

Special Issue

Big Data Analytics and Artificial Intelligence Applications in Microbiology and Infectious Diseases

Message from the Guest Editor

This Special Issue focuses on the cutting-edge intersection of 'Big Data Analytics and Artificial Intelligence Applications in Microbiology and Infectious Diseases.' With the rapid evolution of computational tools and the increasing availability of large-scale biological and clinical datasets, this topic is both timely and impactful. We aim to highlight novel AI methodologies, predictive models, and real-world applications that support the diagnosis, surveillance, and treatment of infectious diseases. We seek contributions that explore how big data and AI can enhance our understanding of microbial pathogens, improve diagnostic accuracy, forecast disease outbreaks, and optimize therapeutic strategies. This Special Issue will bring together researchers and practitioners to share their latest advancements and foster interdisciplinary collaborations in this critical field.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

Prof. Dr. Hinh Ly

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