

Special Issue

Soil Health and Microbiomes: A One Health Approach to Sustainable Crop Productivity and Ecosystem Resilience

Message from the Guest Editors

The interconnectedness of soil health, microbiomes, and symbiotic relationships underpins the foundation of sustainable agriculture, essential for meeting global food demands while preserving ecosystem integrity. Healthy soils not only support crop productivity but also promote nutrient cycling, water retention, and a diverse microbial community. Advances in the understanding of plant-microbe and soil-microbiome interactions offer transformative opportunities to improve agricultural systems, mitigate climate change impacts, and address challenges such as soil degradation and food security. This Special Issue highlights innovative strategies that integrate soil microbiome management and symbiotic relationships, such as those between plants and nitrogen-fixing bacteria or mycorrhizal fungi, to promote sustainable nutrient management and reduce dependence on synthetic inputs. A particular focus is given to contributions exploring the role of soil health within the broader One Health framework, highlighting how agricultural practices affect human, animal, and environmental health.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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