



## Molecular Mechanisms of Anti-inflammatory Phytochemicals 2.0

Guest Editor:

### Prof. Dr. Natália Cruz-Martins

1. Faculty of Medicine, University of Porto, 4099-002 Porto, Portugal

2. Institute for Research and Innovation in Health (i3S), University of Porto, 4099-002 Porto, Portugal

3. Institute of Research and Advanced Training in Health Sciences and Technologies, CESPU, Rua Central de Gandra, 1317, 4585-116 Gandra PRD, Portugal

4. TOXRUN - Toxicology Research Unit, University Institute of Health Sciences, CESPU, CRL, 4585-116 Gandra, Portugal

Deadline for manuscript submissions:

**closed (18 May 2023)**

### Message from the Guest Editor

Inflammation is a normal biological process characterized by the activation of immune and non-immune cells to provide defense against infection and promote tissue repair. However, it is becoming increasingly clear that inflammation also plays a crucial role in the development and progression of many chronic diseases.

Phytochemicals are non-nutritive plant-derived compounds that represent a large library of bioactive molecules. Due to their diverse structures and cellular targets, phytochemicals provide broad therapeutic opportunities. Recent studies have discovered the potential of phytochemicals to block key steps in the pathogenesis of inflammatory diseases.

This Special Issue, “Molecular Mechanisms of Anti-Inflammatory Phytochemicals 2.0” will include *in vitro*, *in vivo*, and clinical studies on the anti-inflammatory effects and molecular mechanisms of phytochemicals, including therapeutic applications in chronic diseases, modes of action, target identification, structure-activity relationships, and identification and quantification of phytochemicals from new sources. Original research articles or reviews in this field are welcome.





an Open Access Journal by MDPI

## 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

## 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.

## 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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## Contact Us

---

International Journal of Molecular  
Sciences Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI