

Special Issue

Antioxidant System of Plants— Changes during Development and Multi Stress Response

Message from the Guest Editors

During growth and development, plants are exposed to changing environmental factors. These factors can have a negative effect on the functioning of plants and change their metabolism and chemical composition. Stressful conditions often cause oxidative impairments that the plant defeats with its antioxidant system, activating one of the most versatile mechanisms of stress defence. In natural conditions, several factors may interact at the same time, diversifying plant responses. The results of experiments concerning the impact of a single factor do not always correspond to the observations made in the environment. Therefore, we encourage the scientific community to present experiments focusing on plant reaction to two or more stresses applied simultaneously or in sequence. We encourage you to present studies reporting on enzymatic and non-enzymatic antioxidants, particularly in relation to their quantity, activity, cellular localization, as well as regulation of their biosynthesis at the level of gene expression and phytohormonal signalling.

Guest Editors

Dr. Anna M. Kolton

Department of Botany and Plant Physiology, University of Agriculture in Krakow, 31-120 Krakow, Poland

Prof. Dr. Alina Wiszniewska

Department of Botany and Plant Physiology, University of Agriculture in Krakow, 31-120 Krakow, Poland

Deadline for manuscript submissions

closed (30 November 2021)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/74957

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)