## Special Issue

# Lipid Action in Crop Development and Defense

#### Message from the Guest Editors

As major components of plasma membrane and organelles, lipids also function as active molecules, likely contributing to signal transduction, the permeability and fluidity of membranes and as precursor substances for some important hormones. Lipids also perform the functions of signals and regulators in a variety of cellular processes, such as programmed cell death (PCD), cell-to-cell interactions, abscisic acid (ABA)-dependent stomatal closure, cell wall formation, pollen development, Golgi and endoplasmic reticulum (ER) integrity, drought and salt tolerance, lowtemperature-induced signal transduction, cell division and growth, mineral ion homeostasis, plant-microbe interactions, cell type differentiation, organogenesis and cellular organization and adaptation. This special issue seeks to advance knowledge on genes regulated by lipids or plant hormones, focusing on these topics:

- Candidate gene responseto lipids and related plant hormones;
- Exploration of the relationship between lipidsand plant architecture;
- The genes, transcription factors and enzymes involved in lipid metabolism;
- Lipid involved in crop tolerance;
- Vesicular trafficking networks in crop-fungal pathogen interactions.

#### **Guest Editors**

Dr. Xingying Yan

College of Agronomy and Biotechnology, Southwest University, Beibei, Chongqing 400715, China

Prof. Dr. Ming Luo

College of Agronomy and Biotechnology, Southwest University, Beibei, Chongqing 400715, China

#### Deadline for manuscript submissions

10 March 2026



## **Agronomy**

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



mdpi.com/si/247280

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

mdpi.com/journal/agronomy





an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



### **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)

