

Special Issue

Host–Microbiome Cross-Talk in Cancer Development and Progression

Message from the Guest Editor

The rapidly evolving field of cancer research highlights the human microbiome as a crucial factor influencing our understanding of tumor development and treatment outcomes. Recent findings indicate that exposure to certain microbial components or an imbalance in microbial communities may affect the risk, invasion, and progression of cancer. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Exploring the impact of dietary factors on the relationship between the microbiome and cancer.
- Various bioinformatic and deep learning approaches to understand host–microbiome interactions in the context of tumor progression.
- How microbial metabolites influence tumor progression by altering epigenetic responses in host cells.
- The role of the microbiome in influencing immune surveillance and the mechanisms of tumor immune evasion.

I look forward to receiving your contributions.

Guest Editor

Dr. Subhadeep Das

1. Department of Biochemistry, Purdue University, West Lafayette, IN, USA
2. Department of Biotechnology, School of Life Science and Biotechnology, Adamas University, Kolkata, India

Deadline for manuscript submissions

31 December 2025



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/230067

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 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).