

Sulfur-Containing Marine Bioactives

Guest Editor:

Dr. Anna Palumbo

Department of Biology and
Evolution of Marine Organisms,
Stazione Zoologica Anton Dohrn,
80121 Naples, Italy

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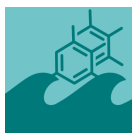
Message from the Guest Editor

Sulfur is an essential element for all living organisms, required by algae, plants, fungi, animals and humans for growth and development. It is present in a variety of biomolecules involved in many biological functions, including the maintenance of cell redox homeostasis, defense and detoxifying processes. The alteration of sulphur compound metabolism may lead to human diseases as well as to plant and animal pathologies.

The marine environment, which is characterized by a high biodiversity of species and a great chemical diversity, represents a great potential source of sulfur bioactive molecules. A broad range of biologically active sulfur compounds with unique structures and pharmacological properties have been reported to occur in marine organisms, from amino acids to different sulphated derivatives. Great attention is also focused on sulfur metabolites in the marine microbial world in relation to the global sulfur cycle.

The aim of this Special Issue is to present the existing knowledge and recent studies on sulfur-containing marine compounds bioactive on different biological systems. Attention is also focused on the metabolites active at the ecological level.





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Editor-in-Chief

Prof. Dr. Bill J. Baker

Department of Chemistry,
University of South Florida, 4202
E. Fowler Ave., CHE 205, Tampa,
FL 33620-5250, USA

Message from the Editor-in-Chief

During the past few decades there has been an ever increasing number of novel compounds discovered in the marine environment. This is exemplified by the robust preclinical and clinical pipeline that currently exists for marine natural products. *Marine Drugs* is inviting contributions on new advances in marine biotechnology, pharmacology, chemical ecology, synthetic biology, and genomics approaches related to the discovery of therapeutically relevant marine natural products. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

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Marine Drugs Editorial Office
MDPI, St. Alban-Anlage 66
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