

Special Issue

Integrated Quality Management in Horticultural Crops: Decoding Hormonal, Transcriptional and Metabolic Interfaces

Message from the Guest Editors

This Special Issue examines the regulatory networks that shape quality traits in horticultural crops. Central attention is given to the integration of hormonal signaling, transcriptional regulation, and metabolic reprogramming, which collectively determine nutritional value, stress tolerance, and postharvest performance. Traits of interest include enhanced vitamin and antioxidant levels, improved resistance to abiotic and biotic challenges, and extended shelf life. We welcome original research and comprehensive reviews that apply state-of-the-art approaches—genomics, transcriptomics, proteomics, metabolomics, epigenetics, imaging, and CRISPR-based technologies—to unravel these complex circuits. By bridging mechanistic insights with practical outcomes, this Special Issue seeks to advance sustainable strategies for breeding and managing high-quality horticultural crops. Submissions covering both model and non-model systems are encouraged.

Guest Editors

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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