

Special Issue

Impact of Environmental Factors on the Diversity and Structure of Bacterial and Eukaryotic Communities

Message from the Guest Editors

Environmental factors—such as climate change, pollution, land use, and nutrient availability—play a crucial role in shaping bacterial and eukaryotic communities across ecosystems. Understanding how these factors influence biodiversity, community assembly, and ecological interactions is essential for predicting ecosystem responses to global changes. This Special Issue invites the submission of original research and reviews exploring the effects of abiotic and biotic stressors on the diversity, composition, and function of bacterial and eukaryotic communities in terrestrial, aquatic, atmospheric, and host-associated environments. We welcome studies employing advanced molecular techniques (e.g., metagenomics, amplicon sequencing), bioinformatics, and ecological modeling to uncover the mechanistic drivers of community dynamics. Topics of interest include, but are not limited to, microbial resilience to environmental shifts, host-microbe-environment interactions, biogeographical patterns, and the role of keystone species in ecosystem stability. Contributions addressing conservation strategies, bioremediation, and climate adaptation are also encouraged.

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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