

# Special Issue

## The Role of Plant Growth Regulators in Horticulture

### Message from the Guest Editors

This Special Issue provides a comprehensive platform for researchers, scientists, and practitioners to explore the multifaceted functions of PGRs in horticulture and their implications for crop improvement, yield optimization, and quality enhancement. Contributions cover a wide spectrum of topics, including the following:

- Molecular mechanisms underlying the biosynthesis, signal transduction, and action of PGRs in horticultural plants.
- The regulation of plant morphogenesis, including shoot and root growth, branching, and flowering, by PGRs.
- Interactions between PGRs and environmental factors, such as light, temperature, and water availability, in shaping plant growth and development.
- The applications of PGRs in horticultural practices, including plant tissue culture, crop production, propagation, and postharvest management.
- The development and optimization of PGR-based strategies for crop protection, stress mitigation, and abiotic stress tolerance in horticultural plants.
- Novel approaches and technologies for the synthesis, formulation, and delivery of PGRs to improve their efficacy and sustainability in horticultural systems.

### Guest Editors

Dr. Mack Moyo

Prof. Dr. Stephen O. Amoo

Prof. Dr. Michael Bairu

### Deadline for manuscript submissions

26 August 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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