



## Molecular Breeding and Genetics Research in Plants

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### Message from the Guest Editor

Dear Colleagues,

Plant breeding and genetic research are now increasingly affecting people's lives. To meet the demand for food and other biomaterials, new technologies focused on plant breeding need to receive more attention. Preliminary information on the genetic architecture of traits can be achieved through quantitative trait locus (QTL) mapping, genome-wide association studies (GWAS), genomic selection (GS), and transcriptomics. Improvement of monogenic or oligogenic traits or their introgression into other elite varieties is straightforward. In addition, the deployment of new breeding techniques such as gene editing, coupled with genome-wide screening, allows for more precise changes in traits. Although significant progress has been made in plant breeding research, continued population growth, constraints such as abiotic and biotic stresses, and unpredictable climate change require us to continue to focus on plant breeding and genetic research.

