

Special Issue

New Insights in Aquatic Microbial Ecology

Message from the Guest Editor

Aquatic microbial ecology serves as a critical foundation for understanding global biogeochemical cycles, ecosystem stability, and responses to environmental change. Microorganisms, including algae, bacteria, archaea, and viruses, drive the essential functions of aquatic systems, from primary production to nutrient recycling. Advancing knowledge in this field is paramount for addressing contemporary challenges such as climate change, eutrophication, and biodiversity loss. The Issue aims to compile cutting-edge research that explores the complexity, dynamics, and functions of microbial communities across diverse aquatic environments. Research areas may include (but not limited to) the following: Microbial diversity, community assembly, and biogeography; Functional roles and metabolic interactions within microbial consortia; Impacts of climate change and anthropogenic stressors on aquatic microbiomes; Microbial processes in biogeochemical cycling (e.g., carbon, nitrogen, phosphorus); Advances in methodologies (e.g., omics, imaging, and bioinformatics) for microbial ecology; Microbial interactions across trophic levels and food web dynamics.

Guest Editor

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Message from the Editor-in-Chief

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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