

Special Issue

Genomics Approaches in Microbial Ecology

Message from the Guest Editors

Microorganisms and their interactions are vital in biogeochemical and nutrient cycling, supporting all forms of life in this sense. In recent years the study of microbial communities, properly in the field of microbial ecology, has been nourished by novel approaches, namely genomics, metagenomics, epigenomics, proteomics, metabolomics, etc.

This Special Issue is intended to harbor research papers on any topic of microbial ecology that have been carried out using mainly an omic methodological approach. Review papers within this profile are also welcome; please send an intention letter on the selected topic. The Special Issue is open, but not restricted to, the following topics:

- Plant–microbiome interactions;**
- Microbial communities in extreme or nearly extreme environments;**
- Insect microbiome and ecology;**
- Microbial diversity in pristine and contaminated environments;**
- Aquatic and soil microbial diversity and ecology;**
- Microbial interactions in the rumen;**
- Human GIT microbiota.**

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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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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).