Special Issue

Drought Resistance Mechanisms in Crops

Message from the Guest Editor

The current and predicted global warming has already led to a combination of elevated temperatures and decreased precipitation, whose effects have led to more frequent and severe drought conditions drastically affecting crop productivity. Plants have developed a wide range of adaptive structural, physiological, and molecular response mechanisms at the whole plant, organ, and cellular levels and in signal transduction pathways to cope with the effects of abiotic stresses. However, stress response and tolerance vary greatly among plant species, creating a gap in our understanding of them. Therefore, the aim of this Special Issue is to gather novel and recent studies in the field of plant response to abiotic stress. Of particular interest is research on stress responses aimed at reducing the effects of stress, such as water loss and protection against oxidative damage, as is research on response mechanisms employed at the whole-plant, tissue, cellular, and molecular levels for metabolic adjustment and gene expression regulation to enhance physiological and morphological adaptation.

Guest Editor

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