

International Forum on Ecology & Evolution of Avian Influenza

A webinar series by leading scientists (5/2021 - 12/2024)

October 12, 2021, Tuesday, 9pm – 10pm, China

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<http://scholar.google.com/citations?user=HHdszD0AAAAJ&hl=en>

Weifeng Shi received his PhD in Bioinformatics from the University College Dublin and now is a full professor and the director of School of Public Health of Shandong First Medical University & Shandong Academy of Medical Sciences. Currently, he leads several research programs focused on understanding the origins, transmission and evolution of emerging infectious diseases (including various human-infecting avian influenza viruses, Zika virus, Ebola virus, and SARS-CoV-2), as well as the viral species/genetic diversity in nature. He has published >130 scientific manuscripts in the area with >35000 citations (Google scholar), and was involved into the establishment of a nation-wide avian influenza virus surveillance network - the CAS (Chinese Academy of Sciences) Center for Influenza Research and Early-warning (CASCIRE).

Dynamic circulation of avian influenza viruses in live poultry market, China

In the past decade, there have been a number of avian influenza viruses (AIVs) identified in China that are able to infect humans, such as H7N9, H10N8, and H5N6. Previous studies have shown that most of human cases have a prior visit to live poultry market (LPM) or contact with poultries. Our surveillance of AIVs during 2014–2016 in LPMs in China revealed that while H9N2 was the dominant subtype in northern China, H5N6 has replaced H5N1 as a dominant AIV subtype in southern China. However, the AIV-positive rates had decreased substantially since 2016 (12.73%), compared to that during 2014–2016 (26.90%). In addition, from 2016 to 2019, H9N2 has gradually replaced H5N6 and H7N9 as the dominant AIV subtype in both chickens and ducks throughout China, and since 2019, H7N9 was rarely detected in most sampling sites. These results highlighted substantial changes in the circulation of AIVs in LPM in China, which would greatly impact the prevention and control of AIVs in China.

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Organizers: University of Oklahoma, St. Jude Children's Research Hospital, USGS EESC;
Sun Yat-sen University; China Agricultural University; CNIC, IVDC, China CDC

Organizing Committee Chairs: Xiangming Xiao (University of Oklahoma, USA), and Yuelong Shu (Sun Yat-sen University, China)