



Epigenomics and Crop Improvement

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Message from the Guest Editor

The epigenetic mechanisms in plants are important in a wide range of biological processes, including development and response to the environment. Because of these fundamental roles, epigenetics has the potential to play a role in crop improvement, such as selecting for favorable epigenetic states, creating novel epialleles, and regulating transgene expression. Epigenetic diversity could provide additional sources of variation for breeders to use, allowing for more phenotypic variation to be captured or created for crop improvement. Since high-resolution epigenome profiling is now available, epigenome analysis and engineering in crop species could expand our understanding of the molecular mechanisms underlying epigenetic inheritance and open up new possibilities for utilizing epigenetics' full potential in crop improvement.

Based on this background, we welcome eminent researchers working on crop epigenomics across the world to contribute to this special issue.





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Message from the Editor-in-Chief

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