



Omics Methods for Probing the Abiotic Stress Responses in Plants

Guest Editors:

Message from the Guest Editors

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In a scenario of global climate change the agricultural sector will have to face great challenges. Agriculture production could be adversely affected by rising temperatures, changes in precipitations and variations in the intensity and frequency of extreme climatic events such as droughts and floods. The metabolic network of plants must be reconfigured under stress conditions to allow both the maintenance of metabolic homeostasis and the production of compounds to cope against the stress. The complexity of the genetic and molecular processes implicated in defense responses against these stresses need to be investigated more extensively. Information obtained through 'omics' experiments will enable qualitative and quantitative monitoring of the abundance of various biological molecules in a high-throughput manner. Understanding of plants resilience mechanisms is of fundamental meaning for the development of resistant crop varieties and more productive and sustainable agriculture.





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Message from the Editor-in-Chief

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