

SOMATIC EMBRYOGENESIS FOR MICROPROPAGATION OF COCONUT (*Cocos nucifera* L.)



QUARANTINE

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Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L

Professor Dr. Y. P. S. Bajaj



Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L:

Coconut Biotechnology: Towards the Sustainability of the 'Tree of Life' Steve Adkins, Mike Foale, Roland Bourdeix, Quang Nguyen, Julianne Biddle, 2020-06-24 Widely known as the tree of life coconut *Cocos nucifera* L provides a bountiful source for making a wide variety of healthy foods and industrial items Its cultivation however has been encountering seriously destructive issues including lethal diseases and natural adversities which are currently distressing livelihoods of millions of small holder farmers around the world There is an urgent mandate to resolve these issues by meeting sustainable seedling production facilitating genetic conservation as well as developing disease identification and modern breeding This book introduces improvements in coconut biotechnology by covering the advances in micropropagation germplasm conservation and molecular pathogenic diagnosis This comprehensive volume will be a useful source of information and references to researchers graduate students agricultural developers and scholars in the plant sciences In order to benefit general readers the book also covers fundamental aspects of biology diversity and evolution of this marvelous palm species

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

Biotechnology of Fruit and Nut Crops, 2nd Edition Richard E. Litz, Fernando Pliego-Alfaro, Jose Ignacio Hormaza, 2020-01-29 This book covers the biotechnology of all the major fruit and nut species Since the very successful first edition of this book in 2004 there has been rapid progress for many fruit and nut species in cell culture genomics and genetic transformation especially for citrus and papaya This book covers both these cutting edge technologies and regeneration pathways protoplast culture in vitro mutagenesis ploidy manipulation techniques that have been applied to a wider range of species Three crop species *Diospyros kaki* persimmon *Punica granatum*

pomegranate and Eriobotrya japonica loquat are included for the first time The chapters are organized by plant family to make it easier to make comparisons and exploitation of work with related species Each chapter discusses the plant family and the related wild species for 38 crop species and has colour illustrations It is essential for scientists and post graduate students who are engaged in the improvement of fruit nut and plantation crops Current Advances in Coconut Biotechnology C. Oropeza,J.L. Verdeil,G.R. Ashburner,R. Cardeña,J.M. Santamaría,2013-04-17 The coconut palm occupies a significant place in the world economy as an important subsistence crop in all the areas in which it is grown Relatively few countries are able to export any quantity of coconut products because of increasing home demands coupled with low productivity Yields are generally well below potential despite recent developments with improved planting stock and agronomic practices In the last 50 years both these aspects have received considerable attention but the focus is shifting to investigate how the use of recently developed biotechnological techniques can benefit the coconut industry This volume the result of the International Symposium on Coconut Biotechnology held in December 1997 in Merida Yucatan Mexico describes recent research in three important areas Standard plant breeding techniques used with coconut have produced improved planting material but progress is inevitably very slow Can more rapid genetic improvement be obtained using molecular techniques The papers presented in this section suggest that such techniques will open up exciting new prospects but only after basic information has been gathered on the genetic status of existing coconut stocks Research using microsatellite techniques seems to provide a useful tool to help to classifying these stocks However only a combination of classical breeding methods with modern techniques will lead to the rapid improvement which is required to supply material for urgent replanting programs Somatic Embryogenesis and Synthetic Seed I Professor Dr. Y. P. S. Bajaj,2013-03-14 While working in the laboratory of Professor Dr Jacob Reinert at the Freie Universitat Berlin 1974 1976 I had the opportunity to become deeply involved in studying the intricacies of the fascinating phenomenon of somatic embryogenesis in plant cells and protoplasts In numerous stimulating discussions with Professor Reinert on this subject I was fully convinced that somatic embryogenesis would become one of the most important areas of study not only regarding basic and fundamental aspects but also for its application in crop improvement During the last decade we have witnessed tremendous interest and achievements in the use of somatic embryos for the production of synthetic seeds for micro propagation genetic transformation cryopreservation and conservation of germplasm The en masse production of somatic embryos in the bioreactors has facilitated some of these studies Somatic embryos have now been induced in more than 300 plant species belonging to a wide range of families It was therefore felt that a compilation of literature state of the art on this subject was necessary Thus two volumes on Somatic Embryo genesis and Synthetic Seed have been compiled which contain 65 chapters contributed by International experts Somatic Embryogenesis and Synthetic Seed I comprises 31 chapters arranged in 3 sections Section I Commitment of the cell to somatic embryogenesis early events anatomy molecular basis gene expression role of polyamines

machine vision analysis of somatic embryos Section II Applications of somatic embryos technology of synthetic seed fluid drilling micropropagation genetic transfor mation through somatic embryos cryopreservation **Coconut Genetic**

