Special Issue

Marine Natural Products as Promising Modulators of Ferroptosis

Message from the Guest Editor

Ferroptosis is an iron-dependent, lipid peroxidation-driven form of cell death implicated in neurodegenerative diseases, ischemic injury, and tumor progression. Although its modulation holds therapeutic promise, current synthetic inhibitors, such as ferrostatin-1, suffer from poor metabolic stability and bioavailability, underscoring the need for novel chemotypes. Natural products, with their distinct structural diversity and biocompatibility, offer a promising source for new ferroptosis modulators. In particular, the marine environment provides a rich and largely unexplored reservoir of architecturally unique metabolites. These marine-derived compounds represent ideal starting points for developing targeted therapeutics capable of inducing or inhibiting ferroptosis in specific disease contexts. In this Special Issue, research papers and reviews should focus on topics such as the characterization, chemical synthesis, structural modification, biosynthesis, pharmaceutical mechanisms, or the therapeutic potential of ferroptosis modulators.

Guest Editor

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Deadline for manuscript submissions

15 June 2026

Marine Drugs

an Open Access Journal by MDPI

Impact Factor 5.4
CiteScore 11.6
Indexed in PubMed

mdpi.com/si/261790

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mdpi.com/journal/marinedrugs

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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.

Editor-in-Chief

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