



Jockey Club College of Veterinary
Medicine and Life Sciences

香港城市大學
City University of Hong Kong
in collaboration with Cornell University



Department of Infectious Diseases and Public Health

Livestock revolutions: interdisciplinary approaches to controlling infectious diseases in emerging livestock systems

By

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Date: 15 August 2019 (Thursday)
Time: 14:30 pm – 15:30 pm
Venue: Room 2-G02, G/F, Block 2, To Yuen Building

Abstract

Increasing urbanisation and rising incomes have set a trajectory for a rapid global growth in demand for animal-based protein. In the short- to medium-term, the largest growths in demand are predicted to occur in low- and middle-income countries, mostly in Asia. Different scales and modes of livestock production are interconnected through complex networks of potentially infectious contacts, creating environments that could promote the emergence and persistence of animal and zoonotic disease hazards. Drawing on my research on the epidemiology of infectious disease hazards, including avian influenza and peste des petits ruminants, I will illustrate how interdisciplinary approaches can improve our understanding of disease dynamics. By unravelling the architecture of livestock production systems, I will show how more effective and feasible control interventions can be designed.

Biography

Guillaume is a veterinarian and epidemiologist. His main research interest is understanding the way in which livestock production systems shape the emergence, spread, and maintenance of infectious diseases, with a particular focus on low and middle income countries. He is currently involved in projects focusing on avian influenza, antimicrobial resistance, foodborne pathogens, livestock diseases, and the role of live animal trade networks and production on the dynamics of zoonotic diseases. His research is interdisciplinary, involving collaborative work at the interface between epidemiology, microbiology, anthropology, economics and archaeology.

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