Special Issue

Microbial Gene Clusters of Marine Origin

Message from the Guest Editors

Free-living or symbiotic marine microorganisms have been recognized as an important source for the production of novel bioactive compounds with different biotechnological applications (i.e., medicine, cosmetics, agriculture, etc). Many of these compounds show complex chemical structures, and their biosynthesis is encoded by gene clusters that are normally located in their chromosomes. This Special Issue will cover different aspects related to gene clusters involved in the biosynthesis of secondary metabolites by marine microorganism, such as (i) genome mining of marine microorganisms for the identification of gene clusters; (ii) characterization of gene clusters and proofs of the involvement of the cluster in the biosynthesis of a particular compound; (iii) activation of silent or poorly expressed clusters; (iv) studies on gene expression of clusters in marine microorganisms; (v) heterologous expression of marine gene clusters; and (v) generation of novel derivatives by genetic engineering. Other topics related to those mentioned above may also be considered.

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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

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