



*plants*



an Open Access Journal by MDPI

## Pre-breeding towards the Effective Utilization of Plant Genetic Resources Volume II

Guest Editors:

**Dr. Rosalyn B. Angeles-Shim**

Department of Plant and Soil  
Science, Texas Tech University,  
2500 Broadway, Lubbock, TX  
79409, USA

**Dr. Balram Marathi**

Associate Dean, Agricultural  
College, Hyderabad 500030,  
Telangana, India

Deadline for manuscript  
submissions:

**closed (20 October 2022)**

### Message from the Guest Editors

Pre-breeding is the first key step in utilizing the genetic diversity present in germplasm collections. It encompasses activities designed to identify agronomic traits and/or genes of interest from unadapted plant materials that cannot be used directly in breeding and introgressing them into an intermediate form of materials that breeders can readily be used to produce improved crop varieties.

This Special Issue on “Pre-Breeding Toward Effective Utilization of Plant Genetic Resources” includes papers on both basic and applied research highlighting all aspects of pre-breeding activities, from the evaluation of plant genetic resources to identify donors for desirable agronomic traits to the transfer of these target traits into well-adapted genetic backgrounds by hybridizations to generate populations that can be used for actual breeding programs.

Submit to special issue:

[https://www.mdpi.com/journal/plants/special\\_issues/Plant\\_Genetic\\_Resources\\_Volume\\_II](https://www.mdpi.com/journal/plants/special_issues/Plant_Genetic_Resources_Volume_II)



[mdpi.com/si/91180](https://www.mdpi.com/si/91180)

# Special Issue



# plants



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 (*Plant Science*)

## Contact Us

---

*Plants* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/plants](http://mdpi.com/journal/plants)  
[plants@mdpi.com](mailto:plants@mdpi.com)  
[X@Plants\\_MDPI](https://twitter.com/Plants_MDPI)