## **Special Issue**

# Microbial Diversity and Ecology in Different Environments

## Message from the Guest Editors

This Special Issue focuses on the comprehensive characterization of microbial diversity and ecology across various environments, including terrestrial ecosystems (soil, rhizosphere, plantassociated microbiomes), aquatic systems (marine, freshwater, sediments), extreme environments (hypersaline, acidic, high-temperature, polar regions), and host-associated microbiomes (animals, plants, humans). We encourage submissions that employ cutting-edge approaches, such as metagenomics, metatranscriptomics, and culturomics, to explore microbial community structure, function, and dynamics. Other omics to understand the molecular mechanisms related to microbial characteristics are welcome. Particular emphasis is placed on studies that correlate microbial diversity with ecosystem functions, investigate host-microbe interactions, and explore the biotechnological potential of novel microorganisms and their metabolic pathways. We expect research addressing microbial adaptation mechanisms, community assembly processes, response to environmental changes, and the discovery of new bioactive compounds or enzymes with industrial applications.

## **Guest Editors**

## Prof. Dr. Diogo Neves Proença

 MED—Mediterranean Institute for Agriculture, Environment and Development & CHANGE—Global Change and Sustainability Institute, Faculdade de Ciências e Tecnologia, Universidade do Algarve, Campus de Gambelas, 8005-139 Faro, Portugal

 Centre for Mechanical Engineering, Materials and Processes (CEMMPRE), Advanced Production and Intelligent Systems (ARISE), Department of Life Sciences, University of Coimbra, Calçada Martim de Freitas, 3000-456 Coimbra, Portugal

#### Prof. Dr. Maria Carolina Quecine

Department of Genetics, Luiz de Queiroz College of Agriculture, University of São Paulo, 11 Pádua Dias Av., Piracicaba 13418-900, SP, Brazil

## Deadline for manuscript submissions

31 May 2026



## **Microorganisms**

an Open Access Journal by MDPI

Impact Factor 4.2 CiteScore 7.7 Indexed in PubMed



mdpi.com/si/254956

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



## **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).

