Special Issue

Foodborne Pathogens: Detection, Resistance Mechanisms, and Control Strategies

Message from the Guest Editor

Foodborne pathogens pose a significant global threat to human health, animal welfare, and food systems. Prompt identification, including emerging pathogens, is vital for effective outbreak prevention and response. The rising incidence of antimicrobial resistance (AMR) among these pathogens underscores the need for innovative solutions and a comprehensive Farm to Fork strategy. However, prevention and control remain complex challenges requiring ongoing research. Comprehensive insights to address these issues and mitigate their impact on public health and ecosystems are urgently needed. This Special Issue aims to provide an overview of novel and rapid diagnostic methods, and a characterization of resistance mechanisms and control strategies for foodborne pathogens, including from a One Health perspective. We welcome articles featuring emerging pathogens, high-resolution genomics, breakthrough technologies, novel antimicrobials, food safety strategies, and integrated policy approaches. The integration of advanced technologies, coupled with global surveillance and policy coordination, is essential to limit the spread of these pathogens and safeguard public health.

Guest Editor

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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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