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Biology of Microalgae and Cyanobacteria and Their Biotechnological Potential

Guest Editors:

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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:

Deadline for manuscript submissions:

closed (31 August 2022)

- 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.



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Special Issue



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Message from the Editor-in-Chief

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