

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.

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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, 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.

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