Modelling the Spread of Animal Infectious Diseases

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Message from the Guest Editors

Our recent experience with the COVID-19 pandemic has stressed the tremendous importance of accurate prediction, preparedness, and rapid reaction to infectious disease outbreaks. Mathematical models have been used in the biological sciences for many years; however, their application in the prediction and control of infectious diseases has grown exponentially over the past two decades. Modelling can contribute to a better understanding of the transmission and spread of infectious diseases in populations, evaluating the effectiveness of intervention measures, and even forecasting the occurrence of disease outbreaks. While substantial progress has been made in infectious disease modelling using more sophisticated methods, stronger computing capabilities, and more user-friendly software, much work remains to be undertaken to more accurately simulate real-world situations. This Special Issue mainly focuses on transmission and spread models, predictive statistical models, and quantitative and qualitative risk assessments pertaining to animal-origin infectious diseases.

Special Issue

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Message from the Editor-in-Chief

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