



Special Issue Reprint

Plants Responses to Climate Change

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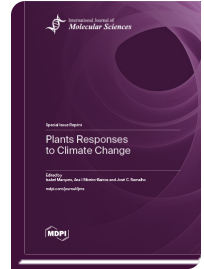
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Climate change is expected to have a wide range of impacts on plant physiology and metabolism, soil fertility and carbon sequestration, and microbial diversity and activity. This imposes direct limitations on plant growth, fertility, and productivity. To promote the sustainability of ecosystems, efforts are needed to enhance our knowledge of molecules that govern key processes that may play a role in stress resilience mechanisms in plants. In this context, this reprint covers basic and applied innovative research aimed at understanding the molecular mechanisms associated with plant responses to abiotic stresses, including drought, cold, heat, high light, and salinity. Taken together, the new information provided in these manuscripts not only increases our understanding of the molecular basis of plants' adaptive responses but also provides key fundamentals for the future successful selection and breeding of tolerant crops.



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