

Protocol for Somatic Embryogenesis in Woody Plants

S. Mohan Jain and Pramod K. Gupta
editors



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Shri Mohan Jain, Pramod K. Gupta



Protocol For Somatic Embryogenesis In Woody Plants:

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Somatic Embryogenesis in Woody Plants S.M. Jain, P.K. Gupta, R.J. Newton, 2013-11-11 The quality of human life has been maintained and enhanced for generations by the use of trees and their products In recent years ever rising human population growth has put a tremendous pressure on trees and tree products growing awareness of the potential of previously unexploited tree resources and environmental pollution have both accelerated the development of new technologies for tree propagation breeding and improvement Biotechnology of trees may be the answer to solve the problems which can not be solved by conventional breeding methods The combination of biotechnology and conventional methods such as plant propagation and breeding may be a novel approach to improving and multiplying a large number of the trees and woody plants So far plant tissue culture technology has largely been exploited by commercial companies in propagation of ornamentals especially foliage house plants Gene rally tissue culture of woody plants has been recalcitrant However limited success has been achieved in tissue culture of angiosperm and gymnosperm woody plants A number of recent reports on somatic embryogenesis in woody plants such as Norway spruce *Picea abies* Loblolly pine *Pinus taeda* Sandalwood *Santalum album* Citrus mango *Mangifera indica* etc offer a ray of hope of an inexpensive clonal propagation for large scale production of plants or emblings or somatic seedlings b protoplast work c cryopreservation d genetic transformation and e synthetic or artificial or manufactured seed production

Step Wise Protocols for Somatic Embryogenesis of Important Woody Plants Shri Mohan Jain, Pramod Gupta, 2018-05-30 World population is increasing at an alarming rate and this has resulted in increasing tremendously the demand for tree products such as wood for

construction materials fuel and paper fruits oils and medicines etc This has put immense pressure on the world's supplies of trees and raw material to industry and will continue to do so as long as human population continues to grow Also the quality of human diet especially nutritional components is adversely affected due to limited genetic improvement of most of fruit trees Thus there is an immediate need to increase productivity of trees Improvement has been made through conventional breeding methods however conventional breeding is very slow due to long life cycle of trees A basic strategy in tree improvement is to capture genetic gain through clonal propagation Clonal propagation via organogenesis is being used for the production of selected elite individual trees However the methods are labour intensive costly and produce low volumes Genetic gain can now be captured through somatic embryogenesis Formation of embryos from somatic cells by a process resembling zygotic embryogenesis is one of the most important features of plants In 1958 Reinert in Germany and Steward in USA independently reported somatic embryogenesis in carrot cultures Since then tremendous progress in somatic embryogenesis of woody and non woody plants has taken place It offers a potentially large scale propagation system for superior clones

Somatic embryogenesis: 60 years of research applied to plant cloning to unravel plant totipotency, volume II Jorge M. Canhoto, Paloma Moncaleán, Sandra Isabel Correia, 2023-06-05

Somatic Embryogenesis:

Fundamental Aspects and Applications Víctor M Loyola-Vargas, Neftalí Ochoa-Alejo, 2016-06-06 This book discusses basic and applied aspects of somatic embryogenesis one of the most powerful tools in plant biotechnology It is divided into three parts Part I includes topics such as the history of this research field how differentiated plant cells can re acquire totipotency molecular features as well as the epigenetics and proteomics of somatic embryogenesis Part II covers the somatic embryogenesis of different crops such as Agave spp maize Cocos nucifera Bixa orellana Capsicum spp Coffea spp Musa spp Pinus spp and Arabidopsis thaliana Various applications like scale up propagation and genetic engineering are discussed in detail in Part III The book will appeal to plant scientists plant breeders and experts working in industry

Embryogenesis Ken-Ichi Sato, 2012-04-20 The book Embryogenesis is a compilation of cutting edge views of current trends in modern developmental biology focusing on gametogenesis fertilization early and or late embryogenesis in animals plants and some other small organisms Each of 27 chapters contributed from the authorships of world wide 20 countries provides an introduction as well as an in depth review to classical as well as contemporary problems that challenge to understand how living organisms are born grow and reproduce at the levels from molecule and cell to individual

