

Special Issue

Molecular and Physiological Responses of Horticultural Crops to Abiotic Stresses: Effect and Improvement

Message from the Guest Editors

Abiotic stress factors exert their negative effects through various biological molecules and induce oxidative stress by inhibiting the detoxifying enzymes of reactive oxygen species (ROS). These responses are direct consequences of changes in physiology, and gene or protein expressions. The research topic aims to explore and provide more comprehensive approaches that include quantitative and qualitative analyses at the physiological, transcriptome, proteome, and metabolome levels to elucidate the major effects and improvements of abiotic stresses in horticultural plants. We welcome contributions including original research papers, short communications, reviews, and methods which are focused on the molecular and physiological overview of horticultural plants under abiotic stresses. Articles focused on alleviation and improvements of horticultural plants under abiotic stresses are also welcome.

- Abiotic stress
- Horticultural crops
- Physiological modeling
- Genomics
- Proteomics
- Transcriptomics

Guest Editors

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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

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