

Special Issue

New Advances in Plant-Microbe Interaction

Message from the Guest Editors

This special issue of IJMS will feature original research and review articles with the aim of providing an overview of advances in the molecular basis of interactions between plants and microbes. We particularly welcome research and review articles that contribute to (but are not limited to) the following topics: 1. Molecular recognition and signalling of the microbiota; 2. Regulation of plant gene expression in response to microbes; 3. Microbial modulation of plant immunity; 4. Molecular mechanisms of plant-microbe communication; 5. Omics approaches to the study of plant-microbe interactions; 6. Molecular interaction plants-microbes for tolerance to a/biotic stresses; 7. Molecular biotechnology for improving stress resistance.

Guest Editors

Dr. Raja Ben-Laouane

Laboratory of Environment and Health, Department of Biology, Faculty of Sciences & Techniques, Moulay Ismail University, Errachidia 52000, Morocco

Dr. Mohamed Ait-El-Mokhtar

Department of Biology, Hassan II University of Casablanca, Casablanca 20000, Morocco

Deadline for manuscript submissions

30 August 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/233365

*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)