

# Special Issue

## Phytochemicals and Their Applications in Horticulture Production

### Message from the Guest Editors

Currently, phytochemicals play an important role in the global economy because they represent a source of numerous bioactive metabolites that arouse great interest in pharmaceutical, food, and agrochemical industries. Horticulture production involves a complex and dynamic chain which is often susceptible to biotic and abiotic factors, where phytotechnical, physiological, genetic, chemical, and biotechnological aspects must be considered. Phytochemicals are multifunctional molecules and often aid plants in their interactions with biotic and abiotic environments. Plant metabolites are directly required for plant growth and development, plant–environment interactions, and regulating plant metabolism. This Special Issue aims to present an overview of developments and future trends in areas such as phytotechnics, physiology, phytochemistry, biochemistry, and biotechnology as they pertain to the application of plant metabolites in horticulture production, thus providing knowledge regarding the innovations and modern techniques used for the cultivation and management of species, as well as for plant breeding and pest control, in natural or artificial environments.

### Guest Editors

Dr. Ana Hortência Fonseca Castro

Dr. Alessandra Carrubba

Dr. Jiri Gruz

### Deadline for manuscript submissions

closed (25 March 2025)



# Horticulturae

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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.

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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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