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Genetic and Epigenetic Changes in Plant Response to Abiotic Stress

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Message from the Guest Editor

Dear Colleagues,

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 epigenetic 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.



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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