Special Issue

Recent Trends in Oilseed Breeding and Genetics for Agronomical Traits

Message from the Guest Editors

Studies pursuing to understand oil biosynthesis in plants have ramped up in recent years. Research on oilseed breeding has made substantial progress in altering oil composition, developing better-quality seeds and resistant varieties to insect, pest, and abiotic stress, and improving agronomic traits, thus increasing the overall yield of the crop. Still, it takes much longer to develop a new cultivar through conventional breeding. Recent advances in molecular and genetics tools will be highly effective and speed up the breeding process. The availability of whole-genome sequences of several oilseed crops, cost-effective sequencing techniques, and SNP genotyping arrays have made studies to identify genomic regions and genes conferring better agronomical traits much accessible. In this Special Issue of Plants, we invite research on agronomically essential traits, environmental adaptability, biotic and abiotic stress management, nutritional genomics, studies involving mutant populations, genome-editing, differential gene expression analysis, GWAS studies, mapping of qualitative and quantitative traits, epigenetics, marker-assisted breeding, and strategies to improve oilseed crops.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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