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Role Of Plant Tibue Culture In Biodiversity Conservation And Economic Development

Sumira Jan,Nazia Abbas

Role Of Plant Tibue Culture In Biodiversity Conservation And Economic Development:

Role of Plant Tissue Culture in Biodiversity Conservation and Economic Development S. K. Nandi,L. M. S. Palni,Anil Kumar,2002 Contributed articles presented at the National Symposium on the Role of Plant Tissue Culture in Bio diversity Conservation and Economic Development held in G B Pant Institute of Himalayan Environment Development Kosi Katarmal Almora from 7 9 June 1999 **Role of Plant Tissue Culture in Biodiversity Conservation and Economic Development** S. K. Nandi,A. Kumar,2002 *Plant Tissue Culture and Moelcular Markers* Ashwani Kumar,N. S. Shekhawat,2009 Plant tissue culture techniques help in understanding basic life processes which is essential to improving crop productivity Furthermore recently molecular biology has assumed great importance with respect to plant biotechnology This book combines all three aspects into one with a focus on practical applications of various techniques It discusses micropropagation studies on several crop plants the molecular basis of understanding various life processes including the molecular basis of somatic embryogenesis and other physiological and biochemical processes having significant biotechnological applications It also covers in vitro studies of certain important plants like Aloe vera Simmondsia chinensis Anacyclus pyrethrum and Crataeva nurvala Arachis hypogaea L Phoenix dactylifera Dendrocalamus asper Asparagus adescendens Roxb natural products of plant origin with their therapeutic potential and biotechnological production as well as genome analysis of crop plants with future applications in biotechnology 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 *Plant Biotechnology and Molecular Markers* S. Srivastava,A. Narula,2006-01-16 The genesis of the volume Plant Biotechnology and Molecular Markers has been the occasion of the retirement of Professor Sant Saran Bhojwani from the Department of Botany University of Delhi For Professor Bhojwani retirement only means relinquishing the chair as being a researcher and a teacher which has always been a way of life to him Professor Bhojwani has been an ardent practitioner of modern plant biology and areas like Plant Biotechnology and Molecular Breeding have been close to his heart The book contains original as well as review articles contributed by his admirers and associates who are experts in their area of research While planning this contributory book our endeavour has been to incorporate articles that cover the entire gamut of Plant Biotechnology and also applications of Molecular Markers Besides articles on in vitro fertilization and micropropagation there are articles on forest tree improvement through genetic engineering Considering the importance of conservation of our precious natural wealth one article deals with cryopreservation of plant material Chapter on molecular marker considers DNA indexing as markers of clonal fidelity of in vitro regenerated plants and prevention against bio piracy A couple of write ups also cover stage specific gene markers DNA polymorphism and genetic engineering including raising of stress tolerant plants to sustain productivity and help in reclamation of degraded land Trees: Propagation and Conservation Ankita Varshney,Mohammad Anis,2014-01-14 Plant tissue culture is an essential component of Biotechnology which has gained unbeatable recognition in plant sciences for successful micropropagation and improvement of plant species leading to the commercial application A number of plant species have been investigated around the globe This book presents current research on the application of in vitro technology in the improvement of Balanites aegyptiaca Del a medicinal plant of semi arid tropics The worldwide importance of forestry summed to the lengthy generation cycles of tree species makes unavoidable development of new technologies that complement conventional tree breeding programmes in order to obtain improved genotypes Recently a new set of tools has become available in the past 20 years that combined with traditional plant breeding will allow scientists to generate products that are genetically improved varieties of the future These set of tools come under the general title of Biotechnology The three specific biotechnological tools have been successfully used in several programmes of plant conservation namely tissue culture techniques for in vitro propagation the use of molecular markers to assess the degree of variability among population and techniques of long term conservation such as encapsulation and cryopreservation Plant tissue culture techniques are particularly relevant and become an alternative not only for large scale propagation of individuals that are threatened reduce production costs and increase gains to the industry but also to provide ecological advantages as in phytoremediation or in the establishment of artificial plantings in weed infested site The book gives a complete documentation of the results and demonstration of Balanites aegyptiaca conducted by the authors over the past 5

years The end to end approach developed through plant tissue culture techniques is reflected in the book and there has been a successful transfer of technology from lab to field The authors hope that this information would provide valuable data and also be a reference material for future research activities in this area Recent Trends in Biotechnology and Therapeutic Applications of Medicinal Plants Mohd. Shahid,Anwar Shahzad,Abida Malik,Aastha Sahai,2013-05-13 The book provides an overview of current trends in biotechnology and medicinal plant sciences The work includes detailed chapters on various advance biotechnological tools involved in production of phytoactive compounds of medicinal significance Some recent and novel research studies on therapeutic applications of different medicinal plants from various geographical regions of the world have also been included These studies report the antimicrobial activity of various natural plant products against various pathogenic microbial strains Informative chapters on recent emerging applications of plant products such as source for nutraceuticals and vaccines have been integrated to cover latest advances in the field This book also explores the conservation aspect of medicinal plants Thus chapters having comprehensively complied in vitro conservation protocols for various commercially important rare threatened and endangered medicinal plants were provided in the present book

