

Special Issue

Bioactive Compounds from Marine Diatoms: Chemical Ecology and Their Biotechnological Potentials

Message from the Guest Editors

Marine diatoms are prolific microalgae that play a crucial role in global primary production. Beyond their ecological significance, diatoms have emerged as a rich source of structurally diverse and biologically active compounds with promising applications across the pharmaceutical, nutraceutical, cosmetic, and agricultural sectors. We invite researchers from diverse fields such as marine biology, natural products chemistry, biotechnology, and ecological modeling to contribute original research articles, short communications, and comprehensive reviews. Contributions may address, but are not limited to, the following areas:

- Isolation and characterization of novel bioactive metabolites from diatoms;
- Ecological roles of diatom-derived compounds in marine environments;
- Genomic and metabolomic approaches to biosynthetic pathway elucidation;
- Cultivation strategies for enhanced compound production;
- Diatom-derived compounds for cosmeceuticals, nutraceuticals, marine-derived functional foods, and nutritional supplements.

Guest Editors

Dr. Giovanna Romano

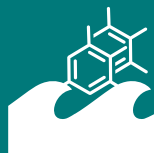
Marine Biotechnology Department, Stazione Zoologica Anton Dohrn, Naples, Italy

Dr. Ida Orefice

Stazione Zoologica Anton Dohrn, Istituto Nazionale di Biologia, Ecologia e Biotecnologie Marine, Villa Comunale, 80121 Napoli, Italy

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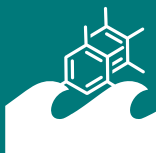


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Marine Drugs
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
marinedrugs@mdpi.com

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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

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

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