



Regulations by Small RNA in Plant Development and Beyond

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Message from the Guest Editors

Plants are subjected to several environmental stimuli and a fine transcriptome reprogramming is needed to allow the balance between the plant response to tress factors and processes of plant growth and development. In this context, non-coding RNAs (ncRNAs) are fundamental players in the transcriptional and epigenetic regulatory mechanisms involved in the development and environmental adaptation of plants. Basing on their biogenesis, small RNAs are classified in different categories, each exerting specific functions in gene regulation that often overlap with hormonal signalling cascades. Although in the last decade there was a real explosion of studies on plant small RNAs, much of RNA signalling pathways is still unknown.

Papers submitted to this Special Issue should report novel and timely results unveiling significant aspects of small RNA-mediated signalling pathways, including DNA methylation patterns, crucial for the understanding of plant development, and of physiological and molecular responses to abiotic and biotic stress. Groundbreaking insights shedding new light on MIRNA genes and/or the diversification of miRNA biogenesis and functionality in plants are welcome as well.





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Message from the Editor-in-Chief

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