



foods



an Open Access Journal by MDPI

Recent Developments of Structure-Functionality-Bioactivity Relationships in Cereals and Cereal Products

Guest Editor:

Dr. Katharina Scherf

Leibniz-Institute for Food
Systems Biology at the Technical
University of Munich, Lise-
Meitner-Str. 34, D-85354 Freising,
Germany

Deadline for manuscript
submissions:

closed (30 April 2020)

Message from the Guest Editor

Cereals and cereal products count among the most important raw materials for human and animal consumption. The composition of cereal grains typically consists of available carbohydrates (mainly starch), water, protein, dietary fiber, lipids, and minerals as well as important minor constituents, including minerals and vitamins such as niacin, riboflavin, thiamin, and pantothenic acid. Genetic and environmental factors during plant growth as well as processing from flour to the final product are known to influence cereal composition and, thus, structure–functionality–bioactivity relationships. In view of climate change and dwindling natural resources, it is essential to gain a fundamental understanding of these relationships to improve food security, food safety, and food quality. This Special Issue aims to include research from all different disciplines of cereal science, considering agronomical, technological, chemical, nutritional, and sensory properties of cereals and cereal products, as well as their interactions with the human gastrointestinal and immune systems.



mdpi.com/si/28895

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 & Technology*) / CiteScore - Q1 (*Health Professions (miscellaneous)*)

Contact Us

Foods Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/foods
foods@mdpi.com
X@Foods_MDPI