

# Special Issue

## Effects of Biostimulants on the Growth and Development of Horticultural Crops

### Message from the Guest Editors

To reduce the negative impacts on agroecosystems and contribute to sustainable agriculture. Biostimulants have become a promising agronomic tool and are widely considered a sustainable agricultural practice, with the ability to enhance the growth, yield, and stress tolerance of plants, and improve the quality of food. However, more studies focused on horticultural crops under field conditions are needed. Thus, the aim of this Special Issue of *Horticulturae*, entitled “Effects of Biostimulants on the Growth and Development of Horticultural Crops”, is to present advances regarding biostimulants and their effects on horticultural crops, as well as their contribution to sustainable agriculture. Biostimulants include substances and microorganisms (plant hormones, nanoparticles, microbial bioinoculants, humic acids, amino acids, seaweed extracts, and new ones) that improve the production of horticultural crops by upgrading the physiology or metabolic routes of plants, improving their nutrient uptake, and enhancing their tolerance to biotic and abiotic stress.

### Guest Editors

Dr. Jorge González-Villagra

1. Departamento de Ciencias Agropecuarias y Acuícolas, Facultad de Recursos Naturales, Universidad Católica de Temuco, P.O. Box 15-D, Temuco, Chile

2. Núcleo de Investigación en Producción Alimentaria, Facultad de Recursos Naturales, Universidad Católica de Temuco, P.O. Box 15-D, Temuco, Chile

Dr. Marjorie Reyes-Díaz

Center of Plant, Soil Interaction and Natural Resources Biotechnology, Scientific and Technological Bioresource Nucleus (BIOREN-UFRO), Universidad de La Frontera, Temuco P.O. Box 54-D, Chile

### Deadline for manuscript submissions

10 January 2025



# Horticulturae

an Open Access Journal  
by MDPI

Impact Factor 3.1  
CiteScore 3.5



[mdpi.com/si/209950](https://mdpi.com/si/209950)

*Horticulturae*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[horticulturae@mdpi.com](mailto:horticulturae@mdpi.com)

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





# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 3.5



[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, Università del Salento, Centro Ecotekne, via Provinciale Lecce Monteroni, 73100 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 - Q2 (Horticulture)