

Special Issue

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

Message from the Guest Editors

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.

Guest Editors

Dr. Vincenzo Zammuto

Dr. Maria Papale

Dr. Maria Giovanna Rizzo

Deadline for manuscript submissions

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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

jmse@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE, ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
School of Engineering, The UWA Oceans Institute, The University of
Western Australia, Perth, WA 6009, Australia

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