

Special Issue

Seed Plant Chromosome Engineering

Message from the Guest Editors

Many groups of plant species that produce seeds harbor genetic abilities in their chromosomes and have unique genetic characteristics. A chromosome plays the important role of replicating genetic characteristics in mitosis, through its segregation or duplication, and allowing the heredity of genotypes in meiosis, through its association or disjunction based on the harboring of genetic information. Chromosome engineering is useful in improving positive genetic variation through artificial chromosome aberration with various types of radiation and chemicals to induce demethylation, modification, the breakage–fusion–bridge cycle, and other processes at the DNA level. Possible topics for inclusion in this Special Issue are as follows:

- Seed plant chromosome behaviors in mitosis and meiosis;
- Chromosome aberration due to artificial factors in plants;
- Chromosome associations related to DNA (de)methylation;
- The function of abnormal (supernumerary) chromosomes in seed plants;
- Seed plant chromosome architecture;
- Genome (genomics) and chromosome modification;
- The creation of novel heritability and the extinction of original heritability.

Guest Editors

Dr. Seong-Woo Cho

Department of Smart Agro-Industry, Gyeongsang National University,
Jinju 52725, Republic of Korea

Prof. Dr. Changsoo Kim

Department of Crop Science, Chungnam National University, Daejeon
34134, Republic of Korea

Deadline for manuscript submissions

31 August 2025



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/225938

Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)