

# Special Issue

## Role of Soil Microorganisms in Agricultural Production and Environmental Biotechnologies

### Message from the Guest Editor

You are invited to contribute to this Special Issue, which seeks to present scholarly publications focused on soil microorganisms. The objective is to advance understanding and enhance practical applications within a multidisciplinary context.

Recent advancements in metagenomics and metabarcoding have considerably expanded our understanding of microbial communities in both natural and agricultural soils. Concurrently, heightened awareness regarding environmental pollution and health concerns for humans and animals has contributed to a notable decline in pesticide use for crop protection and nutrition. The intersection of these developments has fostered both fundamental and applied research in soil microbiology. Such applications include stimulating plant growth through bacterial or fungal promoters, developing biocontrol agents (BCAs) capable of competition or antagonism, and harnessing the vast potential of microbial metabolisms for biotechnologies to mitigate pollution and improve soil quality. This Special Issue seeks to present high-quality scientific contributions addressing soil microorganisms and their roles in agriculture and biotechnology.

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### Guest Editor

Prof. Dr. Gianluigi Cardinali  
Department of Pharmaceutical Sciences, Università degli Studi di Perugia, Perugia, Italy

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### Deadline for manuscript submissions

20 May 2026



**Microorganisms**

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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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### Editor-in-Chief

Dr. Nico Jehmlich

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#### 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 20 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).