

Special Issue

Regulation of Abiotic Stress Resistance in Crops

Message from the Guest Editor

Abiotic stress, which includes drought, extreme temperature, salinity, and environmental pollution with heavy metals, results in the growth and yield loss of crops that threatens global food security. With the continued aggravation of climate change, it is crucial to develop multifaceted regulatory strategies to enhance the ability of crops to adapt to abiotic stress, including hormone modulation, plant enzymatic system activation, and stress gene expression. Thus, this Special Issue will not only focus on unravelling how crops react to abiotic stress at physiological, biochemical, and molecular (genetic, epigenetic, transcriptomic, and metabolomic) levels, but will also propose how to regulate the growth and yield formation of crops. The aim of this Special Issue, entitled “Regulation of Abiotic Stress Resistance in Crops”, is to highlight the mechanisms that control the growth and development of abiotic stress tolerance for the major crop species in the world. Through this, we will capture current and in-depth scientific knowledge on agronomic, morphological, physiological, biochemical, metabolomic, molecular, genomic, genetic, or epigenetic modifications.

Guest Editor

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