



Microalgae Secondary Metabolites-Bioactivity Determination using Innovative Approach of Omics

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Message from the Guest Editors

Dear Colleagues,

Microalgae have kept developing new adaptation features and defense mechanisms; one of these survival strategies is the production of a vast variety of secondary metabolites, exhibiting a broad spectrum of biological activities and properties, including peptides, lipopeptides, polyketides, alkaloids, lipids, and terpenoids. When growth conditions are advantageous, microalgae proliferate, resulting in overgrown populations known as algal blooms, which can be harmful for aquatic life as well as for human health because of the toxins they produce. The recent advancement in the field of metabolomics and genomics has accelerated the discovery of new bioactive molecules and toxins. Additionally, the role of bacterial–microalgal interactions on the physiological control of metabolite production towards the development of co-habitation in non-axenic microalgae are scantily reported.

The current Special Issue of *Molecules* welcomes any research highlighting natural algal products, including the molecular mechanism behind the regulation of metabolite production. Moreover, studies describing the biosynthesis of these compounds are especially encouraged.





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Message from the Editor-in-Chief

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