Special Issue

Food Toxins and Toxicological Mechanisms: Molecular Perspectives on Food Safety and Health

Message from the Guest Editors

The growing presence of toxins in food is of great concern to consumers. These toxins vary widely, as do their toxic effects on organisms. This Special Issue aims to enhance our understanding of toxin action at the cellular and genetic levels, illuminating the molecular pathways through which foodborne toxins induce different pathologies. We invite submissions that delve into the following topics: Cellular and genetic responses: Studies on biological responses to toxin exposure, including signaling pathways, gene expression changes, and metabolic disruptions. Studies employing advanced methodologies, such as genomics, proteomics, metabolomics, are encouraged. Novel analytical techniques: Pioneering methods for the sensitive and specific detection of toxins in different food matrices. Processing impacts: Research focused on the influence of food processing on the formation, degradation, and mitigation of toxins. This Special Issue welcomes original scientific articles and quality review articles related to the identification and characterization of hazards arising from exposure to toxins in food, aiming to improve risk assessments for human health.

Guest Editors

Prof. Dr. María Puerto

Area of Toxicology, Faculty of Pharmacy, Universidad de Sevilla, 41012 Seville, Spain

Prof. Dr. Ana Isabel Prieto

Area of Toxicology, Faculty of Pharmacy, University of Sevilla, C/Profesor García González 2, 41012 Sevilla, Spain

Deadline for manuscript submissions

30 April 2026



Foods

an Open Access Journal by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/235037

Foods Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 foods@mdpi.com

mdpi.com/journal/ foods





Foods

an Open Access Journal by MDPI

Impact Factor 5.1 CiteScore 8.7 Indexed in PubMed



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

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 Lafavette. IN 47907. USA

Author Benefits

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))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

