

## Special Issue

# Light and Phytohormones in Plant Secondary Metabolism

### Message from the Guest Editor

Plants are known to synthesize a great diversity of secondary metabolites that have plenty of biological activities, which makes them extremely important for human health and well-being.

Among environmental factors, light is the most important signal influencing plant development and regulating their primary and secondary metabolism through a complex perception of quantity, quality, direction and duration of light. Because the protective role of secondary metabolites in counteracting biotic and abiotic stresses is the leading one, phytohormones – salicylic acid, jasmonates, and ethylene which are indubitable participants in many scenarios of plant protection are usually involved in the regulation of the synthesis of secondary metabolites.

Thus, our special issue focused on the Topic: Light and Phytohormones in Plant Secondary Metabolism. Studies of the land plant as well as in vitro plant cell and tissue culture or green algae at the organism, cellular, molecular and omics level are welcome. Works on growing plants or during their postharvest handling are accepted equally.

---

### Guest Editor

Dr. Alexander V. Nosov

Timiryazev Institute of Plant Physiology, Russian Academy of Sciences, Moscow 127276, Russia

---

### Deadline for manuscript submissions

closed (31 July 2023)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/146589](https://mdpi.com/si/146589)

*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)