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An Efficient Protocol for Plantlet Regeneration via Direct

...

Different cytokinins (thidiazuron, 6-benzyladenine, kinetin, and 2-isopentenyl adenine) at a range of various concentrations in modi?ed rhododendron medium have been investigated for organogenesis. Among the four cytokinin investigated, only thidiazuron (TDZ) was effective for direct shoot regeneration from leaf and

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internode explants

Direct Organogenesis from Cotyledonary Node Explants of ...

An efficient protocol providing a dual regeneration pathway via direct shoot organogenesis and somatic embryogenesis for an endangered species, *Metabriggsia ovalifolia* W. T. Wang, was established ...

High frequency regeneration of plants via callus-mediated ...

Both explants initiated callus formation on shoot induction medium (SIM) media containing various concentrations of cytokinin and auxin. To identify the

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most efficient medium composition for plant regeneration from leaf and stem explants, different hormone ratios of concentrations were examined with an orthogonal method (Table 1).

**In Vitro Shoot Organogenesis from Pelargonium
Citrosium ...**

**Organogenesis from transformed explants is a very ...
several different factors that include age of the explants,
different types of ... Organogenesis From Transformed
Tomato Explants.**

**Somatic embryogenesis and enhanced shoot
organogenesis in ...**

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ABSTRACT: *Heliotropium indicum*, L. is one of the most common medicinal plants used by diverse cultures and tribal groups. In vitro callogenesis and rhizogenesis is achieved from different explants in stem and leaf of *Heliotropium indicum*, L Explants were incubated on Murashige and Skoog (MS) medium supplemented with different concentrations and

An efficient in vitro regeneration system from different ... Different explants for indirect organogenesis have been described in *Phaseolus* spp. (Mohamed et al., 1993, Dillen et al., 1996, Zambre et al., 1998, Arellano et al., 2009). Morphogenetic callus induction from cotyledonary node explants was described by some authors (McClean and

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Grafton, 1989 , Arellano et al., 2009).

(PDF) Organogenesis from transformed tomato explants
In vitro plant regeneration was achieved from eight sweet
pepper varieties (*Capsicum annum* L.). The effect
of various explant types (cotyledons, leaves,
cotyledonary nodes and shoot-tip from 25-day-old
seedlings and embryonic cotyledons, embryonic
hypocotyls and wounded seedlings) on bud and shoot
regeneration and shoot elongation was
evaluated. Differences in ability for in vitro shoot ...

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Bacopa monniera commonly known in India as 'Brahmi', it is an important ancient ayurvedic medicinal plant. In the traditional system of medicine Brahmi is used as a nervine tonic. It is also used to treat asthma, epilepsy, enlargement of spleen, rheumatism. It possesses anti-inflammatory, analgesic and antipyretic activity. It contains several alkaloids e.g., nicotine, brahmine, herpestine and...

In vitro Callogenesis and Rhizogenesis from different ... Efficient in vitro regeneration protocols were established for *Tinospora cordifolia* through direct and indirect organogenesis, using cotyledon (C), young leaf (YL) and mature leaf (ML) explants. Highest response of

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97.9–100.0% organogenic callus was induced on Murashige and Skoog (MS) medium containing indole-3-acetic acid (IAA) at 2.0 mg/L. Morphology of the callus varied from yellow ...

Shoot Organogenesis and Plant Regeneration from Leaf ...

Callus Proliferation and Plant Regeneration The callus obtained from leaf explants on the medium M 2 were excised and cultured on different concentrations of BA (0.0–1.0–2.0–4.0–6.0–8.0 ...

A Simple and Efficient Direct Shoot Organogenesis Method ...

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In Vitro Shoot Organogenesis from Pelargonium × Citrosum Vanleeni Leaf and Petiole Explants ... Our study shows that 6-benzyladenine, thidiazuron and kinetin are effective in inducing adventitious shoot production, unlike 2-4-dichlorophenoxyacetic acid and -naphthaleneacetic acid.

High Efficiency Organogenesis in Sweet Pepper (Capsicum ...

Histological analysis provided morphological details that help explain the process of organogenesis from the explants 43. At different regeneration stages of explants, it was found that the ...

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Direct Organogenesis from Rhizome Explants in Marsilea

...

Cotyledonary node explants from 3- 5 d-old seedlings were used as the explants. Adventitious buds were induced from the meristematic regions of cotyledonary node explants on MS medium supplemented with BA (0.5 - 2 mg/L) or KN (0.5 - 2 mg/L) or TDZ (0.01- 0.2 mg/L) after 2 weeks of culture. Axillary meristems of the

Callus Induction and Plant Regeneration from Different ... Silva, 2013), direct shoot organogenesis from flower buds (capitulum), explants (Akter . et al., 2012), or callus culture from different kinds of tissue and cell suspension culture and somatic embryogenesis (Received: 10

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f.nazari433@gmail.com

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In conclusion, this is the first report on plantlet regeneration via direct organogenesis by using nodal segments from embryo-cultured seedlings of camphor tree. An efficient and stable juvenile explants supplier was obtained by our research, and the juvenile material rapid propagation system and the plantlet regeneration system via organogenesis established are summarized in Fig 4 .

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Regeneration via Direct Organogenesis from Leaf Segments ...

An efficient micropropagation protocol has been developed for *Marsilea quadrifolia* L. through direct organogenesis. The mature rhizomes were used as explants and successfully sterilized using 0.1% HgCl₂ for the establishment of cultures. The multiple shoots were differentiated from the explants on Murashige and Skoog (MS) medium augmented with 6-benzylaminopurin (BAP).

Efficient in vitro plant regeneration via indirect ...

Among different explants tried for de novo regeneration, hypocotyls gave a better response. Age of the seedlings

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from which explants were prepared influenced the regeneration frequency considerably. In the beginning, 2 to 20-d-old seedlings were tested and explants from 8 - 10-d-old seedlings were chosen for

Effective organogenesis from different explants of Bacopa ...

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Direct organogenesis from leaf and internode explants of

...

Different concentrations of TDZ and BA can lead to different morphogenesis response by explants, low concentration of TDZ has been shown to be beneficial for shoot organogenesis (e.g., Saintpaulia) , and high TDZ concentration can trigger somatic embryogenesis, in Ochna, for example [22, 23].

Efficient regeneration from hypocotyl explants in three ...

Direct organogenesis from leaf explant of Indian variety of Solanum melongena L. (PLR1) was successfully achieved. Eggplant leaves cultured for 10–12 days on MS

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medium supplemented with (2iP) 2.0 mg L⁻¹ and Naphthalene acetic acid (NAA) 1.0 mg L⁻¹ induced high frequency shoot organogenesis (79-81%) and favored shoot elongation. Shoots developed from leaf explant directly after two ...

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