# **Special Issue**

# New Insights into the Diversity and Characterization of Extremophiles

# Message from the Guest Editors

In recent decades, extremophilic microorganisms have gained increasing attention in biotechnological applications and bioremediation processes due to their unique metabolic capabilities, the production of stable enzymes under extremely hostile conditions, and unique biomaterials and secondary metabolites. The diversity in extreme environments is usually low, but the few species that colonize them have become highly adapted as a result of their enormous variety of strategies. The biological characteristics of extremophiles and the adaptation mechanisms developed for their molecular machinery may have great economic potential in many industrial processes, including environmental applications in food, agriculture and pharmaceuticals, among others. In this Special Issue of *Microorganisms*, we welcome contributions (original articles as well as reviews) related to microorganism diversity in extremophilic environments, microbial community dynamics, metagenomics, physiological characterization of microorganisms, stress response, and molecular biology. Prof. Dr. María-José Bonete

### **Guest Editors**

Prof. Dr. María José Bonete

Dr. Mónica Camacho

Dr. Julia Esclapez

# Deadline for manuscript submissions

closed (31 October 2024)



# Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/146768

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).

