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Title: Protein-Protein interaction studies of the epidermal and sub epidermal cell types enriched transcription factors in the shoot apex in Arabidopsis thaliana

Authors: Murali, Reshma (/jspui/browse?type=author&value=Murali%2C+Reshma)

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Abstract: The protein-protein interaction studies are important to understand the chemical machinery that makes up the living cell. My work focuses on building a comprehensive interactome for the transcription factors, which are enriched in the L1 and L2 layers using bimolecular fluorescence complementation assay (BiFC). BiFC assay provides an approach for the visualization of protein-protein interactions in living cells. To facilitate BiFC assay in plant leaf cells, we generated different complementary sets of expression constructs, which allow protein interaction studies in transiently transformed cells. Our studies revealed a remarkable signal fluorescence intensity of interacting protein complexes in the nuclei of pavement cells. This provides an in vivo validation of the already reported yeast two-hybrid data.

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