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DNA Methylation in Plants

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Message from the Guest Editors

Methylation is one of the most studied and mechanistically understood epigenetic modifications, and it is well-conserved among plant, animal, and fungal models. Specifically, plant DNA methylation results in the conversion of the cytosine to N4- or N5-methylcytosine or of the adenine to N6-methyladenine. Changes in the methylation status of these cytosine and adenine residues in genomic DNA play a pivotal role in the regulation of genome functions. Plants use DNA methylation and demethylation to adapt to environmental changes or to counteract biotic and abiotic stresses.

The Special Issue aims to provide an overview of recent studies regarding DNA methylation in plants, particularly on the DNA methylation and demethylation dynamics associated with

plant development; key biological process regulation; synthesis of secondary metabolites; and response to biotic and abiotic stresses.

Moreover, studies on genes involved in plant DNA methylation and in its regulation will be also considered.



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Special Issue



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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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