

In Vitro Propagation of Kutaja (*Holarrhena antidysenterica* Wall.)

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Leaf, root and stem explants taken from seedlings of *Holarrhena antidysenterica* Wall. were cultured on MS medium supplemented with IAA, NAA, 2, 4-D, Kn or BAP alone or in combination of IAA + Kn or 2, 4-D + Kn. IAA (2.0 mg/litre) was found to be most favourable for callusing in root and stem and 2, 4-D (0.5 mg/litre) in leaf explants. Explants taken from leaf, root and inter-nodal part of stem did not show regeneration of shoots, but the explants consisting of nodal segments of stem regenerated two shoots on medium supplemented with IAA (1.0 mg/litre). On transfer to medium containing 3.0 mg/litre of IAA the shoots developed roots, leading to formation of complete plantlets.

Stepwise transfer of the plantlets from the medium to vermiculite and then to soil was found necessary for proper hardening and survival.

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