

Special Issue

Germplasm Resources Exploration and Genetic Breeding of Crops

Message from the Guest Editors

Environmental changes force plant breeders to develop new and improved cultivars with better adaptability to biotic and abiotic stresses. The genetic diversity of crops, gathered and protected from extinction in genebanks worldwide, is essential for dealing with changing and more demanding environments. Breeding efforts are strongly supported by the broad exploitation of germplasm resources. However, the efficient utilization of available crop diversity in breeding programs depends on its precise and comprehensive characterization. This can be achieved through the intensive phenotyping and genotyping of genebank collections, current and historic cultivars, landraces, and breeding materials using advanced molecular, biochemical, and physiological tools and methods. Contributions in the form of novel research, reviews, and communications covering all aspects of the characterization of crop genetic resources and their applications in breeding will be considered. Papers concerning genetics research and molecular breeding, including gene/QTL detection or gene functional analysis in crops, will be welcome as well.

Guest Editors

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Deadline for manuscript submissions

closed (25 July 2023)



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Message from the Editor-in-Chief

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Editor-in-Chief

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