



Endophytes Improve Plant Immunity Under Biotic and Abiotic Stress

Guest Editors:

Prof. Dr. Zhongdong Yu

College of Forestry, Northwest A
& F University, Yangling 712100,
China

Dr. Guiyan Yang

College of Forestry, Northwest A
& F University, Yangling 712100,
China

Dr. Xiaoli Chang

College of Agronomy, Sichuan
Engineering Research Center for
Crop Strip Intercropping System,
Sichuan Agricultural University,
Chengdu, China

Deadline for manuscript
submissions:

closed (31 July 2025)

Message from the Guest Editors

Endophytes are a symbiote formed after the long-term coevolution of microbial communities and plants, which have shown diverse functions in promoting plant growth and development, affecting plant epigenetic characteristics and secondary metabolism, regulating plant stress resistance, and maintaining the health and stability of forest ecosystems. It is of great significance to explore the characteristics, functional structure and mechanisms of the plant endophytic community under extreme environmental conditions and industrial plantation, and to develop modern biological pesticides, biological fertilizers and biomedical products.

The main purpose of this Special Issue is to improve the understanding of the physiological and ecological functions of endophytes and to provide theoretical and technical basis for reducing the use of pesticides and fertilizers and promoting social green development. We appreciate all kinds of contributions, such as integrative reviews, research papers, newsletters, and so on.





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

Journal Rank: JCR - Q1 (Agronomy) / 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