

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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