



Modern Approaches for Understanding Foodborne Pathogens: Antimicrobial Resistance and Genomics

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Deadline for manuscript submissions:

closed (30 November 2022)

Message from the Guest Editors

Dear colleagues,

Foodborne diseases represent a significant burden across the world, with one in ten people falling ill from contaminated food each year. Advanced approach to investigate the prevalence of foodborne pathogens along the food chain and the transmission of antimicrobial resistance (AMR) are essential to understand the overall problem. Cutting-edge approaches, particularly those involving rapid and high-throughput technologies for detection and source tracking, are critical to conduct risk management, including assessing the antimicrobial resistance. Previous lab-based approaches, including various MIC assays, remain the cornerstone, while the affordable approach, including genomic sequencing, may further advance the field by reformatting the AMR database, improving genotype–phenotype prediction, and applying artificial intelligence and machine learning to recognize the new AMR features. This Special Issue seeks manuscript submissions that further our understanding of antimicrobial resistance among foodborne bacteria over a broad scope. Submissions regarding cutting-edge approaches to recognize and understand antimicrobial resistance are especially encouraged.





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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 disciples 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.

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