

# Special Issue

## Advances in Halophilic Microorganisms

### Message from the Guest Editor

Halophilic microorganisms refer to a type of extremophile microbe that thrives in highly saline environments, represented by archaea, bacteria, and eukaryotes such as fungi. High salinity is an extreme environment that relatively few organisms can adapt to and survive. Mainly, they have different osmotic adaptation strategies to survive in such harsh conditions. The habitat diversity of halophilic microorganisms in hypersaline systems provides information about the evolution of life on Earth. However, more findings are needed to understand the role of halophilic microorganisms in hypersaline environments, their adaptation to these environmental conditions, their genetic and functional diversity, and their phylogenetic position. For this Special Issue of *Microorganisms*, we invite you to submit research articles, review articles, brief notes, and communications related to halophilic microorganisms, including, but not limited to, bacteria, fungi, microalgae, and archaea. We look forward to receiving your contributions.

### Guest Editor

Prof. Dr. María del Rayo Sanchez-Carbente

Centro de Investigación en Biotecnología de la Universidad Autónoma del Estado de Morelos, Av. Universidad 1001, Cuernavaca 62209, Morelos, Mexico

### Deadline for manuscript submissions

closed (31 January 2026)



## Microorganisms

an Open Access Journal  
by MDPI

Impact Factor 4.2  
CiteScore 7.7  
Indexed in PubMed



[mdpi.com/si/205134](https://mdpi.com/si/205134)

*Microorganisms*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[microorganisms@mdpi.com](mailto: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 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).