FORESTRY SCIENCES

Micropropagation of Woody Trees and Fruits

S. Mohan Jain and Katsuaki Ishii
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Micropropagation Of Woody Trees And Fruits Forestry Sciences

Manoj Kumar,Vivek Kumar,Ram Prasad,Ajit Varma

Micropropagation Of Woody Trees And Fruits Forestry Sciences:

Micropropagation of Woody Trees and Fruits S.M. Jain,Katsuaki Ishii,2014-09-01 This book provides comprehensive information on micropropagation of economically important forest and fruit trees which is usually available in scattered literature Topics cover a wide range from tropical forest and fruit trees for paper or food supply to Prunus species for local craft bark production **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 *Protocols for Micropropagation of Woody Trees and Fruits* S.Mohan Jain,H. Häggman,2007-09-18 Micropropagation has become a reliable and routine approach for large scale rapid plant multiplication which is based on plant cell tissue and organ culture on well defined tissue culture media under aseptic conditions A lot of research efforts are being made to develop and refine micropropagation methods and culture media for large scale plant multiplication of several number of plant species However many forest and fruit tree species still remain recalcitrant to in vitro culture and require highly specific culture conditions for plant growth and development The recent challenges on plant cell cycle regulation and the presented potential molecular mechanisms of recalcitrance are providing excellent background for understanding on totipotency and what is more development of micropropagation protocols For large scale in vitro plant production the important attributes are the quality cost effectiveness maintenance of genetic fidelity and long term storage The need for appropriate in vitro plant regeneration methods for woody plants including both forest and fruit trees is still overwhelming in order to overcome problems facing micropropagation such as somaclonal variation recalcitrant rooting hyperhydricity polyphenols loss of material during hardening and quality of plant material Moreover micropropagation may be utilized in basic research in production of virus free planting material cryopreservation of endangered and elite woody

species applications in tree breeding and reforestation **Technology for a Sustainable Environment** Bhupinder Dhir,2023-09-22 Environmental issues such as overexploitation pollution and degradation of natural resources have prompted us to look for ways to devise sustainable practices across industrial and public service sectors Researchers and scientists all over the world are involved in developing strategies and techniques that help us achieve a sustainable environment Technology for a Sustainable Environment presents an overview of various methods and techniques that can be adapted to sustain the environment Chapters focus on techniques such as bioremediation nanotechnology and biotechnology that can play a very important role in achieving environmental sustainability goals The chapters also provide a detailed account about use of biotechnology nanotechnology and other techniques in achieving environmental sustainability Additionally the book includes a discussion about emerging technologies that promote environmental sustainability like green technologies biodegradable polymers and plastics Readers will be able to understand how modern technologies can help in monitoring environmental pollutants remediation of environmental pollution and prevention of environmental degradation The book is suitable for readers professionals and scholars at all levels who require an understanding of the technology in environmental science environmental engineering and environmental biotechnology *Tree Biology and Biotechnology* Rajwant K. Kalia,Rakesh Pathak,2025-01-22 This edited book aims to bring out a comprehensive collection of information on tree biology breeding improvement genetics and biotechnology The focus of this book is to address the status of tree biology research through biotechnological physiological pathological and entomological aspects Trees are dominant and perennial species found in several ecosystems They are the only piece of infrastructure that gains value over time Their economic relevance is well known in terms of the production of food feed fodder fuel timber and other products Trees are well known habitats for different organisms They also deliver various ecosystem services including temperature regulation mitigation of soil erosion and managing and filtering rainwater Tree species are versatile and are capable of providing livelihood security to people besides several other advantages In the era of high population growth and increasing pressure on agricultural systems efficient management of tree resources is the need of the time Therefore it is essential to understand tree biology breeding and improvement This book comprises information on various aspects of tree breeding biology genetics and research in the improvement of tree species Applications of tissue culture biotechnological approaches tree health management insect pest management and nutrient recycling have been covered in the book along with some chapters on case studies from Rajasthan and Africa This book is a useful read for agricultural students researchers teachers and professionals interested in the fields of agroforestry horticulture silviculture and tree improvement Biodiversity and Conservation of Woody Plants M. R. Ahuja,S. Mohan Jain,2017-11-21 This book provides complete comprehensive and broad subject based reviews for students teachers researchers policymakers conservationists and NGOs interested in the biodiversity and conservation of woody plants Forests cover approximately 31 percent of the world s total landmass 93

