Special Issue

Bacteriophages and Their Proteins as Diagnostic Tools for Bacterial Infections

Message from the Guest Editor

Bacterial pathogens are a major cause of disease and mortality worldwide, mainly due to the increasing prevalence of antibiotic resistance. (Bacterio)phages are viruses that infect bacteria. Due to their high specificity, sensitivity, and stability, phages and phage proteins have shown potential as bacterial probing elements in diverse detection systems. This Special Issue is devoted to publishing original studies on the use of phages and phage-derived proteins as diagnostic tools for bacterial infections. It also seeks to collect research articles that exploit and characterize new phage proteins that have potential as bacterial recognition elements. Moreover, studies that present current advances in genetic engineering of phages and phage proteins for providing superior bacterial detection probes are welcome. This Special Issue also accepts review articles or short communications related to these topics. Keywords: bacterial infections; diagnostic; bacteriophage; bacteriophage proteins; receptor binding protein (RBP); cell wall binding domain (CBD); biosensors; lab-on-chip

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.

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