

Special Issue

Bioinformatics and Omic Data Analysis in Microbial Research

Message from the Guest Editor

This Special Issue explores the current applications of omics to understand the interplay/function of microbes in ecology, agriculture, disease, homeostasis, and industry. We solicit papers covering new research or reviews related to software development, pipeline development, or application of bioinformatics to address important current topics concerning microorganisms. Papers may focus on any group of microorganisms including viruses, bacteria, fungi, protists, etc., using bioinformatics to decipher biologically relevant understandings through genomics, proteomics, metabolomics, transcriptomics, or any combination. Given the important biological roles of microorganisms, the application of omics in these organisms is critical to elicit a deeper understanding. Relevant areas of interest might include speciation and species complexes, and pan genome analyses including gene transfer, gene networks, microbiomes, symbiosis and pathogenesis.

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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).