Antibiotic Residues, Antimicrobial Resistance and Intervention Strategies of Foodborne Pathogens

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Message from the Guest Editors

Dear Colleagues,

Food products are increasingly recognized as important for usage of antibiotics, resulting in the residues of veterinary drugs, the transfer of antibiotic-resistant bacteria (ARB), and antimicrobial resistance (AMR) and its genes (ARGs) through unexplained mechanisms which represent a public health threat to the general population. It is essential to include the information collected from animal and food chain pathogens into AMR surveillance programs as a part of the One Health framework, since human and animal health are interconnected. Specific attention will also paid to human, animal, plant, food, and environment interfaces, and will try to explore the intervention strategies of foodborne pathogens. Furthermore, it will characterize the composition variation of healthy human gut microbiome in correlation with antibiotic usage and yoghurt consumption. The Special Issue will focus on intervention strategies of food safety by antibiotics used in animal and plants, and will identify ARB and ARG.

Keywords: antibiotic; residues; antibiotic resistance genes; antimicrobial resistance; food safety; foodborne pathogen; intervention strategies; one health

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Special Issue

Editor-in-Chief

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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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