

Special Issue

Microbial Responses and Adaptations to Environmental Changes

Message from the Guest Editor

This Special Issue aims to bring together research focused on the molecular, genetic, and physiological processes that enable microorganisms to adapt to environmental stressors. We invite submissions that explore the complex interplay between microbes and the changing environments, including but not limited to, responses to temperature fluctuations, nutrient availability, pollutants, and antimicrobial agents. Contributions may include original research articles, reviews, and short communications that highlight microbial adaptation strategies, the underlying molecular and biochemical pathways, and the ecological consequences of these adaptations. By fostering dialogue and knowledge exchange around microbial resilience, this Special Issue aims to provide a comprehensive understanding of how microorganisms navigate and thrive in a rapidly changing world. The findings from this collection will contribute valuable insights into the mechanisms that govern microbial adaptability, with potential implications for ecosystem management, environmental conservation, and the development of innovative biotechnological solutions.

Guest Editor

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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

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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).