Special Issue

Mechanisms Driving Phytoplankton Community Structure in Freshwater Rivers and Lakes

Message from the Guest Editor

This Special Issue focuses on the intricate mechanisms driving the community structure of phytoplankton in freshwater rivers and lakes, emphasizing the pivotal role of environmental microbiology. Phytoplankton communities are vital to aquatic ecosystems, significantly influencing nutrient cycling, water quality, and the overall health of freshwater environments. Understanding the factors that shape these communities, including physical, chemical, and biological interactions, is crucial for effective water resource management and ecological conservation. This Special Issue invites research on the impacts of environmental changes, such as climate change and anthropogenic activities, on phytoplankton dynamics. It also seeks studies exploring microbial interactions, nutrient availability, and other ecological drivers that contribute to the diversity and distribution of phytoplankton species. By integrating insights from various disciplines, this Special Issue aims to enhance our understanding of phytoplankton ecology and its implications for freshwater ecosystems.

Guest Editor

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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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