

Somatic Embryogenesis and Genetic Transformation in Sugarcane

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Reviews

This is the finest book i have got go through right up until now. I have got read and i also am confident that i am going to planning to read once again yet again in the future. You will not truly feel monotony at at any time of the time (that's what catalogs are for about if you check with me).

(Taylor Medhurst)

SOMATIC EMBRYOGENESIS AND GENETIC TRANSFORMATION IN SUGARCANE



LAP Lambert Academic Publishing Jun 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x10 mm. This item is printed on demand - Print on Demand Neuware - An efficient protocol for somatic embryogenesis and subsequent plant regeneration was developed for sugarcane variety Isd-16 using leaf sheath explants of 3, 6 and 12-months-old field grown plants. Explants from 6-month-old plant showed the best response and produced highest percentage of calli on MS + 3.0 mg/l 2,4-D. L-proline 25mg/l significantly enhanced somatic embryogenesis. The embryos germinated well on half-strength MS and developed into plantlets. Somatic embryo derived plants under field condition showed considerable variation in morphological, agronomical and biochemical characters. For genetic transformation the calli were co-cultivated with A. tumefaciens strain LBA4404 harboring a binary plasmid pCAMBIA1303 containing hpt (hygromycin phosphotransferase) gene as a selectable marker and a - glucuronidase (gus) reporter gene in the T-DNA region. The transient expression of gus in hygromycin resistant calli and regenerated plants was confirmed by GUS flurometric assay. PCR analysis of genomic DNA from regenerated plants revealed that the hpt gene was integrated in the transgenic plants. 164 pp. Englisch.

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