Special Issue

Genetic Breeding and Diversity of Fruit Germplasm Resources

Message from the Guest Editors

Fruit germplasm resources represent the genetic foundation for sustainable horticultural development, providing essential material for breeding programs aimed at improving yield, quality, resistance, and adaptability. Advances in molecular biology, genomics, and biotechnology have greatly expanded our ability to explore genetic diversity, uncover evolutionary relationships, and utilize key genes in fruit improvement. This Special Issue welcomes studies on the collection, characterization, and conservation of fruit germplasm, as well as novel breeding approaches that integrate traditional methods with modern techniques such as genome editing, marker-assisted selection, and multi-omics analysis. Contributions may cover a wide range of species, with an emphasis on discovering valuable traits for improved fruit quality, yield, and resilience against biotic and abiotic stresses. The Issue also addresses challenges such as germplasm conservation, core collection development, and the ethical implications of emerging technologies.This collection will explore innovative breeding strategies, resource utilization, and the preservation of genetic diversity to support future crop improvement

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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.

Editor-in-Chief

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