Special Issue

Microorganisms as Biocontrol Agents in Plant Pathology

Message from the Guest Editors

Plant diseases occur in the entire crop production chain and are one of the greatest threats to the sustainable development of society, resulting in yield and economic losses. However, the intensive use of chemical fungicides to suppress the growth of plant pathogens has contributed to environmental pollution, biodiversity losses, undesirable effects on human health and the development of pathogen resistance. Thus, biopesticide application to replace synthetic chemicals creates a balance amongst economic productivity and environmental protection.

In this Special Issue, we invite you to contribute with any aspects related to the biological control of microorganisms. This may include, for instance, plant-growth-promoting bacteria or fungi, endophytes and/or epiphytes involved in plant tolerance to stressful factors, in the acquisition of limited nutrients or in the production of secondary metabolites with antimicrobial activities. The molecular aspects related to the interaction between plants and their microbial community, as well as the exploitation of omics approaches to reveal key genes/metabolites/proteins of biocontrol microorganisms, are also welcome.

Guest Editors

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Deadline for manuscript submissions

closed (15 February 2024)



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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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