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# **Biotechnology in Agriculture and Forestry 39**

High-Tech and Micropropagation V

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Edited by Y. P. S. Bajaj



Springer

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# High Tech And Micropropagation V Biotechnology In Agriculture And Forestry

**K. Suzuki,K. Ishii,S. Sakurai,S. Sasaki**



## **High Tech And Micropropagation V Biotechnology In Agriculture And Forestry:**

**Biotechnology, Forestry and Forest Products** Raymond Dobert,1995 *High-Tech and Micropropagation V* Y.P.S. Bajaj,1997-03-06 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

**Biotechnology** Robin Emrich,1995-07 157 citations in English covering biotechnology bioengineering transgenic recombinant DNA or genetic engineering in forests trees Most citations have abstracts *Tissue Culture* Henry Gilbert,1995-08 A collection of 273 citations in English on the topic of tissue culture in plants including embryos pollen cell suspension buds in vitro culture etc Most citations have abstracts Author and subject index **Recent Advances in Plant Biotechnology and Its Applications** Ashwani Kumar,Sudhir K. Sopory,2008 This book is divided into five sections The first section deals with the methodology and bioresource generation techniques related to genetic engineering and gene transfer to the nuclear genome and chloroplast genome The new techniques of genome profiling and gene silencing are also presented The second section of the book covers the classical aspect of plant biotechnology viz tissue culture and micropropagation Use of genetic engineering via Agrobacterium and direct transfer of DNA through particle bombardment to develop transformed plants in Artemisia castor and orchids and production of recombinant proteins in plant cells have been dealt with in the third section The fourth section addresses the abiotic and biotic stress tolerance in plants The basic biology of some of the stress responses and designing plants for stress tolerance is discussed in this section The fifth section examines medicinal plants and alkaloid production **Industrial Biotechnology** Mukesh Yadav,Vikas Kumar,Nirmala Sehrawat,2019-10-08 Industrial Biotechnology summarizes different aspects of plant biotechnology such as using plants as sustainable resources phytomedical applications phytoremediation and genetic engineering of plant systems These topics are discussed from an academic as well industrial perspective and thus highlight recent developments but also practical aspects of modern biotechnology Transgenic Crops V Eng Chong Pua,Michael R. Davey,2007-08-16 The status of crop biotechnology before 2001 was reviewed in Transgenic Crops I III but recent advances in plant cell and molecular biology have prompted the need for new volumes This volume is devoted to fruit trees and beverage crops It presents the current knowledge of plant biotechnology as an important tool for crop improvement and includes up to date methodologies

*Quick Bibliography Series* ,1976 **Studies in Natural Products Chemistry** Atta-ur Rahman,2021-09-22 Studies in Natural Products Chemistry Volume 71 covers the synthesis testing and recording of the medicinal properties of natural

products providing cutting edge accounts of the fascinating developments in the isolation structure elucidation synthesis biosynthesis and pharmacology of a diverse array of bioactive natural products With the rapid developments in spectroscopic techniques and accompanying advances in high throughput screening techniques it has become possible to isolate and then determine the structures and biological activity of natural products rapidly thus opening up exciting opportunities in the field of new drug development to the pharmaceutical industry Natural products in the plant and animal kingdom offer a huge diversity of chemical structures that are the result of biosynthetic processes that have been modulated over the millennia through genetic effects hence users will find the detailed information in this book to be a great resource on the topics covered Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores

Breeding of Neglected and Under-Utilized Crops, Spices, and Herbs Sergio Ochatt, 2007-01-06 This book includes 20 different chapters where the authors have addressed various aspects of the cultivation taxonomy socio economic importance and breeding and development as applied to neglected and underutilized crops The first chapter deals with the more general aspects of the cultivation and propagation of these crops thirteen chapters co

*Medicinal and Aromatic Plants XII* Y. P. S. Bajaj, Toshiyuki Nagata, Yutaka Ebizuka, 2002-04-24 Deals with the distribution importance conventional propagation micropropagation tissue culture study and in vitro production of important medicinal and pharmaceutical compounds in plants

**Plantation Technology in Tropical Forest Science** K. Suzuki, K. Ishii, S. Sakurai, S. Sasaki, 2006-06-18 This book is intended to be a record of the Biotechnology Assisted Re Afforestation Project in the Asia Pacific Region BIO REFOR since 1992 conducted in cooperation with the International Union of Forest Research Organizations IUFRO The purpose of the project is to promote exchanges of information of fundamental research on indigenous species in the Asia Pacific Region in order to restore natural forests The production cultivation and maintenance of forest tree species provide highly sustainable production systems that conserve soils the microenvironment and biodiversity The key technology for biomass production of forests is propagation via micropropagation or traditional propagation However there are many recalcitrant species among useful forest trees to be propagated in large numbers Recent advances in mycorrhizal technology and in vitro culture have made it possible to commercially propagate useful trees for re afforestation In this book comprehensive information is provided on propagation mycorrhizal inoculation and reforestation of economically and environmentally important forest trees information that usually is available only in widely scattered resources Here we include a wide area of the ecology and physiology of dipterocarps as a general overview and then cover propagation techniques mycorrhizal symbiosis man made forests and biodiversity in the Asia Pacific region

