Special Issue

Genetic Breeding Strategies for Field Crops Responding to Abiotic Stress

Message from the Guest Editors

Climate change, with its increased frequency of extreme weather events, represents a critical threat to global food security.

This necessitates a major shift in crop production and breeding to ensure the resilience and stability of field crops against escalating abiotic stresses.
This Special Issue compiles cutting-edge research focused on accelerating the development of climate-resilient field crops. It emphasizes the strategic convergence of precision genetics, advanced phenomics, and computational modeling.

This Issue moves beyond traditional quantitative breeding by harnessing the power of genomic selection, high-throughput phenotyping, and genome editing to dissect and manipulate complex stress tolerance traits.

By bridging the gap between genetic discoveries and practical, accelerated breeding pipelines, this Special Issue offers valuable guidance for designing and implementing the resilient cropping systems essential for future food security.

Guest Editors

Dr. Aleksandra Radanović
Dr. Dragana Miladinović
Dr. Dunja Šamec

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Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

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Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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