

## Special Issue

# Pathogen Detection, Identification, and Analysis in Food Safety Control

### Message from the Guest Editors

This Special Issue focuses on emerging and advanced methodologies for the detection and identification of foodborne pathogens and their toxins. Emphasis will be given on innovative techniques and their integration with conventional approaches—such as culture-based methods, biochemical test methods, immunological assays, and nucleic acid-based techniques—in order to enhance sensitivity and efficiency. Advanced detection and identification techniques of interest include, but are not limited to:

- Array-based methods (e.g., DNA microarray)
- Spectroscopy techniques (e.g., Fourier-transform infrared, Raman spectroscopy, Hyperspectral Imaging)
- Loop-mediated Isothermal Amplification (LAMP)
- Next-Generation Sequencing (NGS) technologies
- Biosensors (e.g., optical, electrochemical, colorimetric, fluorescence-based)
- Matrix-Assisted Laser Desorption Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS)
- Microscopic techniques (e.g., fluorescence microscopy)

This special issue will provide information and highlight the dynamic of these advanced tools, especially when applied in tandem with established methodologies, to improve pathogen surveillance, outbreak investigation, and food safety monitoring.

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### Guest Editors

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### Deadline for manuscript submissions

31 July 2026



## Foods

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## About the Journal

### 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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