



Marine-Derived Amino Acids in Microbiology and Phamacology

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Message from the Guest Editors

Proteins are important components of structural parts and tissues as well as of enzymes. Amino acids are the building blocks of proteins, which are naturally synthesizing polypeptides with a molecular weight which is higher than 10,000 daltons. Marine organisms have a wide range of biochemically diverse amino acids for the synthesis of secondary metabolites. Amino acids have the fundamental structural sequence of a carboxyl group, amine, hydrogen, and a variety of types of R group. In general, only 20 amino acids are found in proteins, but a lot of additional non-protein amino acids also have biochemical roles in living organisms. In marine organisms, mycosporine-like amino acids (MAAs) are well known for their effective biochemical sunscreen functions.

The current special issue invites novel research articles or valuable reviews focusing on the physiological and biochemical characteristics of essential and non-essential amino acids derived from various marine organisms. In addition, the discovery and implication of their pharmacological functions in microorganisms are strongly encouraged for this Special Issue.





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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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