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page - 2

PLANT REGENERATION FROM
SUGARCANE EMBRYOGENIC CALLI
CRYOPRESERVED IN LIQUID
NITROGEN

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Research for setting up a technique for the cryopreservation of sugarcane embryogenic calli started in 1990 at IRAT/CIRAD (Institut de Recherches Agronomiques Tropicales et des cultures

vivrières / Centre de Coopération Internationale en Recherche Agronomique pour le Développement, Montpellier) in cooperation with ORSTOM (French Scientific Research Institute for Development through Cooperation, Montpellier). The first part of the experiments consisted in testing various parameters using a single variety; its results are reported here.

The variety used was Co6415. Embryogenic calli of this variety were obtained from the rolled young leaves of in vitro grown plantlets as described by GUIDERDONI and DEMARLY (1988, Plant Cell, Tissue and Organ Culture, 14: 71-88). The explants were cultured on a MS solid callus induction medium