

## Special Issue

# Recent Trends in Reproductive Enhancement of Crop Resilience to Extreme Climate

### Message from the Guest Editors

As climate change intensifies, improving crop reproductive resilience to extreme environmental conditions becomes one of the most challenging issues and a key focus in agricultural research. There are several strategies to mitigate effects of climate change to plant reproductive systems, including: (i) genetic and molecular approaches employing genomic selection for heat and drought tolerance, polyploidy, and epigenetics and stress memory; (ii) physiological and biochemical approaches related to hormonal regulation of reproductive development, pollen viability, and role of antioxidant systems; (iii) breeding approaches focused on developing climate-smart crop varieties, use of wild relatives and hybrid breeding, and implementation of marker assisted selection; (iv) interdisciplinary approach related to abiotic and biotic stress interactions; (v) technological innovations related to the use of high-throughput genotyping and phenotyping; and (vi) sustainable agricultural practices for climate resilience. Thus, this Special Issue will cover a wide range of topics, aiming to contribute to the overall understanding of various strategies that can be employed.

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### Guest Editors

Dr. Dragana Trkulja  
Prof. Dr. Andreas Börner  
Dr. Dragana Miladinović

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### Deadline for manuscript submissions

30 September 2026



## Plants

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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