



## Advanced Research of Plant Secondary Metabolism

Guest Editor:

**Prof. Dr. Maria Lourdes  
Gómez-Gómez**

Department of Science and  
Agroforestral Technology and  
Genetics, Botanical Institute,  
University of Castilla-La Mancha,  
Campus Universitario s/n, 02071  
Albacete, Spain

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editor

Dear Colleagues,

Secondary metabolism allows plants to produce secondary metabolites with a broad range of bioactivities, including regulatory functions, signaling, defense, as well as acting as precursors for primary metabolites. Interestingly, the secondary metabolites produced are extremely diverse in terms of their chemical structures, and many are often lineage specific since plants have adapted to environmental niches during evolution. In addition to fulfilling physiological needs of plants, the secondary metabolites have been used for treating different human diseases and have also been exploited for ecological and ornamental purposes.

This Special Issue focuses on all the aspects in the field of research of plant secondary metabolites, the analysis of the natural diversity of secondary metabolites, the elucidation of pathways and regulatory mechanism, to finally enable the metabolic engineering of these beneficial compounds and the further manipulation as encapsulation for further applications.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. José L. Quiles

Department of Physiology,  
Institute of Nutrition and Food  
Technology “Jose Mataix”,  
Biomedical Research Center,  
University of Granada, Avda.  
Conocimiento s/n, 18100 Armilla,  
Granada, Spain

## Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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 (Organic 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