

Special Issue

Microbial Biotechnologies and Microorganism Interactions for Sustainable Agriculture

Message from the Guest Editors

Microbial biotechnologies have emerged as a cornerstone of sustainable agriculture, offering innovative tools to enhance productivity while preserving environmental integrity. This Special Issue invites high-quality contributions focusing on two key areas: microbial biotechnologies for sustainable agricultural development and the investigation of microorganism interactions with similar objectives. Submissions may include research on biotechnological innovations, bioinoculants, biopesticides, and bioformulations, as well as studies on synergistic and antagonistic microbial interactions that enhance biocontrol and ecosystem health. Contributions addressing the discovery and application of new bioactive molecules, omics-driven insights, and ecological interaction studies are also encouraged. Original research, reviews, and perspectives in these distinct yet complementary fields are welcome to advance the science and practice of sustainable agriculture.

Guest Editors

Prof. Dr. Dario Rafael Olicón-Hernández

Departamento de Microbiología, Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional, Prolongación de Carpio y Plan de Ayala S/N, Casco de Sto Tomás, Alcaldía Miguel Hidalgo, Mexico City C.P. 11340, Mexico

Prof. Dr. Guerra-Sanchez Guadalupe

Departamento de Microbiología, Instituto Politécnico Nacional, Escuela Nacional de Ciencias Biológicas, Plan de Carpio y Plan de Ayala S/N Santo Tomás, Miguel Hidalgo, Mexico City C.P. 11340, Mexico

Deadline for manuscript submissions

31 October 2025



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/223846

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

[mdpi.com/journal/
microorganisms](https://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](https://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, CAPus / 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).