Conservation of Tropical Plant Species M.N. Normah,H.F. Chin,Barbara M. Reed,2012-08-04 The book is designed to provide a review on the methods and current status of conservation of the tropical plant species It will also provide the information on the richness of the tropical plant diversity the need to conserve and the potential utilization of the genetic resources Future perspectives of conservation of tropical species will be discussed Besides being useful to researchers and graduate students in the field we hope to create a reference for a much wider audience who are interested in conservation of tropical plant diversity **Medicinal Plant Biotechnology** Rajesh Arora,2010 Covering the latest advances in the use of plants to produce medicinal drugs and vaccines examines topics including plant tissue culture secondary metabolite production metabolomics and metabolic engineering bioinformatics molecular farming and future biotechnological directions

Plant Biotechnology Mahipal singh Shekhawat,Vikrant,2019-06-11 In vitro Plant Biotechnology Status and Scope In vitro Plant Regeneration An Overview In vitro Culture Laboratory Organization and Management Sterilization Techniques Plant Cell In vitro Nutrition Culture Medium Cell Differentiation and Totipotency Micropropagation A Source of Clonal Regeneration Callus Induction and Differentiation Cell Suspension Culture Single Cell Culture Technology and Applications Embryo Culture Somatic Embryo Induction and Regeneration Haploid Production I Androgenesis Haploid Production II In vitro Pollination Fertilization and Gynogenesis Endosperm and Nucellus Culture Protoplast Technology Isolation and Regeneration of Protoplast Protoplast Technology Somatic Hybridization and Cybridization Somaclonal Variation Source and Significance Biodiversity and Preservation of Germplasm Artificial synthetic Seed Production Technology Secondary Metabolite Production I Secondary Metabolite Production II Transgenic Production I Transgenic Production II Transgenic Production III G M Crops and their Impacts Plastid Engineering Plant In vitro Biotechnology in Agriculture Plant In vitro

Biotechnology in Forestry Plant In vitro Biotechnology in Industry Advances in Plant Breeding Strategies: Vegetable Crops Jameel M. Al-Khayri,S. Mohan Jain,Dennis V. Johnson,2021-08-25 This book examines the development of innovative modern methodologies towards augmenting conventional plant breeding in individual crops for the production of new crop varieties under the increasingly limiting environmental and cultivation factors to achieve sustainable agricultural production enhanced food security in addition to providing raw materials for innovative industrial products and pharmaceuticals This Volume 9 subtitled Vegetable Crops Fruits and Young Shoots consists of 12 chapters focusing on advances in breeding strategies using both traditional and modern approaches for the improvement of individual vegetable crops Chapters are arranged in 2 parts according to the edible vegetable parts Part I Fruits Bell Pepper Capsicum annuum L var grossum Sendt Chili pepper Capsicum frutescens L Bitter gourd Momordica charantia L Bottle gourd Lagenaria siceraria Molina Standl Eggplant Solanum spp Okra Abelmoschus esculentus L Plantain Musa paradisiaca L Sweet gourd Cucurbita moschata Duch ex Poir Melon Cucumis melo L Groups Dudaim and Flexuosus Tomato Solanum lycopersicum L and Zucchini Cucurbita pepo L and Part II Young shoots Asparagus Asparagus officinalis L The chapters were contributed by 43 internationally reputable scientists from 11 countries Each chapter comprehensively reviews the modern literature on the subject and reflects the authors own experience *Silviculture of South Asian Priority Bamboos* Ratan Lal Banik,2016-10-10 This monograph aims at bringing out a comprehensive collection of information on bamboo varieties in South Asia The main focus of this book is to address the ecological and economic significance of bamboos Bamboo is a versatile group of plants capable of providing ecological economic and livelihood security to the people In the tropics especially the rural areas in different countries of South Asia most of the houses are made of bamboos In the hilly areas of Bangladesh Bhutan Nepal and India the tribal people take bamboo shoots as one of their major food items since prehistoric days With palatable shoots and grass like leaves bamboo plants have also been liked by many herbivore animals such as elephants the wild cattle Indian Bison and some species of deer The red panda in the Himalayas and primates pigs rats and mice porcupines and squirrels are also incidental feeders on southeast Asian bamboos There has been a growing awareness in recent years about the values of bamboo being an important means of economic growth and for improving the socio economic conditions of the rural poor Bamboo as an industrial material can substitute wood and that to at low cost Due to increasing demand and squeezing of bamboo area the plants have been overexploited and the quality and quantity of resource alarmingly getting depleted Besides many new bamboo based industries have come up which also urgently require uninterrupted supply of species wise bamboo resource The south Asia region has bestowed with more than 300 bamboo species with enormous diversities at species ecological and genetical level A number of bamboo species are found common among countries of the region selected for various utilization potentials having wide range of ability to adjust environmental conditions of these countries and thus prioritized for cultivation Both government and private planters in the region have started allocating funds land and other logistics to raise

