



## The Use of In Vitro and In Vivo Models for Research on Bioactive Compounds

Guest Editors:

**Dr. Raúl Domínguez-Perles**

**Dr. Diego A. Moreno**

**Dr. Antonio J. Ruiz-Alcaraz**

Deadline for manuscript  
submissions:  
**closed (30 April 2023)**

### Message from the Guest Editors

Topical Collection gathering publications, communications, insightful and critical information, research results and opinions on the state-of-the-art investigations using in-vitro and in-vivo models as preclinical research stages for the investigation of potentially bioactive compounds.

The current challenges on the scientific validation of the functionality of bioactive compounds for health and wellbeing needs approaches and research results beyond the state-of-the-art, focused on the clarification, elucidation and investigation of the structure-function relationships and the design of better dietary and clinical interventions to back-up their potential functionality.

Development, establishment, and validation of in-vitro and in-vivo models for the study of health-promoting bioactive compounds at the physiological, biochemical and molecular level, in order to find the connection between the compounds in their natural matrices (extracted, purified or formulated), and the potential effects on health and wellbeing through improvements on bioaccessibility, bioavailability, metabolism, and bioactivity.





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 and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

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