Special Issue

Structural and Functional Genomics for Plant Development and Stress Tolerance

Message from the Guest Editors

Various abiotic and biotic stresses can affect plant growth and development at physiological, biochemical, and molecular levels, including alterations in gene expression, accumulation of organic solutes, imbalance in phytohormones excretion, and inhibition of plant growth. A better understanding of structural and functional genomics in plants would help to design and create new plant varieties more efficiently and quickly, which can sustain their performance under different stress and climate change scenarios.

In this Special Issue, we aim to publish high-quality research articles and reviews on the understanding of gene expression in plants for their growth development and stress responses. If you have an interest, please feel free to contact SI editor liana.duan@mdpi.com Keywords

- structural genomics
- gene expression
- functional validation
- plant development
- stress tolerance
- genetic engineering and gene editing
- crop productivity

500 CHF total discount would be applied to submissions by 31 Jan 2022 **300 CHF total discount** would be applied to submissions by 28 Feb 2022

Guest Editors

Dr. Manoj Kumar

Department of Biochemistry and Molecular Biology, The Institute for Medical Research Israel–Canada, Hebrew University-Hadassah Medical School, Jerusalem 91120, Israel

Dr. Baozhu Guo

ARS, USDA, Crop Protect & Management Res Unit, Tifton, GA 31793, USA

Deadline for manuscript submissions

closed (30 December 2022)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/106491

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 iims@mdbi.com

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





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)

