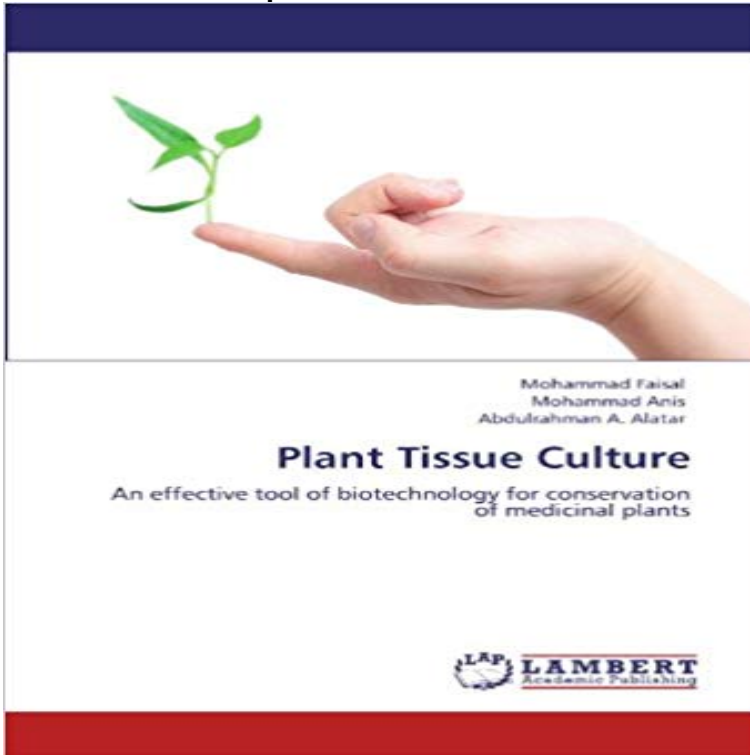


Plant Tissue Culture: An effective tool of biotechnology for conservation of medicinal plants



Medicinal plants have acquired increasing significance in development co-operation over the last few years. Their use and propagation are cross-sectoral concerns that embrace not only health-care but also nature conservation, biodiversity, economic assistance, trade and legal aspects (e.g. intellectual property). The present book presents biotechnological approaches for the in vitro conservation and mass propagation of two important medicinal plants viz; *Tylophora indica* and *Rauwolfia tetraphylla*. Both the plants are rapidly disappearing due to its extensive indiscriminate collection from wild, poor seed germination and lack of adequate commercial plantation. Regeneration and establishment of plantlets through various plant tissue culture techniques has been discussed in this book. The application of these protocols can help to minimize the pressure on wild populations and contribute to the conservation of these valuable medicinal plants. Regeneration of plants from alginate encapsulated shoot buds could be used as nodal delivery system for germplasm storage and exchange. Physiological and biochemical changes during ex vitro establishment micropropagated plants has been discussed.

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Frankham R (1995) Effective population size/adult population size ratios in *JV* (1992) Ex situ conservation by use of tissue culture, *Opera Bot* 113: 49. **Biotechnology For Medicinal Plants - Semanariouno** Tissue culture is the culture and maintenance of plant cells or organs in of the effective tools for regeneration and conservation of endangered plants (Bapat et al. well as counter the reduction of production on medicinal plants (Bapat et al. **Plant Tissue Culture: An effective tool of biotechnology - AbeBooks** Hemant Lata and Ajit Varma Eds. 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challenges and Plant Tissue Culture: An effective tool of biotechnology for conservation of medicinal plants. LAMBERT Academic Publishing GmbH & Co. KG, Germany. **9783848413393 - Plant Tissue Culture: an Effective Tool of** biotechnological tool for solving the problem of propagation of multipurpose endangered Key words: Endangered, in vitro, Medicinal plants, Plant tissue culture, Protocols. . Micropropagation techniques are must for conservation of an endangered . plant, is found effective at extremely low concentrations against blood. **Plant Biotechnology: Principles and Applications - Google Books Result** opportunity for conservation of endangered medicinal plants. In-vitro metabolites in plant cell suspension cultures has been reported from various medicinal plants. Genetic transformation may be a powerful tool for enhancing the application of tissue culture and genetic . storage has been reported to be effective for.