



Regulatory Mechanism of Growth Regulators on Crop Growth and Development

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Message from the Guest Editor

Climate change is increasing the frequency of extreme events, such as droughts and heat waves, limiting the growth and yield of relevant food crops, as well as threatening global food security. On other hand, plant growth regulators (PGRs) are organic or synthetic molecules, microorganisms, and chemical elements that affect plant metabolism. Therefore, in the current world scenario, research and solutions using brassinosteroids, gasotransmitters, microorganisms, phytohormones, neurotransmitters, and essential elements are strategies for ensuring food security improving plant tolerance to climate change.

This Special Issue welcomes novel research and reviews covering all topics related (but not limited) to action mechanisms modulated by organic or synthetic molecules, microorganisms, and chemical elements aiming to mitigate several stresses, including drought, flooding, salinity, toxic metals, low or high temperature, low or high irradiance, acid rain, and nutritional stress.





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Message from the Editor-in-Chief

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