



Effects of Agricultural Management Practices on Soil Fertility and Microbiome Structure

Guest Editors:

Dr. Rangasamy Anandham

Department of Agricultural
Microbiology, Tamil Nadu
Agricultural University,
Coimbatore 641003, India

Dr. Polpass Arul Jose

Department of Molecular and
Cellular Biology, Harvard
University, Cambridge, MA, USA

Dr. Murugaiyan Senthilkumar

Department of Crop Management,
Agricultural College and
Research Institute,
Eachangkottai, Tamil Nadu
Agricultural University,
Thanjavur, India

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Message from the Guest Editors

Dear colleagues,

Soil is of fundamental importance for food production since it provides resources enabling crop cultivation. Soil is a non-renewable resource, since the process of soil formation is extremely slow. The formation of soil, the mineralization of nutrients, and the turnover of soil organic matter are all closely regulated by soil microbes. Intense agrochemical use, short crop rotations, and ploughing led to a deep intensification of agricultural practises that result in erosion, loss of soil fertility, and a build-up of soil-borne plant diseases. Crop production and health are closely related to soil microbial communities, which are important participants in ecosystem processes.

The impact of farming practises, including tillage methods and fertiliser intensities, on soil microbiomes is currently poorly understood. For agricultural farming practises to be more effective and for planned sustainability to be achieved, a deeper comprehension of these interrelationships is required.

Dr. Rangasamy Anandham
Dr. Polpass Arul Jose
Dr. Murugaiyan Senthilkumar





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Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

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Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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