large scale plantation of desired bamboo species This book has been drafted to find out answers of the most pertinent queries based on the field observations on each of the bamboo species and knowledge learnt from the indigenous people living with bamboos in different parts of south east and south Asian countries This monograph would be interesting and useful to bamboo professionals foresters horticulturists field level extension workers nurserymen planters industrial entrepreneurs ecologists and valuable source of reference to the relevant researchers and students in the region *Agricultural Biotechnology: Latest Research and Trends* Dinesh Kumar Srivastava,Ajay Kumar Thakur,Pankaj Kumar,2022-01-08 This book caters to the need of researchers working in the ever evolving field of agricultural biotechnology It discusses and provides in depth information about latest advancements happening in this field The book discusses evolution of plant tissue culture techniques development of doubled haploids technology role of recombinant DNA technology in crop improvement It also provides an insight into the global status of genetically modified crops use of RNAi technology and mi RNAs in plant improvement Chapters are also dedicated for different branches of omics science including genomics bioinformatics proteomics metabolomics and phenomics along with the use of molecular markers in tagging and mapping of various genes QTLs of agronomic importance This book also covers the role of enzymes and microbes in agriculture in productivity enhancement It is of interest to teachers researchers of biotechnology and agriculture scientists Also the book serves as additional reading material for undergraduate and postgraduate students of biotechnology agriculture horticulture forestry ecology soil science and environmental sciences National and international biotechnologists and agricultural scientists will also find this to be a useful read Threatened Medicinal Plants in the Indian Himalayan Region Arun Pratap Mishra,Amit Kumar,Naveen Chandra,Gajendra Singh,Chaitanya Baliram Pande,2024-12-30 The book provides an in depth analysis of the major issues related to the conservation of threatened medicinal plants in the Indian Himalayan region The book is a comprehensive resource and sustainability of challenges and conservation strategies that highlights the critical role of medicinal plants in traditional healthcare systems and identifies the significant threats that these plants face due to various anthropogenic and natural factors The book covers ten major themes that are critical to understanding the sustainability conservation of threatened medicinal plants in the Indian Himalayan region It provides an essential resource for researchers policymakers and practitioners interested in the sustainability conservation of threatened medicinal plants in the Himalayan area The book provides an overview of the major issues related to medicinal plant sustainability conservation and suggests strategies for the sustainable management of these plants The authors have provideda comprehensive and insightful analysis of the sustainability conservation status of medicinal plants in the region highlighting the urgent need for concerted efforts to conserve these valuable resources **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 environ mental 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 taedb 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 Genetically Modified Crops P. B. Kavi Kishor,Manchikatla Venkat Rajam,T. Pullaiah,2020-11-03 Genetic transformation is a key technology in which genes are transferred from one organism to another in order to improve agronomic traits and ultimately help humans However there is apprehension in some quarters that genetically modified crops may disturb the ecosystem A number of non governmental organizations continue to protest against GM crops and foods despite the fact that many organisms are genetically modified naturally in the course of evolution In this context there is a need to educate the public about the importance of GM crops in terms of food and nutritional security This book provides an overview of various crop plants where genetic transformation has been successfully implemented to improve their agronomically useful traits It includes information on the gene s transferred the method of gene transfer and the beneficial effects of these gene transfers and agronomic improvements compared to the wild plants Further it discusses the commercial prospects of these GM crops as well as the associated challenges Given its scope this book is a valuable resource for agricultural and horticultural scientists experts wanting to explain to the public politicians and non governmental organizations the details of GM crops and how they can improve crops and the lives of farmers **Ancient and Traditional Foods, Plants, Herbs and Spices used in Diabetes** Rajkumar Rajendram,Victor Preedy,Vinood Patel,2023-09-26 The use of different foods herbs and spices to treat or prevent disease has been recorded for thousands of years Egyptian papyrus hieroglyphics and ancient texts from the Middle East have described the cultivation and preparations of herbs and botanicals to cure the sick There are even older records from China and India Some ancient scripts describe the use of medicinal plants which have never been seen within European cultures Indeed all ancient civilizations have pictorial records of different foods herbs and spices being used for medical purposes However there are fundamental issues pertaining to the scientific evidence for the use of these agents or their extracts in modern medicine These issues are explored in Ancient and Traditional Foods Plants Herbs and Spices Used

