



Advancing Fruit Tree Breeding: Exploring Cutting-Edge Techniques in Genome Editing, Genetic Transformation, and In Vitro Culture

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Message from the Guest Editors

Dear Colleagues,

Using traditional breeding techniques for woody plant species is still challenging due to their long biological and reproductive cycles; thus, the advent of New Plant Breeding Technologies (NPBTs), along with the CRISPR/Cas9 system, represents a viable solution for speeding up the breeding process, allowing for the precise mutation of target genes. However, until now, the use of these techniques in woody species has remained limited due to the significant occurrence of regeneration and transformation events. For these reasons, the main aims of this Special Issue are focused on setting up protocols for woody plant's genetic engineering, transgene-free methodology, and in vitro culture and regeneration.

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