

Special Issue

Correlations Between the Gastrointestinal Microbiome and Diseases

Message from the Guest Editor

In humans and animals, the microbiome is often used to describe the microorganisms that live in or on a particular part of the body. Due to their significant number and importance, the gut microbiome is characterized as an “organ.” This microbial community is essential to the normal form and function of the host in a range of physiologic processes, including energy homeostasis, metabolism, gastrointestinal epithelial health, immunologic activity, and neurobehavioral development and functions. Thus, the frontier findings of the role of gut microbiota in the host’s health and disease development have become crucial for future disease prevention, diagnosis, and treatment.

In this Special Issue, we aim to assemble a collection of research articles, reviews, and case reports that highlight the critical advancements in our understanding of the role of gastrointestinal microbiome in their host’s health and diseases. Your research has the potential to significantly impact the field of microbiology, and we are eager to include your valuable contributions.

Guest Editor

Dr. Jilei Zhang

Division of Gastroenterology and Hepatology, Department of Medicine, University of Illinois at Chicago, Chicago, IL, USA

Deadline for manuscript submissions

31 July 2026



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/208760

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

[mdpi.com/journal/
microorganisms](https://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](https://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 20 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).