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AGROBACTERIUM - MEDIATED TRANSFORMATION OF TORENIA USING DIFFERENT ANTHOCYANIN REGULATORY GENES

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This study was conducted to confirm whether the regulatory genes such as *PAP1, B-peru, PAP1+B-peru,* which are driven under the control of the CaMV 35S promoter, could regulate genes encoding enzyme for anthocyanin biosynthetic pathway in Torenia fournieri '*Kauai Rose*' explants. After co-cultivation with *Agrobacterium* strains, explants were cultured on the selection medium containing 1.0 mg. L^{-1} BA + 0.1 mg. L^{-1} NAA, 250 mg. L^{-1} Clavamox and 0.5 mg L^{-1} PPT for four weeks. Regenerated putative transgenic shoots were transferred to MS hormone free medium supplemented with 3% sucrose and 125 mg L-1 Clavamox, 1.0 mg. L^{-1} PPT for root formation. Putative transgenic plants with roots were acclimatized in green house for four weeks and treated with 0.1% Basta. The survived plants showed PCR positive for inserting genes.

Biography

Jun-Ping Xu is doing her Ph. D degree majoring in Horticultural Biotechnology in Kyungpook National University.

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