

# Special Issue

## Pest Diagnosis and Control Strategies for Fruit and Vegetable Plants

### Message from the Guest Editors

Fruit and vegetable production is constantly threatened by insect pests, diseases and weeds, as well as new invasive species of harmful organisms. The basis for protecting crops from pests today is Integrated Pest Management (IPM), which involves the proper and timely pest diagnosis and pest-adapted control. Accurate and rapid pest detection and identification is the first step towards the use of effective control strategies.

Nowadays, various diagnostic tools ("decision support systems") are being developed and used that allow the fast and efficient identification of harmful organisms so that an accurate and timely choice of a specific pest control strategy can be implemented.

The purpose of this Special Issue is to present innovative studies, approaches, tools and techniques that can be successfully used in pest diagnosis or as efficient control measures in fruit and vegetable production. These also include innovative articles on molecular and geometric morphometrics diagnostic tools, the implementation of artificial intelligence in pest detection, and any control strategy that can suppress the pest in an environmentally friendly and cost-efficient manner.

---

### Guest Editors

Dr. Maja Čačija

Dr. Ivan Juran

Dr. Carmelo Peter Bonsignore

---

### Deadline for manuscript submissions

15 September 2025



# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 5.1



[mdpi.com/si/196813](https://mdpi.com/si/196813)

*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, 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)