Special Issue

Integrative Phylogeny, Physiology and Ecology of Cyanobacteria

Message from the Guest Editor

Cyanobacteria are a highly diverse group of oxygenic photosynthetic prokaryotes that inhabit the most extreme sites of our planet in great abundance. Their phylogeny is under constant revision, and they exhibit a versatile physiology and wide ecological tolerance that can also be applied for biotechnological purposes.

The Special Issue will focus on the combination of phylogenetic, morphological, physiological and ecological aspects. For example, the isolation of new strains, their identification and screening for new active agents and valuable substances, or physiological characterization that explains ecological distribution patterns or opens up potential new applications in biotechnology. Possible review and research articles could be, for example, the exploitation of terrestrial cyanobacteria in PHB production; the application of cyanobacteria as producers in urban biofilm reactors; the use of novel gene regions for phylogenetic differentiation and better interpretation of taxonomic characters.

Guest Editor

Dr. Michael Lakatos

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Deadline for manuscript submissions

closed (31 December 2022)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/113031

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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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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