

MICRO-PROPAGATION OF BRINJAL (*SOLANUM MELONGENA L.*) BY CALLUSING

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Abstract: Brinjal known to be poor man's vegetable come under as essential vegetable. It has low in calories and high in nutrition and has very good source of fiber, calcium, phosphorous, folate and vitamin B and C. Micro-propagation of Brinjal through callusing is reported in this study. MS medium supplemented with combination of BAP and 2,4-D in different concentrations were used for callusing leads to multiple shoots. The callus induction was highest in BAP (1.5mg/l) + 2, 4-D (2mg/l) for both hypocotyls and leaf explants. The maximum shoot regeneration was obtained in MS media containing BAP (1.5mg/l) + Kinetin (1mg/l); highest frequency of shoot regeneration (89% and 88%) and maximum number of shoots per explants (4.00 and 3.00) was obtained from the hypocotyls and leaf explants, respectively. The successful rooting was recorded on media supplemented with 3mg/l. IBA.

Keywords: Callogenesis, Micropropagation, *Solanum melongena*

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