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Physiological, Genetic, and Molecular Basis of Drought Responses

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Deadline for manuscript submissions:
closed (30 July 2023)

Message from the Guest Editors

Understanding the molecular and physiological basis for many water use and drought-related traits has great agricultural importance. As reference genomes become available for an increasing number of crops, the wealth of information can be harnessed to explain genetic factors involved in perception, signal transduction, and transcriptional regulation of drought responses. In addition, recent advances in omics approaches and cell and molecular biology techniques have expedited the characterization of molecules involved in drought resistance mechanisms.

With this Special Issue, we encourage the submission of original research articles, commentaries, and review articles on the molecular and physiological basis of drought responses and tolerance mechanisms. We welcome articles that emphasize the approaches listed below but are not limited to:

1. Genomics, transcriptomics, proteomics, and phonemics;
2. Natural variation (GWAS and genetic mapping)'
3. Cell and molecular biology.

The issue will also include the advancements (new methods/or techniques) in quantifying drought responses.