Special Issue

Plant, Soil, Microbe Interactions in Response to Environmental Stress

Message from the Guest Editors

Plant–soil–microbe interactions occur in the soil zone directly adjacent to root, and their impacts extend beyond the rhizosphere to larger volumes of soil. These multiparty interactions influence plant performance through variety of mechanisms. Plants are reported to utilize one or several of these mechanisms in combination to deal with environmental stresses by actively regulating soil environment and recruiting beneficial microbes. However, the puzzle is far from complete by lacking pieces of information including, but not limited to, 1) the identity of microorganisms in the interplay with plants and other microbes in association with plants; 2) the dynamics of plant–microbe interactions in relation to soil conditions and plant growth; 3) the ecological and evolutionary basis of plant–soil–microbe interactions; and 4) the broader impact of plant–soil–microbe interactions on ecosystems or agricultural productivity. For this Special Issue, apart from meta-analysis, data synthesis, studies based on field, modeling studies, potting or lab experiments that involve metagenomics, metatranscriptomics and metabolomics are welcome.

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