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Plant Biotechnology and Crop Improvement

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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.



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Special Issue



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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.

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