



foods



an Open Access Journal by MDPI

New Tools, Old Enemies: Introducing a New Era of Methods for Detecting, Tracking, and Controlling Foodborne Pathogens

Guest Editor:

Dr. Marios Mataragas

Department of Dairy Research,
Institute of Technology of
Agricultural Products, Hellenic
Agricultural Organization
“DEMETER”, Ethnikis Antistaseos
3, 45221 Ioannina, Greece

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Molecular microbiology techniques, such as whole genome sequencing or PCR-based techniques, as well as bioinformatics and modelling, such as source attribution or predictive microbiology, have major impacts on food safety as they can be used with high accuracy for the detection, tracking, characterization, and identification of pathogens. The rapid emergence and adoption of these tools marks the beginning of a new era in food safety by the application of new molecular and statistical techniques for evidence-based decision-making, and a more effective assessment of microbiological risks. Genomics and other omics technologies (metagenomics, metatranscriptomics, etc.) will be an integral part of the toolkit for the assessment and systematic monitoring of microbiological risks in foods. These technologies will be used to improve the phylogenetic and genetic classification of pathogens by identifying, with high precision, genes related to virulence and/or resistance to antibiotics (antimicrobial resistance). Therefore, articles dealing with these topics as they relate to various foodborne pathogens are welcome for submission to this Special Issue.



mdpi.com/si/59266

Special Issue



foods



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Arun K. Bhunia

1. Department of Food Science,
Purdue University, West
Lafayette, IN 47907, USA

2. Department of Comparative
Pathobiology, Purdue University,
West Lafayette, IN 47907, USA

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [FSTA](#), [AGRIS](#), [PubAg](#), and [other databases](#).

Journal Rank: JCR - Q1 (Food Science and Technology) / CiteScore - Q1 (Health Professions (miscellaneous))

Contact Us

Foods Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/foods
foods@mdpi.com
X@Foods_MDPI