

Special Issue

Gene Transcriptional Regulation in Crops during Postharvest

Message from the Guest Editors

The market for fruit and vegetables has been growing consistently. However, after harvest, commodities remain metabolically active and undergo ripening and senescence processes, compromising fruit quality. Furthermore, in some cases postharvest handling is limited due to the susceptibility of fruit and vegetables to develop postharvest diseases, injuries, and disorders during storage. The research in this field could contribute to minimizing waste and postharvest losses, which is a huge challenge that must be addressed urgently. In this sense, deep knowledge of the molecular mechanisms implicated in the postharvest processes could help to improve postharvest technologies for controlling physiological changes. Different works have been focused on the analysis of independent genes. However, in recent years, gene expression microarray has provided the potential for gene-expression studies during postharvest. RNA-seq in combination with bioinformatics analysis have emerged as state-of-the-art techniques for global transcriptome analysis; they are used to investigate the molecular regulatory networks underlying the responses of fruit and vegetables during postharvest storage.

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