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Plant Chromosome Biology and Genomics for Breeding

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Message from the Guest Editors

Given the challenges of feeding the rapidly growing population, the effects of climate change, and resource depletion, there is increasing demand for novel solutions to improve crop yield and quality. With the rapidly advancing set of genomics tools available, a suite of genetic and (epi)genomic resources are now the key approach for basic research and breeding in the crop community. Knowledge of model plant species can be applied rapidly in crops, and the molecular mechanisms regulating agronomically important can will be performed directly in the crops. The elucidation of further functions of individual genes, pathways, networks, and ultimately entire genomes, as well as their manipulation, is critical for improving crops.

This Special Issue aims to collect a wide body of research studies dealing with functional genomics in crops that have relevance in multi-omics, gene function, gene expression regulation and important traits, and biotechnological techniques in crops.



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Special *Issue*



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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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