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Promoted by Cytokinin influence Regeneration from Shoottip explants of *Ipomoea batatus*

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Abstract: *In vitro culture methodology requires efficient plant regeneration from protoplasts, production of hybrid plants has been limited to a variety few species. Hansen G (1999), Ghazi et al (1986).Stem node segments of Ipomoea batatus were inoculated on MS basal medium supplemented with various cytokines BAP and NAA Coconut water also had a role in triggering the formation of multiple shoots. Addition of BAP at 2.0 mg/l and NAA at 3.0 mg/l to the MS basal medium, induced regeneration from leaf segments with an increase in the level of BAP 2.0 – 3.0 mg/l the percentage of explants producing shoots also increased. In vitro micro propagation from shoottip explants Ugender and Venkateshwarlu M (2012) and T Ugender et al (2012). The number of shoots developed on the leaf segments ranged from 1-4 to 2-3 by the addition of BAP at concentration of 1.0 mg/l or NAA at 2.0 mg/l. Among the three concentrations of coconut milk used i.e., 10,15 and 20% , 15% of coconut milk along with 0.5 mg/l BAP + Kn proved to be ideal for multiple shoot induction. Callus induction multiple shoots Venkateshwarlu M (2008).MS medium fortified with 1.0 mg/l BAP or 2.0 mg/l L-G Glutamic acid also induced shoot buds on leaf segments. The developments of chimaeric culuses in place of hybrids plants that are regenerated from callus induction usually lose their adventitious shoots or embryos usually develop from a single cell.*

Keywords: Regeneration, shoottip, BAP, Kn, L-Glutamic acid, *Ipomoea batatus*

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