

Special Issue

The Role of Gut Microbiome in Regulating Animal Health

Message from the Guest Editors

The gut microbiome is increasingly being recognized as a key regulator of animal health, influencing host metabolism, immunity, and disease resilience. This Special Issue focuses on advances in understanding the composition, function, and dynamics of gut microbial communities across animal species. Topics of interest include the microbiome's role in nutrient utilization, immune modulation, pathogen resistance, and its involvement in metabolic, gastrointestinal, and systemic disorders. Researchers exploring dysbiosis-associated mechanisms, microbiome-based diagnostics, and emerging interventions—such as probiotics, prebiotics, synbiotics, dietary strategies, and microbiota-targeted therapeutics—are especially encouraged to submit their findings. By integrating molecular, microbial, and clinical perspectives, this Special Issue aims to highlight innovative approaches that advance microbiome-driven health management in veterinary medicine and animal science.

Guest Editors

Prof. Dr. Jianhui Li
Prof. Dr. Na Sun
Dr. Miaomiao Han

Deadline for manuscript submissions

15 February 2027



Veterinary Sciences

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 3.9
Indexed in PubMed



mdpi.com/si/264313

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

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





Veterinary Sciences

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 3.9
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 16.3 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2026).