

Special Issue

Biology of Microalgae and Cyanobacteria and Their Biotechnological Potential

Message from the Guest Editors

Phototrophic microorganisms, such as microalgae and cyanobacteria, require only light, CO₂, water and a few inorganic molecules or elements for growth and production of value-added cell metabolites.

For this Special Issue we welcome research papers and reviews for following topics:

- Improving production of biomass (e.g., process and reactor design);
- Use of microalgae and cyanobacteria for the permanent sequestration of CO₂;
- Use of microalgae and cyanobacteria as cell factories for the direct bioconversion of CO₂ into valuable substances (by natural or synthetic metabolic processes);
- Innovative downstream processing concepts (cell disruption, extraction of metabolites, and milking);
- Biological and pharmacological effects of cell ingredients such as phycobiliproteins (in vitro and in vivo);
- Extremophilic (e.g., thermophilic, acidophilic, and cryophilic) and terrestrial microalgae and cyanobacteria for biotechnological applications;
- Co-culture and synergistic biological systems for biotechnological applications, e.g., marine sponges/marine snails/plants/plant tissue cells.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2022)



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Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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