Special Issue

Genetic and Epigenetic Changes in Plant Response to Abiotic Stress

Message from the Guest Editor

The current global climate crisis raises habitual drought, high salinity, and abnormal temperatures (heat and cold), which have become a serious threat to crop productivity. Plants have evolved various strategies to cope with such stress conditions by exhibiting many physiological changes through the regulation of gene expression. The genetic and epigentic changes can be memorized and transmitted to newly developed cells during vegetative growth, and even inherited by the next generation of plants. Understanding the molecular mechanisms underlying stress memory and transgenerational inheritance might provide new methods for breeding higher-quality crops that can withstand adverse climatic conditions. This Special Issue will focus on the genetic and epigenetic changes in plant responses to various abiotic stresses. Contributions regarding other related topics aimed at understanding the molecular mechanisms of abiotic stress tolerance responses in plants are also welcomed, including reviews and original research articles.

Guest Editor

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Deadline for manuscript submissions

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Editor-in-Chief

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