

Special Issue

Legume Breeding and Genetic Improvement for Adaptation of Climate Change

Message from the Guest Editors

Grain legumes deliver multiple ecosystem services such as protein-based food and feed and the sustainability of agro-ecosystems through their unique ability to fix atmospheric dinitrogen (N₂) via symbiosis with soil rhizobia. However, in the current and future context of climate change, including increases in temperature, drought period frequency and intensity, salinity, etc., their productivity is endangered. In order to meet future food and feed needs, it is essential to enhance their resilience to individual or combined abiotic stresses. Please share your success stories from research in legume improvement for adaptation to climate change in this Special Issue. Submissions on (but not limited to) the following topics are invited: 1) Legume breeding for abiotic stress tolerance; 2) genetics and translational genomics of abiotic stress tolerance; 3) identification of morphological and physiological traits leading to legume resilience; 4) high-throughput phenotyping methods for the screening of large legume collections.

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