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Genomics and Breeding of Oil Crops

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Message from the Guest Editor

Oil crops provide edible oil and proteins for human nutrition, plus raw materials for industrial purposes. The rapid growth of the global population, drastic climate change, and decrease in arable land have brought unprecedented challenges to the production of oil crops. It is urgent that we design oil crops with high yield potential, high water and nutrient utilization efficiency, high resistance to abiotic and biotic stress and excellent nutritional quality, in order to ensure secure oil supply and sustainable development. The recent development and application of high-throughput omics techniques has shifted the research focus from individual genes to networks of genes with a common function. This has deepened our knowledge of the underlying genetic and biochemical bases of complex agronomic traits in oil crops. Furthermore, new breeding techniques (e.g., genomic selection, gene editing) provide exciting opportunities for efficient and accurate breeding of next generation oil crops. This Special Issue welcomes original research articles and reviews discussing the latest advances related to functional genomics and genetic improvement of oil crops.



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Special Issue



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Message from the Editor-in-Chief

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