

Biotechnology in Agriculture and Forestry 20

High-Tech and Micropropagation IV

Edited by Y.P.S. Bajaj



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High Tech Micropropagation Iv

Professor Dr. Y. P. S. Bajaj



High Tech Micropropagation Iv:

High-Tech and Micropropagation VI Y.P.S Bajaj,2013-06-29 This volume fifth in the series High Tech and Micropropagation contains 24 chapters arranged in the following three sections I Vegetables and Fruits garlic Amaranthus Brassica oleracea pepper watermelon cassava banana Myrtus communis passionfruit Polymnia sonchifolia pepino and spinach II Grasses bamboos Caustis dioica Dendrocalamus Miscanthus x giganteus sugarcane III Trees Aegle marmelos Eucalyptus Fraxinus excelsior Juglans cinerea Pinus virginiana Prosopis and Ulmus This book is of use to research workers advanced students and teachers in the fields of horticulture forestry botany and plant biotechnology in general and also to individuals interested in industrial micropropagation

High-Tech and Micropropagation I Y. P. S. Bajaj,2012-12-06 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

High-Tech and Micropropagation V Y.P.S. Bajaj,2013-03-09 This volume fifth in the series High Tech and Micropropagation contains 24 chapters arranged in the following three sections I Vegetables and Fruits garlic Amaranthus Brassica oleracea pepper watermelon cassava banana Myrtus communis passionfruit Polymnia sonchifolia pepino and spinach II Grasses bamboos Caustis dioica Dendrocalamus Miscanthus x giganteus sugarcane III Trees Aegle marmelos Eucalyptus Fraxinus excelsior Juglans cinerea Pinus virginiana Prosopis and Ulmus This book is of use to research workers advanced students and teachers in the fields of horticulture forestry botany and plant biotechnology in general and also to individuals interested in industrial micropropagation

Medicinal and Aromatic Plants IV Y. P. S. Bajaj,2012-12-06 This volume contains 28 chapters on biotechnology of medicinal and aromatic plants and deals with the distribution economic importance conventional propagation micropropagation review of tissue culture work and the in vitro production of pharmaceutical compounds in various species of Ammi Bergenia Canavalia Capsicum Cassia Cephaelis Cornus Cucurbita Elettaria Eupatorium Genipa Gentiana Gypsophila Hygrophila Leontopodium Nerium Picrasma Polygonum Ptelea Rheum Scopolia Silene Solanum Strophanthus Tagetes Thymus and Uncaria The potential role of biotechnology for industrial production is pointed out This book is tailored to the need of advanced students teachers and the research scientists in the area of plant biotechnology and bioengineering pharmacy botany and tissue culture

Tissue Culture Henry Gilbert,1994 **Plant Protoplasts and Genetic Engineering IV** Y. P. S. Bajaj,2012-12-06 In continuation of Volumes 8 9 and 22 on in vitro manipulation of plant protoplasts this new volume deals with the regeneration of plants from protoplasts and genetic transformation in various species of Actinidia Amoracia Beta

Brassica Cicer Citrus Cucumis Duboisia Fragaria Glycine Ipomoea Lactuca Lotus Lycopersicon Manihot Medicago Nicotiana Petunia Phaseolus Pisum Prunus Psophocarpus Saccharum Solanum Sorghum Stylosanthes and Vitis These studies reflect the far reaching implications of protoplast technology in genetic engineering of plants They are of special interest to researchers in the field of plant tissue culture molecular biology genetic engineering and plant breeding *Trees IV* Y. P. S. Bajaj, 2013-11-11 This volume presents twenty four chapters on the biotechnology of trees and deals with the importance distribution conventional propagation micropropagation review of tissue culture studies in vitro culture and genetic manipulation of forest fruit and ornamental trees such as various species of Acrocomia Ailanthus Anacardium Allocasuarina Carya Casuarina Coffea Cyphomandra Fagus Feijoa Fraxinus Gymnocladus Leptospermum Metroxylon Oxydendrum Paeonia Paulownia Pouteria Psidium Quercus Included are also five chapters on gymnosperm trees such as Abies fraseri Cephalotaxus Pinus durangensis P greggii P halepensis P pinea and Tetraclinis articulata Trees IV is a valuable reference book for scientists teachers and students of forestry botany genetics and horticulture who are interested in tree biotechnology Cryopreservation of Plant Germplasm I Y. P. S. Bajaj, 2013-03-09 The germ plasm of numerous plant species especially those of forest trees some agricultural crops and medicinal plants is endangered and threatened with extinction This depletion of germplasm pools and the shrinkage of naturally occurring genetic resources have caused international concern Conventionally the germplasm of plants is conserved through seeds tubers roots corms rhizomes bulbs cuttings etc However the germ plasm of a number of trees and plantation crops such as coconut cocoa coffee oil palm rubber mango horse chestnut etc cannot be preserved since their seed are short lived recalcitrant Likewise germplasm of vegetatively propagated crops such as potato and cassava cannot be stored on a long term basis and has to be grown and multiplied periodically in nurseries and fields The plants are thus exposed to unpredictable weather conditions and diseases with the result that instances are known where entire genetic stocks are lost Therefore unconventional methods are being developed for the storage and international exchange of germplasm For this purpose in vitro cultures have been employed but they can only enable short to medium term preservation moreover cell cultures upon repeated subculture undergo genetic erosion In view of the recent developments in the in vitro induction of genetic variability through somaclonal variation somatic hybridization recombinant DNA technology etc new methods need to be employed for the storage of desirable cultures In this regard freeze preservation of cells in liquid nitrogen 196 0q like that of semen enables long term storage theoretically for an indefinite period of time *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

