



## Ornamental Plants under Abiotic Stresses

Guest Editors:

**Dr. Wan Soon Kim**

Department of Environmental Horticulture, University of Seoul, Seoul 02504, Republic of Korea

**Prof. Dr. Ae-Kyung Lee**

Department of Environmental Horticulture and Landscape Architecture, College of Life Sciences and Biotechnology, Dankook University, Cheonan 31116, Republic of Korea

**Dr. Jin Hee Lim**

Department of Bioindustry and Bioresource Engineering, College of Life Sciences, Sejong University, Seoul 05006, Republic of Korea

Deadline for manuscript submissions:

**31 October 2024**

### Message from the Guest Editors

Many environmental pressures are applied to plants that lower and restrict the yield and quality of crops, which is much more severe for ornamental plants for their marketability. Ornamental plants experience various environmental stresses naturally and artificially in the production process.

Drought, salt, extremely high or low temperatures (cold or heat), and light oxidative stress are representative abiotic stressors that frequently interact and cause cellular and functional damage. It is common for plants to experience abiotic stresses in the production environment, even in environmentally controlled greenhouses. This state causes complicated reactions in plants, reduces crop output, and is getting worse due to climate change. The ability of a plant to compartmentalize ions, create suitable solutes, synthesize particular proteins and metabolites, and trigger transcriptional factors are all associated with the process of tolerance.

This Special Issue prioritizes morphological, physiological, and molecular insights into plant tolerance responses to abiotic stress.





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