Special Issue

Weed-Crop Interactions under Climate Change

Message from the Guest Editors

Crops perceive neighboring weeds and often respond by altering physiological and developmental processes that result in losses to crop yield or reductions in crop quality; processes that may also be influenced by climate change. For example, weeds alter the light quality perceived by phytochromes within crops that lead to changes in crop physiology, growth, and development. Further, these weed-induced changes in crops can affect other stress responses such as those involved with heat shock and disease. In this Special Issue, we will explore mechanisms by which crops perceive and respond to weeds, and how climatic variability might affect the physiological and developmental processes crops have evolved for responding to weeds. Because climatic variability impacts both the geographic footprint of weed species and crop responses to biotic and abiotic signals, we also encourage manuscripts documenting or investigating novel weed–crop interactions that occur as a potential consequence of climate change.

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