

Special Issue

Fruit Tree Physiology, Sustainability and Management

Message from the Guest Editors

Given the importance of fruit tree cultivation, in recent years, significant advancements have been made in understanding new propagation methods and the biological, physiological, biochemical, and molecular factors influencing tree growth and production, including source-sink dynamics. This progress also covers areas like product quality, resilience to abiotic and biotic stresses (also by using biostimulants and corroborants), and the sustainability of cultivation practices. Such knowledge is essential for optimizing nursery tree production, designing new orchards, and refining cultural practices, including pest and disease management, in line with environmental conditions and production objectives. However, there is still much work to be done to expand this knowledge fully. This Special Issue aims to increase our understanding of innovative propagation techniques, the impact of cultivars, and the influence of environmental and agronomic factors on tree growth, pest and disease tolerance, fruit quality, and overall resilience. Emphasis will be placed on the physiological and molecular mechanisms underlying these processes, as well as the conditions created by climate change.

Guest Editors

Dr. Nicola Cinosi

Department of Agricultural, Food and Environmental Sciences,
University of Perugia, Borgo XX Giugno, 06121 Perugia, Italy

Dr. Luca Regni

Department of Agricultural, Food and Environmental Sciences,
University of Perugia, Borgo XX Giugno, 06121 Perugia, Italy

Deadline for manuscript submissions

20 October 2025



Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.1



mdpi.com/si/230908

Horticulturae
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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, 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)