

Histology Of Somatic Embryogenesis From Floral Tissues Cocoa

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

Histology of Somatic Embryogenesis from Leaf Explants of ...

Somatic embryogenesis was demonstrated in the 1950s in carrots (Steward et al., 1958); subsequently it has been obtained easily in certain plants but with much more difficulty in others (Ammirato, 1983a). The many advantages of this method, which combines enhanced regeneration (theoretically true to type) with rejuvenation, have incited numerous recent studies aimed at optimizing experimental conditions for somatic embryogenesis in monocots (Vasil, 1987), dicots (Raghavan, 1986; Rangaswamy ...

Histology of Somatic Embryogenesis | SpringerLink

Histological studies of the somatic embryogenesis process in Coco Cumbé Palm (*Parajubea coccoides* Burret), from cigotyc immatures embryos. Foreign Title : Estudios histológicos del proceso de embriogénesis somática en Palma Coco Cumbé (*Parajubaea coccoides* Burret) a partir de embriones cigóticos inmaduros.

Histological studies of the somatic embryogenesis process ...

Somatic embryogenesis has been a focal point of research in plant development. This process relies on somatic cell totipotency (i.e., the capacity to regenerate the entire plant from single somatic cells), and it has been long used in biotechnological breeding techniques as an efficient system for regenerating plants in a large-scale basis.

Histology and Histochemistry of Somatic Embryogenesis ...

Abstract. Somatic embryos have been induced from pea (*Pisum sativum* L.) shoot apices and cotyledons of immature embryos. The former explants allowed a better embryo development than the latter. Histological studies showed that in both cases, somatic embryos have a multicellular origin.

Histology of somatic embryogenesis in pea - ScienceDirect

Abstract. The origin of somatic embryos derived from rhizome explants of triploid *Musa* cv. Grand Nain was the subject of histological studies during different phases of ontogenetic development. The investigation revealed that the majority of somatic embryos showed normal root formation and consisted of highly vacuolated cells in the poorly structured shoot apex.

Histology of somatic embryo initiation and organogenesis ...

Histological studies of explants at various developmental stages of somatic embryogenesis and organogenesis revealed that both somatic embryos and organogenic buds developed directly from the mesophyll layers of MZELs, and both were of multicellular origin.

Histological analysis of somatic embryogenesis and ...

Abstract: Rice (*Oryza sativa* cv. 5272) embryogenic calli were obtained from mature zygotic embryos culture on Murashige & Skoog (1962) medium supplemented with 2.5 mg/l 2,4-

dichlorophenoxyacetic acid. 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 cells in the peripheral region of the calli.

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

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.

Efficient and reproducible somatic embryogenesis and ...

Somatic embryogenesis is an artificial process in which a plant or embryo is derived from a single somatic cell. Somatic embryos are formed from plant cells that are not normally involved in the development of embryos, i.e. ordinary plant tissue. No endosperm or seed coat is formed around a somatic embryo. Cells derived from competent source tissue are cultured to form an undifferentiated mass of cells called a callus. Plant growth regulators in the tissue culture medium can be manipulated to in

Somatic embryogenesis - Wikipedia

Histology of somatic embryo initiation and development in chickpea (*Cicer arietinum* L.) Plant Science, 1995. Abhay Sagare

(PDF) Histology of somatic embryo initiation and ...

The morpho-histological changes during the four stages of embryogenic differentiation provide insights into the mechanism of somatic embryogenesis in *Typha* and other unconventional aquatic monocotyledons, for which limited information has thus far been available.

Morpho-histological development of the somatic embryos of ...

Anisha Akula, Chakradhar Akula, Protocols for Somatic Embryogenesis and Plantlet Formation from Three Explants in Tea (*Camellia sinensis* (L.) o. kuntze), Protocol for Somatic Embryogenesis in Woody Plants, 10.1007/1-4020-2985-3, (181-190), (2005).

Somatic embryogenesis in pea (*Pisum sativum* L.): effect of ...

An efficient somatic embryogenesis system has been established in six date palm (*Phoenix dactylifera* L.) cultivars (Barhee, Zardai, Khalasah, Muzati, Shishi and Zart). Somatic embryogenesis (SE) was growth regulators and cultivars dependent.

Somatic embryogenesis, scanning electron microscopy ...

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Histology Of Somatic Embryogenesis From Floral Tissues Cocoa

A multicellular origin of the resulting somatic embryos arising from the meristematic zone is suggested. During maturation, histological analyses revealed bipolarization of the somatic embryos, as well as the development of new somatic embryos. AFLP analyses revealed that 92 % of the regenerated plantlets were true to type.

Somatic Embryogenesis in Peach Palm Using the Thin Cell ...

To improve somatic embryogenesis in *Hevea brasiliensis*, the water and plant growth regulator status of the culture medium was studied. Induction of embryogenic tissue from the internal integument of immature seeds was clearly favored by stabilizing the water potential of the culture medium at -0.7 MPa, by using low and decreasing concentrations of 3,4 dichlorophenoxyacetic acid and ...

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