# **Special Issue**

# Specialized Metabolites: Their Roles in Plant-Microbe Interactions

## Message from the Guest Editors

Several microbes, generally designated as PGPMs, promote plant growth by acting as biofertilizers. stimulating root growth, controlling plant stress, or antagonizing phytopathogens. In this way, PGPMs exert a positive effect on plant health and crop yield through the production and secretion of specific metabolites. Conversely, plants secrete an interesting array of molecules (signals, carbon sources, hormones) that can modify the microbiome associated with their tissues. primarily roots or leaves under natural and stressful situations. The study of plant-PGPM interactions has provided significant insights into how plants and microbes communicate, yet much remains to be elucidated. Hence, this knowledge would enhance the performance of microbial inoculants applied to crops and vice versa. This Special Issue of *Plants* will publish new research focusing on the effects of different metabolites on plant-microbe interactions. This includes microbial metabolites that directly or indirectly affect plant growth and/or health, as well as the impact of plant exudates on root or leaf microbiomes and/or the performance of microbial inoculants.

## **Guest Editors**

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## Deadline for manuscript submissions

closed (30 March 2025)



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## 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

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