

# Special Issue

## Molecular, Genetic and Physiological Control of Fruit Quality

### Message from the Guest Editors

The demand for greater fresh fruit quality has increasingly been reflected in consumer behaviour in recent years. Whereas most technical and genetic improvements have focused on yield and disease resistance traits, a main concern now is to improve taste and health value to answer the consumer demand. At the same time, growers are tackling new challenging constraints related to improving yield and quality in low-input sustainable production systems and in response to climate change. Complex quality traits are built throughout the developmental and ripening processes. However, much less is known about the connections between biosynthetic pathways, their sub-cellular compartmentation, or the evolutionary conservation of regulatory mechanisms across plant species and families. Moreover, the effect of interaction of genotype with environmental factors on these aspects needs to be addressed. This Special Issue intends to provide novel insight into fruit quality with a specific focus on above aspects. Your contributions to this topic through literature reviews or original research papers that use genetic, molecular or (eco-)physiological approaches are welcomed on all fruit species.

---

### Guest Editors

Dr. Nadia Bertin

INRA PSH UR1115 Domaine Saint Paul, Site Agroparc, 228 route de l'Aérodrome, CS 40509, France

Dr. Anne-Laure Fanciullino

INRA PSH UR1115 Domaine Saint Paul, Site Agroparc, 228 route de l'Aérodrome, CS 40509, France

---

### Deadline for manuscript submissions

closed (30 November 2018)



# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 5.1



[mdpi.com/si/8182](https://mdpi.com/si/8182)

*Horticulturae*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[horticulturae@mdpi.com](mailto:horticulturae@mdpi.com)

[mdpi.com/journal/  
horticulturae](https://mdpi.com/journal/horticulturae)





# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 5.1



[mdpi.com/journal/  
horticulturae](https://mdpi.com/journal/horticulturae)



## About the Journal

### 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, 73100 Lecce, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, FSTA, and other databases.

#### Journal Rank:

JCR - Q1 (Horticulture) / CiteScore - Q1 (Horticulture)