

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

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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.

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