Special Issue

Physiology and Enzymology of Hyper/Thermophiles

Message from the Guest Editor

Hyper/thermophiles have been isolated from various geothermal environments, including hot springs, volcanic areas, and deep-sea thermal vents. Many different types of hyper/thermophiles, such as heterotrophs, autotrophs, aerobes, and anaerobes, have been characterized, showing their diverse metabolic capabilities and physiological properties. Their remarkable features are high-temperature-dependent growth and heat-resistant macromolecules, especially for thermostable enzymes. Great progress has been made in understanding how proteins of hyper/thermophiles are stabilized, as well as in identifying their catalytic mechanisms and functions at high temperatures. Many thermostable enzymes from hyper/thermophiles have also been used in biotechnological applications. This Special Issue is dedicated to the topic of "Physiology and Enzymology of Hyper/thermophiles."

Guest Editor

Dr. Kesen Ma
Department of Biology, University of Waterloo, Waterloo, ON, Canada

Deadline for manuscript submissions

closed (30 December 2023)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/165015

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