



foods



an Open Access Journal by MDPI

Food Processing, Cooking and the Digestive System Modify the Bioaccessibility of Bioactive Compounds in Foods

Guest Editors:

Prof. Dr. Angela Conte

Department of Life Sciences,
University of Modena and Reggio
Emilia, Via Amendola 2, 42100
Reggio Emilia, Italy

Dr. Davide Tagliacruzchi

Department of Life Sciences,
University of Modena and Reggio
Emilia, Via Amendola 2, 42100
Reggio Emilia, Italy

Dr. Serena Martini

Department of Life Sciences,
University of Modena and Reggio
Emilia, Via Amendola 2, 42100
Reggio Emilia, Italy

Deadline for manuscript
submissions:

closed (30 September 2024)

Message from the Guest Editors

Dear Colleagues,

The health benefits of the bioactive compounds of foods from plant or animal sources mainly depend on their bioaccessibility and bioavailability. The potential of bioactive compounds to exert their effects relies on their release from the matrix, and changes during digestion, absorption, metabolism and biodistribution.

In vitro standardised methods to simulate the different phases of digestion, including large intestinal fermentation, are widely used and permit the bioaccessibility of bioactive compounds to be determined. In vitro standardised gastrointestinal digestion can also be used to evaluate the influence of different food processing technologies on bioactive compounds bioaccessibility. Storage and processing conditions are important factors influencing the bioaccessibility/bioavailability of bioactive compounds in food formulations, and it is, therefore, important to consider the role these processes play.

The study of how food processing technologies and digestion affect the bioaccessibility/bioavailability of bioactive compounds is important for a full understanding of how these molecules interact with human physiological and pathological processes.



mdpi.com/si/158940

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, USA

2. Department of Comparative
Pathobiology (Courtesy), Purdue
University, West Lafayette, IN,
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](https://twitter.com/Foods_MDPI)