



Plant Genetic Resources and Biotechnology

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Message from the Guest Editors

Plant Genetic Resources (PGRs) have been acknowledged as the natural basis for sustainability, food security, and a pivotal pillar for food sovereignty. Currently, we stand in the epoch of applied biotechnology and a dynamic revolution regarding the means of PGRs valorization is occurring. The necessity for breeders to identify heritable genes from CWRs, followed by numerous selection cycles for introgression, has been superseded. Likewise, crosses from the tertiary genetic pool can be archived via embryo rescue methods, as well as a fusion of protoplasts. Additionally, genetic engineering and particularly directed modification methodologies (TALEN and CRISPR/Cas genome editing) have transformed the genetic landscape, since only the information of a gene's sequence is currently needed to create novel lineages.

The aim of this Special Issue is to provide a vehicle for scholars to present concepts and relevant studies (original research, opinions, perspectives, and reviews) across all aspects of the Plant Genetic Resources field (collection, characterization, and utilization) under the prism of Biotechnology.





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