

Special Issue

Emerging Trends in Microbial Pathogenesis and Host Immune Responses

Message from the Guest Editors

Recent advances in microbiology and immunology have significantly improved our understanding of the dynamic interactions between pathogenic microorganisms and host immune responses. The Special Issue aims to highlight novel insights into the molecular and cellular mechanisms by which bacteria, fungi, and other pathogens influence disease development and progression. Particular attention will be given to host–pathogen interactions, immune evasion strategies, inflammatory signaling pathways, microbial virulence factors, and the role of the microbiome in health and disease. This Issue will also explore innovative diagnostic approaches and potential therapeutic strategies targeting microbial infections and dysregulated immune responses. By bringing together original research and comprehensive reviews, this Special Issue seeks to provide an updated perspective on current challenges and future directions in microbial pathogenesis and translational immunology.

Guest Editors

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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.

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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).