

Special Issue

Linking Plant Root Exudation Traits to Rhizosphere Biology

Message from the Guest Editors

In this Research Topic, we will explore how plants interact and mediate communication with soil organisms via various root exudation traits. In detail, we aim to understand how plants shape microbiome diversity and function through root exudation of primary and secondary metabolites. Original research articles that investigate changes in plant root exudates and their impact on plant microbiome composition and function with relevance for plant health and nutrition are requested on topics including but not limited to:

- Changes in root exudate composition/quantity as a response to various biotic/abiotic factors and their impact on the plant microbiome;
- Genetic manipulation of plants and its impact on root exudates and the plant microbiome;
- Mechanistic insights into microbial community emergence and development as a specific response to root exudates;
- Dynamics of soil organism communities as a response to changes in composition/quantity of root exudates;
- Impact of the introduction of microbial inoculants on the nature of exudates, microbiota assembly, functions and interaction networks.

Guest Editors

Dr. Feth El Zahar Haichar

Dr. Wafa Achouak

Dr. Tomislav Cernava

Deadline for manuscript submissions

closed (20 February 2023)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/63275

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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, 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)