

Special Issue

Microbial Genomics in the Age of Omics and Artificial Intelligence

Message from the Guest Editors

This Special Issue invites manuscript submissions that enhance our comprehension of host–pathogen interactions. Topics of interest include, but are not limited to, the identification of virulence factors and resistance-associated genes within pathogenicity and resistance islands using pangenomic strategies, the discovery of novel vaccine and drug targets through reverse vaccinology and subtractive genomics to address the escalating issue of multi-drug resistance, and the prediction of protein–protein interactions and metabolic pathways, accompanied by analyses of biofilm formation. Submissions focusing on one health perspectives, genomic islands, and pangenomic approaches with a particular emphasis on antibiotic resistance are highly encouraged.

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.

Editor-in-Chief

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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).