



plants



an Open Access Journal by MDPI

Plant Biotechnology and Crop Improvement

Guest Editors:

Dr. Ranjith Pathirana

Plant & Food Research Australia
Pty Ltd, Waite Campus Research
Precinct – Plant Breeding
Building #WT46, Waite Rd,
Urrbrae, SA 5064, Australia

Dr. Francesco Carimi

Institute of Biosciences and
BioResources, Division of
Palermo, National Research
Council, Corso Calatafimi, 414, I-
90129 Palermo, Italy

Deadline for manuscript
submissions:

closed (30 April 2023)

Message from the Guest Editors

Developing crop cultivars that meet the present day requirements of agriculture and horticulture is challenging, as they need to provide sustainable food and healthful nutrition for populations, and at the same time environmentally friendly and resilient to climate change. Plant biotechnology is seen as the breakthrough technology that can help to meet this challenge in this next phase of plant breeding. Plant biotechnologies that help toward developing new varieties and traits within plants include cell and tissue culture manipulation, marker-assisted selection, transgenic crops, genomics and molecular farming.

This Special Issue will consider all these biotechnological advancements for crop improvement, characterization, and conservation as well as papers on social, environmental, and global aspects of plant biotechnology commercialization. We hope to have a good balance between highly domesticated ancient crop species as well as new and underutilized crops that have potential for meeting future challenges in agricultural production in a changing climate and a shrinking space for cultivation.



mdpi.com/si/57071

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)