Plant Protoplasts and Genetic Engineering V Professor Dr. Y. P. S. Bajaj, 2013-03-14 In continuation of Volumes 8 9 22 and 23 this new volume deals with the regeneration of plants from isolated protoplasts and genetic transformation in various species of Actinidia Allocasuarina Anthurium Antirrhinum Asparagus Beta Brassica Carica Casuarina Cyphomandra Eucalyptus Ipomoea Larix Limonium Liriodendron Malus Musa Physcomitrella Physalis Picea Rosa Tagetes Triticum and Ulmus These studies reflect the far reaching implications of protoplast technology in genetic engineering of plants The book contains a wealth of useful information for advanced students teachers and researchers in the field of plant tissue culture molecular biology genetic engineering plant breeding and general biotechnology

Somatic Embryogenesis and Synthetic Seed II Y. P. S. Bajaj, 2012-12-06 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 Medicinal and Aromatic Plants VII Professor Dr. Y. P. S. Bajaj, 2013-11-11 27 chapters cover the distribution economic importance conventional propagation micropropagation tissue culture studies and in vitro production of important medicinal and other pharmaceutical compounds in various species of Anchusa Brucea Catharanthus Chrysanthemum Coleus Corydalis Coreopsis Emilia Ginkgo Gloriosa Hypericum Inonotus Leucosceptrum Lilium Linum Mosses Nandina Penstemon Prunus Pteridium Quassia Ribes Senecio Taraxacum Thermopsis Vanilla and Vitiveria Like the previous five volumes on medicinal and aromatic plants Volumes 4 7 15 21 and 24 this book contains a wealth of useful information for advanced students and researchers in the field of plant biotechnology and chemical engineering pharmacy botany and tissue culture Plant Protoplasts and Genetic Engineering III Y. P. S. Bajaj, 2012-12-06 In continuation of Volumes 8 and 9 1989 on in vitro manipulation of plant protoplasts this new volume deals with the regeneration of plants from protoplasts and genetic transformation in various species of Agrostis Arabidopsis Atropa Brassica Catharanthus Datura Cucumis Daucus Digitalis Duboisia Eustoma Festuca Helianthus Hordeum Kalanchoe Linum Lobelia Lolium Lotus Lycium Lycopersicum Mentha Nicotiana Pelargonium Pisum Pyrus Salvia Scopolia and Solanum These studies reflect the far reaching implications of protoplast technology in genetic engineering of plants They are of special interest to researchers in the field of plant tissue culture molecular biology genetic engineering and plant breeding Medicinal and Aromatic Plants VI Y.P.S Bajaj, 2012-12-06 27 chapters cover the distribution economic importance conventional propagation micropropagation tissue culture studies and in vitro production of important medicinal and other pharmaceutical compounds in various species of Anchusa Brucea Catharanthus Chrysanthemum Coleus Corydalis Coreopsis Emilia Ginkgo Gloriosa Hypericum Inonotus Leucosceptrum Lilium Linum Mosses Nandina Penstemon Prunus Pteridium Quassia Ribes Senecio Taraxacum Thermopsis Vanilla and Vitiveria Like the previous five volumes on medicinal and aromatic plants Volumes 4 7 15 21 and 24 this book contains a wealth of useful information for advanced students and researchers in the field of plant biotechnology and chemical engineering pharmacy botany and tissue culture Maize Y. P. S. Bajaj, 2012-12-06 Forty chapters deal with various aspects of tissue culture in vitro manipulation and other biotechnological approaches to the improvement of maize They are arranged in eight sections In Vitro Technology Callus Cultures and Regeneration of Plants Somatic Embryogenesis Wide Hybridization Embryo Ovule and Inflorescence Culture in Vitro Fertilization Production of Haploids and Double Haploids Anther and Pollen Culture Protoplast Culture Genetic Transformation Somaclonal Variation and Mutations Molecular Biology and Physiological Studies Proteins and Nutritional Improvement Pollen Storage Cryopreservation of Germplasm Medicinal and Aromatic Plants V Y. P. S. Bajaj, 2012-12-06 27 chapter cover the distribution economic importance conventional propagation micropropagation tissue culture and in vitro production of important medicinal and pharmaceutical compounds in various species of Ajuga Allium Ambrosia Artemisia Asplia

