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Development and Application of Detection Technologies in Food Microbiology

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Message from the Guest Editors

The development and application of detection technologies in the food chain have become important factors for the recognition and prevention of problems associated with food safety and public health. Despite the various technologies that have been developed and applied in routine laboratory analysis for food control, including biochemical identification methods, nucleic-acid-based approaches, and serological tests, some of these techniques are time-consuming and require sophisticated instruments and skilled personnel. Recently, biosensors based on optical, mass, and electrochemical technologies have emerged as effective tools for the detection of pathogenic bacteria and viruses. However, many drawbacks remain associated with this approach, resulting in inconvenience in food applications. This Special Issue focuses on the novelty and utility of detection technologies currently being explored and highlights the possibility of using them for the surveillance of foodborne illness outbreaks in the next decade. This could enable the establishment of early warning systems at every segment of the food chain from food production and processing to marketing.



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Special Issue



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Message from the Editor-in-Chief

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