Topical Collection

Epigenetic Modifications and Breeding Application in Horticultural Plants

Message from the Collection Editors

Dear colleague, We have witnessed tremendous technique advances and mechanically epigenetic regulation in plant epigenetics, which have been characterized as playing vital roles in developmental cues and environmental adaptation. As an emerging research field in horticultural plants, epigenetic modifications have already been revealed to regulate various processes like fruit development and ripening. In this Topical Collection, we aim to present papers on new detecting methods, identification epigenetic enzymes to install, remove and recognize epigenetic marks, epigenetic regulation of developmental cues and environmental adaptation, and artificial intelligence technologies (i.e. machine learning and deep learning) for prediction epigenetic modifications in horticultural plants. Potential topics include, but are not limited to: Detecting methods for epigenetic modifications Genome-wide profiles of epigenetic modifications Epigenetic regulation of development processes Epigenetic improvement for environmental adaptation Genome-wide identification of epigenetic enzymes Prediction of epigenetic modification by machine and deep learning Future perspectives

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Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.1

mdpi.com/si/95165

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mdpi.com/journal/horticulturae

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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

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