



## Innovations in Transgenic Technology, Genome Editing, and Molecular Breeding for Soybean Improvement

Guest Editor:

**Dr. Yupeng Cai**

Institute of Crop Sciences,  
Chinese Academy of Agricultural  
Sciences, Beijing 100081, China

Deadline for manuscript  
submissions:

**6 January 2025**

### Message from the Guest Editor

Soybean (*Glycine max* (L.) Merr.) is one of the world's most vital crops. With increasing demand, there are new requirements for accelerating technological innovation and enhancing soybean yield. Transgenic and genome editing technologies are key to soybean improvement. However, transgenic technology still faces issues such as low transformation efficiency, genotype restriction and inadequate multi-gene stacking techniques. Although advancements such as gene knockout, large fragment deletion and base editing have been achieved, more efficient and precise gene editing techniques are still needed. In response to these challenges, we have launched a Special Issue in *Agronomy* focusing on vector delivery systems, multi-gene stacking techniques, regenerative gene exploration and prime editing techniques. Additionally, it will cover leveraging transgenic and genome editing technologies to facilitate the rapid aggregation of favorable traits in soybean, including yield, quality and stress tolerance.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Leslie A. Weston

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

## 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.

## 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 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

## Contact Us

---

*Agronomy* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/agronomy  
agronomy@mdpi.com  
X@Agronomy\_Mdpi