Special Issue

The Molecular Epidemiology of Infectious Diseases

Message from the Guest Editor

Molecular epidemiology of infectious diseases investigates disease transmission by studying the genetic makeup of pathogens, utilising advanced molecular biology techniques. This field has revolutionised epidemiology by enabling detailed investigations into disease spread, outbreak sources, and effective control measures. By analysing the genetic information of pathogens, researchers can trace disease spread, identify outbreak sources and determine the most effective measures to control transmission. Additionally, molecular epidemiology can identify specific virulence factors that contribute to disease severity, leading to the development of targeted treatments and improved patient outcomes. For this Special Issue of Microorganisms, we welcome original research, short communications, and reviews covering all aspects of molecular epidemiology in infectious diseases. This includes investigations into genotyping and sequencing techniques, studies on disease transmission and outbreak sources, and research on host-pathogen interactions.

Guest Editor

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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).

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