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Epigenetic Control Mechanisms and Transcriptional Reprogramming in Plants

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Message from the Guest Editor

Reprogramming gene expression enables plants to undertake major developmental steps and to respond to environmental threats. The central motor of this process is a coordinated, fine-tuned reorientation of expression of genes, preparing the cells for new tasks. We know that the network-like structured action of transcription factors downstream of different signal pathways plays a central role in this process. Rather recently, it became obvious that upstream of transcription factors there is an epigenetic control level, regulating reprogramming of gene expression via histone modifications and DNA methylation.

This Special Issue of *Plants* will bring together work on epigenetic mechanisms, controlling major developmental steps or stress responses in plants, with interconnected regulatory levels of gene expression via trans-acting factors.

Prof. Dr. Klaus Humbeck

Guest Editor



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Message from the Editor-in-Chief

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