

Special Issue

Molecular Mechanisms of Bioactive Nutrients Promoting Human Health

Message from the Guest Editor

Substantial evidence has supported that cellular oxidative damage and chronic neuroinflammation are the potential mechanisms involved in the onset and development of non-communicable diseases, including obesity, diabetes, cancers, and even neurodegenerative disease. Some bioactive nutrients, such as phytochemicals, antioxidant enzymes, peptides, polysaccharides, prebiotics, probiotics, essential fatty acids, rare amino acids, minerals, and vitamins, have positive effects on human health and could reduce the likelihood of developing numerous diseases, probably attributed to their antioxidative and anti-inflammatory properties. However, the underlying mechanism of how natural bioactive components respond to chronic human disease damage is unclear. In this Special Issue, we aim to present the latest findings, including in vitro, animal, or clinical studies, relating to the health-promoting role of bioactive nutrients or their cellular signaling and molecular mechanism in response to disease prevention.

Guest Editor

Prof. Dr. Baojun Xu

Food Science and Technology Program, Department of Life Sciences, Beijing Normal-Hong Kong Baptist University, Zhuhai 519087, China

Deadline for manuscript submissions

closed (20 August 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/185092

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, MEDLINE, Embase, CAPus / SciFinder, and other databases.

Journal Rank:

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