

Special Issue

Application of Microalgae Biotechnology: Insights at the Molecular Level

Message from the Guest Editors

In recent years, microalgae have attracted much attention as “sustainable cell factories” as they produce a wide range of high-added value classes of molecules. Indeed, microalgae are small microorganisms with the ability to perform carbon-capture, grow on non-arable lands, and produce highly valuable bioproducts and molecules important for biofuel production. However, the high costs related to upstream and downstream processes impose to researchers the application of a biorefinery approach, linked to green chemistry and circular economy, as well as methodologies for increases, at the molecular level, in the production of their molecules. Thus, this Special Issue will consider papers and reviews related to the following:

- Advances in microalgae biotechnology, from the isolation of metabolites to their applications;
- Insights, at the molecular level, of the biological activities of the isolated molecules from algal biomass;
- Innovative strategies to increase the production of microalgae value-added bioproducts;
- Engineering approaches applied to microalgal processes and products.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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