Special Issue

Symbiotic Plant-Bacterial Endospheric Interactions

Message from the Guest Editor

While plant-microbe symbioses, involving root nodules (Rhizobia and Frankia) or the root-soil interface (rhizosphere), have been well-studied, the intimate interaction of the phytobiota, endophytes and epiphytes, with the plant host is a relatively new field of research. Nutrient acquisition, phytohormone production and modulation, antimicrobials and other defense-related compounds, and native and xenobiotic chemical detoxification are all ways in which the phytobiome can impact plant health. These interactions may be essential to how plants in their native environments survive and thrive, especially in challenging environments. This Special Issue highlights recent research on the importance of the phytobiome to plant health and growth, with an emphasis on native plant-microbe interactions.

Guest Editor

Prof. Dr. Sharon Lafferty Doty
School of Environmental and Forest Sciences, University of Washington, Seattle, WA, USA

Deadline for manuscript submissions

closed (20 October 2017)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/7677

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

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

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

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

Rapid Publication:

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).

MDPI