



foods



an Open Access Journal by MDPI

Mechanisms of Dietary Plant Extracts in the Regulation of Metabolic Syndrome and Inflammatory Disorders

Guest Editors:

Prof. Dr. Zheng Ruan

Prof. Ming Jian

Prof. Dr. Xinli Li

Deadline for manuscript
submissions:
closed (15 December 2021)

Message from the Guest Editors

Dear Colleagues,

Metabolic syndrome is a constellation of disturbances including glucose intolerance, central obesity, hypertension, and dyslipidemia present in several forms, depending upon the combination of the different components of the syndrome. The initiation and development of a variety of metabolic syndromes and human diseases accompanies inflammation, which is a major defense of the cells and body adaptation to environmental conditions. More recently, the chronic low-grade inflammatory condition that often accompanies the metabolic syndrome has been implicated as a major factor both in the installation of the metabolic syndrome and its associated pathophysiological consequences. Plenty of scientific results have suggested that dietary plant extract ingestion, such as polyphenol, can protect cells from excess inflammatory responses and ameliorate metabolic syndrome via regulating inflammation-related signaling pathways and changing gut microbiota. However, the detailed mechanisms underlying the role of these plant extracts in the regulation of inflammation, oxidative stress, and microbiota remain largely unknown.



mdpi.com/si/84860

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 47907, USA

2. Department of Comparative
Pathobiology, Purdue University,
West Lafayette, IN 47907, 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)