

Special Issue

Chloroplast Biology in Plant Stress Response

Message from the Guest Editors

The chloroplast is the powerhouse of the plant cell, the basis of autotrophic growth and development. However, chloroplasts are resource-intensive and are the main source of photooxidative damage when their activity is not matched to the needs of the cell. This is especially important during the response to stress when growth and chloroplast activity must be repressed together. However, chloroplasts are also among the first sensors of environmental stress. However, the mechanisms underlying the coupling of chloroplast activity to growth are not fully understood. Several signals and pathways have been recognized in matching chloroplast and nuclear activities in the past years. This Special Issue of *Plants* aims to present a collection of relevant scientific papers to promote discussions and describe the most-recent perspectives in the field of chloroplast biology and the plant stress response.

Guest Editors

Dr. Stefano D'Alessandro

Aix-Marseille University, CNRS UMR7265, CEA, Institute of Biosciences and Biotechnologies of Aix Marseille, F-13009 Marseille, France

Dr. Juan Camilo Moreno Beltran

Center for Desert Agriculture (CDA), King Abdullah University of Science and Technology (KAUST), 4700 KAUST, Thuwal, Saudi Arabia

Deadline for manuscript submissions

closed (20 February 2022)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/77001

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)



About the Journal

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

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, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)