Resources Pons Batugal,2005 **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 **Micropropagation of Woody Plants** M.R. Ahuja,2013-06-29 This volume covers recent advances in the vegetative propagation of woody plants by tissue culture A wide range of topics relevant to micropropagation of woody plants are discussed by renowned international scientists These include cellular contro of morphogenesis light regimes in tissue culture maturation and rejuvenation synthetic seed genetics of micropropagated plants haploid embryogenesis protoplast culture and acclimatization of ex vitro woody plants In addition to micropropagation of selected woody plants both gymnosperms and angiosperms this volume also includes in vitro genetic selection strategic planning for application of biotechnology for genetics and breeding and clonal options for woody plant improvement A balanced view of both perspectives and limitations of woody plant micropropagation is presented *The Coconut* Steve Adkins,Julianne Biddle,Amirhossein Bazrafshan,Sundaravelpandian Kalaipandian,2024-01-25 The coconut palm Cocos

nucifera L is one of the world s most important palms and contributes significantly to the income and livelihood of many people in tropical countries Widely referred to as the tree of life coconut has been used as a source of food drink oil medicine shelter and wood for around 500 years Every part of the coconut palm can be utilized The demand for coconut fruit and its products has increased recently as people have become aware of its nutritional and health benefits especially those of coconut water and virgin coconut oil This book is a key resource for researchers and students in horticulture plant science and agriculture and those interested in the production of tropical crops and practitioners in the coconut industry *Somatic Embryogenesis in Woody Plants* S. Mohan Jain,Pramod P.K. Gupta,R.J. Newton,2012-12-06 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 tremendous pressure on trees and tree products growing awareness of the potential of previously unexploited tree resources and environmental pollution have both accelerated development of new technologies for tree propagation breeding and improvement Biotechnology of trees may be the answer to solve the problems which cannot 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 in large number the trees and woody plants So far plant tissue culture technology has largely been exploited in the propagation of ornamental plants especially foliage house plants by commercial companies Generally 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 seedlings or somatic embryo plants by protoplast work cryopreservation genetic transformation and artificial or manufactured seed production

Horticultural Reviews, Volume 48 Ian Warrington, 2021-04-16 Horticultural Reviews presents state of the art reviews on topics in horticultural science and technology covering both basic and applied research Topics covered include the horticulture of fruits vegetables nut crops and ornamentals These review articles written by world authorities bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers

Date Palm Biotechnology Shri Mohan Jain, Jameel M. Al-Khayri, Dennis V. Johnson, 2011-08-13 This important reference book is the first comprehensive resource worldwide that reflects research achievements in date palm biotechnology documenting research events during the last four decades current status and future outlook This book is essential for researchers policy makers and commercial entrepreneurs concerned with date palm The book is invaluable for date palm biotechnology students and specialists This monument is written by an international team of experienced researchers from both academia and industry It consists of five sections covering all aspects of date palm biotechnology including A Micropropagation B Somaclonal Variation Mutation and Selection C Germplasm Biodiversity and Conservation D Genetics and Genetic Improvement and E Metabolites and Industrial Biotechnology The book brings together the principles and practices of contemporary date palm biotechnology Each chapter contains background knowledge related to the topic followed by a comprehensive literature review of research methodology and results including the authors own experience including illustrative tables and photographs

Micropropagation P. Debergh, Richard H. Zimmerman, 2012-12-06 Micropropagation is a technology that has developed within the past 30 years Earlier overviews of plant tissue culture have reviewed micropropagation as just one of many tissue culture procedures in use Since the applications of this technology have multiplied so rapidly in recent years we decided that a specific overview of the technology was now appropriate Our book begins with a review of the general principles of tissue culture as applied to micropropagation This review is concise since the general topic has been covered in numerous other books and reviews The basic principles of laboratory design and construction are summarized in the second chapter Common problems encountered in micropropagation both during and after culture are examined in detail in four chapters As micropropagation developed from a laboratory curiosity to a commercial industry different considerations became important These are discussed in two chapters An attempt has been

made to assess the current status of commercial production around the world This has been difficult because commercial production figures are often closely guarded and little has been done to collect statistics on this growing industry

Applications to a broad range of crops are discussed in a series of chapters These try to report the state of the art in each area but since applications for some crops are much more advanced than for others the focus of these chapters varies depending upon the progress that has been made

