Special Issue

New Insights into Epidemiology, Detection and Characterization of Bacterial Pathogens

Message from the Guest Editors

Bacterial infections are a major cause of morbidity and mortality worldwide, posing considerable health, social, and economic burdens. Therefore, rapid detection and accurate identification of the causative agents play a crucial role to optimize treatment and control measures. The need for rapid and precise methods for detection and characterization is of peculiar importance in the case of highly virulent bacteria associated with severe life-threatening diseases and of multidrug-resistant agents associated with difficult to treat infections. In this Special Issue, we aim to address the most recent advances on the use of molecular methods based on genomic and proteomic approaches, mass spectrometry, digital microbiology, machine learning and bioinformatics applied to the detection, characterization and epidemiology of bacteria and bacterial infections.

Guest Editors

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Dr. Cheryl P. Andam

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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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