

Special Issue

Abiotic Stress Tolerance in Grasses

Message from the Guest Editors

Grasses have multiple functions, including landscape establishment, ecological restoration, sports ground construction and forage for livestock. Grasses have evolved various mechanisms to adapt to various abiotic stresses, such as drought, salinity, flooding, heat, cold and heavy metals. Elucidating these mechanisms will help us to improve not only abiotic stress tolerance of grasses, but also that of crops. We aim to address the mechanisms of abiotic stress tolerance in grasses at physiological, biochemical, molecular, cellular and subcellular levels. The interactions between grasses and plant-growth-promoting rhizobacteria, endophytic bacteria or fungi in terms of abiotic stress tolerance will be emphasized. The sub-topics include: (1) Grass germplasm resource collection and abiotic stress tolerance evaluation; (2) transcriptomic, proteomic and metabolomic responses of grasses to abiotic stresses; (3) functional characterization of unique genes relevant to stress tolerance in grasses; (4) interactions between grasses and microbes related to tolerance; (5) gene editing and genetic breeding in order to improve abiotic stress tolerance in grasses;

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