Plant Tissue Culture: Propagation, Conservation and Crop Improvement Mohammad Anis,Naseem Ahmad,2016-10-08 This book presents basic concepts methodologies and applications of biotechnology for the conservation and propagation of aromatic medicinal and other economic plants It caters to the needs and challenges of researchers in plant biology biotechnology the medical sciences pharmaceutical biotechnology and pharmacology areas by providing an accessible and cost effective practical approach to micro propagation and conservation strategies for plant species It also includes illustrations describing a complete documentation of the results and research into particular plant species conducted by the authors over the past 5 years Plant Biotechnology has been a subject of academic interest for a considerable time In recent years it has also become a useful tool in agriculture and medicine as well as a popular area of biological research Current economic growth is globally projected in a highly positive manner but the challenges many countries face with regard to food feed malnutrition infectious diseases the newly identified life style diseases and energy shortages all of which are worsened by an ever deteriorating environment continue to pull the growth digits back The common thread that connects all of the above challenges is biotechnology which could provide many answers Molecular biology and biotechnology have now become an integral part of tissue culture research The tremendous impact generated by genetic engineering and consequently of transgenics now allows us to manipulate plant genomes at will There has indeed been a rapid development in this area with major successes in both developed and developing countries The book introduces several new and exciting areas to researchers who are unfamiliar with plant biotechnology and also serves as a review of ongoing research and future directions for scholars The book highlights numerous methods for in vitro propagation and utilization of techniques in raising transgenics to help readers reproduce the experiments discussed

Somatic Embryogenesis in Ornamentals and Its Applications Abdul Mujib,2015-12-22 Somatic embryogenesis SE is a unique process by means of which a vegetative somatic plant cell transforms into an embryo This in vitro embryogeny has immense fundamental and practical applications The SE process is complex and is controlled by a variety of external and internal triggers This book compiles the latest advances in embryogenesis research on ornamentals and discusses the importance of embryogenic cultures tissues in raising transgenic crops The technique of cryopreservation in the protection of ornamental genetic resources is discussed using embryogenic culture embryo as the tissue of choice and the respective roles of the genotype plant growth regulator environment and other regulating factors in embryogenesis are discussed The book also focuses on comparative biochemical and physiological differences during the acquisition and development of embryos The

importance of plant proteome and functional genomics as a source of markers is highlighted and special attention is paid to genes gene homologues SERC in characterizing embryogenesis Lastly the book examines the involvement of auxin polar transport and other molecular networks regulating gene expression **Advances in Plant Tissue Culture** Avinash Chandra Rai,Ajay Kumar,Arpan Modi,Major Singh,2022-05-28 *Advances in Plant Tissue Culture Current Developments and Future Trends* provides a complete and up to date text on all basic and applied aspects of plant tissue cultures and their latest application implications It will be beneficial for students and early career researchers of plant sciences and plant agricultural biotechnology Plant tissue culture has emerged as a sustainable way to meet the requirements of fresh produces horticultural crops medicinal or ornamental plants Nowadays plant tissue culture is an emerging field applied in various aspects including sustainable agriculture plant breeding horticulture and forestry This book covers the latest technology broadly applied for crop improvement clonal propagation Somatic hybridization Embryo rescue Germplasm conservation genetic conservation or for the preservation of endangered species However these technologies also play a vital role in breaking seed dormancy over conventional methods of conservation Focuses on plant tissue culture as an emerging field applied in various aspects including sustainable agriculture plant breeding horticulture and forestry Includes current studies and innovations in biotechnology Covers commercialization and current perspectives in the field of plant tissue culture techniques [Protocol for Somatic Embryogenesis in Woody Plants](#) Shri Mohan Jain,Pramod K. Gupta,2005-05-23 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 *Issues in Life Sciences: Botany and Plant Biology Research: 2011 Edition* ,2012-01-09 *Issues in Life Sciences Botany and Plant Biology Research 2011 Edition* is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Life Sciences Botany and Plant Biology Research The

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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 a 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 Plant Conservation Biotechnology Dr Erica Benson, Erica Benson,2002-04-12 Introduces biotechnological techniques which are currently used to conserve horticultural and crop plant germplasm forest tree genetic resources endangered plant species and plant cell culture collections Covers techniques and applications

The book delves into Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L. Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L
 - Chapter 3: Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L in Everyday Life
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 - Chapter 5: Conclusion
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 6. In chapter 5, this book will draw a conclusion about Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L.

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