



Marine Microorganisms and Their Biomolecules: Biodiversity, Physiological Adaptation and Biotechnological Applications

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Message from the Guest Editors

Dear Colleagues,

Marine microorganisms have developed various strategies and physiological adaptation to diverse environments characterized by fluctuating temperatures, salinity, pH, and nutrients. One such strategy is the ability to biosynthesize many different molecules belonging to both primary and secondary metabolites with unique chemical structures. These molecules, which have attracted significant attention, can be used to improve environmental health as sorbent materials, dispersants, and antitoxic substances and human health as antioxidants, immunostimulants, antimicrobials, and antivirals.

Natural active products of microbial origin have attracted and continue to interest numerous fields of application from pharmaceuticals to environmental bioremediation. Furthermore, this has been revitalized by recent technological and scientific advances in genomic approaches and synthetic microbiology. This Special Issue invites experimental studies, reviews, and investigations on any aspect of microbial diversity related to ecology, molecular biology, physiology, and biotechnology in the marine environment.

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Special Issue



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Message from the Editor-in-Chief

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