Protocols For Micropropagation Of Woody Trees And Fruits

Protocols for Micropropagation of Woody Trees and FruitsMicropropagation of Medicinal Plants: Volume 2Micropropagation of OrchidsTissue Culture Studies for Micropropagation of LiliumMicropropagation of Woody PlantsProtocols for Micropropagation of Selected Economically-Important Horticultural PlantsMicropropagationHigh-Tech and Micropropagation IIIHigh-tech and MicropropagationMicropropagation of Rosa centifoliaTissue Culture Studies forDevelopment of a Harvester for Micropropagated Seed PotatoesTissue Culture of Economic PlantsPlant Tissue Culture, Development, and BiotechnologyMicropropagation of Medicinal Plants: Volume 1Comprehensive Micropropagation of Horticultural CropsMicropropagation of Woody Trees and FruitsPlant Tissue Culture Concepts and Laboratory ExercisesHigh-Tech and Micropropagation ITechniques for micropropagation of some commercially interesting aromatic plants S.Mohan Jain T. Pullaiah Tim Wing Yam Aamir Ali M.R. Ahuja Maurizio Lambardi P. Debergh Y. P. S. Bajaj Y. P. S. Bajaj Gulzar Akhtar Aamir Ali Kelly A. Wehner-Detra C. K. John Robert N. Trigiano T. Pullaiah R. & Mishra S.M. Jain Robert N. Trigiano Y. P. S. Bajaj Protocols for Micropropagation of Woody Trees and Fruits Micropropagation of Medicinal Plants: Volume 2 Micropropagation of Orchids Tissue Culture Studies for Micropropagation of Lilium Micropropagation of Woody Plants Protocols for Micropropagation of Selected Economically-Important Horticultural Plants Micropropagation High-Tech and Micropropagation III High-tech and Micropropagation Micropropagation of Rosa centifolia Tissue Culture Studies for Development of a Harvester for Micropropagated Seed Potatoes Tissue Culture of Economic Plants Plant Tissue Culture, Development, and Biotechnology Micropropagation of Medicinal Plants: Volume 1 Comprehensive Micropropagation of Horticultural Crops Micropropagation of Woody Trees and Fruits Plant Tissue Culture Concepts and Laboratory Exercises High-Tech and Micropropagation I Techniques for micropropagation of some commercially interesting aromatic plants S.Mohan Jain T. Pullaiah Tim Wing Yam Aamir Ali M.R. Ahuja Maurizio Lambardi P. Debergh Y. P. S. Bajaj Y. P. S. Bajaj Gulzar Akhtar Aamir Ali Kelly A. Wehner-Detra C. K. John Robert N. Trigiano T. Pullaiah R. & Mishra S.M. Jain Robert N. Trigiano Y. P. S. Bajaj

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

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

divided into three volumes micropropagation of orchids third edition retains the exhaustive list of micropropagation protocols for many genera and updates each section to include new and or revised information about culture media and vessels techniques and procedures for both orchids which were previously cultured and for those which were not plant hormones and growth regulators media components methods for tissue decontamination historical information procedures for the cultivation for plantlets which have been removed from flasks sources of light and illumination methods written by two globally acknowledged experts in the field the third edition of this definitive text on the micropropagation of orchids is a detailed and comprehensive collection of procedures and methods for multiplying orchids including organ tissue and cell culture techniques in vitro and is intended for researchers in plant science and propagation professional and amateur orchid growers and plant breeding professionals much of the general information about techniques and procedures can be applied to plants other than orchids

for in vitro propagation of lilium longiflorum meristem and twin scales showed different responses toward different type of media the best shoot formation response was obtained on murashige and skoog medium supplemented with 2 0 mg l of bap at this concentration 84 shoot formation response was obtained after 12 2 days of inoculation when ms medium was supplemented with different concentrations of auxin and cytokinins the best shoot initiation response was gained at 2 5 mg l of bap with 0 5 mg l of naa i e 88 shoot initiation was obtained after 21 days of explants inoculation maximum shoot multiplication response was obtained at 2 5 mg l of bap i e 4 6 shoots per culture were observed after 15 days of inoculation ms medium supplemented with 1 5 mg l of naa was proved to be optimum for rooting i e an average of 5 2 roots were formed after 12 2 days of inoculation temperature of 26 c and photoperiod 16 hours 8 hours dark in 24 hour cycle induced the best response for in vitro shoot formation well developed in vitro plants were shifted to pots containing different media including soil peat soil sand and soil sand peat 100 hardening response was obtained in peat

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

micropropagation is a reliable technology applied commercially worldwide for large scale plant multiplication germplasm conservation pathogen elimination genetic manipulations and supply of selected plants in protocols for micropropagation of selected economically important horticultural plants well recognised researchers in the field compile step wise protocols for rapid plant multiplication of economically important horticultural species the book contains 35 chapters divided into four major sections the first three sections section a b and c contain 29 micropropagation protocols of selected fruit and nut species indoor and outdoor ornamental plants cut flowers and vegetables in addition to the detailed protocols of in vitro shoot initiation proliferation root induction and acclimatization chapters also include detailed information on medium preparation explant selection and preparation the six chapters of section d cover specific reviews on pivotal topics such as in vitro rejuvenation synthetic seed technology thermotherapy and meristem culture in banana genetic transformation

of pineapple flower color somaclonal variation in torenia and cryotherapy of horticultural crops moreover as a part of the highly successful methods in molecular biology series chapters include introductions to the respective topic lists of necessary materials notes and illustrative photos comprehensive and well written protocols for micropropagation of selected economically important horticultural plants offers a useful resource for horticulturists researchers commercial companies plant propagators biotechnologists and students interested in micropropagation

