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Interaction of Plants and Endophytic Microorganisms: Community, Functions and Applications

Guest Editors:

Prof. Dr. Encarna Velazquez

Dr. José David Flores-Félix

Dr. Martha Helena Ramírez-Bahena

Dr. Zaki Saati-Santamaría

Deadline for manuscript submissions:
closed (15 March 2024)

Message from the Guest Editors

In the last decade, knowledge about the bacterial population that inhabits plants has taken a rather simple view with limited interactions, and the actual situation is now known to involve a complex network of interactions between plants, microbes and metazoans. In this community, endophytic bacteria are highly relevant because some of these bacteria can act as plant biostimulants through diverse growth promotion mechanisms. This has increased the interest in the knowledge of their biodiversity, metabolism and phylogenetic relationships. Since endophytic bacteria may have advantages as plant growth promoters over rhizospheric ones, they will play key roles in the formulation of biostimulants that increase plant yield and health.

This Special Issue will focus on the analysis of plant bacterial endophyte diversity, the phylogenetic relationships among bacteria inhabiting different plant tissues and plant hosts as well as their relevance in the plant growth, health and resistance to environmental stresses.

We encourage the submission of research original articles and reviews addressing these topics.

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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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Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology (medical)*)

Contact Us

Microorganisms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/microorganisms
microorganisms@mdpi.com
𝕏@Micro_MDPI