Special Issue

Zoonotic Pathogens and Antimicrobial Resistance

Message from the Guest Editors

The global rise of antimicrobial resistance (AMR) in zoonotic pathogens threatens public health, animal health, and environmental sustainability. Resistant bacteria from livestock, wildlife or companion animals cross species barriers easily, endangering food security and human well-being. Exploring AMR transmission dynamics via the One Health framework is essential to effective mitigation.

This Special Issue offers an interdisciplinary platform for research on AMR's mechanisms, drivers and public health impacts in zoonotic microorganisms. We invite original studies and reviews covering molecular/genomic resistance analyses, pathogenomics, surveillance, novel antimicrobials/vaccines, and microbiome or ecological interventions to curb AMR spread. We prioritize submissions addressing policy, risk assessment and management for low- and middle-income regions, which bear a disproportionate AMR burden.

Our goal is to integrate microbiology, veterinary science, genomics and public health insights to inform global AMR containment policies. By uniting innovative findings, we aim to inspire collaborative research that strengthens the fight against AMR at the human–animal–environment interface.

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