TECHNIQUE OF INDUCTION OF POLYPLOIDY IN RUBBER TREE1

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The higher efficiency of the new method of inducing polyp loidy developped at the CNPSD enabled in the last 2 vears the obtainance of 46 polyploid clones out of 38 diploid clones while only 6 polyploids out of 4 diploids were obtained in a previous period of 3 years. In the present method the apical bud is severed and plant regulators applied to induce a faster sprouting of more axillary buds. Colchicine is applied in the cut petiole when the buds swollen, by injecting with a micropipette 7.5 microlitters per peliole of a solution of colchicine 0.25% and sulfoxide 0.5% in the pith of the petiole. Confirming forecast based on the organogenesis in the apical bud. forcing bud break below the leaves with symptoms of polyp loidy also contributed to enhance the efficiency of the method. The screening of polyploid clones is based on the frequency distribution of stomata per size classes. 1eaf and bark thickness and the caliber of sieve tubes. Due to limitations in technique chromossome conunting hasn't vielded vet reliable data.

A paper carried out with financial resources provided through a SUDHEVEA/EMBRAPA agreement.

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