PLANTS REGENERATION THROUGH CALLUS TISSUE OF OKRA
(ABELMOSCHUS ESCULENTUS L. MOENCH.)

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Abstract: The explants (hypocotyl, cotyledonal node & cotyledonal leaf or leaf segments) were excised from aseptically grown Okra (Abelmoschus esculentus) seedling. The explants were cultured on Murashige & Skoog basal nutrient medium, which supplemented with auxin or cytokinin or in combination of auxin-cytokinin and auxin with AgNo3 and Casian hydrolysate in various concentrations. The callus formation from explants was occurred in a medium containing auxin (NAA, IAA, 2, 4-D) or cytokinin (BAP, KN, Z) or auxin - cytokinin combinations. But the shoots development was observed on medium containing BAP & BAP-combinations (BAP+NAA, or BAP+IAA, or BAP+AgNo3+casian hydrolysate). No shoots developed in MS medium contained KN or Z. The regenerated shoots were successfully rooted on MS medium containing NAA or IAA. The regenerated rooted shoots were successfully established in soil.

Keyword: Regeneration, Callus, Okra

REFERENCES


