Topical Collection

Abiotic Stress Tolerance in Plants: Towards a Sustainable Agriculture

Message from the Collection Editors

Some of the main challenges of present and future agriculture are the deterioration of the environmental conditions in many areas of the world and the uncertainty of climate. Therefore, improving crop tolerance to different types of abiotic stress is a priority to ensure a stable food supply for a growing human population. This Special Issue will focus on the "Physiological and Molecular Characterization of Crop Resistance to Abiotic Stress". We invite novel research articles, reviews, and opinion papers covering all aspects of plant responses and mechanisms of tolerance to abiotic stresses such as salinity, drought, extreme temperatures, flooding, nutrient deficiencies, high radiation levels, toxic compounds (heavy metals, pesticides), ozone, etc. Physiological, biochemical, and molecular studies of crop responses to abiotic stresses, as well as papers describing the function of stress-responding genes, the development of stress-tolerant varieties, marker-assisted screening of stress-tolerant genotypes, and genetic engineering and other biotechnological approaches to improve crop tolerance will be welcomed.

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Message from the Editor-in-Chief

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