Special Issue

Beneficial Microorganisms Against Phytopathogens: Innovations in Sustainable Plant Protection

Message from the Guest Editors

We are pleased to invite you to contribute to this Special Issue, entitled "Beneficial Microorganisms against Phytopathogens: Innovations in Sustainable Plant Protection". The urgent need reduce the usage of chemical pesticides, tackle emerging pathogen resistance, and ensure environmentally sustainable crop production has highlighted the vital role that beneficial microorganisms play in the management of plant disease. These microorganisms, such as plant growth-promoting endophytic and rhizobacteria (PGPR) and free-living and mycorrhizal fungi, offer diverse mechanisms of biocontrol; these include pathogen suppression, competition, the induction of systemic resistance, and the promotion of plant growth. Exploring these interactions is crucial for building resilient agroecosystems and advancing eco-friendly disease control strategies.

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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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