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Research Abstract

Micropropagation Of *Acourtia cordata* (Cerv.) Turner (Compositae), Native Species Of The Natural Protected Area “Sierra De Guadalupe”

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Abstract: Plants of the genus *Acourtia* are known and used in Mexico since pre-Columbian times by the properties of the dye that accumulates in roots; nevertheless, at the moment the natural populations of these plants tend to be small and the areas in which they grow present a considerable deterioration, such is the case of the protected natural area "Sierra de Guadalupe". The aim of this work was to establish protocols for micropropagation of *A. cordata* plants through culture of axillary buds, apical and shoot induction by indirect organogenesis in medium of Murashige and Skoog with 5 mg/L of IAA and 0.5 mg/L BAP, followed the rooting in presence of IBA. A propagation factor of 22 ± 2 plants per germinated seed was obtained in 6.5 months. The results of this work support the importance that the culture systems have in vitro like a biotechnological alternative to spread, restore and preserve the valuable germplasm of a region, as well as for the study of biosynthesis and production of metabolites plant with a high potential medical and industrial as it is the case of the perezona.

Keywords: Sierra de Guadalupe, micropropagation, *Acourtia cordata*, perezona

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