Special Issue

Rhizosphere Bacteria and Fungi That Promote Plant Growth

Message from the Guest Editor

"Rhizosphere Bacteria and Fungi that Promote Plant Growth" aims to recognize the critical role of microorganisms associated with plant root systems and their physical, chemical and biological interactions in promoting plant growth and health. Before applying soil microbial techniques, it is crucial to understand the fundamentals of rhizosphere microbial ecology, such as the diversity and function of rhizosphere microbes.This Special Issue will focus on various aspects of microbial interactions, plant growth promotion by bacteria and fungi (endophytic or free-living), symbionts (mutualistic relationships) including nitrogen-fixing bacteria (Rhizobium), plant growth-promoting rhizobacteria (PGPR), associative or casual (free-living microorganisms), plant-microbe genetics and genomics, roles of soil microorganisms and their interactions with the plant microbiome interactions, nutrient availability, and mechanisms associated with plant growth promotion.

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.

Editor-in-Chief

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Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 20 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).

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