

Special Issue

Microbiota Dynamics in Environmental and Host Systems: From Ecology to Applications

Message from the Guest Editors

This Special Issue will focus on the complex interactions between microorganisms and their environments, covering both natural ecosystems and host-associated microbiomes. We welcome original research articles, comprehensive reviews, and short communications that explore the following:

- Environmental microbiome dynamics and community structure;
- Host-microbe interactions across different organisms (plants, animals, humans);
- Microbial ecology in extreme and changing environments;
- Applications of microbiome research in biotechnology and medicine;
- Novel methodological approaches in microbiome analysis;
- Microbiome responses to environmental stressors and climate change.

This Special Issue aims to bridge the gap between fundamental microbial ecology research and practical applications, providing insights into how microbiota function across diverse systems. Please proceed with creating the Special Issue website. We are ready to begin promoting it and inviting high-quality submissions.

Guest Editors

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Deadline for manuscript submissions

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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

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Author Benefits

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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).