



Advances in Plant Physiology of Abiotic Stresses

Guest Editors:

Dr. Sara Álvarez

Department of Horticultural and Woody Crops, Instituto Tecnológico Agrario de Castilla y León (ITACYL), Crta Burgos Km 119, CP 47071 Valladolid, Spain

Dr. José Ramón Acosta-Motos

1. Campus de Los Jerónimos, Universidad Católica San Antonio de Murcia (UCAM), 30107 Murcia, Spain
2. Group of Fruit Tree Biotechnology, Department of Plant Breeding, CEBAS-CSIC, 30100 Murcia, Spain

Deadline for manuscript submissions:

closed (25 July 2022)

Message from the Guest Editors

Dear Colleagues,

Plant stress could be defined as any unfavorable condition or substance that can affect or block the metabolism, growth and development of a plant.

Plants are exposed to a large number of conditions or stressors. Abiotic stress is stress caused by non-living agents. Depending on the nature of the causal agent, it can be divided into physical and chemical. Physical stresses include water deficit, salinity (in its osmotic component), temperature extremes (heat, cold, freezing), excessive or insufficient irradiation, anaerobiosis caused by waterlogging or flooding, mechanical stress caused by wind or excessive soil compaction, and stress induced by wounds or injuries. Chemical stress is caused by salinity (in its ionic or toxic component), by the lack of mineral elements and by environmental pollutants such as sulphur dioxide (SO₂), nitrogen oxides (NO_x), chlorofluorocarbon compounds (CFCs), ozone (O₃) and metals.

This Special Issue will focus on “Advances in Plant Physiology of Abiotic Stresses”. We welcome novel research, reviews, and opinion pieces covering all related topics indicated above.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

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), PubAg, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi