

Special Issue

Harmful Algal Blooms: Distribution and Diversity

Message from the Guest Editor

Harmful Algal Blooms (HABs) threaten aquatic ecosystems, human health, and global economies. Ecologically, they disrupt food webs by depleting oxygen, causing mass mortality of fish and other aquatic life. Furthermore, potent toxins produced by certain species can bioaccumulate within the food chain, leading to poisoning events in upper trophic levels, including birds and marine mammals, thereby critically undermining biodiversity and ecosystem stability, and even damaging fisheries/aquaculture. Compounded by the pressures of climate change and anthropogenic disturbances, eutrophication intensifies, and the frequency, scale, and duration of HABs are increasing globally. This alarming trend underscores the critical necessity and urgency for advanced research. Understanding HABs' ecological impacts, spatial distribution patterns, species/diversity dynamics, and omics is critical for mitigation. This Special Issue in *Diversity* aims to gather cutting-edge research (e.g., ecological impact, distribution modeling, diversity surveys) to advance HAB science, supporting evidence-based management strategies. We invite contributions that unravel HAB complexities across aquatic environments.

Guest Editor

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About the Journal

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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