The production of fruits and vegetables is one of the economic pillars of many regions of the world. Being able to offer fresh products and maintain the quality of them is a challenge that brings economic benefits. Postharvest technology offers numerous advances that help maintain and guarantee the quality of fruits and vegetables throughout the production chain. Currently innovations and emerging technologies for postharvest represent a huge scientific effort that brings knowledge to improve the supply chain, the nondestructive evaluation of quality, and the reduction of losses postharvest, as well as an increase to quality and an enhanced shelf life. The final objective of postharvest physiology and technologies is to allow fruits and vegetables to reach new markets whilst maintaining a suitable quality and also a reduction in postharvest losses; therefore, the interest in applying the newest technologies and postharvest physiology knowledge to postharvest fruits and vegetables is increasing.

The aim of this Special Issue is to cover recent advances in the maintenance of horticultural products quality. We invite the submission of original research manuscripts and review articles focused on the improvement and maintenance of the quality of fruits and vegetables using postharvest technological and physiological advances.

Potential topics include but are not limited to the following:

- Testing procedure for quality assurance of fruits and vegetables during postharvest storage and marketing
- Emerging technologies to enhance quality of fruits and vegetables
- Physiology and technology of fresh cut products and their specific influences on quality changes
- Nondestructive quality assessment methods
- Quality changes in fruit and vegetables during handling, processing, and cold storage
- Management and control of ethylene focused on maintenance of fruit quality
- Factors that can contribute to the loss of fruit quality

Authors can submit their manuscripts through the Manuscript Tracking System at https://mts.hindawi.com/submit/journals/jfq/pbta/.

Papers are published upon acceptance, regardless of the Special Issue publication date.