



Microalgal Molecules and Enzymes

Guest Editors:

Dr. Assunta Saide

Stazione Zoologica Anton Dohrn,
Villa Comunale, 80121 Naples,
Italy

Dr. Chiara Lauritano

Stazione Zoologica Anton Dohrn,
Villa Comunale, 80121 Naples,
Italy

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Message from the Guest Editors

Recent technologies have allowed to sequence genomes, metagenomes, transcriptomes, metatranscriptomes, proteomes, and metabolomes of several microalgal species or pool of species, in silico identifying gene clusters involved in the synthesis of potentially bioactive compounds and helping in the discovery of new drugs from microalgae. These advances in -omics technologies applied to microalgae have allowed the identification of target enzymes, their heterologous expression and functional characterization. In addition microalgae are source of novel enzymes with industrial applications (e.g., lipids and biofuel production, healthcare, and bioremediation) and the modification of enzyme-coding sequences involved in lipid and carotenoid production has resulted in promising results. We would like to encourage the submission in this special issue “Microalgae molecules and enzymes” to collect recent original research and reviews in the field, highlighting microalgal bioactivities and potential development of new molecules and enzymes for biotechnological and industrial applications, such as pharmaceutical, nutraceutical and cosmeceutical sectors.





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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*International Journal of Molecular
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