

## Special Issue

# Horticultural Plants' Response to Biotic and Abiotic Stresses

### Message from the Guest Editor

The alterations in climate patterns and human activities give rise to diverse environmental conditions, such as heat, cold, drought, salinity, sodic and alkaline conditions, and heavy metal pollution. These conditions can significantly affect the productivity of horticultural crops, and various horticultural crops exhibit varying responses to abiotic. Additionally, biotic stressors, such as nematodes, bacteria, insects, fungus, vectors, and viruses significantly impede the strength and production of horticultural crops.

Recent research has revealed that the novel phytochemicals, secondary metabolites, and antimicrobial peptides reduce the harmful effects of biotic and abiotic stresses by increasing the activity of antioxidants, both enzymatic and non-enzymatic, interacting with phytohormones, activating defense genes, and promoting systemic resistance.

In this context, we propose a research topic that will consist of original research, reviews, and methods articles. This compilation aims to provide a comprehensive understanding of the morpho-physiological, biochemical, and molecular mechanisms that enable horticultural crops to tolerate abiotic and biotic factors.

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### Guest Editor

Prof. Dr. Zhiwei Wang

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### Deadline for manuscript submissions

closed (25 June 2024)



## Horticulturae

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### 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.

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### Editor-in-Chief

Prof. Dr. Luigi De Bellis  
Department of Biological and Environmental Sciences and  
Technologies (DiSTeBA), Salento University, Lecce, Italy

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