

Special Issue

Microbial Communities in a Changing World: Composition, Metabolism, and Environmental Adaptation

Message from the Guest Editor

We as humans are facing grand societal challenges on many fronts today: climate change, food insecurity, pandemic outbreaks. The importance of microbial communities in a continuously changing world cannot be overstated: they are key players for safeguarding and restoring the health of the environment or of their host. Before we can fully exploit their potential, however, some fundamental aspects need to be better understood. What are the mechanisms driving community assembly and resilience? What metabolic capability can a community achieve, and how does it occupy different metabolic niches? How does a community react and adapt to temporary or permanent changes in the surrounding environment? This Special Issue aims at collecting work targeting a better understanding of how microbial communities can help to address grand societal challenges. As the , I invite you to submit articles, review, and communications. Bottom-up or top-down approaches, exploratory or hypothesis-driven analyses are equally welcome, and interdisciplinary work combining experimental and computational methods is particularly appreciated.

Guest Editor

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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

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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).