

## Special Issue

# Plant Growth Regulators in Tree Rooting

### Message from the Guest Editors

Trees are long-living organisms with complex life cycles, which must contend with a variable environment. The root system is important because it anchors a plant to its substrate, serves as a storage organ, perceives stress signals. The importance of the phytohormones in modulating root growth is well established, as they enable the transduction of environmental and internal cues into plastic responses. Root development is the result of the interactions of phytohormones with one another and with other endogenous and exogenous factors in complex networks. Knowledge of the role played by phytohormones in tree rooting is still scattered, and important questions remain open. These issues concern the functions of other unexplored plant growth regulators, the phase-specific function of phytohormones during root formation, the relationships between environmental cues and epigenetic modifications. This Special Issue aims to help researchers keep abreast of the most recent developments in elucidating the role played by plant growth regulators during the root formation in trees.

---

### Guest Editors

Dr. Conchi Sánchez

Misión Biológica de Galicia (CSIC), Pontevedra, Spain

Dr. Jesús M. Vielba

Plant Production Department, Misión Biológica de Galicia, Avda. de Vigo s/n, 15705 Santiago de Compostela, Spain

Dr. Federica Brunoni

Laboratory of Growth Regulators, Faculty of Science, Palacký University & Institute of Experimental Botany, The Czech Academy of Sciences, Šlechtitelů 27, CZ-78371 Olomouc, Czech Republic

---

### Deadline for manuscript submissions

closed (30 November 2021)



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/67415](https://mdpi.com/si/67415)

*Plants*

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

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





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

---

### Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, Canada

---

### 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), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)