Special Issue

Advanced Detection and Bioinformatics of Foodborne Pathogens

Message from the Guest Editor

There is still a considerable amount of scientific research that has to be carried out in order to gain a better understanding of emerging foodborne pathogens such Arcobacter, Cyclospora, hepatitis E virus, and Clostridium perfringens type E, which have recently increased in prevalence or have newly emerged as significant threats to food safety. These pathogens may have adapted to new environments, developed resistance to antimicrobial agents, or evolved to infect new hosts. Furthermore, conventional techniques used to identify and analyze foodborne pathogens through culturing have been shown to be time-consuming, labor-intensive, and requiring extensive infrastructure. Therefore, these approaches are not suitable for future prospects of food production and processing.

In this Special Issue, we aim to provide a platform for food microbiology researchers to present their recent research advances and solutions involving rapid pathogen detection methods, bioinformatics and metagenomics, nanotechnology, AI, the prevalence of antibiotic resistance in foodborne pathogens, and precision agriculture. We welcome you to submit original research articles, communications, or reviews.

Guest Editor

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Deadline for manuscript submissions

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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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