

Special Issue

The Role of Plant Growth Regulators in Ornamental Plants

Message from the Guest Editors

To ensure that these plants can be used in good health and retain their ornamental value for a long time, it is worth using plant regulators. These compounds enhance nutrient uptake, photosynthesis and stress tolerance, contributing to the growth, foliage quality and flower production of ornamental plants. They help ornamentals withstand environmental stresses such as drought, heat and disease by strengthening plant metabolism and defence mechanisms, thereby reducing abiotic and biotic stresses that ornamentals have to adapt to during cultivation or subsequent plant application. In many cases, the use of plant hormones also facilitates the achievement of optimum plant development, important for both plants and growers. Plant growth regulators can contribute to a more sustainable world in which we strive to maintain the delicate balance of ecosystems and biodiversity through ornamental plants. In our Special Issue, we welcome researchers who would like to contribute to this topic with their research or review articles to further broaden the scope of plant growth regulator applications worldwide.

Guest Editors

Dr. Szilvia Kisvarga

Ornamental Plant and Green System Management Research Group,
Institute of Landscape Architecture, Urban Planning and Garden Art,
Hungarian University of Agriculture and Life Sciences, 2100 Gödöllő,
Hungary

Dr. László Orlóci

Ornamental Plant and Green System Management Research Group,
Institute of Landscape Architecture, Urban Planning and Garden Art,
Hungarian University of Agriculture and Life Sciences, 2100 Gödöllő,
Hungary

Deadline for manuscript submissions

31 January 2026



Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.1



mdpi.com/si/204159

Horticulturae
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
horticulturae@mdpi.com

[mdpi.com/journal/
horticulturae](https://mdpi.com/journal/horticulturae)





Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.1



[mdpi.com/journal/
horticulturae](https://mdpi.com/journal/horticulturae)



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
Department of Biological and Environmental Sciences and
Technologies (DiSTeBA), Salento University, Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, FSTA, and other databases.

Journal Rank:

JCR - Q1 (Horticulture) / CiteScore - Q1 (Horticulture)