15:45-16:00	**Functional Roles of the Hemagglutinin-Esterase Fusion Glycoprotein in Replication Fitness, Tissue Tropism, and Transmission of Influenza D Virus** (AN50064) Ahsan Naveed | University of Kentucky, US
16:00-16:15	**Antigenic characterization of the H15 influenza virus hemagglutinin** (AN50008) Disha Bhavsar | Icahn School of Medicine at Mount Sinai, New York, US
16:15-16:30	**The generation of VHH antibodies to differentiate between Florida clades of equine influenza virus** (AN50013) Hope Leverett | University of Nottingham, UK
16:30-16:45	**Investigation of influenza B virus replication potential in swine primary respiratory epithelial cells** (AN50057) Shalini Soni | University of Kentucky, US
18:00 →	**Social evening at Spindletop Hall**

DAY 3 Wednesday 10 April

07:15-08:05	**Breakfast**
08:10-08:55	**So Many Interfaces, So Little Time!** **Andrew Bowman | Ohio State University, US**
Session V	**Emerging Issues / New Developments** Chairs: **Todd Davis | Centers for Disease Control and Prevention, US** **Gagandeep Singh | Icahn School of Medicine at Mount Sinai, US**
09:00-09:30	**Zoonotic Potential of Avian-like Bat Influenza Viruses** **Ghazi Kayali |** Human Link | Dubai
09:30-09:45	**Bat influenza vectored NS1-truncated live vaccine protects pigs against heterologous virus challenge** (AN50004) Wenjun Ma | University of Missouri, Columbia, US
09:45-10:00	**Characterizing functionality of the surface glycoproteins of novel influenza B-like viruses** (AN50009) Gagandeep Singh | Icahn School of Medicine at Mount Sinai, New York, US
10:00-10:15	**Emergence of an extinct human influenza C virus lineage in U.S. bovine herds** (AN50063) Jiyeshi Yu | Agro-biological Gene Research Center, Guangdong Academy of Agricultural Sciences, China
10:15-10:45	**BREAK**
10:45-10:55	**Presentation: Centers of Excellence for Influenza Research and Response (CEIRR)** **John Baggett |** Gryphon Scientific, US

Closing Keynote **10:55-11:00**	**Chairs: Maria Zambon |** UKHSA, UK **Christine Oshansky |** Biomedical Advanced Research and Development Authority (BARDA), US
11:00-11:45	**The Future of Emerging (Influenza) Virus Detection: Novel Technology at High-Risk Interfaces** **Erik Karlsson | Institut Pasteur du Cambodge, Cambodia**
11:45-12:00	**End of Meeting _Closing remarks** **Feng Li |** University of Kentucky, US
12:00 -->	**OPTIONAL EXCURSION – A 'Day at the Races' – Keeneland**