Special Issue

Regulation Mechanism of Fruit Ripening and Quality in Horticultural Crops

Message from the Guest Editors

Fleshy fruits represent an important food source for humans. Ripening undergoes drastic changes in color, texture, flavor, and nutrition, which has important impacts on the formation of edible fruit quality. Therefore, unraveling the regulatory mechanisms of fruit ripening is biologically interesting and economically important for developing strategies to improve fruit nutritional and sensory quality. In the past decade, rapid advances have been made in the mechanisms of fruit ripening and quality formation. Ripening is finely governed by a highly coordinated network encompassed by hormones, transcriptional regulators, epigenomic modifications, and other regulatory elements. However, there are still many aspects during this process that need to be urgently solved. The scope of this Special Issue is to cover the regulatory mechanism of fruit ripening and quality formation, particularly focusing on transcriptional regulation, post-translational modification, redox signaling, and epigenetics, not only to shed new light on the regulatory mechanism of fruit ripening and quality formation but also to contribute to developing strategies to improve fruit nutritional and sensory quality.

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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