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Genetic Engineering and Quality Improvement in Vegetable Crops

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Message from the Collection Editors

Along with the dissection of metabolic pathways and advancements in multi-omic technology, significant progress has been made in enhancing genetic gain in the era of genetic/metabolic engineering, and molecular breeding for quality improvement in vegetable crops.

For this Topical Collection, we invite research and review articles on recent advances in quality improvement in vegetable crops, including, but not limited to, the formation and regulatory mechanisms of quality traits in vegetable products (regarding organoleptic and functional aspects), quality improvement by classical/molecular breeding methods and genetic/metabolic engineering, biofortification through targeted vegetable nutrition for human health, optimization of primary and secondary metabolites (metabolic pathways) for improved quality, quality control along the whole production chain from field to fork, and quality determination methods and standards (nondestructive, fast, digital, and multi-omic). Contributions to this Topical Collection will shed light on value-added sustainable agriculture in the near future.

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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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