

Special Issue

Advances on Molecular Microbial Ecology

Message from the Guest Editor

This special issue of "Molecular Microbial Ecology" is dedicated to exploring the latest advancements in molecular approaches to understanding the intricate relationships between microbes and their biotic and abiotic environments, with a focus on human and plant microbiomes, environmental and public health, synthetic biology, and rapid detection methods. We invite original research and review articles that contribute to the following areas:

- **Human Microbiome Dynamics:** Studies investigating the composition, function, and dynamics of the human microbiome in health and disease, and its influence on host immunity, metabolism, and disease susceptibility.
- **Plant Microbiome Interactions:** Research on the plant microbiome, including root-associated, endophytic, and phyllosphere microbiomes, and their roles in plant growth, health, and response to environmental stressors.
- **Environmental Microbiome and Public Health:** Contributions examining the role of environmental microbiomes in public health, including microbial indicators of environmental quality, pathogen transmission, and the impact of environmental microbes on human health.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2025)



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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.

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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).