





an Open Access Journal by MDPI

Assimilate Production and Allocation in Plants under Abiotic Stress

Guest Editors:

Dr. Guanfu Fu

Research and Development Center of Rice Cropping Technology, China National Rice Research Institute (CNRRI), Hangzhou, 310006, China

Dr. Jun Zhang

Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Beijing 100081, China

Dr. She Tang

College of Agronomy, Nanjing Agricultural University, Nanjing 210095, China

Deadline for manuscript submissions:

closed (31 January 2023)

Message from the Guest Editors

Dear Colleagues,

Due to their sessile nature, plants are inevitably exposed to multiple adverse environmental stresses, which frequently occur nowadays with the onset of global warming. These stresses negatively impact plant growth and development by accumulating reactive oxygen species (ROS), inducing programmed cell death (PCD), impairing assimilate production and allocation, disturbing the source-flow-sink balance, thus leading to a low yield and poor quality. This could adversely affect food security all over the world. Therefore, plants have formed complex response pathways, from gene expressions to plant physiological processes and even architecture through primary and secondary metabolism. To reveal the underlying mechanisms of these plants, we are organizing a Special Issue for IJMS to share knowledge about plant responses to abiotic stresses, including drought, heat, cold, salt, heavy metal, high-light and low-light stresses.

Authors all over the world are invited to submit original research and review articles on topics related to plant defense mechanisms against abiotic stresses.

Dr. Guanfu Fu Dr. Jun Zhang Dr. She Tang *Guest Editors*



Specialsue









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