Special Issue

Horticultural Crop Physiology: Insights into Tolerance Mechanisms Against Environmental Stresses

Message from the Guest Editors

Horticultural crop physiology is a critical field of study that explores the biological processes and functional mechanisms underlying the growth, development, and productivity of fruit, vegetable, and ornamental plants. In the face of escalating environmental challenges such as drought, salinity, extreme temperatures, and pollution, understanding how these crops perceive, respond to, and adapt to abiotic stresses is essential for ensuring global food security and sustainable horticulture.

The purpose of this Special Issue is to present recent advances in physiological, biochemical, and molecular adaptations that enable plants to mitigate damage induced by environmental stresses. We welcome innovative articles focusing on osmotic adjustment, antioxidant defense systems, phytohormone signaling, and gene regulation related to enhanced stress tolerance.

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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.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
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