Special Issue

Probiotic Microorganism in Plants, Rhizosphere and Soil 2021

Message from the Guest Editor

In the last few years, knowledge on the rhizosphere microbiota, its interaction with plants and its role in soil fertility has progressed. There is clear evidence that plants shape the structure of this microbiota, most probably by root exudates and also that bacteria have developed various adaptations to survive and grow in this hard rhizospheric niche. The mechanisms of these interactions still need to be elucidated, and further studies are necessary.

Moreover, it has become clear in the last decade that the addition of beneficial microorganisms, referred to as "probiotics", to the rhizosphere may be a successful way to improve plant health and soil nutrient management. This Special Issue aims to summarize current knowledge on the interactions between plants and rhizosphere associated bacteria and/or inoculated bacteria to improve the understanding of this aspect of plant nutrition.

For this purpose, we invite you to submit research articles, review articles and short communications related to the relationship between beneficial and probiotic microorganisms and the plant/soil system.

Guest Editor

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Deadline for manuscript submissions

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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).

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