



Antibiotic Resistance, Virulence Profile and Genomic Analysis among Multidrug-Resistant Bacteria Isolated from Humans and Animals

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Message from the Guest Editors

Currently, antimicrobial resistance is one of the greatest threats worldwide, affecting not only humans and animals, but also the environment. Multidrug-resistant (MDR) bacteria, including zoonotic pathogens, can be exchanged between animals and humans mainly via direct contact, but also from the environment or food products. Understanding the transmission dynamics of these zoonotic bacteria is therefore of utmost importance, where the One Health approach is essential to manage MDR bacteria and to identify the drivers and determinants for their emergence and persistence.

This Special Issue seeks manuscript submissions that help to enlighten our understanding of how MDR bacteria in animals and humans are interconnected. Within the One Health framework, manuscripts concerning the following subtopics (though not exclusively) are especially encouraged:

- Zoonotic bacteria and others;
- Antimicrobial resistance;
- Bacterial virulence traits/mechanisms;
- Microbial genome evolution;
- Pathogen adaptation;
- Infectious outbreaks;
- Sources of infection;
- Animal–human transmission.





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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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