Special Issue

Abiotic Stress Resilience in Vegetable Crops: Genetics and Agronomy Approaches

Message from the Guest Editors

Abiotic stresses are the most challenging environmental factors that affect global vegetable crop production. Abiotic factors, such as high and low temperatures, drought, flood, salinity, radiation, etc., affect crop growth and enable the infestation of insect pests and diseases, resulting in drastically reduced yields and production under certain conditions. These stress stimuli do not act in isolation but often occur simultaneously. Thus, understanding crops' physiological changes and adaptability in response to multi-stress stimuli and exploring appropriate measures to address these issues are crucial for vegetable farming. Of possible measures, strengthening genetic-based tolerance and agronomy practices are plausible approaches for mitigating the adverse effects of environmental stressors and for improving crop resilience and productivity. These approaches can be achieved through conventional and molecular breeding and through the adoption of advanced agronomy. This Special Issue is dedicated to the compilation of up-to-date research on vegetable crops' responses to abiotic stresses and countermeasures for crop protection.

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