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Plant Responses to a Changing Climate: Ecological and Evolutionary Perspectives

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Message from the Guest Editors

Anthropogenic climate changes have already produced numerous negative effects on natural ecosystems, including changes in major ecological processes, alterations in ecosystem functioning, and biodiversity decline. Being directly affected by shifts in temperature, precipitation, and carbon dioxide levels, plants play a crucial role in responding to and adapting to the changing climate. Climate change can alter plants' phenology, affecting the timing of flowering, seed germination, and other plant life cycle events, consequently disrupting ecological relationships and biodiversity. In addition, through various morphological, physiological, and biochemical adjustments, such as alteration of leaf structures, water-use efficiency, or growth patterns, plants can acclimate to changing climate conditions. Studying plant responses to a changing climate provides insights into the resilience and vulnerability of different species, helping to identify potential conservation priorities. As climate change continues to escalate, understanding how plant species are coping is crucial for predicting future ecological dynamics and devising effective conservation strategies.



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Special Issue



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Message from the Editor-in-Chief

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