

Special Issue

Sustainable Potato Production: Emerging Strategies for Disease Prevention and Cultivation

Message from the Guest Editors

Potato (*Solanum tuberosum* L.) is a cornerstone of global food security, providing essential nutrition and economic stability for millions; however, its cultivation faces persistent challenges from biotic and abiotic stresses, including fungal, bacterial, viral pathogens, and extreme environmental stress. Climate change, intensified agricultural practices, and global trade further exacerbate disease spread and resistance evolution, threatening the sustainable production of potatoes. This Special Issue aims to consolidate cutting-edge research on innovative strategies for potato cultivation and disease management. We seek interdisciplinary studies that address efficient production, pathogen dynamics, host resistance, sustainable control practices, and the integration of advanced technologies. Topics include precision agriculture, field management in water, fertility and disease, interactions between pathogens and hosts, eco-friendly biocontrol agents, and climate-resilient farming systems.

Guest Editors

Prof. Dr. Dianqiu Lv

Prof. Dr. Shuhao Qin

Dr. Xingkui Cai

Deadline for manuscript submissions

15 March 2026



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/241142

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)