



plants



an Open Access Journal by MDPI

Arbuscular Mycorrhizal Fungi Influences on Plant Growth Regulation

Guest Editors:

Dr. Ryan Busby

U.S. Army Corps of Engineers,
Construction Engineering
Research Laboratory, 2902
Newmark Drive, Champaign, IL
68126, USA

Dr. Christopher CM Baker

U.S. Army Cold Regions Research
and Engineering Laboratory,
Hanover, NH, USA

Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Arbuscular mycorrhizal fungi are highly beneficial plant symbionts, associating with many plant species worldwide. Arbuscular mycorrhizal fungi interact directly with plant roots, providing increased access to soil nutrients and water, excluding harmful soil constituents, reducing pathogen infection, and providing increased resistance to other stressors. These benefits further influence processes occurring throughout the entire plant, including growth, nutrient acquisition, gas exchange, and stress tolerance. However, arbuscular mycorrhizal fungi can also function as parasites on certain plant species and under certain environmental conditions, having negative impacts on plant growth. This Special Issue seeks to publish research associated with the relationship between plants and arbuscular mycorrhizal fungi that influence any aspect of plant growth regulation.



mdpi.com/si/160250

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)