

Special Issue

Gut Barrier Dysfunction: Mechanisms, Implications, and Treatment Strategies for Enhancing Animals Production

Message from the Guest Editors

This Issue brings together innovative research and comprehensive reviews that explain the complicated interaction of gut barrier dysfunction in animal health. Given the prime role of an intestinal barrier in general health, its destruction will compromise animals, leading to them being more susceptible to diseases as a result of the weakening of the immune responses toward a higher risk of systemic infection. This Issue discusses the myriad of multifactorial causes in disrupting gut barriers in both livestock and companion animals, and hence will be tackling environmental stressors, dietary factors, microbial dysbiosis, genetic susceptibilities, molecular mechanisms supporting gut integrity, recent developments in diagnostic indicators, and nutrition and probiotics effects on gut health restoration. Besides, the study aims to investigate the contribution of gut barrier integrity to the immune response and its interaction with the susceptibility of animals to infection, especially under the conditions of intensive husbandry. Submissions with new therapeutic approaches, such as nutritional supplementation, microbial intervention, and pharmacological intervention, are also welcome.

Guest Editors

Dr. Kun Li
Dr. Mo Quan
Dr. Md. F. Kulyar

Deadline for manuscript submissions

closed (30 June 2025)



Veterinary Sciences

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 3.5
Indexed in PubMed



mdpi.com/si/223104

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

mdpi.com/journal/

vetsci





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).