

Special Issue

Molecular Insight of Plants Response to Drought Stress

Message from the Guest Editors

Drought is one of the main abiotic stresses to plants. This multidimensional stress affects plants at several levels of their organization, including their phenology, physiological behavior and morphological changes. Drought not only reduces plant growth but also suppresses development, leading to a reduction in flower production, grain filling, and yield production. At the molecular level, several drought-responsive genes, transcription factors, aquaporins, late embryogenesis abundant proteins, heat shock proteins, and dehydrins have been identified in stress responses in plant models. However, the complexity of most plant genomes and the overall lack of knowledge of specific molecular mechanisms underlying drought tolerance for most plants remain a major challenge. Therefore, this Special Issue aims to improve our understanding of the molecular mechanisms associated with responses to drought. Authors are invited to submit related original research articles, reviews, and communications.

Guest Editors

Dr. Isabel Marques

Forest Research Centre (CEF), Higher Institute of Agronomy, Edifício Ferreira Lapa, University of Lisbon, 1349-017 Lisboa, Portugal

Dr. Honghong Hu

Key Laboratory of Crop Genetic Improvement, College of Life Science and Technology, Huazhong Agricultural University, Wuhan, China

Deadline for manuscript submissions

closed (30 November 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/128906

*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*, 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)