Mechanisms of Bacterial Antibiotic Resistance and Interventions to Prevent Their Spread

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closed (31 December 2022)

Message from the Guest Editors

Dear Colleagues,

Antimicrobial resistance (AMR), including bacterial antibiotic resistance, remains a global public health threat, causing over 700,000 deaths each year. In the November 2020 report published by the Wellcome Trust, it is clear that the trajectory and success of our response to AMR will depend on actions and policies of the next few years.

In this Special Issue, we welcome the sharing of new insights into bacterial (including *Mycobacterium tuberculosis*) antibiotic resistance and control. We look forward to contributions in the form of original research or systematic reviews in the following areas:

- Mechanisms of bacterial antibiotic resistance, as well as resistance to new antibiotics and new anti-tuberculosis drugs
- Appropriate prescribing of antibiotics
- Novel infection prevention methods for preventing the spread of drug-resistant bacteria in the hospital setting and community setting
- The role of the human and environmental microbiome on bacterial antibiotic resistance

Keywords: bacterial antibiotic resistance; antibiotic stewardship; microbiome; drug-resistant tuberculosis; infection prevention; novel antibiotics

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Special Issue

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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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