Special Issue

Microbial Biostimulants: From the Lab to the Field for a New Agriculture 2.0

Message from the Guest Editor

This Special Issue aims to bring together a sample of very recent developments in microbial biostimulants for agriculture, on their way to the biofertilizer market or recently available to diverse agricultural production sectors, whether it be in horticulture, environmental and fruit arboriculture, viticulture, silviculture, or vegetable or crop production. The development of these innovating products has been based on chemistry, biochemistry, biotechnology, and microbiology applied to agriculture, taking into account the physiological, agricultural, and ecological constraints of plants. Finally, these plant microbial biostimulants must be effective at very low doses, while being ecologically friendly. They especially must produce a positive and reproducible effect on crops. Whether bacteria or fungi, these microorganisms that can be used as plant biostimulants and plant health promoters are part of a wide unknown microbial diversity, constituting the rhizospheric, epiphytic, or endophytic microbiota which are on the way to being domesticated.

Guest Editor

Prof. Dr. Francois Lefort

Plants and Pathogens Group, Research Institute Land Nature and Environment, Hepia, HES-SO University of Applied Sciences and Arts Western Switzerland, Jussy, 1200 Geneva, Switzerland

Deadline for manuscript submissions

closed (31 March 2023)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/102476

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