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Crop Adaptation to Elevated CO₂ and Temperature

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The rising concentration of CO₂ in the atmosphere is resulting in global warming. Higher CO₂ and temperatures can have large and often opposing effects on crop yield. Earlier expectations that elevated CO₂ would protect plants from high temperature stress seem to be mostly unfulfilled. In order to feed the increasing global human population, we need to identify crop germplasm better adapted to these global changes. Because of the many interactions between CO₂ and high temperature on plant responses, independent study of plant response or adaptation to CO₂ or to high temperature is likely less productive than examining adaptation to the combination of these two factors. However, such research poses technological challenges, as well as biological.

Dr. James Bunce
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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