

Special Issue

Microalgal Molecules and Enzymes

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.

Guest Editors

Dr. Assunta Saide

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

Dr. Chiara Lauritano

Department of Ecosustainable Marine Biotechnology, Stazione Zoologica Anton Dohrn, Via F. Acton 55, 80133 Naples, Italy

Deadline for manuscript submissions

closed (31 July 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/50751

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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