

Special Issue

Advances in Microbial and Plant Biotechnology

Message from the Guest Editors

This Special Issue aims to compile the latest research on the mechanisms of interaction between plants and symbiotic partners, as well as new perspectives and directions in microbial and plant biotechnology. Papers addressing the topic “plant biotechnology” may include research on cell and tissue culture of higher plants in vitro, plant micropropagation, the use of modern breeding methods, plant genome editing and plant bioinformatics. All directions in this topic should in one way or another be connected with microorganisms. Papers related to the biotechnology of microorganisms may include those on the research of plant biocontrol agents based on microorganisms; on the application of modern methods of the breeding and genome-editing of bacteria; on the biodiversity, taxonomy and evolution of microorganisms; and on the metagenomics of soil microbial communities.

Papers discussing plant-microbe interactions may include studies of legume-rhizobial symbioses and other symbioses of plants and microorganisms, arbuscular mycorrhiza, microbiome of rhizosphere and endophytic communities in plant-microbe interactions, as well as plant interactions with pathogenic microorganisms.

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).