

Special Issue

Abiotic Stresses in Plants: From Molecules to Environment—2nd Edition

Message from the Guest Editor

It is my great pleasure to invite you to publish your innovative research in this Special Issue, focusing on abiotic stresses in plants. In the modern world, there is an urgent need to broaden our knowledge of molecular mechanisms involved in abiotic stress-related responses, to facilitate the development of novel approaches in agriculture, plant-based medicine, and other fields. My intention is to provide a friendly and open forum for sharing high-quality manuscripts. The main Special Issue topics are as follows:

Molecular responses to a variety of ‘classic’ abiotic stresses (drought, temperature-dependent stress, etc.);

Spectral quality of incident light affecting plant development or stress responses;

Bioinformatic studies of proteins and/or nucleic acid structures related to abiotic stress responses;

miRNAs and other noncoding RNAs involved in abiotic stress;

Novel methods for abiotic stress research;

Age-dependent abiotic stress in plants;

Interdisciplinary approaches for abiotic stress research in plants.

Guest Editor

Dr. Martin Bartas

Department of Biology and Ecology, Faculty of Science, University of Ostrava, 710 00 Ostrava, Czech Republic

Deadline for manuscript submissions

20 July 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/214968

*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/](https://mdpi.com/journal/ijms)

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)