Transgenic Crops I Y.P.S. Bajaj, 2012-12-06 Recently there has been tremendous progress in the genetic transformation of agricultural crops and plants resistant to insects herbicides and diseases have been produced field tested and patented Transgenic Crops I compiles this information on cereals grasses legumes and oilseed crops It comprises 25 chapters and is

divided into two sections I Cereals and Grasses wheat rice maize barley sorghum pearl millet triticale Agrostis spp Cenchrus ciliaris Dactylis glomerata Festuca arundinacea Lolium spp and sugarcane II Legumes and Oilseed Crops Arachis hypogaea Brassica juncea Brassica napus Cicer arietinum Glycine max Gossypium hirsutum Helianthus annuus Lens culinaris Linum usitatissimum Sinapis alba Trifolium and Vicia narbonensis This book is of special interest to advanced students teachers and research workers in the field of plant breeding genetics molecular biology plant tissue culture and plant biotechnology in general European Collections of Vegetatively Propagated Allium Lorenzo Maggioni, 2002 **Plant Protoplasts and**

**Genetic Engineering VI** Y.P.S Bajaj, 2012-12-06 This volume comprising 28 chapters on the in vitro manipulation of plant protoplasts contributed by international experts deals with the isolation fusion culture immobilization cryopreservation and ultrastructural studies on protoplasts and the regeneration of somatic hybrids and cybrids **Improving Crop**

**Productivity in Sustainable Agriculture** Narendra Tuteja, Sarvajeet S. Gill, Renu Tuteja, 2012-10-11 An up to date overview of current progress in improving crop quality and quantity using modern methods With a particular emphasis on genetic engineering this text focusses on crop improvement under adverse conditions paying special attention to such staple crops as rice maize and pulses It includes an excellent mix of specific examples such as the creation of nutritionally fortified rice and a discussion of the political and economic implications of genetically engineered food The result is a must have hands on guide ideally suited for the biotech and agro industries **Plant Protoplasts and Genetic Engineering VII** Y. P. S.

Bajaj, 2013-03-14 Twenty seven chapters deal with the regeneration of plants from protoplasts and genetic transformation in various species of Agrostis Allium Anthriscus Asparagus Avena Boehmeria Carthamus Coffea Funaria Geranium Ginkgo Gladiolus Helianthus Hordeum Lilium Lithospermum Mentha Panax Papaver Passiflora Petunia Physocomitrella Pinus Poa Populus Rubus Saintpaulia and Swertia These studies reflect the far reaching implications of protoplast technology in genetic engineering of plants This volume is of special interest to advanced students teachers and research scientists in the field of plant tissue culture molecular biology genetic engineering plant breeding and general plant biotechnology Plant Tissue Culture Engineering S. Dutta Gupta, Yasuomi Ibaraki, 2006-07-10 It is my privilege to contribute the foreword for this unique volume entitled Plant Tissue Culture Engineering edited by S Dutta Gupta and Y Ibaraki While there have been a number of volumes published regarding the basic methods and applications of plant tissue and cell culture technologies and even considerable attention provided to bioreactor design relatively little attention has been afforded to the engineering principles that have emerged as critical contributions to the commercial applications of plant biotechnologies This volume Plant Tissue Culture Engineering signals a turning point the recognition that this specialized field of plant science must be integrated with engineering principles in order to develop efficient cost effective and large scale applications of these technologies I am most impressed with the organization of this volume and the extensive list of chapters contributed by expert authors from around the world who are leading the emergence of this interdisciplinary enterprise The editors are to be commended for

their skilful crafting of this important volume The first two parts provide the basic information that is relevant to the field as a whole the following two parts elaborate on these principles and the last part elaborates on specific technologies or applications *Thidiazuron: From Urea Derivative to Plant Growth Regulator* Naseem Ahmad, Mohammad Faisal, 2018-03-23

Plant biotechnology is a most interesting branch for academicians and researchers in recent past Now days it becomes a very useful tool in agriculture and medicine and is regarded as a popular area of research especially in biological sciences because it makes an integral use of biochemistry molecular biology and engineering sciences in order to achieve technological application of cultured tissues cell and microbes Plant tissue culture PTC refers to a technique of cultivation of plant cells and other parts on artificial nutrient medium in controlled environment under aseptic conditions PTC requires various nutrients pH carbon source gelling agent temperature photoperiod humidity etc and most importantly the judicious use of plant growth regulators Various natural adenine and phenyl urea derivatives are employed for the induction and proliferation of different types of explants Several phenyl urea derivatives were evaluated and it was observed that thidiazuron n phenyl N 1 2 3 thidiazol 5 ulurea was found to be the most active among the plant growth regulators Thidiazuron TDZ was initially developed as a cotton defoliant and showed high cytokinin like activity In some examples its activity was 100 times more than BA in tobacco callus assay and produces more number of shoots in cultures than Zeatin and 2iP TDZ also showed major breakthrough in tissue culture of various recalcitrant legumes and woody species For the last two decades number of laboratories has been working on TDZ with different aspect and number of publications has come out To the best of our knowledge there is no comprehensive edited volume on this particular topic Hence th e edited volume is a deed to consolidate the scattered information on role of TDZ in plant tissue culture and genetic manipulations that would hopefully prove informative to various researches Thidiazuron From Urea Derivative to Plant Growth Regulator compiles various aspects of TDZ in Plant Tissue Culture with profitable implications The book will provides basic material for academicians and researchers who want to initiate work in this fascinating area of research The book will contain 26 chapters compiled by International dignitaries and thus giving a holistic view to the edited volume 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 stimu lating 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.

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