



One Health: Opportunities and Challenges of Antibiotic Resistance and Stewardship

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Message from the Guest Editors

The application of a One Health approach to research and policy on antibiotic resistance (ABR) has become an imperative. Currently, the tripartite WHO–FAO–OIE is actively advocating for the integration of human, animal and environmental health when searching for solutions to the ABR problem that could be applicable to various settings. ABR researchers, policymakers and stakeholders face various challenges when applying One Health to their ABR research, as innovative methods are required in order to account for interactions within and across humans, animals and the environment. Exploring past, present, and future challenges in tackling antibiotic resistance across One Health from different perspectives is key in building successful policies to tackle this global issue.

In this Special Issue, we would like to collate evidence from interdisciplinary ABR research performed across the human–animal–environment interface. We welcome research that describes the current challenges of antibiotic resistance and antibiotic stewardship (theoretical, empirical, qualitative and/or quantitative) and discusses how they can be overcome.





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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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