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Microbial Biotechnology in Agriculture

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editors

Pathogenic microorganisms are known to provoke serious ecological and economical damage for agriculture, in the origin and also post-harvest, a problem that has intensified over the last few decades. The development of less environmental aggressive managing methods is therefore highly demanded to combat not only this continuous thread, but also to limit collateral damage that reduces the sustainability of agriculture.

This Special Issue aims at providing a state-of-the-art overview of the role of microbial biotechnology for the implementation of sustainable agricultural practices. This Special Issue is intended to cover research related to biotechnological strategies for the improvement of crop fields, emphasizing the use of microbes to fight microbial plant pathogens, the improvement of plant growth, the production of secondary metabolites of potential application in agriculture, and the use of -omics technologies for the understanding of global changes occurring in specific ecological niches.

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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*)

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