



Microbial Diversity as a Driver of Plant Growth and Soil Health

Guest Editor:

Dr. Elisa Esposito

Instituto de Ciência e Tecnologia,
Universidade Federal de São
Paulo, São Paulo, Brazil

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Message from the Guest Editor

Soil plays a vital role in sustaining life on Earth, providing a range of essential ecosystem services. Particularly, the soil microbiome, composed of a diversity of microorganisms, plays a crucial role in promoting soil fertility, producing plant biomass and preserving plant health.

There are biological strategies, which, when applied appropriately, can revitalize life in diverse ecosystems, along with their complex interactions between organisms. Furthermore, in recent years, we have witnessed a significant increase in the use of "omics" approaches that allow us to assess microbial phylogenetic diversity and soil functionality. The application of these technologies has contributed to the understanding of microbial communities that play a central role in biological systems, identifying functional groups essential for the health of plants, soil and water.

This approach strengthens our ability to maintain healthy forest ecosystems, mitigate climate change, increase agricultural productivity, ensure food quality, promote food security and, ultimately, protect the health of our planet.





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
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