

## Special Issue

# Advanced Detection and Control Techniques for Foodborne Pathogens

### Message from the Guest Editors

Foodborne pathogens continue to pose a serious threat to global public health and the food industry, resulting in significant economic losses and safety concerns worldwide. This Special Issue highlights the latest advances in innovative strategies for pathogen detection, control, and prevention throughout the entire food supply chain—from production and processing to distribution and consumption. It focuses on biosensing and molecular detection tools that enable rapid, sensitive, and on-site detection of nucleic acids, proteins, and volatile organic compounds (VOCs), facilitating early identification of contamination events. In addition, integrated approaches are explored that combine antimicrobial agents with smart and active packaging systems, as well as novel sterilization, preservation, photocatalysis, and nanomaterial-based techniques. By bridging microbiology, materials science, molecular engineering, and enzyme engineering, this issue aims to foster multidisciplinary innovation and promote the development of efficient solutions for food safety, quality control, and sustainable food systems, thereby strengthening food security and protecting public health worldwide.

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### Guest Editors

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### Deadline for manuscript submissions

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## Foods

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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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### Editor-in-Chief

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