Special Issue

Precision Phenotyping in Plant Breeding

Message from the Guest Editor

As genome sequencing and molecular breeding techniques have dramatically increased the speed at which large populations can be genotyped, phenotyping has become the rate-limiting step in many crop improvement efforts. As a result, there is presently a major emphasis to develop better methods for rapid, high-throughput analyses of numerous plant traits, such as growth, morphology, stress tolerance, pest resistance, and biochemical profiles. Advances in the fields of high-throughput phenotyping, remote sensing, and computer vision are enabling mechanization of data collection, non-destructive measurement methods, and automation of data analysis. In addition, many approaches to high-throughput phenotyping are increasing the “dimensionality” of the data, or the number of different plant characteristics that can be measured at one time, and this increased dimensionality is enabling the emerging field of plant phenomics. Prof. Dr. Fiona Goggin

Guest Editor

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Deadline for manuscript submissions

closed (20 September 2018)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/10528

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