

Mikropropagasi Melalui Kultur Meristem dan Embriogenesis Somatis Pada Tanaman Eboni Diospyros Celebica BAKH

Yusniar Yusuf, author

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Abstrak

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Dalam rangka usaha mendapatkan bibit tanaman eboni Diospyros Celebica secara besar-besaran, dilakukan percobaan tentang mikropropagasi secara teknik kultur jaringan melalui kultur meristem serta embriogenesis somatis. Meristem yang dikultur diambil dari tunas apikal dan tunas aksilar kecambah eboni umur 3 bulan. Kalus terbentuk pada medium MS dengan penambahan (2-4) ppm 2,4D + 2 ppm kinetin dan (2-4) ppm NAA + 2 ppm kinetin. Kultur suspensi embriogenesis somatik sampai usia 3 bulan masih berbentuk embryoid yang kelak akan membentuk tunas muda pada medium yang cocok. Induksi kalus untuk morfogenesis atau plantlet sampai umur 3 bulan belum berbentuk, hanya terdapat propagul-propagul pada permukaan kalus. Kultur meristem tunas apikal tumbuh baik pada medium MS + 2 ppm NAA + 8 ppm kinetin sedangkan untuk tunas aksilar pada medium MS -r- 4 ppm NAA + 8 ppm kinetin.

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ABSTRACT

Mikropropagation Through Meristem Culture And Somatic Embryogenesis Of Ebony Diospyros Celebica BAKH In the framework of research to get seedlings of ebony, Diospyros celebica in a large scale, a micropropagation experiment was carried on according to the tissue culture methodes through meristem culture and somatic embryogenesis. Meristem to be cut--ured were taken from the apical and axillary buds from 3 months seedlings of ebony. Calus was formed on MS medium enriched with (2-4) ppm 2,4D + 2 ppm kinetin and (2-4) ppm NAA + 2 ppm kinetin. Suspension culture of somatic embryogenesis still in embryoid from up to 3 months which later will turn to young shoots if it were grown in the appropriate medium. Callus induction for more phogenesis and plantlets gave no result up to 3 months, there were propagules only on the callus surface. Meristem culture of apical buds grew well in MS medium enriched with 2 ppm NAA + 8 ppm kinetin while meristem culture of axillary buds in MS medium enriched with 4 ppm NAA + 8 ppm kinetin.