

Special Issue

Advanced Research on Antioxidant Activity

Message from the Guest Editor

The oxidation process is a normal consequence of metabolism in biological organisms. The result of this process is the formation of harmful products, i.e., reactive oxygen species (ROS) and reactive nitrogen species (RNS). Oxidative activity leads to chronic inflammation, which in turn contributes to the development of cancer, heart and vascular diseases, type II diabetes, neurodegenerative diseases, etc. Currently, there is a large increase in lifestyle-related diseases in highly developed countries, which is characterized by a loss of control over the antioxidant system. Therefore, bioactive compounds of both synthetic and natural drugs (e.g., plants), which are able to modify and control oxidizing agents, could be suitable candidates for the development of new strategies to improve and promote health. Moreover, it is also extremely important to understand the signaling pathways of the antioxidant action of various, including new, bioactive compounds. This Special Issue invites submissions of original studies, review articles, reports and literature reviews on recent advances in molecular antioxidant mechanisms.

Guest Editor

Dr. Agnieszka Filipek

Department of Pharmaceutical Biology, Medical University of Warsaw,
Warsaw, Poland

Deadline for manuscript submissions

20 June 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/243549

*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)