



## Recent Scientific Developments in Genetics, Genomics, and Breeding of Fruit Trees

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### Message from the Collection Editors

In recent years, the increasing demand for high-quality fruit with high resistance to pests and diseases has tremendously promoted the development of fruit tree research. However, detailed functional analyses of fruit trees are far behind model plants, due to highly heterozygous and complex genomes and the barrier of plant genetic transformation and/or regeneration in some fruit tree species. Fortunately, the application of next-generation sequencing technologies coupled with rapid advances in bioinformatics has facilitated the development of fruit trees for genetic and genomic studies as well as molecular breeding over the last decade.

The proposed Topical Collection entitled “Recent Scientific Developments in Genetics, Genomics, and Breeding of Fruit Trees” aims to present advances in gene mining, genetic mechanisms, omics analyses (e.g., genomics, transcriptomics and proteomics), and the application of gene-editing technologies and molecular breeding of fruit trees. We look forward to receiving your manuscripts (including reviews and research articles) and are eager to share your newest findings.





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## Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

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