

Special Issue

Marine-Derived Compounds to Counteract Oxidative Stress and Inflammation in the Skin

Message from the Guest Editor

Human skin, the physical barrier between the body and the external environment, is particularly susceptible to external stressors, including physical (e.g., solar ultraviolet radiation), chemical (e.g., pollutants, detergents, and allergens), and biological factors (e.g., bacteria, fungi, and viruses). Exposure to these factors can result in redox imbalance and pro-inflammatory responses in skin cells. Oxidative damage to macromolecules (DNA, proteins, and lipids) modulates key signaling pathways that regulate inflammation, cell survival, and differentiation, potentially leading to disrupted cellular metabolism. This can contribute to the development or progression of inflammatory skin diseases such as atopic dermatitis and psoriasis, as well as skin cancers, including melanoma—the deadliest form. Natural products and their structural analogues show strong therapeutic potential in mitigating skin oxidative stress and inflammation. The marine environment offers a rich source of such bioactive compounds. This Special Issue welcomes articles on marine-derived compounds that target redox imbalance and inflammation in the skin.

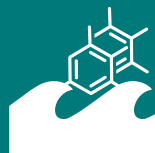
Guest Editor

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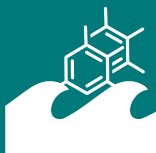


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About the Journal

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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