

AG2PI Field Day: Advances in Field and Controlled Environment Phenotyping at Purdue University



Agricultural Genome to
Phenome Initiative



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Bottlenecks in our ability to collect accurate, high-resolution, phenotype data on crop plants limit how efficiently we can combine plant characteristics with genomic information for gene discovery and cultivar development. The Institute for Plant Sciences at Purdue University is working with researchers across the University to develop field-based and controlled environment phenotyping tools and techniques based on novel sensors and sensor platforms and sophisticated image and data analysis methods to quantify variation in shoot- and root-based traits. Advanced sensing technologies are providing high-throughput measurements to support basic research in plant biology and applied research in agronomy, animal science, entomology, forestry, horticulture, plant pathology, and weed science. In today's presentation, we'll briefly introduce Purdue's high-throughput phenotyping capacities in controlled and field environments and then provide a showcase of diverse research projects that utilize these advanced plant research platforms



Mitch Tuinstra is Professor of Plant Breeding and Genetics and Wickersham Chair of Excellence in Agricultural Research at Purdue University. He also serves as the Scientific Director of the Institute for Plant Sciences.

Yang Yang is Director of Digital Phenomics at Purdue University. He oversees the operation and development of the Indiana Corn and Soybean Innovation Center (ICSC) and the Controlled Environment Phenotyping Facility (CEPF).



March 17, 2021

10:30 AM - 12:00 PM
(Central Time, -5 UTC)

Purpose

Demonstrate cross & multidisciplinary uses of plant phenotyping tools & techniques, such as in animal science, weed science and entomology.

Register for this Zoom virtual meeting:

<https://tinyurl.com/AG2PI-FD5>

Upon registration, you will receive a confirmation email with information about joining the meeting.

A recording will be available at ag2pi.org/ at a later date.



Agricultural Genome to Phenome Initiative (AG2PI)
is funded by USDA-NIFA award 2020-70412-32615