

## Special Issue

# Molecular Epidemiology, Antimicrobial Resistance, and Virulence Genes in Drug-Resistant Bacteria

### Message from the Guest Editor

Antimicrobial resistance (AMR) is one of the most serious issues in human and veterinary medicine worldwide. AMR is a natural process wherein microorganisms, particularly bacteria, elicit certain resistance processes, receive resistant genes from other bacteria through horizontal gene transfer, and adapt to antibiotics. Antimicrobial-resistant microorganisms are present in humans, animals, food, plants, and the environment. The primary cause of AMR is the misuse and overuse of antibiotics and poor hygiene and sanitation in both humans and animals. Studies on the diversity, distribution, and persistence of drug-resistant and virulence genes in bacterial populations serve as useful tools for improving the understanding of AMR epidemiology. Therefore, we welcome studies on molecular epidemiology, AMR, and the molecular characterization of antibiotic-resistant and virulence genes in bacteria, which can contribute to the understanding of potential molecular, genetic, and environmental risk factors to the etiology, distribution, and prevention of diseases in healthcare facilities and farms.

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### Guest Editor

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### Deadline for manuscript submissions

closed (29 February 2024)



## Antibiotics

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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 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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### Editor-in-Chief

Prof. Dr. Nicholas Dixon  
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