

Special Issue

Diversity, Ecology and Spatiotemporal Distribution of Marine Algae and Their Associated Microbiome

Message from the Guest Editors

Microalgae, which are taxonomically and ecologically diverse, serve as foundational components of aquatic food webs and global biogeochemical cycles. Their associated bacterial communities are equally diverse and dynamic, influencing algal growth, physiology, and adaptation. The diversity of both microalgae and their associated microbiomes underpin complex ecological networks that drive nutrient exchange, organic matter transformation, and ecosystem resilience.

Understanding the spatiotemporal distribution patterns, the drivers of microalgal and bacterial diversity, and their community response characteristics is therefore essential for predicting the structure and function of aquatic ecosystems under global change. This Special Issue aims to highlight recent advances in understanding both the **diversity, community composition, ecology, and spatiotemporal distribution of marine microalgae and their associated microbiomes**. We welcome studies that explore these topics from multiple perspectives to better understand the mechanisms shaping both algal and bacterial diversity, their spatial and temporal dynamics, and their collective roles in maintaining marine ecosystem functioning.

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Message from the Editor-in-Chief

Diversity (ISSN 1424-2818) is a scholarly journal that covers all areas of diversity research. Our distinguished editorial board and refereeing process ensures the highest degree of scientific rigor for publishing. Original research articles and timely reviews are released online, with unlimited free access.

We invite papers and reviews on multidisciplinary topics of diversity that bridge organismic diversity (systematics, biodiversity, phylogeny, population genetics, and evolution) and molecular diversity (phytochemistry and biophysics).

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