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Histology of Callogenesis  
and Somatic Embryogenesis

...

Somatic embryogenesis and plant re-generation 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

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Embryogenesis in *Panicum maximum* ...

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

Histology of somatic embryo development The somatic embryos were originated 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).

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

The results support the general concept that

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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, histochemistry and ultrastructure of pre

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

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histodifferentiation of  
somatic embryogenesis  
obtained from leaf ...

Histology, histochemistry  
and ultrastructure of pre

...

Histology of somatic embryos  
developed via direct somatic  
embryogenesis from  
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 of Somatic  
Embryogenesis from Leaf  
Explants of ...

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

Plant regeneration via direct somatic embryogenesis from ...

The effect of auxins, 2,4-D, NAA, IAA, Dicamba and picloram, was tested for somatic embryogenesis in groundnut. Among the different auxins tested

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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.

Somatic embryogenesis,  
scanning electron microscopy

...

Histology of Callogenesis  
and Somatic Embryogenesis  
Induced in Stem Fragments of  
Cork Oak ( *Quercus su ber*)  
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



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## Histology of Callogenesis and Somatic Embryogenesis

...

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

Histology of Somatic  
Embryogenesis in *Panicum  
maximum* ...

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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

CiteSeerX — 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*

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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 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 young leaf explants. Subsequent

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proliferation of histologically similar nodules was by means of a cambium-like zone.

Histology Of Somatic Embryogenesis From  
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 somatic

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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 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, histochemistry and ultrastructure of pre

...

Keywords: Cycad; Somatic

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embryogenesis; Histology;  
Gymnosperm; Morphogenesis 1.  
Introduction Chavez et al.  
[1] reported somatic  
embryogenesis from cultures  
derived from leaves of  
mature trees of the  
primitive gymnosperm  
*Ceratozamia mexicana*, an  
endangered cycad species  
from Central America and  
southern Mexico.

Histology of somatic  
embryogenesis of the cycad

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Our histological  
observations showed that  
somatic embryos originated  
from the more external cells  
of the embryogenic calli,  
agreeing with previous

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observations in sugarcane (Jane-Ho & Vasil 1983), Guinea Grass (Lu & Vasil 1985) and oil palm (Schwendiman et al. 1988).

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

...

CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda):

Abstract: The histology of somatic embryo initiation and development in pistachio (*Pistacia vera* L.)

embryogenic masses (EMS) derived from leaf explants was examined using light microscopy. Explants with somatic embryos at different developmental stages were

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fixed for histological  
examination, cut into 10  $\mu\text{m}$   
thick ...

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...

Somatic Embryogenesis and  
Plant Regeneration from  
Callus ...

Somatic embryogenesis in  
palm trees is, in general, a  
slow and highly complex



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process, with a predominance of the indirect route and, consequently, a lack of knowledge about the direct route.

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