Special Issue

Advances in Biology and Microbial Ecology for the Ocean Environment

Message from the Guest Editors

Marine microorganisms play a crucial role in the functioning of the entire Earth system. By transforming essential elements such as carbon, nitrogen, and phosphorus, they not only regulate energy transfer in the marine system, but also modulate the global climate. This Special Issue will explore essential aspects of the diversity and functioning of marine microbial communities, their role in biogeochemical cycles, their interactions with other organisms, and their impact on ocean and climate dynamics, with emphasis on multidisciplinary environmental studies based on culture-dependent and omics-based methods. Contributions focusing on the biology and environmental and biotechnological applications of marine microbes will also be welcome. By integrating these topics, a better approach to environmental marine microbiology and its biotechnological potential will be established, providing new insights into the functional role and ecological importance of marine microorganisms in processes ranging from local to planetary scales.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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