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Risks Associated with Emerging Microorganisms Resistant to Food Preservation Methods

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Message from the Guest Editors

Dear Colleagues,

The isolation of microorganisms with increased resistance to food-preservation methods and disinfectants in food environments is becoming a growing concern. The exposure of some microorganisms to certain food-preservation methods or disinfectants at mild intensity can select for resistant variants with improved or acquired novel adaptive responses realized through chromosomal mutations or horizontal gene transfer. Understanding which food-preservation methods, processing conditions and disinfectants promote resistance development in bacteria and the molecular basis underlying stress adaptation is crucial for preventing the appearance of resistant variants and combating them to improve food safety.

This Special Issue aims to gather novel insights into the prevalence of strains resistant to food-preservation methods and disinfectants in farm and industrial facilities, the ability of foodborne bacteria to become resistant, and the interplay between the development of resistance to food-related stresses and to antibiotics and molecular evolutionary pathways.



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Special Issue



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Message from the Editor-in-Chief

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