in Diabetes Features Investigates alternative healthcare paradigms that use traditional dietary foods plant derived materials and extracts to treat diabetes Describes scientific studies using modern day biomedical techniques Provides information on diets specific agents extracts and resources Many chapters focus on plant derived material providing a historical background uses toxicity and cautionary notes and summary points There have been considerable advances in scientific techniques over the last few decades These have been used to examine the composition and applications of traditional cures Modern science has also seen the investigation of herbs spices and botanicals beyond their traditional usage Diabetes is one of the most common diseases worldwide with over 400 million people with the illness With chapter contributions by an international panel of contributors this book is useful for researchers in the area of functional foods Diabetologists nutritionists endocrinologists healthcare workers and pharmacologists will also find this book extremely valuable Himalayan Phytochemicals Sumira Jan,Nazia Abbas,2018-04-10 Himalayan Phytochemicals Sustainable Options for Sourcing and Developing Bioactive Compounds provides a detailed review of the important medicinal plants which have already been discovered in the Himalayan region outlining their discovery activity and underlying chemistry In addition it supports a global shift towards sustainable sourcing of natural products from delicate ecosystems Across the world environmental destruction and overharvesting of medicinal plants are reducing and destroying multiple important sources and potential leads before researchers have the chance to discover explore or synthesize them effectively By identifying this problem and discussing its impact on the Himalayan region Himalayan Phytochemicals Sustainable Options for Sourcing and Developing Bioactive Compounds frames the ongoing global struggle and highlights the key factors that must be considered and addressed when working with phytochemicals from endemic plant sources Reviews both well known and recently discovered plants of this region Highlights methods for phytochemical extraction and analysis Provides context to support a shift towards sustainable sourcing of natural products *Genome Size and Genetic Homogeneity of Regenerated Plants: Methods and Applications* A. Mujib,2023-09-13 This reference is a timely compilation of studies of genome size and genetic stability of regenerated plants It presents 13 book chapters that cover recent advancements in CRISPR Cas based genome editing the use of molecular markers to analyze somaclonal variation in tissue culture and genetic stability assessment in various plant species including medicinally valuable plants like Valeriana and Coffea The book also highlights the role of flow cytometry in investigating polyploidy and provides valuable insights into genetic fidelity assessment of micropropagated woody plants and orchids The contributors have shed light on the intra specific and inter specific genome and chromosome number variation with reference to gene duplication and DNA sequence loss Molecular techniques for detecting ploidy levels and genetic homogeneity in regenerated plantlets are also discussed Additional highlights of the book include brief guidelines for experimental protocols for flow cytometry and molecular markers coverage of a wide range of plants and supporting references This is an excellent reference for biologists geneticists and plant scientists exploring genetic homogeneity and

genome size variation in diverse plant groups *Plants as Medicine and Aromatics* Mohd Kafeel Ahmad Ansari,Mushtaq Ahmad,Gary Owens,2024-10-22 Plant based medicines and aromatics are increasingly in demand in the healthcare sector all over the globe where they are used not only for the treatment of various diseases but also for maintaining good human health Plants as Medicine and Aromatics Uses of Botanicals reviews modern uses of ancient botanicals as medicine and aromatics including chapters on both traditional usage and modern drug discovery development as well as clinical research and development in ancient medicinal herbs Features Assesses the status of aromatics and medicinal plants as well as their modern uses Elucidates the uses of plants within traditional culture practices for the prevention and treatment of diseases Examines contemporary approaches being used to explore medicinal botany A volume in the Exploring Medicinal Plants series Plants as Medicine and Aromatics Uses of Botanicals presents a comprehensive understanding in terms of modern uses of botanicals of medicinal and aromatic plants It is useful to researchers teachers cultivators students and for those interested in herbal medicine

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