



Molecular Bases of Stress Adaptation in Plants: The Contribute of Regulation by Small RNAs in Plant Development and Stress Response

Guest Editors:

Dr. Giorgio Gambino

Istituto per la Protezione
Sostenibile delle Piante,
Consiglio Nazionale delle
Ricerche, Torino, Italy

Dr. Chiara Pagliarani

Istituto per la Protezione
Sostenibile delle Piante,
Consiglio Nazionale delle
Ricerche, 10125 Torino, Italy

Deadline for manuscript
submissions:

closed (30 June 2021)

Message from the Guest Editors

In recent years, a growing body of evidence unveiled that small RNAs activated upon exposure to abiotic and biotic stresses can greatly contribute to transcriptional and epigenetic modifications associated with plant environmental adaptation.

Although promising advances in elucidating the function and activation of stress-responsive small RNAs and related targets were achieved, developmental and physiological responses depending on RNA signaling cascades still require further investigation, particularly, those potentially involved in stress resilience and stress memory events.

Research works submitted to this Special Issue should report high-novelty results increasing existing knowledge on the small-RNAs involved in the reprogramming of plant defense and/or physiological responses to single or multiple stress factors. Article or review papers providing deeper insight into plant adaptation and stress memory mechanisms involving small RNA activity are particularly welcome.





an Open Access Journal by MDPI

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

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.

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 (Inorganic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI