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

closed (30 April 2026)

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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.

Editor-in-Chief

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