

Special Issue

Abiotic Stress in Plants: Physiological and Molecular Responses

Message from the Guest Editor

As the global climate continues to change, plants are increasingly exposed to adverse environmental conditions that negatively affect their growth and development, ultimately reducing productivity. Today, plants often have to cope with extreme temperatures, water shortages, floods, environmental salinity, or UV radiation. Equally important are the detrimental effects associated with environmental pollution from heavy metals and herbicides. When exposed to abiotic stress factors, plants activate a number of physiological and molecular responses that enable them to survive under these harsh conditions. This Special Issue aims to bring together the latest advances in understanding plant responses to abiotic stress factors that have emerged from the implementation of a wide range of approaches, from whole-plant physiological studies to molecular approaches dealing with stress perception mechanisms, stress-triggered signaling pathways, and downstream transcriptomic and metabolomic responses. All types of articles, such as original research, opinion pieces, and reviews, are welcome.

Guest Editor

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