



Antimicrobial Resistance: The Final Frontier

Guest Editor:

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Message from the Guest Editor

Dear colleagues,

The development of resistance after the discovery of a given antimicrobial is inevitable. The process of resistance development and its dissemination in the healthcare environment and the community are accelerated by misuse of such antimicrobials. During the last two decades, some Gram-negative bacteria have acquired genes that confer resistance to carbapenems, further restricting our limited armamentarium.

The constant rise of antimicrobial resistance constitutes one of the most important public health issues. According to some projections, in a matter of decades, infections due to antimicrobial-resistant pathogens will be responsible for more deaths than diabetes or cancer.

Therefore, this Special Issue seeks submissions concerning the mechanisms and evolution of resistance, the epidemiology and surveillance of resistance in the clinical setting and animal husbandry, clinical applications of existing and newer antimicrobials, and strategies to control the emergence and dissemination of resistance and improve the control of antimicrobials' use.

Keywords: antimicrobial resistance, MRSA, VRE, carbapenemases, infection control, multidrug resistance.





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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 disciplines 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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