

# Special Issue

## Stress Cultivation and Physiology of Vegetables: Challenges and Prospects

### Message from the Guest Editors

Vegetable production is one of the most important industries in agriculture systems. Vegetable crops consist of a wide range of species and the edible organs of different vegetables are varied, such as roots, leaves, stems, and fruits. During cultivation, vegetable crops are challenged with a lot of environmental stresses, including heat, cold, salinity, drought, fluctuating lights, pathogens, viruses, and herbivores. It is necessary and of great significance to extend the knowledge of the 'Stress Cultivation and Physiology of Vegetables', including the role of phytohormones in stress cultivation and physiology of vegetable crops, using transcriptomics or metabolomics to reveal the mechanism of how vegetable crops respond to biotic or abiotic stresses, new technologies of vegetable stress cultivation improvement, breeding of high-quality vegetable germplasm with high tolerance, and green control of disease or herbivores of vegetable crops. Relevant research papers on the topic of 'Stress Cultivation and Physiology of Vegetables: Challenges and Prospects', as well as reviews are all welcomed.

### Guest Editors

Dr. Zhangjian Hu

Department of Horticulture, Zhejiang University, Hangzhou 310058, China

Dr. Chaoyi Hu

Hainan Institute, Zhejiang University, Sanya 572024, China

### Deadline for manuscript submissions

closed (1 September 2023)



# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 5.1



[mdpi.com/si/144272](https://mdpi.com/si/144272)

*Horticulturae*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[horticulturae@mdpi.com](mailto:horticulturae@mdpi.com)

[mdpi.com/journal/  
horticulturae](https://mdpi.com/journal/horticulturae)





# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 5.1



[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 (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)