# Special Issue

# Omics-Driven Perspectives on the Regulation of Growth, Development and Quality in Horticultural Crops

### Message from the Guest Editor

To meet growing global demands and improve quality. accelerating the genetic improvement of these crops is essential. Achieving this goal requires a deep. mechanistic understanding of the molecular networks that govern their key life processes such as growth. development, and the formation of critical quality traits. Recently, the rapid development of high-throughput sequencing and advanced omics technologies has fundamentally transformed plant biology. These omicsdriven strategies allow us to move beyond single-gene studies, a comprehensive exploration of regulatory networks that connect genotype to phenotype and elucidate the genetic basis for vital traits such as yield, flowering time, fruit ripening, and nutritional value. The purpose of this Special Issue, aims to present cuttingedge research applying these powerful, data-driven approaches. We welcome innovative articles that use omics and computational tools to provide novel insights into the biology of any fruit, vegetable, or ornamental species. This collection will highlight the latest advances that facilitate the sustainable production and improvement of these vital plants.

### **Guest Editor**

Prof. Dr. Xianzhao Kan

The Institute of Bioinformatics, College of Life Sciences, Anhui Normal University Wuhu, Wuhu 241004, China

### Deadline for manuscript submissions

31 March 2026



## Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 5.1



mdpi.com/si/247489

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

mdpi.com/journal/ horticulturae





## Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 5.1



### 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)

