Special Issue

The Role of Phytobiomes in Plant Health and Productivity

Message from the Guest Editors

With global climate change, more frequent episodes of extreme weather interact with plant functions and development. The loss of soil biodiversity might have affected the composition and functionality of the phytobiome.

Therefore, new information is needed to help us understand the role of the phytobiome in the interaction between climate change, soil health, and plant resistance. This Special Issue aims to cover, not exclusively, the following topics:

The phytobiome's effect on crop immune mechanisms and productivity.

The phytobiome's role in supporting plant resistance to drought and soil degradation.

The effect of mineral and organic fertilizers and other practices on phytobiome structure and functionality.

Mechanisms involved in stress signaling and responses of the phytobiome to abiotic and biotic plant stress.

The specificity of the phytobiome across soils and plant species and cultivars.

We welcome the submission of both research papers and reviews for this Special Issue.

Guest Editors

Dr. Sylwia Siebielec

Department of Microbiology, Institute of Soil Science and Plant Cultivation—State Research Institute, Czartoryskich 8, 24-100 Pulawy, Poland

Dr. Grzegorz Siebielec

Department of Soil Science and Environmental Analyses, Institute of Soil Science and Plant Cultivation—State Research Institute, Czartoryskich 8, 24-100 Pulawy, Poland



an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



mdpi.com/si/208794

Agronomy Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 agronomy@mdpi.com

mdpi.com/journal/agronomy





an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)

