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New Challenges for Detection and Control of Food-Borne Pathogens: From Tools to People

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Message from the Guest Editors

Contamination of foods by human pathogenic microorganisms is a major concern to both food safety and public health. With regard to the microbiological safety, bacteria and virus are the most common foodborne pathogens associated to both sporadic cases and outbreaks. Foodborne pathogenic bacteria and enteric viruses are the most common causes of foodborne illness in the United States and Europe. However, bacterial and viral microorganisms differ in terms of their behaviour in food matrices, their stability in food-related environments (e.g., food-contact surfaces; irrigating and processing waters) and their response to food processing technologies and controlling measures. Thus, specific and sensitive methods are needed to be developed for their detection, and quantification in complex matrices, such as food, and for tracking their occurrence along the food chain to determine the sources of contamination.

This Special Issue will cover original manuscripts and reviews focused on the development of analytical techniques and the implementation of novel approaches to foster both management practices and control measures.



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Special Issue



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Message from the Editor-in-Chief

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