



Research Trends in Plant Phenotyping

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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

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