

## Special Issue

# Metabolic Processes during Seed Germination

### Message from the Guest Editors

This Special Issue aims to reveal the current state and recent advancements in the understanding of seed metabolism from genetic, epigenetic, biochemical, physiological and ecological perspectives, taking into account its implications for seed preservation and quality enhancement. As examples, original contributions on the following aspects will be welcomed:

- Control of germination mediated by dormancy: actors and genetic and epigenetic backgrounds;
- Molecular networks integrating hormonal and environmental signals in seed germination;
- Reactive oxygen species in germination and dormancy;
- Pathways in pre-germinative metabolism;
- Adaptability and stress responses in seeds;
- Seed vigor and genome integrity;
- Seed priming: molecular bases and technical advancements;
- Seed longevity: metabolic aspects;
- Understanding seed metabolism to assess seed quality using multilevel approaches.

---

### Guest Editors

Prof. Dr. Alma Balestrazzi

Dr. Andrea Pagano

Dr. Łukasz Wojtyła

---

### Deadline for manuscript submissions

closed (31 December 2021)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/63162](https://mdpi.com/si/63162)

*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)