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In Vitro Meristem Culture For

The meristem from a plant which produces heterozygous seeds can store in the in-vitro conditions. Meristem culture also helps in the plant breeding technique where hybrid breeds of the plants can grow. The quarantine authority for the international exchange easily accepts the plants obtained by the meristem culture.

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What is Meristem Culture? Definition, Process ...

But in vitro regeneration is highly effective biotechnological approach to develop true to type plants as well as diseases or insects resistant plants. The present study was undertaken to determine the culture conditions for meristem culture and establish the in vitro plant regeneration techniques from in vitro grown seedling of Citrus

Establishment of a Standard Protocol for In Vitro Meristem ...

Abstract. A total of 7000 meristems were used in experiments to investigate the possibility of cloning *Sequoiadendron giganteum* Buchholz by in vitro meristem culture of juvenile (2-year-old) and mature (100-year-old) ortets. Cultures were initiated on a low-salt medium containing 0.1 mg l⁻¹ 1-naphthaleneacetic acid to stimulate meristematic activity, Benzylamino purine (0.01-0.5

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mg | ...

In vitro meristem culture of juvenile and mature ...

Different steps during meristem isolation and in vitro propagation of *Fragaria chiloensis*. a Meristem isolation and culture: i isolated meristem near to be cultivated, ii green meristem showing viability after culture, iii dead meristem after oxidation, iv plantlet shooting from an isolated meristem.

Meristem culture and subsequent micropropagation of ...

The culture of the meristems involves the removal and in vitro placement of dome-shaped meristematic tissue on the culture media for the development of the whole plant. Morel and Martin developed the meristem culture technique to culture Dahlia in 1952.

Meristem and Shoot Tip Culture - Plant Cell Technology ...

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Meristem culture has been used for the production of disease-free strawberry plants from infected plants [11, 12]. Recently, Munri et al. conducted successful in vitro propagation of different strawberry cultivars from meristem cultures. However, meristem-derived plants also show morphological changes under field conditions [14,15,16].

In vitro propagation method for production of ...

Meristem culture is the in vitro culture of a generally shiny special dome-like structure measuring less than 0.1 mm in length and only one or two pairs of the youngest leaf primordia, most often excised from the shoot apex.

Shoot Tip Culture: Meaning, Principle, Protocol and ...

(2008). The Use of Thermo-therapy and in vitro Meristem Culture to Produce Virus-Free 'Chancellor' Grapevines. International Journal of Fruit Science: Vol. 7, No. 3, pp. 15-25.

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The Use of Thermotherapy and in vitro Meristem Culture to ...

Morel and Martin (1952) developed the technique of meristem culture for in vivo virus eradication of Dahlia. Shoots of all angiosperms and gymnosperms grow by virtue of their apical meristems. The apical meristem is usually a dome of tissue located at the extreme tip of a shoot and measures approx. 0.1 mm in diameter and 0.25 to 0.3 mm in length. Meristem or shoot tip is isolated from stem by ...

Meristem culture - SlideShare

Besides meristem-tip culture, other in vitro methods are also used for raising virus-free plants. In this regard callus cultures have been successful to some extent. The callus derived from the infected tissue does not carry the pathogens throughout the cells.

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Micro propagation: Technique, Factors, Applications and

...

Meristem culture was done for developing an efficient protocol of production of eggplant clones. Shoot tips of 30-35 days old field grown eggplants were used for meristem isolation. ... In Vitro Propagation of Eggplant through Meristem Culture¹⁵¹ Treatment (mg/l) ...

In Vitro Propagation of Eggplant through Meristem Culture

Seed culture Increasing the efficiency of germination of seeds that are difficult to germinate in-vivo, germination by application of plant-growth regulators, and production of clean seedlings for explants or meristem culture. 19. 3. Meristem culture Meristem culture is the in vitro culture of a generally shiny special dome like structure ...

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Techniques of in vitro culture - SlideShare

Request PDF | In vitro Plant Production through Apical Meristem Culture of Bitter Gourd (Momordica charantia L.) | The growth of meristem was observed on semisolid MS medium supplemented with 0 ...

In vitro Plant Production through Apical Meristem Culture

...

Crocus sativus L. is a triploid and sterile crop that propagates vegetatively by corm. Tissue culture is a useful method for large scale production of pathogen-free plants. In this study, in order to determine the best hormone treatment for nonembryogenic and embryogenic calli induction, apical meristem of young corms derived from saffron (Crocus sativus L.) were cultured in solid LS medium ...

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In vitro Production of Pathogen-free Plantlets via ...

The present study described a combining thermotherapy with meristem culture for improved eradication of onion yellow dwarf virus (OYDV) and shallot latent virus (SLV) from co-infected in vitro-cultured shallot shoots.

Combining thermotherapy with meristem culture for improved ...

Meristem culture is used for shoot apical meristem culture in vitro. Meristem culture was developed by Morel and Martin in 1952 for rivers eliminating from Dahlia [5]. Orchid Cymbidium was micropropagated using meristem culture by Morel in 1965 [6]. An already existing shoot meristem grows in the meristem culture and adventitious roots ...

Meristem - an overview | ScienceDirect Topics

The essence of meristem-tip culture is the excision of the

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organized apex of the shoot from a selected donor plant for subsequent in vitro culture. The conditions of culture are regulated to allow only for organized outgrowth of the apex directly into a shoot, without the intervention of any adventitious organs (1-3).

Meristem-tip culture

Shoot tips of M.4 apple clone were excised from actively growing one year-old stoolbed branches, and cultured in order to determine the optimal nutrient medium for each stage of their in vitro culture. The basal medium (BM) used was that described by Murashige and Skoog, supplemented with vitamins, glycine, myoinositol, sucrose, with or without agar, and different combinations of plant growth ...

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