

Special Issue

Genomics and Breeding of Oil Crops

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.

Guest Editor

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

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