

## Special Issue

# Plant Disease Response to High-Impact Phytopathogens: New Approaches and Perspectives

### Message from the Guest Editor

During the past decade, the priming of plants has served as a very useful tool for activating innate immunity on herbaceous and non-herbaceous model plants species. The pretreatment of plants with disease or microbe-associated molecular patterns (MAMPs, DAMPs...), or several activating chemicals in disease responses, are effective for improving the later tolerance to several high-impact diseases caused by viruses, fungi, bacteria, and nematodes. Those pretreatments show a high efficiency, allowing plants to respond to phytopathogens in a faster and highly efficient manner. In this Special Issue, we include the latest research approaches and findings to enrich our current knowledge of the epigenetic effects that priming treatments induce in plants to improve their tolerance to biotic stress.

### Guest Editor

Dr. Marta Berrocal-Lobo

Centro de Biodiversidad y Desarrollo Sostenible, Departamento de Sistemas y Recursos Naturales, E.T.S.I. Montes, Forestal y del Medio Natural, Universidad Politécnica de Madrid, C/ Antonio Nováis 10, 28040 Madrid, Spain

### Deadline for manuscript submissions

closed (15 April 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/135772](https://mdpi.com/si/135772)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto: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)