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The Role of Food Chain in the Spread of Antimicrobial Resistance

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Deadline for manuscript submissions:

closed (31 May 2022)

Message from the Guest Editors

Dear Colleagues,

Antibiotic resistance is currently one of the most important public health issues. The food chain is recognized as one of the ways of transmitting antibiotic-resistant bacteria.

The selective pressure exerted by the use of biocides, including compounds widely used in the food industry, could contribute to the expression and dissemination of antibiotic resistance mechanisms, both in human and in environmental bacteria. Recent advances in the next-generation sequencing (NGS) offers new possibilities to monitor foods and food production environments, detect and investigate outbreaks. Whole-genome sequencing (WGS) of bacterial pathogens has shown potential for epidemiological surveillance, outbreak detection, and infection control. In addition, whole metagenome sequencing (WMS) allows for the culture-independent analysis of complex microbial communities, providing useful information on antibiotic resistance genes occurrence.

We invite you to submit a review article or original research article related to these topics. In particular, we welcome manuscripts that provide new insights into the role of food and food processing in the spread of antibiotic resistance.



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Special Issue



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Message from the Editor-in-Chief

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