

## Special Issue

# Modelling the Spread of Animal Infectious Diseases

### 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.

---

### Guest Editors

Dr. Omid Nekouei

Department of Infectious Diseases and Public Health, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong SAR, China

Dr. Ibrahim Elsohaby

Department of Infectious Diseases and Public Health, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong SAR, China

---

### Deadline for manuscript submissions

closed (31 July 2023)



## Veterinary Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 3.5  
Indexed in PubMed



[mdpi.com/si/160855](https://mdpi.com/si/160855)

*Veterinary Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[vetsci@mdpi.com](mailto:vetsci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[vetsci](https://vetsci.com)





# Veterinary Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 3.5  
Indexed in PubMed



[mdpi.com/journal/  
vetsci](https://mdpi.com/journal/vetsci)



## About the Journal

### Message from the Editor-in-Chief

Veterinary Sciences (ISSN 2306-7381) is an international and interdisciplinary scholarly open access journal that aims at publishing research in all fields of veterinary medicine in a democratic way. We encourage scientists to publish their original research articles, reviews, communications, and short notes in as much detail as possible. Articles submitted that involve subjecting animals to unnecessary pain or suffering will not be accepted, and all articles must be submitted with the necessary ethical approval (please refer to the Ethical Guidelines for more information).

---

### Editor-in-Chief

Prof. Dr. Patrick Butaye

1. Department of Infectious Diseases and Public Health, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Kowloon, Hong Kong
2. Department of Pathobiology, Pharmacology and Wildlife Medicine, Faculty of Veterinary Medicine, Ghent University, 9820 Merelbeke, Belgium

---

### Author Benefits

#### High visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).