

Special Issue

Marine Enzymes in Nutraceuticals and Cosmeceuticals: Functional Innovation from the Ocean

Message from the Guest Editor

Marine enzymes, sourced from the ocean's unique biodiversity, exhibit exceptional catalytic properties including substrate specificity, stability, and activity under unique conditions. This Special Issue focuses on harnessing these versatile biocatalysts to drive innovation in nutraceuticals and cosmeceuticals, enhancing bioactive ingredient efficacy, bioavailability, formulation stability, and sustainability throughout production processes. We seek cutting-edge research and comprehensive reviews on: discovering and characterizing novel marine enzymes for health and cosmetic applications; their use in extracting, modifying, or synthesizing bioactive compounds (peptides, oligosaccharides, lipids, antioxidants, pigments, etc.); or their direct application in formulating functional foods, dietary supplements, active cosmetic ingredients, or advanced delivery systems. Studies on enzyme engineering, immobilization techniques, heterologous expression, scale-up processes, bioactivity mechanisms, and novel isolation strategies are also welcome.

Guest Editor

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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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