

## *In Vitro Callus Induction And Antioxidant Potential Of*

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*In-vitro callus induction from two different explants stem ...*  
*The first reports of callus induction in vitro came from three independent researchers in 1939. P. White induced callus derived from tumor-developing procambial tissues of hybrid Nicotiana glauca that did not require hormone supplementation. Gautheret and Nobecourt were able to maintain callus cultures of carrot using auxin hormone additions.*

*In vitro callus induction and plantlet regeneration of ...*  
*In vitro callus induction and plant regeneration from leaf explants of Ruta graveolens L.*

*Induction and Proliferation of in vitro Mass of Callus of ...*  
*The present paper deals with In-vitro callus induction and shoot regeneration in Ephedra gerardiana from nodal explant. Ephedra gerardiana an evergreen shrub also called as Ma-Haung and in India it is called as Somlata, belongs to family Gnetaceae.*

*(PDF) In vitro callus induction and plantlet regeneration ...*  
*Callus induction was found both in 2,4-D and BAP. Both rhizogenesis and caulogenesis were obtained from callus. Highest shoot bud regeneration was noted in 2.0 mg/l BAP.*

*In vitro HIGH-FREQUENCY CALLUS INDUCTION IN CARNATION ...*

*In present study, callus was raised from two different explants leaf and stem of plant. The work incorporates to standardize the optimum conditions for induction of callus. The in-vitro grown plantlet is with different parts like epicotyls, stem, hypocotyls, cotyledon, leaf and root. It is possible to induce*

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*callus from various parts of the plantlet.*

*In vitro callus induction and regeneration studies in ... the medium for in-vitro multiplication and callus induction of Drosera plant is MS medium. MS medium also reported as a superior medium for the micropropagation of Coptis teeta (Tandon, 2007). In addition of this several workers reported importance of auxins for callus induction (Bhat et. al., 1992; Barna and Waklu, 1994; Bindahani et.*

*Plant Callus: Mechanisms of Induction and Repression ... Lantana camara L., a medicinal plant, exhibits antimicrobial, fungicidal, insecticidal and nematicidal properties. Effective in vitro micropropagation and callus induction aid plant material production for bioactive compound studies and plant resource conservation. Shoot multiplication, root induction and callus formation were investigated.*

*Callus Induction, Proliferation, and Plantlets ... Two commercial indica rice varieties, PAU 201 and PR 116, exhibited appreciable callus induction in vitro but the capacity to induce and regenerate callus decreased under salinity stress in both ...*

*In vitro callus induction, regeneration and ... The development of an efficient in vitro callus induction and plant regeneration protocol is the first requisite of genetic transformation for creating improved cultivars through transgenic technologies.*

*Callus (cell biology) - Wikipedia*

*The strongest callus induction factor is the growth/nutrient medium supplemented with plant growth regulators . There are various reports on in vitro induction of callus and*

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*production of secondary metabolites in medicinal plants .*

*Callus Induction and Plant Regeneration from In Vitro ...*

*To study callus induction from different explants (internode, leaf, root) and in vitro plantlets propagation from medicinally important plant *Achyranthes aspera* L. Sterilized explants were prepared by using 0.1% HgCl<sub>2</sub> and 0.5% Bavistin and callus was ...*

*In-vitro callus induction and shoot regeneration in ...*

*Exogenous application of auxin and cytokinin induces callus in various plant species. Generally speaking, an intermediate ratio of auxin and cytokinin promotes callus induction, while a high ratio of auxin-to-cytokinin or cytokinin-to-auxin induces root and shoot regeneration, respectively (Skoog and Miller, 1957).*

*In-vitro callus induction and shoot regeneration in ...*

*Abstract. Response of twenty eight cultivars of durum wheat (*Triticum turgidum* var. durum) to immature embryo culture, callus production and in vitro salt tolerance was evaluated. For assessment of cultivars to salt tolerance, growing morphogenic calli were exposed to different concentrations of NaCl (0, 0.3, 0.6, 0.9, 1.2, 1.5, 1.8 and 2.1% w/v) added to the culture medium during two ...*

*In-vitro Callus Induction and Rosmarinic Acid ...*

*In vitro cultured scale explants showed great ability to induce callus, followed. by in vitro cultured petioles and leaves. MS medium with 1.0 mg l<sup>-1</sup> BA and 1.0 mg l<sup>-1</sup> 2,4-D was found to be optimal for callus. induction from in vitro leaves and petioles with the highest induction percentages of 79.6% and 83.3%, respectively.*

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*Plant Callus: Mechanisms of Induction and Repression* OPEN  
*In vitro callus induction and plantlet regeneration in fig (Ficus carica L.) Article (PDF Available) · January 2012 with 239 Reads How we measure 'reads'*

## *In Vitro Callus Induction And*

*A preliminary experiment was carried out using in-vitro young leaves, internodes and shoot tip as explants in the callus induction experiment. However, young leaves and internodes cultured with either PGRs or without them began to turn brown after one week of culture.*

*(PDF) Callus Induction and in vitro Plant Regeneration of ... callus induction during postembryonic development in plants. CALLUS FORMATION IN VITRO AND IN NATURE Callus Formed under in Vitro Culture Conditions Exogenous application of auxin and cytokinin induces callus in various plant species. Generally speaking, an intermediate ratio of auxin and cytokinin promotes callus induction, while a high*

*In vitro callus induction and plant regeneration from leaf ... In vitro callus induction and regeneration studies in Withania somnifera | SpringerLink Callus cultures were initiated from axillary leaves, axillary shoots, hypocotyls, and root segments on Murashige and Skoog (MS) (1962) medium supplemented with 2,4-D (2 mg l<sup>-1</sup>) and KN (0.2 mg l<sup>-1</sup>).*

*Micropropagation and callus induction of ... - ScienceDirect The auxin 2, 4-dichlorophenoxy acetic acid (2, 4-D) alone or in combination with cytokinins, is widely used to enhance callus induction and maintenance [ 12 ]. Genetic factors are considered to be a major contributor to the in vitro response of cultured tissues.*

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