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

presenting the state of the art of tissue culture and in vitro propagation of vegetable and tuber crops medicinal and aromatic plants fibre and oilseed crops and grasses this book complements the previous two volumes on high tech and micropropagation which concentrated on special techniques vol 17 and trees and bushes of commercial value vol 18 the specific plants covered here include asparagus lettuce horse radish cucumber potato cassava sweet potato artichoke yams cardamom fennel celery thyme leek mentha turmeric lavender agave yucca cotton jute sunflower ryegrass zoysiagrass and various species of aconitum artemisia camelia centaurium digitalis dioscorea glehnia levisticum parthenium and pinella the book is of use to advanced students teachers and research workers in the field of pharmacy horticulture plant breeding and plant biotechnology in general and also to individuals interested in industrial micropropagation

master s thesis from the year 2009 in the subject biology botany university of agriculture faisalabad institute of horticultural sciences course m sc language english abstract the present study was conducted for regeneration of rosa centifolia and reduction of oxidative browning shoot tips with axillary buds were used as explant the explants were surface sterilized with 70 alcohol for 4 minutes and 5 bleach for 4 minutes followed by three washing with autoclaved double distilled water after that the explants were cultured on ms media murashige and skoog 1962 supplemented with different concentration of bap benzyladenine and naa naphthalene acetic acid effect of different concentrations of bap 1 5 mg l 3 mg l alone and in combination with naa 0 5 mg l for shoot induction bap and naa 3 0 mg l 1 5 mg l respectively gives the good results for shooting the effect of naa 1 5 mg l 3 mg l alone and in combination with bap 0 5 mg l for root induction was examined naa and bap 3 0 mg l 1 5 mg l respectively gives the good results for rooting plants were acclimatized and successfully transferred to the greenhouse to control the oxidative browning in rosa centifolia different treatments charcoal charcoal running water stirring in antioxidant solution of citric acid and ascorbic acid were used but the charcoal with the running water gives the good results

amaryllis belongs to family amaryllidaceae a family of perennial bulbous plants which are extremely variable in flower colour and foliage usually with a solitary flower and has tremendous value for native ornamental land scaping the common means of amaryllis propagation are from seeds and by vegetative methods seed being very small in size have low rate of germination and seed propagation also results in variation plant tissue culture is providing new means for the conservation and rapid propagation of true to type valuable endangered and disease free plants it is an effective method for propagation of those plant species which are

difficult to propagate by conventional methods with limiting disease transfer to progeny plants where destructive harvesting have decreased the population size commercial growers are now turning towards tissue culture techniques for mass propagation of important ornamental and horticulture plants

under the vast umbrella of plant sciences resides a plethora of highly specialized fields botanists agronomists horticulturists geneticists and physiologists each employ a different approach to the study of plants and each for a different end goal yet all will find themselves in the laboratory engaging in what can broadly be termed biotechnology addressing a wide variety of related topics plant tissue culture development and biotechnology gives the practical and technical knowledge needed to train the next generation of plant scientists regardless of their ultimate specialization with the detailed perspectives and hands on training signature to the authors previous bestselling books plant development and biotechnology and plant tissue culture concepts and laboratory exercises this book discusses relevant concepts supported by demonstrative laboratory experiments it provides critical thinking questions concept boxes highlighting important ideas and procedure boxes giving precise instruction for experiments including step by step procedures such as the proper microscope use with digital photography along with anticipated results and a list of materials needed to perform them integrating traditional plant sciences with recent advances in plant tissue culture development and biotechnology chapters address germplasm preservation plant growth regulators embryo rescue micropropagation of roses haploid cultures and transformation of meristems going beyond the scope of a simple laboratory manual this book also considers special topics such as copyrights patents legalities trade secrets and the business of biotechnology focusing on plant culture development and its applications in biotechnology across a myriad of plant science specialties this text uses a broad range of species and practical laboratory exercises to make it useful for anyone engaged in the plant sciences

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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 longiuvenile 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

alternating between topic discussions and hands on laboratory experiments that range from the in vitro flowering of roses to tissue culture of ferns plant tissue culture concepts and laboratory exercises second edition addresses the most current principles and methods in plant tissue culture research the editors use the expertise of some of the top researchers and educators in plant biotechnology to furnish students instructors and researchers with a broad consideration of the field divided into eight major parts the text covers everything from the history of plant tissue culture and basic methods to propagation techniques crop improvement procedures specialized applications and nutrition of callus cultures new topic discussions and laboratory exercises in the second edition include micropropagation of dieffenbachia micropropagation and in vitro flowering of rose propagation from nonmeristematic tissue organogenesis variation in culture and tissue culture of ferns it is the book s extensive laboratory exercises that provide a hands on approach in illustrating various topics of discussion featuring step by step procedures anticipated results and a list of materials needed what s more editors trigiano and gray go beyond mere basic principles of plant tissue culture by including chapters on genetic transformation techniques and photographic methods and statistical analysis of data in all plant tissue culture concepts and laboratory exercises second edition is a veritable harvest of information for the continued study and research in plant tissue culture science

presented here is another classic from this series and deals with general aspects of micropropagation of plants for commercial exploitation it includes chapters on setting up a commercial laboratory meristem culture somatic embryogenesis factors affecting micropropagation disposable vessels vitrification acclimatization induction of rooting artificial substrates cryopreservation and artificial seed special emphasis is given on modern approaches and developing technologies such as automation and bioreactors robots in transplanting artificial intelligence information management and computerized greenhouses for en masse commercial production of plants

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