

Special Issue

Brassica Crop Breeding: Genetic Insights and Applications

Message from the Guest Editor

Brassica crops are indispensable oil and vegetable resources worldwide with unique polyploid genomic features. Their breeding has evolved from phenotypic selection, heterosis exploitation to genome-oriented precision breeding over centuries. Recent advances in pan-genomics, CRISPR editing and multi-omics have greatly deepened genetic understanding of yield, quality and stress resistance. This Special Issue aims to gather frontier findings bridging basic genetics and breeding practice. We welcome original research and reviews covering genomic selection, artificial intelligence-assisted breeding, high-throughput, phenotyping, speed breeding, germplasm innovation, gene functional dissection, genome editing, secondary metabolite regulation and stress-resistance improvement across *Brassica rapa*, *B. oleracea*, *B. napus* and related mustard species, to update current progress and guide future Brassica breeding innovation.

Guest Editor

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Editor-in-Chief

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