



plants



an Open Access Journal by MDPI

Legumes and Stressful Conditions

Guest Editors:

**Prof. Dr. Arafat Abdel Hamed
Abdel Latef**

Botany and Microbiology
Department, Faculty of Science,
South Valley University, Qena
83523, Egypt

Dr. Narendra Singh Yadav

Department of Biological
Sciences, University of
Lethbridge, Lethbridge, AB T1K
3M4, Canada

Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editors

Legumes belong to the Fabaceae/Leguminosae family. Legumes are second only to cereals in their importance for providing food to humans worldwide. Legumes are an important source of protein, oil, fibre and micronutrients and play a key role in cropping cycles due to their ability to fix atmospheric nitrogen. Legumes must be able to be cultivated under more stressful conditions, including abiotic stress (heavy metals, temperature extremes, drought, salinity, water logging, wind, high light intensity, UV radiation, and mineral deficiencies) and biotic stress (diseases and pests).

This Issue invites the submissions reporting legumes' responses to different abiotic and biotic stressors. Original research articles and reviews on these aspects are welcomed. The research topics may include: the responses of legumes to abiotic stress and/or biotic stress; the role of various stimulators/elicitors in legumes' tolerance to abiotic stress and/or biotic stress; the role of biotechnological tools in developing the abiotic stress and/or biotic stress tolerance of legumes; the role of nanotechnology in resolving the adverse impacts of abiotic and/or biotic stress on legumes.



mdpi.com/si/130412

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

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.

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)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)