

Special Issue

Symbiotic Associations of Plants with Beneficial Microbes: Perspectives and Challenges for Agronomical Applications

Message from the Guest Editor

Dear colleagues, Plants, as all the other eukaryotes, live and interact with complex microbial communities. Root symbioses, and more generally the interaction with soil beneficial microbes, positively influence plant's health, productivity and tolerance to stresses, both in wild and cultivated conditions. Consequently, the interest has risen towards a science-driven use of plant beneficial microorganism as natural fertilizers. Recent analytical advances such as high throughput (meta)-omics, plant phenotyping and refined bioinformatic tools allow a better knowledge of beneficial plant microbe interactions in a systems biology perspective. However we are still far from an exhaustive understanding of this topic, at the same time so promising and challenging. The purpose of this Special Issue is to bring together the current knowledge on how plant symbioses can be managed to improve plant health, to depict an up-to-date scenario of the potential to turn plant symbiotic interactions into agricultural practices. Dr. Alessandra Salvioli di Fossalunga

Guest Editor

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