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

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Deadline for manuscript submissions

31 January 2026

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/205134

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mdpi.com/journal/microorganisms

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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.

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