Special Issue

Enhancing Yield and Quality in Conventional and New Crops: From Molecular Approaches to Agricultural Practices

Message from the Guest Editors

An innovative approach and potent methodology for plant improvement is molecular marker-assisted breeding (MAB), which applies molecular biotechnologies (DNA markers) to practical breeding and selection. The incorporation of MAB into traditional breeding operations is an encouraging approach for crop development in the future. Often, new crop cultivars are suggested as a viable solution for climate change adaptation. Crop wild relatives (CWRs) could be sources of genetic diversity in producing new cultivars, given they have been used for crop improvement regarding disease and pest resistance as well as abiotic stress tolerance. We can use a more efficient form of selection to domesticate more wild species as we learn more about the genetic and biological basis of domestication processes. As we face climate change, this could lead to the development of novel crops and help us accomplish more environmentally sustainable agriculture, since many wild taxa are genetically diverse and locally adapted to certain ecosystems.

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