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Genetic Diversity and Plant Breeding

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Deadline for manuscript
submissions:

closed (30 June 2025)

Message from the Guest Editor

Dear Colleagues,

The Special Issue “Genetic Diversity and Plant Breeding” aims to explore the crucial interplay between genetic diversity and the advancement of plant breeding strategies, with a particular focus on addressing different biotic and abiotic stresses.

This Special Issue aims to bring together insights from genetics, genomics, breeding, agronomy, and biotechnology to provide a comprehensive understanding of the role of genetic diversity in plant improvement. The contributions included within this Special Issue cover a wide range of topics, including the characterization and utilization of genetic resources, the development and application of molecular markers for trait mapping and marker-assisted selection, the utilization of genomic selection for predicting breeding values, and the application of genomic technologies like genome editing and transgenics in breeding programs. Additionally, the Special Issue will explore the role of genetic diversity in addressing various biotic and abiotic stresses, such as pest and disease resistance, drought tolerance, and heat tolerance.

We welcome all related submissions to this special issue.



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Special Issue



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Message from the Editor-in-Chief

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We invite papers and reviews on multidisciplinary topics of diversity that bridge organismic diversity (systematics, biodiversity, phylogeny, population genetics, and evolution) and molecular diversity (phytochemistry and biophysics).

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