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Detection and Identification of Pathogenic Bacteria and Viruses

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Deadline for manuscript submissions:
31 October 2024

Message from the Guest Editors

Pathogen detection and identification is a fundamental component of the successful response and control of epidemics and pandemics caused by bacteria and viruses, both in natural outbreaks and in intentional releases of bioterrorism agents. This essential component depends on the availability of robust and well-standardised diagnostic tools, which constitute the front-line defence in the fight against epidemics/pandemics in modern laboratories and hospitals. Nevertheless, innovative diagnostics providing sample-to-answer types (e.g., point-of-care testing devices and lab-on-chip technologies) are highly required, as they enable first responders to readily analyse on-site in the field, where molecular and biochemical diagnostics are badly needed. Scientific research is therefore crucial for a better understanding of pathogenicity, anti-microbial resistance virulence factors transfer, and drug escape mechanisms through sound studies of pathogens' close neighbours at the biochemical and genetic levels. Therefore, valuable manuscripts addressing these specific topics will have the priority and privilege of being considered for publication in this Special Issue of the journal.

mdpi.com/si/141989

Special Issue

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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.

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Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology*)

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