

Special Issue

Epidemiology, Diagnostic Tools, and Vaccination Strategies for Emerging Infectious Diseases: Preparing for the Next Pandemic

Message from the Guest Editors

This Special Issue will focus on advancing the research in epidemiological surveillance, diagnostic tools, and vaccination strategies to address challenges posed by emerging and vaccine-preventable diseases. By fostering innovation and global collaboration, we aim to help strengthen healthcare systems and enhance preparedness for future pandemics.

Suggested themes, but are not limited to, the following:

1. Epidemiological Surveillance

Strategies for the real-time monitoring of infectious disease outbreaks.

Applications of artificial intelligence and big data in disease surveillance.

The integration of digital tools into epidemiological risk assessment.

2. Innovations in Diagnostic Technologies

The development and evaluation of point-of-care diagnostic devices.

Advances in molecular diagnostics, including CRISPR and NGS technologies.

Multi-pathogen panels for the simultaneous detection of co-infections.

3. Emerging and Reemerging Diseases

Risk assessment and preparedness for diseases such as dengue, Zika, and Chagas.

The surveillance of sexually transmitted infections and vaccine-preventable diseases.

Guest Editors

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