

Special Issue

Effect of Preharvest and Postharvest Technologies on Fruit Ripening and Senescence

Message from the Guest Editors

Fruits and vegetables are an important source of health-promoting bioactive compounds that are able to reduce the incidence of chronic diseases in regular consumers through their daily diets. The metabolic networks regulating fruit ripening are very complex, and ethylene appears to be a key factor acting in concert with other environmental signals and endogenous factors. For many years, ripening and senescence were considered as a series of degradative processes resulting in metabolic disruption and cellular disintegration. The generation of reactive oxygen species (ROS) is one of the earliest responses of plant cells under abiotic stresses and senescence. Many changes related to ripening and senescence processes comprise fruit quality traits; therefore, studying the delay of quality losses associated with senescence has been the subject of extensive research. Moreover, the control of fruit ripening is essential to maintain fruit quality and to reduce losses during the postharvest shelf-life.

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Deadline for manuscript submissions

closed (20 September 2023)



Agriculture

an Open Access Journal
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Impact Factor 3.6
CiteScore 6.3



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