

Quorum Quenching Agents: Exploring Quorum Sensing Interfering Strategies in Marine Bacteria for the Development of Novel Therapeutics

Guest Editor:

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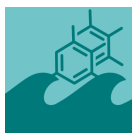
Message from the Guest Editor

It is well recognized that bacteria are able to communicate with each other using a cell-signaling system, known as “quorum sensing” (QS). The “language” that bacteria use to communicate is the use of small signaling molecules, enabling them to activate a variety of processes, including the biosynthesis of virulence factors, and biofilm formation in a synchronized, population-density-dependent manner.

In recent years, the need to find alternatives to antibiotics has raised the level of emergency, due to the increasing occurrence of resistant strains that have enormous consequences for human lives and economic impact. The marine world represents an excellent source to isolate bioactive compounds that are able to interfere with the QS system, i.e. quorum quenching (QQ) agents, and, at the same time, to identify novel chemical tools to develop studies on QS mechanisms and their regulation.

This Special Issue of Marine Drugs will cover the entire field of marine QS and QQ agents. In particular, studies on the molecular mechanisms of these compounds are especially encouraged.





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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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