

## Special Issue

# Role of Beneficial Rhizosphere Microbes on Mineral Acquisition in Crops

### Message from the Guest Editor

With the world's population expected to reach approximately 9 billion by 2050, food production needs to increase by 70 percent. Mineral nutrition deficiency is one of the most important agronomical problems. Current production systems are based on the use of high-yielding varieties and the application of large quantities of agrochemicals, which causes major environmental problems. One more sustainable alternative to the use of synthetic fertilizers is the use of beneficial microorganisms. To cope with nutrient deficiencies, plants develop morphological and physiological responses, mainly in their roots, aimed to facilitate nutrient acquisition. Elucidating the mode of action and main nodes of interconnection between rhizosphere microbes and nutrient deficiency response mechanisms is critical for optimizing the use of plant mutualistic microbes in agriculture. Papers submitted to this article collection must report new results and the latest findings related to the roles of rhizosphere microbes on mineral nutrition in crops.

---

### Guest Editor

Dr. Carlos Lucena  
Departamento de Agronomía, Universidad de Córdoba, Córdoba, Spain

---

### Deadline for manuscript submissions

31 May 2026



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/225267](https://mdpi.com/si/225267)

*Plants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[plants@mdpi.com](mailto:plants@mdpi.com)

[mdpi.com/journal/  
plants](https://mdpi.com/journal/plants)





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/journal/  
plants](https://mdpi.com/journal/plants)



## About the Journal

### 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, and 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.

---

### Editor-in-Chief

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

---

### 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)