

Special Issue

Detection and Pathogen Analysis of (Re)emerging Infectious Diseases

Message from the Guest Editors

The escalating frequency and global impact of (re)emerging infectious diseases underscore an urgent need for rapid, accurate, and comprehensive detection methodologies. Contributions explore advanced molecular diagnostics, including next-generation sequencing and CRISPR-based platforms, alongside innovations in biosensors, metagenomics, and point-of-care technologies. A central theme is the integration of traditional microbiological techniques with novel computational tools for real-time data sharing, genomic epidemiology, and antimicrobial resistance profiling. This collection highlights the critical role of cross-disciplinary approaches in bridging the gap between clinical diagnostics, environmental monitoring, and public health response. By presenting case studies on emerging viral, bacterial, and fungal threats—from outbreak investigation to evolutionary tracking—this Special Issue provides a vital resource for researchers, clinicians, and policymakers striving to strengthen global health security against current and future infectious threats.

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Editor-in-Chief

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