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salicylic acid application on plants under drought stress

have been studied at gene expression level. Morphological

changes, as well as the changes observed in expression

levels of the transcription factors in comparison with

salicylic acid application under drought stress, revealed the

importance of the transcription factors and also showed

the effect of hormone application. The current study gives information about the expression patterns of the

transcription factors YABBY and DOF in Phaseolus vulgaris L.

exposed to drought stress and the effect of salicylic acid on

this pattern. The study will shed light to the future studies

about the mechanisms of transcription factors and related

further studies about common bean.

Investigation of the YABBY and DOF transcription factors at gene expression level during drought stress conditions in *Phaseolus vulgaris L*. and the effect of salicylic acid

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A biotic stresses like drought and salinity are one of the most limiting factors for stable crop production worldwide. In recent years, molecular-based applications are being applied to solve these problems. In this regard, the molecular mechanisms of transcription factors have gained attention and gene expression studies have become indispensable to understand the underlying molecular mechanisms. Salicylic acid (SA) acts as an endogenous signaling molecule that induces abiotic stress tolerance in plants. Transcription factors (TF) have important roles in regulating a variety of biological processes like salicylic acid dependent resistance of plants to stress. In this study, the expression levels of YABBY and DOF genes are investigated under drought stress conditions and also the effects of

Biography

Arzu Gizem Kirici is now currentely pursuing her Php from Ankara University, Turkey

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