Special Issue

Advances in Nutritional Manipulation of Rumen Fermentation

Message from the Guest Editor

The rumen fermentation process not only affects the utilization efficiency of ruminant feed, but is also a crucial factor affecting animal production efficiency. It is worth noting that aberrant rumen fermentation can cause rumen acidosis, rumen bloat, and other diseases, and even animal death in severe circumstances. Scientific and reasonable nutrition manipulation can improve feed utilization efficiency in ruminants by regulating rumen fermentation, lower the occurrence of rumen disorders, and reduce the cost and enhancing the efficiency of ruminant breeding. In this Special Issue, we welcome original research and review papers that address the latest nutrition manipulation theories, methods, and technologies affecting rumen fermentation, including effects on the rumen microbial structure, improving the efficiency of rumen microbial synthesis and nutrient degradation, preventing rumen acidosis and bloating, promoting rumen tissue development and repair, and reducing rumen methane emission via nutrition manipulation methods. Other topics related to the nutritional manipulation of rumen fermentation are also welcome.

Guest Editor

Dr. Lizhi Wang
Institute of Animal Nutrition, Sichuan Agricultural University, Chengdu 611130, China

Deadline for manuscript submissions

closed (28 February 2025)

Animals

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/182766

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

mdpi.com/journal/animals

Animals

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed

mdpi.com/journal/animals

About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

Editor-in-Chief

Prof. Dr. Clive J. C. Phillips
1. Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Kreutzwaldi 1, 51014 Tartu, Estonia
2. Curtin University Sustainability Policy (CUSP) Institute, Kent St., Bentley 6102, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

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