

## Special Issue

# Antibiotic Resistance and Infectious Diseases: A One Health Perspective

### Message from the Guest Editor

Antimicrobial resistance (AMR) should be managed from a One Health perception, integrating comprehensive information regarding the correct use of antibiotics in humans, animals and food chain, but also dealing with the environment, as wildlife ecosystems are potential reservoirs for multidrug-resistant (MDR) microorganisms and antimicrobial resistant genes (ARG). Examples that highlight the risk of rapid dissemination of ARG are the presence of plasmid-encoded carbapenemase and colistin resistance *mcr* genes, which are now showing their worldwide spread variants. It is essential to include the information collected from animal and food chain pathogens into AMR surveillance programs as a part of the One Health framework, since human and animal health is interconnected. In that sense, whole-genome sequencing (WGS) has become an essential tool to identify and understand the origin and spread of AMR and for establishing successful One Health surveillance strategies. This Special Issue will focus on antimicrobial resistance in clinically relevant human pathogens but also animal and food borne transmitted infectious diseases.

### Guest Editor

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## 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

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