

Special Issue

Marine Bioactive Compounds: Roles in Signaling Pathway Regulation and Potential Applications

Message from the Guest Editor

Marine ecosystems represent an extraordinary reservoir of structurally diverse bioactive compounds that have evolved to interact with complex biological systems. These marine-derived molecules exhibit remarkable potential in modulating intracellular signaling pathways that regulate key physiological and pathological processes, including inflammation, oxidative stress, immune regulation, and cancer progression. This Special Issue, "Marine Bioactive Compounds: Roles in Signaling Pathway Regulation and Potential Applications", aims to highlight the latest advances in understanding how marine natural products influence cellular signaling networks and contribute to therapeutic development. We particularly welcome studies exploring molecular mechanisms of action, signaling pathway modulation, and cross-talk among key regulators. We invite review papers and original articles that integrate molecular pharmacology, omics technologies, computational modeling, and in vivo studies to explore how marine compounds influence key signaling networks. Articles addressing their roles in disease prevention, drug resistance modulation, and novel therapeutic strategies are particularly encouraged.

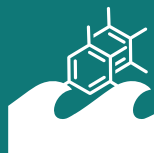
Guest Editor

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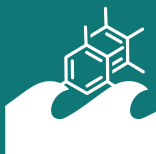


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About the Journal

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.

Editor-in-Chief

Prof. Dr. Bill J. Baker

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