



foods



an Open Access Journal by MDPI

Cereal: Chemistry and Green Processing Technology

Guest Editors:

Prof. Dr. Marcio Schmiele

Institute of Science and Technology, Federal University of Jequitinhonha and Mucuri Valleys, Diamantina, MG, Brazil

Prof. Dr. Maria Clerici

Department of Food Science and Nutrition, Faculty of Food Engineering, University of Campinas, Campinas, SP, Brazil

Deadline for manuscript submissions:
closed (1 February 2024)

Message from the Guest Editors

Cereals are the main raw materials in human food. Technological transformation processes are necessary to facilitate the consumption of these grains and ensure safe food. However, clean technologies, without the use of chemical reagents, are highlighted, including both traditional technologies such as conventional and thermoplastic extrusion, germination, fermentation and microwaves and emerging technologies such as cold plasma, ozone, high pressure, infrared, extraction by supercritical fluid, and ultrasound, among others. Attention must mainly be given to the composition, stability, bioavailability and bioaccessibility of nutrients so that the final product is safe for the consumer but meets sensory requirements. Emerging and nature-friendly technologies can perform satisfactorily in the decontamination of grains, preventing the development of deteriorating fungi or those that produce toxic metabolites, such as mycotoxins. In addition, these technologies can also be applied in biodegradable, oxo-biodegradable, active, and intelligent packaging, improving mechanical characteristics and favoring functional properties.



mdpi.com/si/150710

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)