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Genome Evolution Mechanism of Plant Polyploids

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Message from the Guest Editors

Polyploidy or whole-genome duplication/triplication (WGD/T) is widespread in plants. Generally, polyploids are classified into autopolyploids and allopolyploids based on their origin and chromosomal composition. The study of the formation mechanism of plant polyploidy and the series of changes after polyploidy has important guiding significance for crop genetics and breeding guided by genomics in the future. This Special Issue will be devoted to the evolution of polyploidization in plants, and especially for horticultural plants. This Special Issue will mainly collect articles on aspects including, but not limited to: (a) exploration of the formation factors and modes of plant genome polyploidy; (b) effects of plant polyploidy on genome structure and gene retention or loss; (c) effects of plant genome polyploidization on the expansion or contraction of important functional gene families on a large scale; (d) effects of plant genome polyploidization on gene regulatory networks of complex agronomic traits; (e) omics data resource databases, pipelines or tools that can promote the study of plant genome evolution.



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Special Issue



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Message from the Editor-in-Chief

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