



Functional Microbial Diversity for Biotechnology

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Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editors

Microorganisms are the ubiquitous janitors of the Earth, occurring in all climate areas and maintaining the stability of living systems around us. Microbial diversity is generally seen as a triad composed of taxonomic, phylogenetic, and functional diversity. Therefore, unravelling the microbial systems through the triadic approach is essential not only to fully understand the evolution and sustainability of life on Earth, but to generate ecological insights that could be harnessed to revolutionize the productivity of white and red biotechnologies.

To best exploit microorganisms, we need to know what is there and what we can use. Since most natural microbiomes remain uncultivated, culture-independent technologies combined with other omics provide an excellent opportunity to recover the hidden players of microbial diversity and exploit them for biotechnological processes.

The aim of this Special Issue of *Microorganisms* is to present a collection of articles and reviews on research addressing the essential link between microbial biodiversity patterns and ecosystem functioning as a core driver of biotechnological services.





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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 - Q2 (*Microbiology (medical)*)

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