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Studies on the Behavior of Proliferated Shoots and Roots of Two Fig Cultivars *in Vitro*

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Abstract:Shoots regenerated from shoot tip of BlackMission and Conadria fig cultivars plantlets from the establishment stage were cultured on Murashige and Skoog medium. Different cytokinin types (6-bnezylominopurine (BAP), 2ip ($6-(\gamma,\gamma-Dimethylallylamino)$ purine) and kinetin) and cytokinin like compound (TDZ) were tested, in addition, Murashige and Skoog (MS) and woody plant (WP) medium were studied on proliferation and rooting stage. Data indicated that culturing of shoot regenerated from shoot tips on woody plant medium supplemented with 0.5 mg/L Kinetin is recommended during the proliferation stage. However, Black Mission cultivar surpassed Conadria cultivar in increasing shoot length and number of roots parameters. Also, number of roots (12.06) and root length (4.45) of fig shoots were better on free woody plant medium compared with those medium contained IBA and free Murashige and Skoog medium.

Key words: *Ficuscarica*, BlackMission, Conadria, Shoot multiplication, micropropagation, Cytokinin type – Cytokinin like compound, TDZ androoting stage.

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