

Special Issue

Postharvest Softening, Flavor and Quality of Fruits: Molecular Mechanisms and Regulatory Approaches

Message from the Guest Editors

Fruit softening is a complicated process that is accompanied by changes in fruit quality. These processes are regulated by enzymatic activities, gene expression, and environmental factors. The rapid development of omics and experimental techniques provides us with a new understanding of fruit softening and its underlying regulatory mechanisms. Significant advances have been achieved in relation to transcriptional level and post-transcriptional control, regarding phytohormones, transcription factors, DNA methylation, histone modifications, alternative splicing, RNA modification, protein modification, and others. However, there are still many theoretical problems that need to be solved, such as the interaction of different plant hormones to regulate fruit softening and quality change, the interaction between endogenous factors and environmental conditions, the network of regulatory mechanisms at different levels, etc. The purpose of this Special Issue is to present the recent advances in regulation mechanisms of fruit softening and quality maintenance, especially the multifaceted toolkit for preserving fruit quality.

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