

Special Issue

Challenges to ‘One Health’: Zoonotic and Antimicrobial- Resistant Diseases

Message from the Guest Editors

We welcome submissions that address emerging challenges and advances in the surveillance, transmission, and control of antimicrobial-resistant (AMR) zoonotic pathogens within the One Health framework, encompassing human, animal, and environmental health. Topics of interest include, but are not limited to, the following: One Health surveillance systems for detecting emerging antimicrobial-resistant zoonotic pathogens; genomic epidemiology using whole-genome sequencing to characterize AMR genes, virulence factors, and transmission dynamics across humans, animals, and environmental sources; and the role of environmental reservoirs such as wastewater, soil, and agricultural systems in the dissemination of AMR. We also encourage studies exploring the human–animal interface and its role in the emergence and spread of antimicrobial-resistant zoonoses, particularly in regions with intensive livestock production or close human–animal interactions. Submissions focusing on innovative approaches, including artificial intelligence, genomics, and multi-omics technologies for predicting and monitoring AMR risks, are highly encouraged.

Guest Editors

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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.

Editor-in-Chief

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