Special Issue

Risks Associated with Emerging Microorganisms Resistant to Food Preservation Methods

Message from the Guest Editors

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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Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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