

## Special Issue

# Adaptive Evolution and Resistance Mechanisms in Agricultural Pest Management

### Message from the Guest Editor

Agricultural pests have posed a significant challenge to global food security, with their adaptive evolution and resistance mechanisms complicating integrated pest management strategies. This Special Issue aims to explore the latest advancements in understanding these complex dynamics, focusing on research that addresses the adaptive evolution of pests in terms of pesticides, plant resistance, and other pest management strategies. We seek original research articles and reviews that contribute to the understanding of pest resistance mechanisms, the role of adaptive evolution in pest populations, and innovative approaches to overcoming these challenges. By showcasing the latest scientific findings, this issue aims to foster interdisciplinary collaboration and inform future pest management practises.

---

### Guest Editor

Dr. Rui Pang

College of Plant Protection, South China Agricultural University,  
Guangzhou 510651, China

---

### Deadline for manuscript submissions

31 December 2025



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/221656](https://mdpi.com/si/221656)

*Agronomy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agronomy@mdpi.com](mailto:agronomy@mdpi.com)

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