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Advances in Microbial and Plant Biotechnology

Guest Editors:

Dr. Svetlana V. Veselova
Institute of Biochemistry and Genetics, Ufa Federal Research Centre, Russian Academy of Sciences, Prospekt Oktyabrya, 71, 450054 Ufa, Russia

Prof. Dr. Igor Maksimov
Institute of Biochemistry and genetics of the Ufa Federal Research Centre of the Russian Academy of Sciences, 450054 Ufa, Russia

Deadline for manuscript submissions:
closed (31 October 2023)

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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Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Systems Biology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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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Contact Us

Microorganisms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/microorganisms
microorganisms@mdpi.com
𝕏@Micro_MDPI