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Transcription Factors Associated with Plant Growth and Senescence

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Message from the Guest Editors

The control of gene expression is essential for the regulation of growth and developmental processes that shape plants as well as their adaptation to the environment. Transcription factors are key components of transcriptional control that consist of modular domains, which specifically interact with DNA target sequences and recruit proteins to influence transcription events. Their activity is modulated at different levels. Transcription factors are the center of intricate molecular networks, controlling cell differentiation and growth, tissue and organ development, responses to hormones, environmental factors, and disease resistance. Senescence, the final stage of plant growth and development, is a tightly regulated developmental program affected not only by age but also environmental signals and is also coordinated by transcription factors.

The aim of this Special Issue is to include articles that illustrate and discuss the plant transcription factors involved in the regulation of plant growth and senescence programs, as well as the molecular mechanisms through which they act. Research papers, short communications, reviews, and perspective papers are all welcome.



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Special Issue



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Message from the Editor-in-Chief

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