

# Special Issue

## Drought Stress in Horticultural Plants

### Message from the Guest Editors

Drought stress is one of the main factors limiting horticultural crops. Drought-tolerant plants show different adjustment mechanisms to overcome this stress, including morphological, physiological, and biochemical modifications. The plant responses include increasing the root/shoot ratio, growth reduction, leaf anatomy change, reduction of leaf size, and reduction of total leaf area to limit the water loss and guarantee the photosynthesis process. Furthermore, drought stress influences gas exchange and other physiological parameters. Recent acquisitions on the mechanism of signal transduction and the development of drought tolerance in plants are useful to understand the action mechanisms. This Special Issue aims to collect original and quantitative studies focusing on the effects of drought stress on horticultural plants. Studies conducted on different crops in open fields or in controlled environments are welcome. Particular attention will be paid to the analysis of the response mechanisms to drought stress. Keywords: drought; plant physiology; adaptive mechanism; water use efficiency; oxidative stress; signal transduction

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### Guest Editors

Dr. Stefania Toscano

Dr. Giulia Franzoni

Dr. Sara Álvarez

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### Deadline for manuscript submissions

closed (30 June 2022)



## 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  
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