percent is natural forest and only 7 percent consists of planted trees Forest decline is progressing at an alarming rate worldwide In addition to human activities logging deforestation and exploiting forest lands for agriculture and industrial use a number of other factors including pests and diseases drought soil acidity radiation and ozone are cumulatively contributing to global forest decline The present situation forces us to focus on forest conservation strategies for the present and future Gene conservation and maintaining genetic diversity in forest ecosystems are crucial to the preservation of forest genetic resources This calls for integrated action to implement both the in situ on site preservation of forest stands and ex situ distant from the original site strategies for the conservation of woody plants genetic resources Selected priority areas include 1 assessing patterns of genetic diversity and threats 2 understanding the biological processes regulating genetic diversity 3 assessing the impact of human activities and climate change on genetic diversity and 5 finding methods for prioritizing species and populations for the conservation of forest trees genetic resources All chapters were written by leading scientists in their respective fields which include woody plant diversity ecology and evolution assessment of genetic diversity in forest tree populations conservation planning under climate change and in situ and ex situ strategies including biotechnological approaches for the conservation of woody plants genetic resources *Plant Tissue Culture* Sunghun Park,2021-02-17 Plant Tissue Culture Techniques and Experiments Fourth Edition builds on the classroom tested audience proven manual that has guided users through successful plant culturing for almost 30 years The book s experiments demonstrate major concepts and can be conducted with a variety of plant materials readily available throughout the year This fully updated edition describes the principles of the newest technologies including CRISPR Cas9 gene editing and RNAi technology with plant cell and tissue cultures and their applications Bridging the gap between theory and practice this book contains detailed methodology supported by comprehensive illustrations giving users a diverse learning experience for both university students and plant scientists Provides fundamental principles methods and techniques in plant cell tissue and organ culture that can be applied to all crop plants including agronomic crops horticulture and forestry crops for germplasm improvement Guides readers from lab setup to supplies stock solution and media preparation explant selection and disinfestations and experimental observations and measurement Contains the latest advances and updates since the previous edition published in 2012

Plant Tissue Culture Roberta H. Smith,2013 Plant Tissue Culture Third Edition builds on the classroom tested audience proven manual that has guided users through successful plant culturing A tumefaciens mediated transformation infusion technology the latest information on media components and preparation and regeneration and morphogenesis along with new exercises and diagrams provide current information and examples The included experiments demonstrate major concepts and can be conducted with a variety of plant material that are readily available throughout the year This book provides a diverse learning experience and is appropriate for both university students and plant scientists Provides new exercises demonstrating tobacco leaf infiltration to observe transient expression of proteins and subcellular location of the

protein and information on development of a customized protocol for protoplast isolation for other experimental systems Includes detailed drawings that complement both introductions and experiments Guides reader from lab setup to supplies stock solution and media preparation explant selection and disinfestations and experimental observations and measurement Provides the latest techniques and media information including A tumefaciens mediated transformation and infusion technology Fully updated literature Conservation of Plant Genetic Resources Saikat Gantait,Paweł Chmielarz,2025-08-05 This book discusses validated in vitro biotechnological interventions that have reshaped the landscape of plant genetic resource conservation It covers essential topics such as collection processes disease indexing in vitro culture establishment multiplication techniques and storage solutions ranging from short to long term strategies like cryopreservation By addressing the challenges of ex situ conservation management this work offers a guide to preserving rare and endangered plants against the backdrop of climate change and unsustainable utilization The chapters delve into critical themes such as slow growth strategies and synthetic seed technology for mid term storage solutions This book is for academicians postgraduate students and researchers in botany and plant biotechnology sectors as well as molecular biologists and conservation enthusiasts **Encyclopedia of Forest Sciences** Julian Evans,John A. Youngquist,2004-04-02 A combination of broad disciplinary coverage and scientific excellence the Encyclopedia of Forest Sciences will be an indispensable addition to the library of anyone interested in forests forestry and forest sciences Packed with valuable insights from experts all over the world this remarkable set not only summarizes recent advances in forest science techniques but also thoroughly covers the basic information vital to comprehensive understanding of the important elements of forestry The Encyclopedia of Forest Sciences also covers relevant biology and ecology different types of forestry e g tropical forestry and dryland forestry scientific names of trees and shrubs and the applied economic and social aspects of forest management Valuable key features further enhance the utility of this Encyclopedia as an exceptional reference tool Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www info sciencedirect com Edited and written by a distinguished group of editors and contributors Well organized encyclopedic format provides concise readable entries easy searches and thorough cross references Illustrative tables figures and photographs in every entry produced in full color Comprehensive glossary defines new and important terms Complete up to date coverage of over 60 areas of forest sciences sure to be of interest to scientists students and professionals alike Editor in Chief is the past president of the International Union of Forestry Research Organizations the oldest international collaborative forestry research organization with over 15 000 scientists from 100 countries Behind the Smoke and Mirrors: Reflections on Improving Cannabis Production and Investigating Medical Potential David Meiri,Donald Lawrence Smith,Derek Stewart,Carolyn J. Baglole,Rachel G. M. Backer,2022-11-07 The Lychee

