



Marine Natural Products against Brain Diseases and Injuries

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Deadline for manuscript
submissions:

closed (31 December 2020)

Message from the Guest Editors

Marine lives, such as microorganisms, algae, fungi, sponge, etc., are abundant in diverse molecules that are primarily synthesized to cope with various environmental stimuli. However, these bioactive compounds have shown numerous medicinal activities. With the growing prevalence of oxidative stress- and inflammation-mediated chronic brain diseases, natural product researchers and drug designers have been focusing their attention on the discovery and development of novel therapeutic leads from marine natural products or their skeleton. Many of these compounds modulate various molecular targets of brain-specific biochemical and signaling pathways, suggesting their therapeutic significance in the management of neurodegenerative disorders, brain injuries and tumors.

This Special Issue will cover the isolation and characterization of novel compounds from marine organisms, the bioactivity of already known molecules, structure–activity relationship, and the mechanism of neuroprotection against various toxic insults representing in vitro and in vivo models of neurodegeneration, brain injury, and tumors. Both original research and review papers are welcome.





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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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Journal Rank: JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmacology, Toxicology and Pharmaceutics (miscellaneous))

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