

Special Issue

The Role of Natural Products in Inflammation

Message from the Guest Editor

It is widely known that inflammation, a complex biological response, plays a critical role in various diseases. While conventional anti-inflammatory drugs have shown efficacy, concerns regarding adverse effects have prompted interest in exploring natural alternatives. Natural products derived from plants, marine organisms, and microorganisms have been recognized for their potential to modulate inflammatory responses thus representing a starting point for the identification of new potential therapeutic compounds. This Special Issue aims to collect original research articles, reviews, and perspectives that explore the mechanisms of action of natural products in modulating inflammatory responses and their therapeutic applications, as well as the challenges and opportunities in this field. Papers that address the identification and characterization of novel natural products with anti-inflammatory activity, the mechanisms of action of natural products in regulating inflammatory pathways, and in vitro and in vivo studies evaluating the efficacy of natural products in inflammatory models are invited.

Guest Editor

Prof. Dr. Antonia Cianciulli

Department of Biosciences, Biotechnologies and Environment,
University of Bari, Bari, Italy

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/222891

*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)