

Special Issue

Regulation of Postharvest Fruit and Vegetable Quality Deterioration

Message from the Guest Editors

Postharvest fleshy fruits and vegetables are still living organisms, remain metabolically active and undergo complex biological processes, which are prone to ripening and senescence, resulting in quality deterioration and commodity value loss. Fruit and vegetable ripening and senescence are finely governed by many aspects consisting of genetic factors, phytohormones and environmental factors, which act coordinately in a fine-tuned network determining the specific expression of ripening- and senescence-associated genes. Among the genetic basis, transcription factors (TFs) play an indispensable role in ripening and senescence, such as ERF, NAC and WRKY. These TFs play essential functions in various plant biological processes, and the activities of TFs are controlled by DNA/RNA methylation or post-translation modification. Thus, the scope of this Special Issue is to cover the regulatory mechanism of postharvest fruit and vegetable quality deterioration, particularly focusing on phytohormones and environmental factors.

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