

## Special Issue

# Plant Molecular Breeding and Resistance: Phenomics, Genomics and Gene Editing

### Message from the Guest Editor

Plant phenomics has huge potential to be applied to plant physiology and plant genetics by describing traits in plants or cells. However, it has been focused on high-throughput phenotyping on a large scale, while individual plants and cell units are neglected. This Special Issue of the International Journal of Molecular Sciences seeks to encourage research in phenotyping at plant and cell levels using various sensors or analysis methods.

Of course, it is difficult to define and capture traits at individual plant level and, especially, cell level due to various reasons. Thus, any topic or technology phenotype of individual plants and cells will be considered for publication as long as it is related to the individual or cell level using any kind of technologies in the category of phenomics. Conceptualization or methods will also be considered for publication. This attempt will stimulate new challenges for phenotyping very small unit studies that will pave the way for future studies.

---

### Guest Editor

Dr. Yong Suk Chung

Department of Plant Resources and Environment, Jeju National University, Jeju 63243, Republic of Korea

---

### Deadline for manuscript submissions

closed (20 August 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/161988](https://mdpi.com/si/161988)

*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)