Special Issue

Animal Diets: Determinants of Gastrointestinal Microbiota Composition in Animals

Message from the Guest Editor

The gastrointestinal tract, the place in which organisms digest and utilize food, contains an abundance of microorganisms, and food in the gastrointestinal tract provides necessary nutrients for the proliferation of microorganisms. Different microorganisms need different nutrients, and even some microorganisms cannot only use or produce intermediate metabolites. Therefore, the composition and function of gastrointestinal microorganisms are affected by diet, and it is essential to comprehend the regulation process; a complex network of interactions between host, microorganisms, and environment. Increased knowledge of the regulation process for animals by diet will help us find strategies for the advancement of livestock husbandry. In this Special Issue, we kindly invite the research community to submit original research papers and reviews that provide the newest insights into the changes in the structure of the microbiome by the regulation of diet (including feed additive, new feed resources and feeding mode, etc.) to better investigate how we can use or manipulate microbiomes for achieving enhanced livestock husbandry production to serve the human population.

Guest Editor

Dr. Yuxin Yang

College of Animal Science and Technology, Northwest A&F University, Yangling 712100, China

Deadline for manuscript submissions

closed (31 January 2024)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/166067

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

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

MDPI