

Special Issue

Microbial Life and Ecology in Extreme Environments

Message from the Guest Editor

Microorganisms thriving in extreme environments demonstrate incredible resilience and diversity, adapting to conditions such as extreme heat, cold, acidity, or salinity that are inhospitable to most life forms. From the boiling temperatures of geothermal springs to the biting cold of the cryosphere, these microbes showcase the breadth of life's potential. The aim of this Special Issue is to delve into the intricate adaptations of these microorganisms in extreme environments, exploring their ecological roles and the genomic insights that reveal their evolutionary history. As of this Special Issue, we invite you to submit original research articles, review articles, and short communications related to the topic.

Guest Editor

Dr. Lara Vimercati

Department of Ecology and Evolutionary Biology, University of Colorado,
Campus Box 334, Boulder, CO 80309, USA

Deadline for manuscript submissions

28 February 2026



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/215930

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, 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).