

Special Issue

Stability and Metabolism Research of Polyphenols after In Vitro Digestion and Fermentation

Message from the Guest Editors

For several decades scientific community have been interested in determining the content of polyphenols and their in vitro antioxidant activity of foods. Nevertheless, the current knowledge point that polyphenols act in a different way to antioxidants in the body. Furthermore, the most abundant polyphenols in the food are not necessarily those that have the best bioavailability profile and bioactivity. Since polyphenols must be released from the food matrix, resist gastrointestinal digestion, and in some cases be metabolized by colonic microbiota before entering the bloodstream. Through in vitro digestion and fermentation models, the bioaccessibility and the microbiota biotransformation of polyphenols present in foods can be studied. As well as the variables that affect those processes such as food matrix, macronutrients interaction, processing, cooking methods, etc. In summary, increase knowledge in this field could contribute to understand better the role of polyphenols in health promotion and help to design functional foods.

Guest Editors

Dr. Raquel Lucas González

IPOA Research Group, Agro-Food Technology Department, Higher Polytechnic School of Orihuela, Miguel Hernández University, 03312 Orihuela, Spain

Dr. Manuel Viuda-Martos

Agrofood Technology Department, Centro de Investigación e Innovación Agroalimentaria y Agroambiental (CIAGRO-UMH), Miguel Hernández University, 03312 Orihuela, Alicante, Spain

Deadline for manuscript submissions

closed (15 February 2022)



Foods

an Open Access Journal
by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/96292

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 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).