

Special Issue

Novel Approaches to Phenotyping in Plant Research

Message from the Guest Editor

With the advancement of genotyping technologies at the turn of the century, phenotyping became a major bottleneck in plant and agricultural research. Even today, a significant amount of field-based research is performed by hand, which can be slow, expensive, and prone to human error. With the advancement of imaging technologies and, more recently, AI methodologies, plant phenotyping is becoming quicker, easier, and more accessible. With that in mind, we are initiating a Special Issue of *Agronomy* titled “Novel Approaches to Phenotyping in Plant Research”. This issue aims to highlight the exciting advancements that are being seen in plant phenotyping, from the lab, to the field, to even the county level, using tools ranging from low-cost self-made equipment for the lab to satellite data. We encourage submissions on the following topics:

- Novel plant phenotyping technology;
- Advancements in plant phenotyping methods;
- The use of AI in phenotyping;
- Multi-scale phenotyping.

Guest Editor

Dr. Robert Jackson

Data Sciences Department, Crop Science Centre, National Institute of Agricultural Botany (NIAB), Cambridge CB3 0LE, UK

Deadline for manuscript submissions

10 September 2025



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/229858

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

mdpi.com/journal/

agronomy





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)