

Special Issue

The One Health Perspective: Unveiling Animal and Zoonotic Microbiota in the Frame of Antimicrobial Resistance

Message from the Guest Editors

Antimicrobial resistance (AMR) is a serious, growing threat to modern medicine, food security, and animal welfare. This Special Issue examines the role of farm, companion animals, and animal-derived food, as sources and conduits for resistant bacteria. These reservoirs sustain and amplify resistant strains and serve as pathways for disseminating resistance determinants across species and ecosystems, worsening the global health crisis. The unregulated use of antimicrobials in veterinary practice, livestock, and food production accelerates multidrug-resistant pathogens, compounding health challenges. Under the One Health paradigm, this Special Issue emphasizes interdisciplinary approaches integrating conventional and innovative methods to elucidate molecular mechanisms, track environmental transmission, and strengthen AMR surveillance and control. By bridging microbiology, veterinary science, environmental research, and food safety, we aim to foster a comprehensive understanding of AMR dynamics. We welcome contributions providing actionable insights and solutions to mitigate this escalating crisis, crucial for protecting health, food security, and sustainability.

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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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