

## Special Issue

# Molecular Characterization of Various Viruses and Bacteria in Small Animals

### Message from the Guest Editors

With new sequencing technologies becoming more accessible to researchers and organizations worldwide, the identification of novel and emerging viruses and bacteria has significantly improved. This Special Issue aims to showcase innovative research utilizing advanced sequencing technologies and bioinformatics to unravel the complexities of pathogens affecting small animals. We seek original research articles and reviews that explore the use of long-read and short-read sequencing platforms in characterizing pathogens. Studies that integrate these sequencing data for comprehensive pathogen analysis are particularly welcome. Additionally, we are interested in bioinformatics pipelines that analyze viral and bacterial genomes in small animals, including metagenomic sequencing, targeted next-generation sequencing, and the analysis of bacterial communities. We also seek research on the detection of antimicrobial resistance genes, virulence genes, and temporal changes in these genes. Your contributions will play a crucial role in advancing our understanding of pathogen biology and host–pathogen interactions, fostering a One Health approach to combating infectious diseases.

### Guest Editors

Dr. Mohamed Abouelkhair

Schreiber School of Veterinary Medicine, Rowan University, Glassboro, NJ, USA

Dr. Raghavendra Amachawadi

Department of Clinical Sciences, College of Veterinary Medicine, Kansas State University, Manhattan, KS 66506, USA

### Deadline for manuscript submissions

15 October 2025



## Veterinary Sciences

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

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## 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).

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### Editor-in-Chief

Prof. Dr. Patrick Butaye

1. Department of Pathobiology, Pharmacology and Zoological Medicine, Faculty of Veterinary Medicine, Ghent University, Salisburylaan 133, B9820 Merelbeke, Belgium

2. Department of Infectious Diseases and Public Health, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, 31 To Yuen Street, Kowloon, Hong Kong SAR 999077, China

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