Special Issue

Advances in Molecular Regulation of Fruit Ripening and Innovations in Postharvest Storage Techniques

Message from the Guest Editors

Fruit ripening is a complex developmental process that transforms the fruit into a nutritionally valuable and sensory-attractive organ, suitable for consumption and seed dispersal. During ripening, significant changes occur in color, texture, aroma, and biosynthesis of secondary metabolites, including antioxidants that play a key role in preventing chronic diseases. Innovations in postharvest technologies—including controlled atmosphere storage, nanomaterials, and non-invasive quality monitoring—offer promising solutions to reduce postharvest losses, which still account for almost a third of global fruit and vegetable production. The aim of this Special Issue is to present advances in research focused on the molecular mechanisms of fruit ripening and postharvest storage techniques, with an emphasis on preserving fruit quality and improving food safety. We invite authors to share their latest findings and contribute to the development of next-generation fruit crops with improved resilience to climate conditions and postharvest stress.

Guest Editors

Dr. Toni Kujundžić

Dr. Dejan Bošnjak

Dr. Maja Karnaš

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Horticulturae
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
horticulturae@mdpi.com

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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and Technologies (DiSTeBA), Salento University, Lecce, Italy

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