

Special Issue

Antimicrobial Resistance in Bacterial Pathogens: Insights from Veterinary Medicine

Message from the Guest Editor

Antimicrobial resistance (AMR) is an increasingly urgent global health threat that transcends species boundaries and ecological contexts. In the field of veterinary medicine, the emergence and dissemination of resistant bacterial pathogens have serious implications—not only for animal health and productivity but also for public health, due to the risk of zoonotic transmission. This Special Issue will bring together current research and perspectives on AMR surveillance in both domestic and wild animal populations, emphasizing the critical need for early detection and harmonized monitoring strategies. Special attention will be given to the molecular mechanisms that drive resistance in animals, including horizontal gene transfer, selection pressure from antimicrobial usage, and the role of environmental reservoirs. Contributions should highlight the importance of antimicrobial stewardship, evidence-based prescribing practices, and the broader influence of farming systems and wildlife ecology on resistance dynamics. Anchored in the One Health approach, this Special Issue will advocate for a comprehensive and integrated understanding of AMR.

Guest Editor

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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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