

Special Issue

Nutrition in Health and Diseases: Molecular and Cellular Mechanisms

Message from the Guest Editors

It is well-established that nutrients are important regulators of human health and longevity. Adequate nutrition is essential for a healthy immune system against infectious diseases, while a wide variety of nutrients or bioactive food components have been shown to alleviate inflammatory responses and prevent or delay the onset of many chronic conditions. However, the detailed mechanisms underlying the beneficial effects of nutrients/bioactive compounds are still elusive. The aim of this Special Issue is to provide new insights into the molecular and cellular mechanisms by which nutrients/bioactive compounds modulate biological processes and disease development. Both original research and review articles are welcome. Topics include, but are not limited to, the following: regulation of gene expression by nutrients or bioactive compounds, effects of nutrients or bioactive compounds on human disease conditions and the underlying molecular and cellular mechanisms, and the effects of genetic mutation or polymorphism on nutrient metabolism and its consequence for health and diseases.

Guest Editors

Prof. Dr. Yan Zhao

Department of Bioengineering, Harbin Institute of Technology, Weihai 264200, China

Prof. Dr. Nobuyuki Takahashi

Laboratory of Physiology and Metabolism, Department of Food Safety and Nutritional Science, Faculty of Applied Bioscience, Tokyo University of Agriculture, Tokyo, Japan

Deadline for manuscript submissions

closed (20 July 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/149501

*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)