

Special Issue

Exploring the Formation of Adventitious Roots in Perennial Species: Insights and Perspectives

Message from the Guest Editors

In recent years, considerable progress has been made in elucidating the molecular complex that controls the development of adventitious roots in stem cuttings and shoot apices. At the same time, a better understanding of how the transition from the vegetative to the adult phase influences the morphogenic process has been achieved. Considering all these advancements, further research is needed to clarify the mechanisms that control the number of roots per cutting, the root structure, and the growth rate of the propagated plants. Integrating this information will yield valuable insights into the process and guide the development of strategies to enhance the quantity and quality of roots, thereby ensuring the fast establishment of the plantation. To improve our understanding of the factors impeding the mass propagation of perennial species, we invite the scientific community to contribute short notes, original articles, or reviews covering all aspects of adventitious rooting and growth of rooted cuttings, including reinvigoration and rejuvenation.

Guest Editors

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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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