

Special Issue

Phytohormone Signaling and Crosstalk in Regulation of Plant Growth and Environmental Stress Responses: 2nd Edition

Message from the Guest Editors

For this Special Issue, we invite potential authors to submit their latest interesting findings on the roles of phytohormones and their crosstalk in various aspects of plant growth and development, as well as stress adaptation/acclimatization. Topics of this Special Issue will include, but are not limited to, the following:

1. The central roles of phytohormones in plant growth and development, especially under environmental stress conditions;
2. how plant hormones interact with each other and also with other signaling molecules to orchestrate signal transduction;
3. how environmental stresses modify the metabolism of hormones and the hormonal balance in plants;
4. how interactions between phytohormones and environmental stresses regulate the induction or repression of stress-responsive genes; and
5. screening for new chemical compounds with inhibitory or stimulating actions on phytohormones/phytohormonal networks.

We welcome research and review articles that will augment our understanding of this field of phytohormonal research to facilitate the development of plants with greater fitness under ever-changing environmental conditions.

Guest Editors

Prof. Dr. Lam-Son Phan Tran

Institute for Genomics of Crop Abiotic Stress Tolerance (IGCAST),
Texas Tech University, Lubbock, TX 79409, USA

Dr. Mohammad G. Mostofa

Department of Chemistry, College of Environmental Science and
Forestry State University of New York, Syracuse, NY 13210, USA

Deadline for manuscript submissions

closed (20 May 2026)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/220720

*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)* 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, and molecular biophysics. *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. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)