

Special Issue

Research Trends in Plant Phenotyping

Message from the Guest Editors

At the beginning of the 21st century, advancements in automatization, sensor technology, computer storage capacity, etc., enabled the development of high-throughput phenotyping (HTP) and shifted the phenotyping bottleneck from data acquisition to data analysis. Today we are faced with even faster development in sensor technology, machine vision, automation technology, and cloud-based technologies, combined with machine learning techniques and artificial intelligence, increasing the power of plant phenotyping. This has enabled the separation of meaningful data from environmental and experimental noise and the integration of HTP techniques in ecophysiology research, crop breeding and precision agriculture research, opening new avenues for the improvement of crop productivity and crop production sustainability. This Special Issue aims to attract all kinds of crop phenotyping research, from phenotypic data collection to the development of various sensors for plant phenotyping to the application of phenotyping techniques in plant ecophysiology, plant breeding, precision agriculture and advancements in phenomics analysis.

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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.

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