Special Issue

Drought and Heat Stress Regulation on Crop Development and Yield

Message from the Guest Editors

Singular and combined abiotic stressors (drought, heat, irradiance) are major limitations affecting crop yields and ultimately the food and nutritional security. Hence, understanding crop responses to combined abiotic stressors is a pre-requisite to develop stress-resilient crops with high yield stability and nutritional quality. Crop plants cope with abiotic stressors by molecular, biochemical, ecophysiological and anatomical changes to mitigate stress effects. This understanding is crucial to device crop improvement strategies. This Focus/Special Issue invites original research articles, opinion papers and short communications on the following topics:

- Impact of abiotic stressors on metabolism and growth rates.
- Adjustments in morpho-anatomical changes under stress environments.
- Enhancement of crop resource use efficiency.
- Use of stable isotopes.
- Rapid high throughput phenotyping screening techniques of aboveground and belowground organs for physiological breeding.

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Editor-in-Chief

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