

Special Issue

The Formation of Specialized Traits and the Regulation of Directional Development in Forage

Message from the Guest Editors

Forage possesses unique traits that significantly enhance its adaptability, productivity, and resilience, making it indispensable for ecological restoration and ruminant-based agriculture. Studying the genetic, molecular, and environmental mechanisms behind these traits is key to advancing forage breeding. This Special Issue explores the factors shaping forage traits and development. It focuses on stress tolerance, yield traits such as pod shattering, and identifies organisms with promise for nitrogen fixation associated with forage. It also focuses on quality factors such as protein content, lignin levels, and secondary metabolites, with the aim of enhancing resilience and productivity. This Issue highlights research in omics, bioinformatics, genetic engineering, gene editing, and molecular markers, utilizing advanced methods to uncover growth and stress response mechanisms in forage. We invite original research, reviews, and methodological advancements that address the physiological, molecular, and genetic aspects of forage traits, including stress responses, yield, and quality.

Guest Editors

Prof. Dr. Zhipeng Liu

Dr. Tiejuan Liu

Dr. Dong Luo

Deadline for manuscript submissions

closed (31 December 2025)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/222700

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), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank:

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