Special Issue

Root Development and Adaptations

Message from the Guest Editor

Plants have root systems that not only anchor them to the soil, but also absorb nutrients and water required for their growth. Through evolution, plant root systems have been able to adapt to various environmental cues, such as soil composition, competition with other root systems, and abiotic and biotic stresses, as well as interact with beneficial organisms in the rhizosphere. Root architecture and responses to different environmental conditions are diverse and phenotypically variable. Using Arabidopsis as a model system has improved our understanding of molecular signaling involved in root apical meristem action, pattern formation, root growth rate, and the degree of branching. Given the actual root system diversity and complexity inherent among plant species, new discoveries have enriched our understanding of several aspects of control in root development in diverse species and their role within plant adaptation.

Guest Editor

Dr. Konstantinos E. Vlachonasios
Department of Botany, School of Biology, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

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Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

mdpi.com/journal/plants

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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

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

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