Breeding and Biotechnology of Tea and its Wild Species Tapan Kumar Mondal, 2014-02-10 Tea is an important non alcoholic beverage plant of the world Cultivation of tea is very important as it earns revenue for the tea growing nations especially the developing countries such as India Although conventional breeding is well established and has contributed significantly for varietal improvement of this plant and other Camellia species with ornamental value yet applications of biotechnology are required to intervene some of the issues where conventional breeding is restricted particularly for woody plants such as tea It is note

worthy to mention that some amounts of biotechnology works in several facets of tea and its wild species have also been done In the present book a state of the art on various aspects of breeding and biotechnology has been complied in eight chapters They are i Origin and descriptions of health benefits as well as morphological classification as first chapter ii Breeding and cytogenetics that comprise with various conventional approaches of varietal improvement of tea along with their genetic resources iii Micropropagation which deals with in depth study of clonal propagation iv Somatic embryogenesis along with alternative techniques such as suspension culture cry preservation etc v Molecular breeding that deals with application of various DNA based markers linkage map etc vi Genetic transformation and associated factors vii Stress physiology complied with various works done in tea along with its wild relatives on abiotic as well as biotic stress and viii Functional genomics that describe the various works of molecular cloning and characterizations differential gene expression high throughput sequencing bioinformatics etc Importantly the author has made exclusive tables in most of the chapters that include the summary of the works in particular topic In a nutshell the book compiles the work already been done identifies the problems analyzes the gaps on breeding and biotechnological works of tea as well as its wild species and discusses the future scope as conclusion Every effort has been made to include all the published works till June 2013 The book will be a useful resource for post graduate doctoral as well post doctoral students working on tea as well as other woody plants This will also be useful for the scientists working in the areas of life sciences genomics biotechnology and molecular biology

The Genus Citrus Manuel Talon,Marco Caruso,Fred G. Gmitter jr.,2020-01-21 The Genus Citrus presents the enormous amount of new knowledge that has been generated in recent years on nearly all topics related to citrus Beginning with an overview of the fundamental principles and understanding of citrus biology and behavior the book provides a comprehensive view from Citrus evolution to current market importance Reporting on new insights supported by the elucidation of the citrus genome sequence it presents groundbreaking theories and fills in previous knowledge gaps Because citrus is among the most difficult plants to improve through traditional breeding citrus researchers institutions and industries must quickly learn to adapt to new developments knowledge and technologies to address the biological constraints of a unique fruit tree such as citrus Despite the challenges of working with citrus tremendous progress has been made mostly through advances in molecular biology and genomics This book is valuable for all those involved with researching and advancing producing processing and delivering citrus products

Tropical Plant Species and Technological Interventions for Improvement Muhammad Sarwar Khan,2023-01-25 This book provides a precise and meticulous overview of the production technologies involved in the cultivation of tropical plants Technological advances have transformed the cultivation of fruit and ornamental plants from agronomic to value added plants The book highlights the essentials for developing tropical plants with increased nutritive nutraceutical and aesthetic value

Plant Tissue Culture Zahid Hameed Siddiqui,Khalid Rehman Hakeem,2025-09-23 Plants are sessile and constantly exposed to changing environmental conditions Seasonal cues govern plant growth development

and reproduction In this era of climate change the environment is unstable and takes a toll on the productivity of plants This new book explores this unique area of plant tissue culture in relation to climate change showing how tissue culture techniques can be utilized to create tolerance to disease and stress increase growth and raise yield in plants This book discusses the use of plant tissue culture for producing superior material for planting and creating new elite varieties of different kinds of crops in response to changing climatic conditions It draws attention to the issues and dangers posed by climate change for plants and offers guidance for sustainable development utilizing tissue culture technology In addition it focuses on some fundamental ideas of plant tissue culture presents studies that address climate change and offers sustainable development alternatives The book looks at important topics such as the benefits of synthetic seed technology the impact of phytohormones and growth regulators on plant tissue culture the impact of supplementing culture medium with organic substances various plant tissue culture techniques and more This book will prove beneficial for plant biotechnologists environmentalists ecologists and scientists in enhancing their understanding of the complexities of climate change under in vitro conditions

Decoding **Protocol For Somatic Embryogenesis In Woody Plants**: Revealing the Captivating Potential of Verbal Expression

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