

Special Issue

Recent Advances in OMICs Technologies and Application for Ensuring Meat Quality, Safety and Authenticity

Message from the Guest Editors

Sophisticated “-OMICs” technologies—genomics, transcriptomics, proteomics, peptidomics, metabolomics, and lipidomics—are a novelty in food sciences, and were successfully implemented to address meat-quality issues. In this Special Issue, we invite authors to submit research or review papers on the application of OMICs tools to characterize the quality of meat products; the applications of OMICs for the evaluation of the risk assessment of meat products; and the use of foodomics to determine the foodstuff molecular profile of meat and meat products in the light of an improvement of human nutrition. This Special Issue also seeks to provide a fundamental understanding of the nutritional, sensory, and physical properties of meat products using the latest applications of OMICs in meat science to identify biomarkers. Papers dealing with the application of OMICs as innovative tools to characterize the safety and the authenticity of meat products are also welcomed. We are also interested and encourage papers that address the application of OMICs to assess the fundamental pathways and biochemical processes driving the final quality of meat products.

Guest Editors

Dr. Mohammed Gagaoua

Food Quality and Sensory Science Department, Teagasc Ashtown Food Research Centre, Ashtown, Dublin 15, Ireland

Dr. Brigitte Picard

Université Clermont Auvergne, INRA, VetAgro Sup, UMR Herbivores, F-63122 Saint-Genès-Champanelle, France

Deadline for manuscript submissions

closed (28 February 2022)



Foods

an Open Access Journal
by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/36382

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

[mdpi.com/journal/
foods](https://mdpi.com/journal/foods)





Foods

an Open Access Journal
by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed



[mdpi.com/journal/
foods](https://mdpi.com/journal/foods)



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 Lafayette, 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 15 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).