Special Issue

Microbial Communities and Antimicrobial Resistance in Contaminated Aquatic and Terrestrial Environments

Message from the Guest Editors

Aquatic habitats are also known hotspots for the transmission of antimicrobial resistance. Contaminants, such as heavy metals are known to aggravate the emergence of resistance. From a human health perspective, increasing the prevalence of AMR in the environment of great importance. The aim of this Special Issue is to provide a collection of papers on the importance and diversity of microorganisms (both prokaryotes and eukaryotes) in natural and contaminated aquatic and terrestrial environments, with a focus on their involvement in production, nutrient regeneration, and mobilization processes (particularly those connected to contamination). We also welcome papers on the survival strategies and resistance mechanisms of bacteria, as well as papers addressing the reactions of single bacteria or total microbial communities to different pollutants (or disinfectants) that occur in different aquatic or terrestrial environments.

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

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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).

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