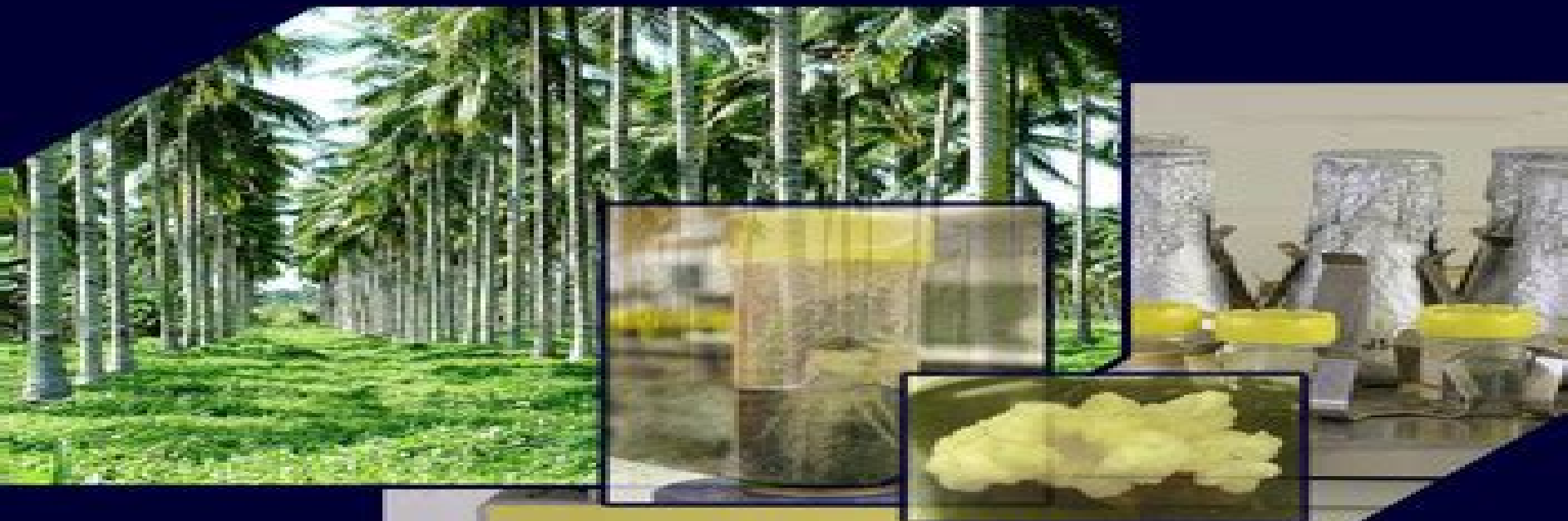


SOMATIC EMBRYOGENESIS FOR MICROPROPAGATION OF COCONUT (*Cocos nucifera* L.)



QUARANTINE

I.D. Anton, PhD

Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L

**Víctor M Loyola-Vargas, Neftalí Ochoa-
Alejo**



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 Current Advances in Coconut Biotechnology C. Oropeza, J.L. Verdeil, G.R. Ashburner, R. Cardena, 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 transformation through somatic embryos cryopreservation

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

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 control 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

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

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 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 a inexpensive clonal propagation for large scale production of plants or embryos or somatic seedlings b protoplast work c cryopreservation d genetic transformation and e synthetic or artificial or manufactured seed production

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 embryos or somatic embryo plants b protoplast work c cryopreservation d genetic transformation and e artificial or manufactured seed production

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

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

Applications of Biotechnology in Forestry and Horticulture V. Dhawan, 2012-12-06 Major and exciting changes have taken place recently in various aspects of biotechnology and its applications to forestry Even more exciting is the prospect of major innovations that the entire field of biotechnology holds for plant growth in general The importance of these developments for the forestry sector is considerable particularly since forestry science has not received the kinds of technical and R D inputs that say agriculture has received in the past few decades Yet the problems of deforestation as well as stagnation in yields and productivity of existing forests throughout the world are becoming increasingly apparent with consequences and ecological effects that cause growing worldwide concern Policies for application of existing knowledge in biotechnology to the field of forestry and priorities for future research and development are therefore of considerable value because it is only through the adoption of the right priorities and enlightened policies that scientific developments will move along the right direction leading to improvements

in forestry practices through out the world It was against this backdrop that the Tata Energy Research Institute TERI organised a major international workshop on the Applications of Biotechnology in Forestry and Horticulture at New Delhi in January 1988 The present volume covers the proceedings of this international workshop *Plant Sciences Reviews 2011* David Hemming, 2012 *Plant Sciences Reviews 2011* provides scientists and students in the field with timely analysis on key topics in current research Originally published online in CAB Reviews this volume makes available in printed form the reviews in plant sciences published during 2011 **Plant Cell and Tissue Culture** Indra K. Vasil, Trevor A.

