

Special Issue

Bioactive Natural Compounds: Protecting Plants and Promoting Human Health

Message from the Guest Editor

Recently, interest in natural resources, e.g., plants, biomass processing coproducts, microorganisms and algae, as the source of bioactive compounds, has been booming worldwide. Climate, economic and social change are the main drivers challenging the scientific community to find effective and sustainable bio-based products to meet new legislations and consumer choices. Bioactive natural compounds offer a wide variety of possible applications, ranging from plant protection to human-health-promoting effects. This Special Issue welcomes original research and reviews covering several aspects of natural compounds including, but not limited to, the following: their discovery in and from different sources; their extraction, isolation and characterization; their biotechnological production and chemical modification; the evaluation of their in vitro and in vivo bioactivity; their role at a molecular level and the elucidation of their mechanism of action; and the investigation of their stability and functionality for potential practical application in plant protection and human health.

Guest Editor

Dr. Gina Rosalinda De Nicola

Research Centre for Vegetables and Ornamental Crops, Council for Agricultural Research and Economics (CREA), Via dei Fiori 8, 51017 Pescia, Italy

Deadline for manuscript submissions

closed (20 September 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/186803

*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)