Special Issue

Root Development

Message from the Guest Editors

It is widely understood that the vast majority of vascular plants produce root systems, and these developed early in the evolution of vascular plants. As important as roots are in their role as essential absorbing organs and as the weight-bearing foundations of most plants, research on root development has typically lagged behind the study of the aerial organs. Root architecture, anatomical pattern formation during primary and secondary growth, and responses to different environmental conditions are highly variable. While use of simple model systems, such as Arabidopsis, has resulted in an excellent beginning for our understanding of molecular signaling that can control root pattern formation, much work remains to be done, given the actual root system diversity and complexity inherent among plant species. This Special Issue will spotlight new discoveries that expand our understanding of several aspects of developmental control and pattern formation in root development in diverse species.

Guest Editors

Prof. Dr. Daniel K. Gladish

Prof. Dr. Thomas L. Rost

Prof. Dr. James L. Seago, Jr.

Deadline for manuscript submissions

closed (30 October 2019)



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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, 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

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