Special Issue

Mycobacterial Research

Message from the Guest Editor

Mycobacteria, with their complex biology and significant impact on human health, are a critical focus of microbiological research. Their ability to cause diseases such as tuberculosis and leprosy, combined with their adaptability to diverse host environments, highlights the need to deepen our understanding of their molecular mechanisms, immune interactions, and ecological roles. The following topics are covered in this Special Issue:

- Genomic and proteomic analyses of mycobacterial virulence factors
- The mechanisms of immune response modulation by mycobacteria
- Antimicrobial resistance and novel therapeutic targets
- Co-infections involving mycobacteria and their clinical implications
- Microbiome–mycobacteria interactions in health and disease
- Translational research for diagnostics, vaccines, and treatments

We invite contributions employing multidisciplinary approaches—from molecular biology and immunology to computational modeling and clinical studies—that advance our understanding of mycobacterial biology and its broader implications. Both fundamental research and applied innovations are welcome, including studies that bridge basic science with clinical or public health applications.

Guest Editor

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Deadline for manuscript submissions

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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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JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

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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).

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