

Special Issue

Foodborne Pathogen Growth, Toxin Production and Strain Variability in Food

Message from the Guest Editors

Foodborne bacteria and moulds present significant challenges to food safety worldwide due to their ability to survive and grow under diverse environmental conditions and produce harmful toxins that threaten public health. Strain-level variability is crucial in modulating virulence, toxin production, and stress resistance phenotypes. This Special Issue aims to highlight cutting-edge research on microbial growth and toxin production dynamics in food systems, strain-dependent responses to biotic and abiotic stressors, and the molecular/physiological basis of intra-species variability. We particularly seek manuscripts addressing novel mitigation strategies, including biopreservative agents, predictive microbiology and genomic tools, emerging non-destructive analytical technologies, and the impact of climate change on microbial behaviour. By compiling multidisciplinary research, this Special Issue seeks to advance our understanding of microbial hazards in the food chain and support the development of more accurate and robust risk assessment frameworks.

Guest Editors

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Prof. Dr. Luis M. Medina

Dr. Jean Carlos Correia Peres Costa

Deadline for manuscript submissions

25 January 2026



Foods

an Open Access Journal
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Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/247692

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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.

Editor-in-Chief

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