



Horticultural Plants Facing Stressful Conditions - Ways of Stress Mitigation

Guest Editors:

Dr. Agnieszka Hanaka

Dr. Małgorzata Majewska

Dr. Barbara Hawrylak-Nowak

Deadline for manuscript
submissions:

closed (31 May 2023)

Message from the Guest Editors

Horticultural plants are exposed to a wide range of environmental stresses. Two types of stresses are distinguished: (1) abiotic stresses (e.g., heavy metals, salinity, heat, drought, chilling, freezing, radiation, nutrient deficit) and (2) biotic stresses (e.g., fungi, bacteria, nematodes, insects). Plants have developed various strategies of survival in and adaptation to adverse habitats. Their responses involve different complex signaling pathways, the effects of which can be investigated at the molecular, cellular, and physiological levels. Under multiple stress conditions, plants synthesize various regulators and biologically active compounds, which cause both biotic and abiotic stress responses. Plant tolerance can emerge not only from endogenic mechanisms, but also from simultaneously enriched microorganisms inhabiting their tissues (endophytes), surfaces (epiphytes), and soils in the vicinity of the roots (rhizosphere).

The goal of this Special Issue is to provide deeper insight into the influence of stress factors at the cellular, tissue, organ, and whole plant level.





an Open Access Journal by MDPI

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

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.

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*)

Contact Us

Horticulturae Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/horticulturae
horticulturae@mdpi.com
X@Horticul_MDPI