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For embryogenic genotypes, only staminodes and stamen filaments were able to produce somatic embryos: after a few days on the expression medium, groups of callus cells went through the meristematic and then embryonic stages, and finally formed somatic embryos. Many of them showed abnormalities.

Histology of Callogenesis and Somatic Embryogenesis ...

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Somatic embryogenesis in palm trees is, in general, a slow and highly complex process, with a predominance of the indirect route and, consequently, a lack of knowledge about the direct route. We present new knowledge related to the morphological, histochemical, and ultrastructural aspects of the transition from

Somatic Embryogenesis and Plant Regeneration from Callus ...

Somatic embryogenesis in palm trees is, in general, a slow and highly complex process, with a predominance of the indirect route and, consequently, a lack of knowledge about the direct route.

Plant regeneration via direct somatic embryogenesis from ...

The effect of auxins, 2,4-D, NAA, IAA, Dicamba and picloram, was tested for

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somatic embryogenesis in groundnut. Among the different auxins tested 2,4-D favored the best response of somatic embryogenesis with induction of 18.3 somatic embryos per explant that were big, healthy, succulent and green in color.

Histology of somatic embryogenesis in pea - ScienceDirect

Histological analysis of somatic embryogenesis revealed that after two weeks of culture of explants on the callus induction medium, somatic embryo development began with a cluster of proembryogenic...

Histology, histochemistry and ultrastructure of pre ...

Keywords: Cycad; Somatic embryogenesis; Histology; Gymnosperm; Morphogenesis 1. Introduction Chavez et al. [1] reported somatic embryogenesis

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from cultures derived from leaves of mature trees of the primitive gymnosperm *Ceratozamia mexicana*, an endangered cycad species from Central America and southern Mexico.

Somatic embryogenesis, scanning electron microscopy ...

Histology of Callogenesis and Somatic Embryogenesis Induced in Stem Fragments of Cork Oak (*Quercus suber*) Cultured In Vitro M. EL MAËTAOUI, H. ESPAGNAC* and N. MICH AUX-FERRIÈRE Laboratoire de Biologie Végétale Expérimentale, Faculté des Sciences, 33, rue Louis Pasteur, 84000 Avignon, France

Histology of somatic embryogenesis in rice (*Oryza sativa* ...

Histology of somatic embryo development The somatic embryos were originated

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from the meristematic cells of the leaf explants (Fig. 3 a). When compared to the original leaf cells, the meristematic cells showed smaller size and obviously densely stained (Fig. 3 a).

CiteSeerX \square Histology of Somatic Embryogenesis in Cultured ...

Abstract. Calluses able to produce somatic embryos were formed during in vitro culture of shoot fragments of cork oak (*Quercus suber* L.). Histological monitoring of these fragments during culture showed that it was the cortical parenchyma cells which underwent dedifferentiation before calluses were formed by repeated divisions.

Histology, histochemistry and ultrastructure of pre ...

Histology of somatic embryos developed via direct somatic embryogenesis from

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cotyledons explants of *S. lycopersicum* cv. Riogrande . (A) Section of explants with various stages of somatic embryos showing abundance of globular stage embryos, after one week on tuber induction medium.

Histology, histochemistry and ultrastructure of pre ...

Request PDF | Histology of somatic embryogenesis in *Coffea arabica* L. | The objective of this study was to characterize the histodifferentiation of somatic embryogenesis obtained from leaf ...

Histology of somatic embryogenesis from floral tissues ...

Histological analysis was carried out during the sequence of events which lead to the obtaining of somatic embryos of oil palm. Calluses from the division of perivascular cells formed at the veins of

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young leaf explants. Subsequent proliferation of histologically similar nodules was by means of a cambium-like zone.

Histology of somatic embryogenesis of the cycad ...

Our histological observations showed that somatic embryos originated from the more external cells of the embryogenic calli, agreeing with previous observations in sugarcane (Jane-Ho & Vasil 1983), Guinea Grass (Lu & Vasil 1985) and oil palm (Schwendiman et al. 1988).

Histology of Somatic Embryogenesis from Leaf Explants of ...

Lu C.Y., Vasil I.K., Histology of somatic embryogenesis in *Panicum maximum* (Guinea grass), *Am. J. Bot.* 72 (1985) 1908-1913. [14] Maheswaran G., Williams E.G., Origin and development of somatic

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embryoids formed directly on immature embryos of *Trifolium repens* in vitro, *Ann. Bot.* 56 (1985) 619-630. [15]

Effect of auxins and auxin polar transport inhibitor (TIBA ...

The results support the general concept that 2,4-dichlorophenoxyacetic acid plays a critical role for the formation of somatic embryos of direct and multicellular origin. Seven days in medium with auxin were enough for the identification of embryogenic cells. These cells had a set of characteristics corresponding to totipotent stem cells.

Histology of somatic embryogenesis in *Coffea arabica* L ...

Fig. 1 summarized the pathway of somatic embryogenesis, scanning electron microscopy, histology and biochemical analysis at different developing stages of

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embryogenesis. To our knowledge, it is the first ever report compiling a detailed documentation on somatic embryogenesis and plant regeneration in six important date palm's cultivars.

Histology of Callogenesis and Somatic Embryogenesis ...

Somatic embryogenesis and plant regeneration in cereals and grasses. In A. Fujiwara [ed.], Plant tissue culture 1982, pp. 101 - 104. Maruzen, To-kyo. 1983. Regeneration of plants from single cells of. 1913. Histology of Somatic Embryogenesis in *Panicum maximum* ...

(PDF) Histology of somatic embryogenesis in rice (*Oryza* ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Abstract: The histology of somatic embryo initiation and development in pistachio

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(Pistacia vera L.) embryogenic masses (EMS) derived from leaf explants was examined using light microscopy. Explants with somatic embryos at different developmental stages were fixed for histological examination, cut into 10 μm thick ...

Histology of Somatic Embryogenesis in *Panicum maximum* ... of somatic cells toward embryogenesis (Kitamiya et al., 2000). The acquisition of embryogenic competence by somatic cells must involve reprogramming of gene expression patterns as well as changes in the morphology, physiology and metabolism. In addition, a high level of endogenous auxin is

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