Special Issue

Genetic Diversity, Conservation, and Innovative Plant Breeding Strategies

Message from the Guest Editors

Global climate has continuously been changing and will continue to change in the impending future. Erratic and rapid climate change is being recorded worldwide and is adversely impacting agriculture and threatening food security and economy worldwide. The conservation of genetic variation within a species is the key for survivability and adaptation to variable environmental conditions. Genetic variation constitutes the raw material for genetic improvement. Advances in biotechnological tools have facilitated the rapid introgression of transgenes in addition to the creation. analysis, and manipulation of plant genetic variation for developing new improved crop varieties. This Special Issue of *Plants* will focus on recent research progress on the development of a multi-disciplinary approach to traditional plant breeding where plant biotechnology, molecular tools, and their applications would be strategically ideal in developing new improved varieties for sustainable food security and economy. It will address precision agriculture and plant domestication under different environmental conditions, germplasm genetic diversity and conservation, functional genomics, mutagenesis et al.

Guest Editors

Dr. Shri Mohan Jain

Department of Agricultural Sciences, University of Helsinki, PL-27, Helsinki, Finland

Prof. Dr. Jameel M. Al-Khayri

Department of Plant Biotechnology, College of Agriculture and Food Sciences, King Faisal University, Al-Ahsa 31982, Saudi Arabia

Deadline for manuscript submissions

closed (31 March 2022)



Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/55918

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

mdpi.com/journal/plants





Plants

an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 7.6 Indexed in PubMed



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)

