Special Issue

New Advances in Microalgae Biotechnology—Increasing Productivity Towards Achieving a More Profitable Production Chain

Message from the Guest Editor

In the search for innovative and sustainable solutions to tackle contemporary societal challenges, the potential of microalgae (including cyanobacteria) has been explored in several fields. These microorganisms are a rich source of bioactive compounds such as proteins, lipids, carbohydrates, phenols, and vitamins. The microalgae and cyanobacteria's universe is diverse and promising. Since the release of the Agenda 2030 targets, new researchers have shown a growing interest in innovative processes and products involving microalgae, as they are considered crucial for achieving a number of the 17 Sustainable Development Goals proposed by the United Nations General Assembly. In view of this, this Special Issue aims to disseminate high-impact research and review articles on the latest advancements in microalgae biotechnology. The main focal points include, but are not limited to, the following:

- *Challenges in large-scale cultivation;*
- *Production, characterization, and purification of poorly studied metabolites;*
- *Opportunities of microalgae as future food;*
- *Alternative pathways for algal biofuel production.*

Guest Editor

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).

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