Special Issue

New Advances in Secondary Metabolism of Vegetable Crops

Message from the Guest Editors

Despite significant progress in traditional horticultural practices, the detailed molecular mechanisms that regulate the biosynthesis and regulation of secondary metabolites in vegetables remain underexplored. However, recent advances in molecular biology, such as next-generation sequencing, multi-omics (transcriptomics, proteomics, metabolomics), and gene-editing technologies (CRISPR), have opened new avenues for understanding how these compounds are regulated and how they contribute to plant performance and quality.

For this Special Issue, we invite submissions of original research, reviews, short communications, and perspectives that focus on the role of secondary metabolites in vegetables. Topics of interest include the regulation of secondary metabolite biosynthesis, their contribution to plant development and stress resistance, and the integration of advanced molecular techniques with traditional cultivation practices. We especially encourage studies that explore how these compounds can be manipulated to improve crop yield, quality, and resistance, providing new insights into vegetable production.

Guest Editors

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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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