Atractylodes Callitris Choisya Cinnamomum Coluria Cucumis Drosera Daucus Eustoma Fagopyrum Hibiscus Levisticum Onobrychis Orthosiphon Quercus Sanguinaria Solanum Sophora Stauntonia Tanacetum Vetiveria and Vitis Like the previous volumes 4 7 15 and 21 in the Medicinal and Aromatic Plants series the volume is tailored to the need of advanced students teachers and research scientists in the area of plant biotechnology and bioengineering pharmacy botany and biochemistry

Somatic Hybridization in Crop Improvement I Y. P. S. Bajaj, 2012-12-06 Thirty five chapters on various aspects of fusion of plant protoplasts and somatic hybridization deal with the regeneration of interspecific and intergeneric somatic hybrids and cybrids in various plants cereals grasses legumes potato tomato eggplant lettuce Brassica Datura Hyoscyamus Nicotiana Catharanthus Rauwolfia Citrus Poncirus Prunus Pyrus Populus algae bryophytes and ferns The implications of somatic hybridization in gene transfer in wide crosses and for the induction of genetic variability in various crops are discussed The book is an invaluable source of information for advanced students teachers and research scientists in the field of plant breeding genetic engineering plant tissue culture and general plant biotechnology

Rice Y. P. S. Bajaj, 2012-12-06 Rice is the most important cereal crop which feeds more than half the population of the world It is being grown in more than 144 641 million ha with a production of over 468 275 million tons in 1988 Rice is attacked by a large number of pests and diseases which cause an enormous loss in its yield Therefore the major objectives in rice breeding are the development of disease resistance tolerance to insects adverse soil water and drought and improvement of quality including increased protein content Tremendous efforts being made at the International Rice Research Institute have resulted in the release of improved varieties It is estimated that the world's annual rice production must increase from 460 million tons in 1987 to 560 million tons by the year 2000 and to 760 million tons by 2020 a 65% increase in order to keep up with the population growth IRRI Rice Facts 1988 To achieve this gigantic goal new strategies have to be evolved Since the success of any crop improvement program depends on the extent of genetic variability in the base population new techniques need to be developed not only to generate the much needed variability but also for its conservation In this regard the progress made in the biotechnology of rice during the last 5 years has amply demonstrated the immense value of innovative approaches for further improvement of this crop

Trees III Y. P. S. Bajaj, 2013-04-17 After the 1986 and 1989 volumes this is the third volume on biotechnology for propagation of trees Comprising 28 chapters contributed by international experts the book deals with fruit ornamental and forest trees such as Black cherry Sour cherry Pomegranate Loquat Ficus Yellow poplar Horse chestnut Judas tree Linden tree Saskatoons Taiwan sassafras Plane tree Rattans Bamboos Engelmann spruce White spruce Larches Hinoki cypress Western redcedar and various types of pines i e Jack Caribbean Eldarica Slash Egg cone Maritime Ponderosa Eastern white Loblolly pine Trees III is an excellent reference book for scientists educators and students of forestry botany genetics and horticulture who are interested in tree biotechnology

Molecular Marker Systems in Plant Breeding and Crop Improvement Horst Lörz, Gerhard Wenzel, 2008-11-01 Successful release of new and better crop varieties

increasingly requires genomics and molecular biology This volume presents basic information on plant molecular marker techniques from marker location up to gene cloning The text includes a description of technical approaches in genome analysis such as comparison of marker systems positional cloning and array techniques in 19 crop plants

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