

Special Issue on
Innovative Approaches to Efficient Use of Plant Genetic Resources in Plant Breeding

CALL FOR PAPERS

Most of the surveys predict a 50% increase in world population by 2050. This projection clearly shows that there is need for an increase in crop production to feed people and animals. On the other hand, global climate change exerts a negative pressure on crop production in most regions in the world. These factors are also contributing to resource problems beyond sustainable agricultural production, food security, water scarcity, environmental pollution, and soil degradation. In this context, the conservation and efficient use of plant genetic resources in plant breeding is another very important issue. There is a need for innovative approaches to efficient use of plant genetic resources to increase existing plant production in plant breeding studies in the future. Collection, characterization, database creation, gene banks, and exchange of genetic material between researchers and producers are the main topics in the efficient use of plant genetic resources.

The aim of this special issue is to contribute to the creation of this area by developing research articles and reviews that demonstrate innovative approaches to the efficient use of plant genetic resources for the establishment of more effective breeding programs in plant breeding studies.

Potential topics include but are not limited to the following:

- ▶ Conservation, characterization, and utilization of genetic resources
- ▶ Genetic resources and plant breeding
- ▶ Gene banks management
- ▶ Genetic resources and sustainable agriculture
- ▶ Genetic resources documentation
- ▶ Biodiversity information systems
- ▶ Biotechnology and genetic resources
- ▶ New challenges for evaluation of genetic resources

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ija/iaeu/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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