Biotechnology Manoj Kumar,Vivek Kumar,Ram Prasad,Ajit Varma,2017-03-27 This book provides systematic information on the lychee and modern tools to promote its sustainable growth and development Including dedicated chapters on the evolution and diversification of the lychee it highlights its genetic makeup and reciprocal exogenous factors addressing the narrow genetic pool and lack of natural biodiversity It also discusses issues related to post harvest losses and robust approaches at the commercial level Further the book offers insights on in vitro propagation methods and prospective transgenic approaches for selected lychee cultivars Chapters on the production of bioactive compounds and their enhancement through genetic transformation and elicitation are also included reflecting the latest advances in the field of lychee biotechnology Lastly the book explores the use of molecular marker techniques to achieve the desired improvements in fruit trees medicinal and aesthetic value **Grapevine Viruses: Molecular Biology, Diagnostics and Management** Baozhong Meng,Giovanni P. Martelli,Deborah A. Golino,Marc Fuchs,2017-07-05 The domestication of grapes dates back five thousand years ago and has spread to nearly all continents In recent years grape acreage has increased dramatically in new regions including the United States of America Chile Asia China and India and Turkey A major limiting factor to the sustained production of premium grapes and wines is infections by viruses The advent of powerful molecular and metagenomics technologies such as molecular cloning and next generation sequencing allowed the discovery of new viruses from grapes To date grapevine is susceptible to 64 viruses that belong to highly diverse taxonomic groups The most damaging diseases include 1 infectious degeneration 2 leafroll disease complex and 3 rugose wood complex Recently two new disease syndromes have been recognized Syrah decline and red blotch Losses due to fanleaf degeneration are estimated at 1 billion annually in France alone Other diseases including leafroll rugose wood Syrah de cline and red blotch can result in total crop loss several years post infection This situation is further exacerbated by mixed infections with multiple viruses and other biotic as well as adverse abiotic environmental conditions such as drought and winter damage causing even greater destruction The book builds upon the last handbook written over twenty years ago on the part of diagnostics and extensively expands its scope by inclusion of molecular biology aspects of select viruses that are widespread and economically most important This includes most current information on the biology transmission genome replication transcription subcellular localization as well as virus host interactions It also touches on several novel areas of scientific inquiry It also contains suggested directions for future research in the field of grapevine virology **THE STATE OF THE WORLD’s FOREST GENETIC RESOURCES** Food and Agriculture Organization of the United Nations,2018-05-25 The publication was prepared based on information provided by 86 countries outcomes from regional and subregional consultations and commissioned thematic studies It includes an overview of definitions and concepts related to Forest Genetic Resources FGR and a review of their value a description of the main drivers of changes the presentation of key emerging technologies an analysis of the current status of FGR conservation use and related developments recommendations addressing the challenges and needs By

the FAO Commission on Genetic Resources for Food and Agriculture **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 **Secondary Metabolites of Medicinal Plants, 4 Volume Set** Bharat Singh,Ram Avtar Sharma,2020-06-02 Covers the structurally diverse secondary metabolites of medicinal plants including their ethnopharmacological properties biological activity and production strategies Secondary metabolites of plants are a treasure trove of novel compounds with potential pharmaceutical applications Consequently the nature of these metabolites as well as strategies for the targeted expression and or purification is of high interest Regarding their biological and pharmacological activity and ethnopharmacological properties this book offers a comprehensive treatment of 100 plant species including Abutilon Aloe Cannabis Capsicum Jasminum Malva Phyllanthus Stellaria Thymus Vitis Zingiber and more It also discusses the cell culture conditions and various strategies used for enhancing the production of targeted metabolites in plant cell cultures Secondary Metabolites of Medicinal Plants Ethnopharmacological Properties Biological Activity and Production Strategies is presented in four parts Part I provides a complete introduction to the subject Part II looks at the ethnomedicinal and pharmacological properties chemical structures and culture conditions of secondary metabolites The third part examines the many strategies of secondary metabolites production including biotransformation culture conditions feeding of precursors genetic transformation immobilization and oxygenation The last section concludes with an overview of everything learned Provides information on cell culture conditions and targeted extraction of secondary metabolites confirmed by relevant literature Presents the structures of secondary metabolites of 100 plant species together with their biological and pharmacological activity Discusses plant species regarding their distribution habitat and ethnopharmacalogical properties Presents strategies of secondary

