# Special Issue

# Molecular Mechanisms and Physiological Responses in Grapevine–Pathogen Interactions

## Message from the Guest Editors

Grapevine is one of the plants most affected by a wide range of fungal, bacterial, and viral diseases. Due to its long history of domestication, its widespread cultivation in diverse climates and the growing demand for more sustainable pesticide applications have made grapevine pathogen management one of the biggest challenges in modern viticulture.Understanding the complex interactions between grapevine plants and their pathogens remains a crucial research topic. With this Special Issue, we would like to invite potential authors to submit their latest research in this area and their findings in terms of the molecular mechanisms underlying grapevine–pathogen interaction, biochemical and physiological responses of the host plant, and alternative biocontrol strategies with proven efficacy in grapevine pathogen management. We also welcome advances in disease prediction and the influence of climate change on pathogen biology. This Special Issue aims to contribute towards the development of more sustainable viticultural practices through gathering the latest research in pathogen biology and management.

## Guest Editors

Dr. Mate Čarija
Institute for Adriatic Crops and Karst Reclamation, Put Duilova 11, 21000 Split, Croatia

Dr. Katarina Hančević
Institute for Adriatic Crops and Karst Reclamation, Put Duilova 11, 21000 Split, Croatia

## Deadline for manuscript submissions

25 October 2025

**Horticulturae**

**an Open Access Journal by MDPI**

**Impact Factor 3.0**
**CiteScore 5.1**

mdpi.com/si/235092

*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

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)

MDPI