

Special Issue

Fruit Quality Improvement and Postharvest Biotechnology

Message from the Guest Editors

Over the years, the fruit quality research has focused on understanding the physiological, biochemical, and molecular mechanisms that regulate fruit quality traits. Advances in postharvest biotechnology have provided new opportunities for improving fruit quality and extending shelf life. This Special Issue aims to explore the genetic, molecular, and biochemical factors influencing fruit quality development and postharvest maintenance. Additionally, it seeks to promote the application of advanced preservation techniques and biocontrol strategies to reduce postharvest losses and improve fruit supply chain management. Recent cutting-edge research has leveraged omics, gene editing, and molecular breeding technologies-based approaches to uncover key regulatory networks in fruit quality formation. While novel postharvest treatments, smart packaging, storage innovations, and biocontrol strategies targeting postharvest diseases are being developed to maintain fruit freshness. We welcome original research, reviews, and case studies focusing on fruit quality improvement and postharvest biotechnology.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2025)



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Editor-in-Chief

Prof. Dr. Leslie A. Weston

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