

Special Issue

Role of Natural Products in Health and Diseases

Message from the Guest Editor

Natural products encompass a wide range of molecules derived from plants, animals, and microorganisms, each having unique chemical compositions and biological activities. Significant research has been published in scientific literature regarding pharmacological effects of natural substances, including mainly their antibacterial, anti-inflammatory, antioxidant, and anticancer characteristics. There's also an explanation of the mechanisms of action behind the health benefits of natural products, i.e., modulation of cellular signaling pathways, improvement in immune functions, and control of oxidative stress. Synergistic interaction between several components of natural products, which include glycosides, terpenoids, polyphenols, and flavonoids, is an important characteristic. Natural products provide a useful way to create safe and efficient therapy strategies for many of civilization's diseases. The biomolecular evaluation of natural products is a key part of modern research, with the aim to maintaining health and averting illness.

Guest Editor

Dr. Katarína Bauerová

Centre of Experimental Medicine, Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Dúbravská Cesta 5826/9, SK-841 41 Bratislava, Slovakia

Deadline for manuscript submissions

20 September 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/202561

*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*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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