

Special Issue

Plant Polyphenols in the Immune and Inflammatory Responses

Message from the Guest Editor

Plant polyphenols are major bioactive compounds in plant extracts. They are produced from the plant flavonoid biosynthetic pathway and used naturally for plant defenses against predators. Plant polyphenols are present in most diets and are beneficial to human health. They regulate mammalian gene expression in numerous studies. The anti-inflammatory activities of plant polyphenols are proposed to play an important role in the mediation of various health conditions by these alternative therapies; however, these anti-inflammatory mechanisms are not completely understood. This Special Issue aims to highlight plant polyphenols in the immune and inflammatory response. Topics include plant polyphenol extraction, identification, bioactivity, structure-function relationship, molecular mechanisms at DNA, RNA, protein, and metabolic levels. We welcome comprehensive reviews and original research papers.

Guest Editor

Dr. Heping Cao

Southern Regional Research Center, US Department of Agriculture,
New Orleans, LA 70124, USA

Deadline for manuscript submissions

closed (24 April 2023)



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/121956

Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)



About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)