# Special Issue

# Extremophilic Microorganisms and Their Communities

## Message from the Guest Editors

It is generally appreciated that microorganisms thriving in extreme environments with physical-chemical conditions hostile to common life are taxonomically, genetically, and metabolically diverse and exhibit a plethora of exiting, often counterintuitive, mechanisms of adaptation of a fundamental and applied significance. Environmental parameters where these microorganisms thrive include extreme (high or low) temperatures, pH values, elevated salinities, high hydrostatic pressure, low water activity, high levels of ionizing radiation, and high concentrations of heavy metals or organic solvents. Although extremophilic microbiology is quickly expanding, many aspects still need to be explored and understood, and new microorganisms inhabiting extreme environments still await their isolation and characterization. The aim of this Special Issue is to inform a broader readership on recent studies on extremophilic microorganisms and their communities examined through a range of approaches, from in silico to wet lab investigations and cultivation. As the , we are looking forward to receiving your valuable contributions in the form of either original research or review papers.

## Guest Editors

Dr. Olga V. Golyshina

School of Natural Sciences/Centre for Environmental Biotechnology, Bangor University, Deiniol Rd., Bangor LL57 2UW, UK

Dr. Michail M. Yakimov

Marine Molecular Microbiology & Biotechnology Institute for Biological Resources and Marine Biotechnologies, CNR-IRBIM Sede di Messina, Spianata San Raineri, 8698122 Messina, Italy

## Deadline for manuscript submissions

closed (31 December 2022)

**Microorganisms**

**an Open Access Journal by MDPI**

**Impact Factor 4.2**
**CiteScore 7.7**
**Indexed in PubMed**

mdpi.com/si/91082

*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

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).

MDPI