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## Abiotic Stress in Plants: Present and Future

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Deadline for manuscript submissions:

**closed (25 April 2023)**

### **Message from the Guest Editors**

Today's agriculture is facing great challenges. Adverse climatic factors, such as extreme temperature, drought, salinity, heavy metals, and oxidative stresses are the main causes of low crop productivity and sustainability. Abiotic stress generated reactive oxygen species (ROS) playing the dual role of signaling and regulating basic cellular metabolism. Much progress has been made in the identification and characterization of genes/proteins/metabolites that allow plants to tolerate abiotic stresses. The Special Issue of the Journal entitled "Abiotic Stress in Plants: Present and Future" mainly focus on how plants adapt to abiotic stress and various biotechnological and molecular approaches for improving the stress tolerance in crop plants to mitigating the effect of global climate change. This issue presents a holistic view of the general principles of stress tolerance, signal transduction and regulation of gene expression, heavy metal toxicity, hormones, metabolites, and nutrient and halophytes in defense mechanisms. This Special Issue serves as a complete package on the basics, applications and management for abiotic stress tolerance in plants.



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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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