Special Issue

Research on Molecular Mechanism of Fruit Softening

Message from the Guest Editors

Softening has been well documented in both climacteric and non-climacteric fruits. After softening, their high metabolic activity makes most fruits highly perishable commodities, commonly causing quick deterioration and a short shelf or storage life. Thus, understanding or modifying the biochemistry, physiology, and molecular biology of postharvest organs that are developmentally altered to affect their overall quality is a crucial objective in rendering fruit attractive. This Special Issue aims to expand our understanding of the molecular mechanism of fruit softening. We welcome the submission of high-quality original research articles, reviews, mini-reviews, opinions, perspectives, and methods on, but not limited to, the following topics:

- The physiological, molecular, and genetic profiles of agronomic fruits during softening.
- The pre- and postharvest determination of genetic and physiological alterations during fruit softening.
- The influence of different environmental factors on fruit softening.
- Multi-omics (transcriptome, proteome, metabolome, etc.) applications to reveal the regulatory mechanisms of fruit softening.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2025)

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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

Prof. Dr. Luigi De Bellis
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