

Special Issue

Crop Responses to Abiotic Stress and Genetic Research

Message from the Guest Editor

Due to climate change, various abiotic stresses, including heat, drought, cold stress, nutritional deficiencies, and chemical toxicity, have become a major challenge for crop productivity. Through millennia-long evolution, plants have developed adaptability strategies that enable them to respond to various environmental signals by adjusting or manipulating epigenetic regulatory mechanisms, which allow them to cope with unfavorable conditions. Recent studies have shown that epigenetic mechanisms play vital roles in the formation of stress memory, and can be inherited by the offspring of stress-treated plants. Therefore, a deeper understanding of the epigenetic mechanisms underlying plant stress response could be of great significance for the breeding of climate-resilient crops. This Special Issue, entitled “Epigenetic Regulation of Crop Abiotic Stress Response”, will focus on the epigenetic regulation of plant responses to extreme heat and cold temperature, drought, salinity, nutrient limitations, and ultraviolet stress, and on the epigenetic mechanisms of stress memory. We welcome the submission of all types of articles, such as original research and review papers.

Guest Editor

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Message from the Editor-in-Chief

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