Special Issue

Gene Expressions in Response to Diseases, Abiotic Stresses and Pest Damage of Horticultural Products

Message from the Guest Editors

Horticultural crops encompass a wide range of plant species worldwide. Many of these crops represent important sources of food, feed and raw substances, providing a broad spectrum of nutrients and bioactive compounds that play an essential role in resisting plant and human diseases, in accordance with the One Health approach. Horticultural crops represent a key resource in the economy of several countries, yet they are continuously exposed to pathogens, pests and abiotic damage responsible for significant yield and economic losses. Over time, plants have evolved sophisticated defense mechanisms to face both pathogen and insect attacks and respond to abiotic stresses. The identification of genes involved in the defense response and stress tolerance is essential for choosing more resistant or less susceptible crops that could allow for the more sustainable management of diseases and damage. The proposed Special Issue welcomes original and explorative articles that investigate pathways and expressed genes involved in resistance mechanisms to pests and pathogens and abiotic stress tolerance, thus opening new horizons for preserving and increasing crop production.

Guest Editors

Dr. Giuliana Maddalena

Dr. Annamaria Mincuzzi

Dr. Francesca Garganese

Prof. Dr. Antonio Ippolito

Deadline for manuscript submissions

closed (25 February 2025)

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.1

mdpi.com/si/115064

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, 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)

MDPI