metabolites production such as organ culture pH elicitation hairy root cultures light and mutagenesis Secondary Metabolites of Medicinal Plants is an important book for students professionals and biotechnologists interested in the biological and pharmacological activity and ethnopharmacological properties of plants **Micropropagation of Medicinal Plants: Volume 1** T. Pullaiah,2024-02-20 This volume presents information about protocols for micropropagation of more than 40 species of medicinal plants The contents combine knowledge about the scientific principles of micropropagation with state of the art updates in tissue culture techniques presented by plant scientists The readers will learn about techniques required to grow plants in challenging conditions that aim to reduce the impacts of injudicious harvesting deforestation climate change pollution urbanization and other factors that limit the ability to meet current demand General topics such as biotization and pharmaceutical investigation are also included to guide readers about the significance of these plants in research and development for new medicines The book provides protocols for micropropagation of important medicinal plants like Rauvolfia serpentina Catharanthus roseus Withania somnifera Tylophora indica Bacopa monnieri Aloe vera Phyllanthus amarus Allium sativum Moringa oleifera Operculina turpethum Glycyrrhiza glabra Pterocarpus marsupium Vetiver grass Ruta graveolens Tinospora cordifolia Kaempferia Hedychium Decalepis hamiltonii Saraca asoca Wrightia tinctoria Wrightia arborea Artemisia absinthium Aegle marmelos Atropa acuminata Atropa belladonna Alpinia species Hedychium species and Cissus species This book is a handy reference for medicinal chemists horticulturists and pharmacists who want to learn about the growth and conservation of important medicinal herbs and plants Readership Medicinal chemists horticulturists and pharmacists **The CABI Encyclopedia of Forest Trees** CABI,2013 The CABI Encyclopedia of Forest Trees provides an extensive overview of 300 of the world s most important forest trees Tropical subtropical temperate and boreal trees of major economic importance are included covering tree species used in agroforestry practices around the world Many of the species covered are considered to be multipurpose trees with uses extending beyond timber alone the land uses such as watershed protection or provision of windbreaks and non wood uses such as the production of medicines resins food and forage are also listed Comprehensive information is presented on each tree s importance with a summary of the main characteristics of the species its potential for agroforestry use and any disadvantages it possesses The tree s botanical features such as habit stem form foliage inflorescence flower and fruit characters and phenology are covered in detail with over 70 color plate pictures to aid identification Also included are specific sections devoted to pests and diseases distribution and silvicultural characteristics and practices including seed sowing nursery care planting thinning and harvesting In addition to the wealth of information detailed based on datasheets from CABI s Forestry Compendium selected references for further reading are provided for each entry making this book an essential reference work for forestry students researchers and practitioners

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 Micropropagation of Medicinal Plants: Volume 2 T. Pullaiah,2024-03-29 This volume presents information about protocols for micropropagation of more than 40 species of medicinal plants The contents combine knowledge about the scientific principles of micropropagation with state of the art updates in tissue culture techniques presented by plant scientists The readers will learn about techniques required to grow plants in challenging conditions that aim to reduce the impacts of injudicious harvesting deforestation climate change pollution urbanization and other factors that limit the ability to meet current demand General topics such as biotization and pharmaceutical investigation are also included to guide readers about the significance of these plants in research and development for new medicines The book provides protocols for micropropagation of important medicinal plants like Rauvolfia serpentina Catharanthus roseus Withania somnifera Tylophora indica Bacopa monnieri Aloe vera Phyllanthus amarus Allium sativum Moringa oleifera Operculina turpethum Glycyrrhiza glabra Pterocarpus marsupium Vetiver grass Ruta graveolens Tinospora cordifolia Kaempferia Hedychium Decalepis hamiltonii Saraca asoca Wrightia tinctoria Wrightia arborea Artemisia absinthium Aegle marmelos Atropa acuminata Atropa belladonna Alpinia species Hedychium species and Cissus species This book is a handy reference for medicinal chemists horticulturists and pharmacists who want to learn about the growth and conservation of important medicinal herbs and plants

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