Special Issue

Advancements in Pathogenic Bacteria: Detection, Genomic Analysis, and Antibiotic Resistance

Message from the Guest Editor

The detection of pathogenic, identification and susceptibility testing have been the core of microbiology labs, either in the diagnostic fields or research laboratories.Bacterial infections can have a devastating effect on patients. The identification of microorganisms, especially uncommon bacteria. From specific PCR and real-time PCR assays to whole-genome sequencing, bacterial identification is becoming more sophisticated and challenging for microbiologists and new, reliable and easy-to-use tools are necessary.The wide spread of antimicrobial resistance (AMR) among even common bacterial isolates has become another significant challenge, not only in terms of the identification of these pathogens but also in the development of faster detection methods, which could detect infected patients or carriers of such organisms, thus aiding in the prevention of dissemination to other patients and helping customize the use of the appropriate antimicrobial agent.This Special Issue aims to provide a collection of articles that showcase the current issues relating to the detection, genomic analysis and antibiotic resistance of pathogenic bacteria.

Guest Editor

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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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