

Special Issue

Horticultural Crop Physiological Responses under Biotic and Abiotic Stress

Message from the Guest Editors

Global climate change will determine the increase in semi-arid conditions that will significantly hamper the production and productivity of horticultural crops. Crop production is affected by a vast range of abiotic and biotic stresses today, such as drought, salinity, flooding, low or high temperatures, and pest and disease attacks. The capacity of plants to address these stresses depends on their adaptation capacity. Tolerant plants may express different strategies to adapt or to avoid the negative effects. To forecast the effects of biotic and abiotic stresses and individuate the possible resistance mechanisms and/or to mitigate the negative effects of these stresses in crops, the study of physiological and biochemical responses in horticultural crops is of the highest importance. In this context, this Special Issue aims to collect original and quantitative studies focusing on the effects of biotic and abiotic stress on horticultural plants. Studies conducted on different crops in open fields or in controlled environments are welcome. Particular attention will be paid to the analysis of the physiological and biochemical response mechanisms to stress.

Guest Editors

Dr. Stefania Toscano

Department of Veterinary Sciences, University of Messina, 98168 Messina, Italy

Prof. Dr. Daniela Romano

Department of Agriculture, Food and Environment, University of Catania, Via Valdisavoia, 5, 95123 Catania, Italy

Deadline for manuscript submissions

closed (31 March 2024)



Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 3.5



mdpi.com/si/147842

Horticulturae
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 3.1
CiteScore 3.5



[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, Università del Salento, Centro Ecotekne, via Provinciale Lecce Monteroni, 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 - Q2 (Horticulture)