Special Issue

Infectious Disease Testing and Pathogenic Bacterial Virulence Identification

Message from the Guest Editor

In recent years, there has been a growing awareness among patients and clinicians of the importance of rapid and accurate diagnosis of the source of infection to prevent the spread of high-risk pathogenic microorganisms and counteract the development of antibiotic resistance. A major contribution to this was made by the preventive tasks undertaken to limit the spread of the COVID-19 pandemic, which showed that the current state of knowledge makes it possible to create a reliable diagnostic test against the new pathogen in a relatively short period of time. In addition to genomic and proteomic approaches, which are most widely used in the context of in-depth identification of microorganisms, there are increasing reports on the use of lipidomic analysis to push the boundaries of the previously mentioned methods. To help to understand the latest developments in pathogen testing and their virulence assessment, this Special Issue presents works related to new methods of microbial identification, drug resistance detection, and virulence factor determination using genomic, proteomic, as well as lipidomic approaches.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

Editor-in-Chief

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