

Special Issue

Advances in Microbial Endophytes Omics and Fungal Biocontrol Agents

Message from the Guest Editor

The plant microbiomes—endophytes and biocontrol microbes—have the ability to colonize a plant's internal tissues, shaping plant traits and interactome, as well as ensuring protection from abiotic and biotic stresses, including diseases, insect pests, and pathogenic nematodes. Despite these attributes, a profound understanding of the genomic, transcriptomic and proteomics drivers is lacking, impeding advancement of knowledge on core mechanisms of metagenomic-multitrophic interactions linked to plant resistance, host plant protection, and environmental sustainability. The aim of this Special Issue, entitled “Advancements in Microbial Endophytes Omics and Fungal Biocontrol Agents”, is to explore recent innovations, theoretical concepts and contemporary experimental models, surrounding true endophytic and biocontrol modes of actions (e.g. hyper-parasitism and predation), which are linked to the direct and indirect promotion of plant growth, physiology, and resistance.

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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