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Genetics and Physiology of Multiple-Stress Tolerance in Crops

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Message from the Guest Editor

Recent advances in crop physiology, new phenotyping techniques, genomics, and integrative gene-to-phenotype modeling have led to a better understanding of crop tolerance and resilience to individual environmental stress. This has resulted in greater knowledge of the gene networks underlying responses to a specific stress and new tools for plant improvement to increase crop performance. Due to the intrinsic complexities of most stress-tolerance traits, the investigation of crop responses to several simultaneous stresses remains a challenging task. Such research is particularly important as, in nature, concurrent stresses are commonplace. Moreover, the risk of multiple stresses occurring under climate change is expected to exacerbate.

The aim of this Special Issue is to provide valuable insights into crop tolerance and resilience to both abiotic and biotic stresses by covering multidisciplinary studies ranging from physiological, biochemical, molecular, and modeling analyses. All studies investigating crops coping with any combination of at least two stresses are welcome.



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Special Issue



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Message from the Editor-in-Chief

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