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Advances in Research for Sunflower Breeding and Genetics

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Deadline for manuscript submissions:
closed (30 May 2023)

Message from the Guest Editors

Dear Colleagues,

For many decades, plant breeders have used conventional breeding techniques to improve the sunflower. Nevertheless, there is a need for more sophisticated techniques. Sequencing of the sunflower genome, bridging traditional research with modern molecular investigations on the sunflower, has opened up new opportunities in sunflower breeding, genetics and genomics research. Genotype by sequencing and whole genome sequencing based on next-generation sequencing technologies have facilitated the production of large amounts of SNP markers for high-density maps as well as SNP arrays and allowed genome-wide association studies and genomic selection in sunflower. This Special Issue calls for original research articles, short communications, and review articles in all areas of plant breeding, molecular breeding and genomics, genome-wide association study (GWAS) and in vitro culture and genetic transformation, not limited to newly emerging fields but aimed at building a more resilient and sustainable agriculture of sunflowers.

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Message from the Editor-in-Chief

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