Thorpe, 1994-06-30 *Plant Cell and Tissue Culture* gives an exhaustive account of plant cell culture and genetic transformation including detailed chapters on all major field and plantation crops Part A presents a comprehensive coverage of all necessary laboratory techniques for the initiation nutrition maintenance and storage of plant cell and tissue cultures including discussions on these topics as well as on morphogenesis and regeneration meristem and shoot tip culture plant protoplasts mutant cell lines variation in tissue cultures isogenic lines fertilization control cryopreservation transformation and the production of secondary metabolites Part B then proceeds into detail on the specific in vitro culture of specific crops including cereals legumes vegetables potatoes other roots and tubers oilseeds temperate fruits tropical fruits plantation crops forest trees and ornamentals *Plant Cell and Tissue Culture* is and is likely to remain the laboratory manual of choice as well as a source of inspiration and a guide to all workers in the field **In Vitro Embryogenesis in Plants** Trevor A.

Thorpe, 2012-12-06 *In vitro Embryogenesis in Plants* is the first book devoted exclusively to this topic As the ultimate demonstration of totipotency in plants somatic and haploid embryogenesis is of vital importance to all those working on or interested in basic and applied aspects of plantlet information and regeneration The text includes comprehensive reviews written by experts on all facts of in vitro and in vivo embryogenesis Some chapters deal with the morphogenic structural and developmental physiological and biochemical and molecular biological aspects of the subject Chapters are also devoted to haploid embryogenesis asexual embryogenesis in nature zygotic embryogenesis and zygotic embryo culture Detailed tables summarizing successful somatic embryogenesis in all vascular plants are also included This book therefore brings together previously scattered information to provide an indispensable reference book for both active researchers graduate students and anyone interested in this aspect of tissue culture technology and plant development **Micropropagation of Woody**

Trees and Fruits S.M. Jain, K. Ishii, 2012-12-06 Global warming environmental changes water shortage and sustainable development are the most up to date issues which have challenged mankind Researchers worldwide are engaged in addressing some of these problems including reduction in carbon dioxide accumulation and enrichment of perennial woody species on the terrestrial ecosystem About 12 million hectares of the world's forests disappear every year By 2025 the world population will reach 7.5 billion and the forest area will be reduced to well below 50 % of the current area Reforestation is an important to prevent the loss of forest resources including timber biodiversity and water resources Therefore subsequent

volume of reforestation over the deforested land should be followed to safeguard the forests and maintain its size which will require a continuous supply of planting material Similarly fruit trees including tropical and subtropical fruit trees are consumed both as fresh and in the processed form including juices beverages and dried fruits They are an important source of nutrition e g rich in vitamins sugars aromas and flavour compounds and raw material for food processing industries The production cultivation and maintenance of tree species provide highly sustainable production systems that conserve soils microenvironment and biodiversity Fruit trees have longjuvenile periods and large tree size In many fruit trees e g avocado and others controlled crosses are difficult to make due to massive fruit drop

Horticultural Reviews, Volume 48 Ian Warrington,2021-04-20 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

Trees I Y. P. S. Bajaj,2012-12-06 Biotechnology has come to a stage where by replacing some of the age old practices of breeding it can produce novel and improved plants and animals that can better serve human beings and their purposes The techniques of cellular and subcellular engineering such as gene splicing and recombinant DNA cloning hybridomas and monoclonal anti bodies production of human insulin protein engineering industrial fermentation artificial insemination cryopreservation and ovum trans fer plant tissue culture and somatic hybridization nitrogen fixation phytomass production for biofuels etc have advanced greatly in the past decade due to the availability of better equipment and the consolida tion of knowledge Product orientation has removed biotechnology from the area of pure academic interest to one of utility where the final product is a spur to action Businesses have started pouring money into projects which has aided greatly in improving equipment information exchange and arousing the interest and imagination of the public The common goal of science industry and the public opens wide vistas and great hopes for biotechnology The business of biotechnology addresses itself to issues of factory farming technology transfer joint ventures international cooperation and to specific topics as well as the produc tion of diagnostic kits Industry is particularly concerned with the phar maceutical field and microbial biotechnology from which profitable return can accrue Commercial interests have led to better management practices and systematisation

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

Cell and Tissue Culture in Forestry J.M. Bonga,D.J. Durzan,2012-12-06

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Somatic Embryogenesis For Micropropagation Of Coconut Cocos Nucifera L Introduction

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