

Special Issue

Spatio-Temporal Analysis of Veterinary Infectious Diseases

Message from the Guest Editors

Infectious diseases are a major determinant of the health and welfare of animal populations, and in many cases, the incidence of pathogens in animals has direct implications for the stability of food systems and pathogen spillover to humans. Quantifying the spatial and temporal dynamics of pathogens is a key component to understanding the transmission, control, and impacts of veterinary infectious diseases. This Special Issue aims to highlight the application of spatial and temporal analytical methods to the study of veterinary infectious diseases, including those impacting wild and domestic populations. These include descriptive and predictive tools that aim to analyze spatiotemporal variation in the occurrence of disease in animal populations, and to elucidate underlying environmental or demographic drivers, and their impact on risk-based surveillance and control strategies. We are also interested in studies that investigate how population connectivity influences the spatiotemporal dynamics of disease, utilizing a variety of tools such as network analysis, modeling, and molecular epidemiology.

Guest Editors

Dr. Kimberly VanderWaal

Department of Veterinary Population Medicine, College of Veterinary Medicine, University of Minnesota, St. Paul, MN 55108, USA

Dr. Catalina Picasso-Risso

Department of Veterinary Population Medicine, College of Veterinary Medicine, University of Minnesota, St. Paul, MN 55108, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pathogens@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

Prof. Dr. Hinh Ly

Department of Veterinary & Biomedical Sciences, University of Minnesota, Twin Cities, MN, USA

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