Special Issue

Plant–Microbiota Interactions Under Abiotic Stress

Message from the Guest Editors

Climate change has caused significant environmental disruptions, including extreme temperatures, droughts, waterlogging, and shifting weather patterns, all of which negatively impact crop production worldwide. These stressors, whether occurring individually or in combination, can disrupt nutrient uptake and hinder overall plant development. To cope with these stresses, plants form associations with diverse and structured microbial communities, collectively known as the plant microbiota. These microbial partners play a crucial role in supporting plant growth under stress by providing water and nutrients and by modulating plant metabolism and physiology. Harnessing the plant microbiota holds great promise for enhancing crop resilience and productivity, especially in the face of increasingly challenging environmental conditions. Therefore, the aim of this Special Issue is to review and discuss new insights into the potential of plant–microbiota interactions to improve crop resilience and productivity in response to growing environmental stresses.

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