Special Issue

Research on Analysis, Structural Characterization and Metabolism of Carbohydrates

Message from the Guest Editor

Carbohydrates are fundamental to biological systems, nutrition, and health. This Special Issue invites original research and reviews that advance our understanding of carbohydrate analysis, structural characterization, and metabolic pathways. We seek contributions that explore cutting-edge analytical methods—such as chromatography, spectroscopy, and mass spectrometry -to uncover the complexity of carbohydrate structures, from simple sugars to intricate polysaccharides. Manuscripts addressing the relationship between carbohydrate structure and functional or metabolic outcomes, including glycemic response, gut microbiota modulation, and bioactive properties, are especially welcome. By bringing together advances in analytical chemistry, structural biology, and nutritional science, this Special Issue aims to foster new insights that can guide innovation in food design, therapeutic development, and metabolic health strategies. We encourage researchers from diverse disciplines to submit their latest findings and help shape the future of carbohydrate science. Join us in highlighting the pivotal role of carbohydrates in science and society!

Guest Editor

Prof. Dr. Julián De La Rosa Millán

Tecnologico de Monterrey, Escuela de Ingenieria y Ciencias, Centro de Biotecnologia FEMSA, BioFoods Research Lab., Av. Eugenio Garza Sada 2500, Tecnologico, Monterrey, Nuevo Leon, Mexico

Deadline for manuscript submissions

31 May 2026



Foods

an Open Access Journal by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/240141

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).

