

METHODS IN MOLECULAR BIOLOGY™

Volume 286

Transgenic Plants

Methods and Protocols

Edited by

Leandro Peña



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Transgenic Plants Methods And Protocols Methods In Molecular Biology

Anthony P. Davenport



Transgenic Plants Methods And Protocols Methods In Molecular Biology:

Transgenic Plants Leandro Peña, 2008-02-05 The aim of Transgenic Plants Methods and Protocols is to provide a source of information to guide the reader through a wide range of frequently used broadly applicable and easily reproducible techniques involved in the generation of transgenic plants Its step by step approach covers a series of methods for genetically transforming plant cells and tissues and for recovering whole transgenic plants from them The volume then moves on to the use of selectable and reporter markers positive selection marker elimination after recovery of transgenic plants and the analysis of transgene integration expression and localization in the plant genome Although contributors usually refer to model plants in most chapters the protocols described herein should be widely applicable to many plant species The last two sections are devoted to methods of risk assessment and to exploring the current and future applications of transgenic technology in agriculture and its social implications in a case study Transgenic Plants Methods and Protocols is divided into six major sections plus an introduction comprising 27 chapters Part I the Introduction is a review of the past present and perspectives of the transgenic plants from the discovery of *Agrobacterium tumefaciens* as a feasible transformation vector to its use as a tool to study gene expression and function and the current and possible future applications of this technology in agriculture industry and medicine

Transgenic Plants Yelda Ozden Çiftçi, 2012-03-07 Development of efficient transformation protocols is becoming a complementary strategy to conventional breeding techniques for the improvement of crops Thus Transgenic Plants Advances and Limitations covers the recent advances carried on improvement of transformation methods together with assessment of the impact of genetically transformed crops on biosafety Each chapter has been written by one or more experienced researchers in the field and then carefully edited to ensure thoroughness and consistency

Recombinant Proteins from Plants Jacqueline MacDonald, Igor Kolotilin, Rima Menassa, 2016 This volume provides up to date scientific achievements from the world's top researchers Recombinant Proteins from Plants Methods and Protocols Second Edition guides readers through protocols for use with a variety of plant expression systems Various aspects of production are covered including vector selection and cloning product improvements for stability glycosylation and antibiotic free selection extraction and scale up and analysis of transgenic plants and their recombinant proteins Written for the Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Recombinant Proteins from Plants Methods and Protocols Second Edition is an ideal reference for those who are interested in plant molecular biology and molecular farming

Transgenic Plants Nitish Kumar, 2025-09-30 This detailed volume explores methods used in the development of transgenic plants The book presents techniques for genetically altering plant tissues and cells as well as for obtaining entire transgenic plants from them The creation of new vectors the use of chloroplast engineering and the most recent advances in this field such as plant genome editing are also

covered Written for the highly successful Methods in Molecular Biology format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips for troubleshooting and avoiding known pitfalls Timely and practical Transgenic Plants Methods and Protocols serves as an ideal guide for the development of transgenic crop plants and their application for improving agriculture environment ecology and health

Receptor Binding Techniques Anthony P. Davenport, 2008-02-02 A comprehensive collection of readily reproducible methods for studying receptors in silico in vitro and in vivo These cutting edge techniques cover mining from curated databases identifying novel receptors by high throughput screening molecular methods to identify mRNA encoding receptors radioligand binding assays and their analysis quantitative autoradiography and imaging receptors by positron emission tomography PET Highlights include phenotypic characterization of receptors in knockout mice imaging receptors using green fluorescent protein and fluorescent resonance energy transfer and quantitative analysis of receptor mRNA by TaqMan PCR This book equips the researcher with techniques for exploring the unprecedented number of new receptor systems now emerging and the so called orphan receptors whose activating ligand has not been identified

Advances in Plant Transgenics: Methods and Applications Ramalingam Sathishkumar, Sarma Rajeev Kumar, Jagadeesan Hema, Venkidasamy Baskar, 2019-11-15 The green revolution led to the development of improved varieties of crops especially cereals and since then classical or molecular breeding has resulted in the creation of economically valuable species Thanks to recent developments in genetic engineering it has become possible to introduce genes from different sources such as bacteria fungi viruses mice and humans to plants This technology has made the scientific community aware of the critical role of transgenics not only as a means of producing stress tolerant crops but also as a platform for the production of therapeutics through molecular farming This book discusses the commercial applications of plant transgenic technologies including the use of transgenic cell culture approaches to improve the production of metabolites and high value therapeutics as well as transgenic plants in pest management It also explores generation of novel vectors protein production using chloroplast engineering and the latest developments in this area such as genome editing in plants Featuring general discussions and research papers by leading international experts it is a valuable resource for scientists teachers students and industrialists working in the field

Gene Expression Profiling Richard A. Shimkets, 2008-02-03 Leading scientists in gene expression methodology and bioinformatics data analysis describe readily reproducible methods for measuring RNA levels in cells and tissues The techniques presented include new methods for applying the Affymetrix GeneChip SAR SAGE StaRT PCR SSH the Invader Assay and ADGEM The authors also provide critical bioinformatics insight and resources for data analysis and management By distilling the basic underlying principles of many methods to a few straightforward concepts

investigators can easily choose the method most appropriate to their application Protein-Protein Interactions Haian Fu, 2008-02-03 As the mysteries stored in our DNA have been more completely revealed scientists have begun to face the

extraordinary challenge of unraveling the intricate network of protein-protein interactions established by that DNA framework. It is increasingly clear that proteins continuously interact with one another in a highly regulated fashion to determine cell fate such as proliferation, differentiation or death. These protein-protein interactions enable and exert stringent control over DNA replication, RNA transcription, protein translation, macromolecular assembly and degradation and signal transduction. Essentially, all cellular functions involve protein-protein interactions. Thus, protein-protein interactions are fundamental for normal physiology in all organisms. Alteration of critical protein-protein interactions is thought to be involved in the development of many diseases such as neurodegenerative disorders, cancers and infectious diseases. Therefore, examination of when and how protein-protein interactions occur and how they are controlled is essential for understanding diverse biological processes as well as for elucidating the molecular basis of diseases and identifying potential targets for therapeutic interventions. Over the years, many innovative biochemical, biophysical, genetic and computational approaches have been developed to detect and analyze protein-protein interactions. This multitude of techniques is mandated by the diversity of physical and chemical properties of proteins and the sensitivity of protein-protein interactions to cellular conditions.

Agrobacterium Protocols Kan Wang, 2008-02-04 *Agrobacterium tumefaciens* is a soil bacterium that for more than a century has been known as a pathogen causing the plant crown gall disease. Unlike many other pathogens, *Agrobacterium* has the ability to deliver DNA to plant cells and permanently alter the plant genome. The discovery of this unique feature 30 years ago has provided plant scientists with a powerful tool to genetically transform plants for both basic research purposes and for agricultural development. Compared to physical transformation methods such as particle bombardment or electroporation, *Agrobacterium*-mediated DNA delivery has a number of advantages. One of the features is its propensity to generate a single or a low copy number of integrated transgenes with defined ends. Integration of a single transgene copy into the plant genome is less likely to trigger gene silencing, often associated with multiple gene insertions. When the first edition of *Agrobacterium Protocols* was published in 1995, only a handful of plants could be routinely transformed using *Agrobacterium*. *Agrobacterium*-mediated transformation is now commonly used to introduce DNA into many plant species, including monocotyledon crop species that were previously considered non-hosts for *Agrobacterium*. Most remarkable are recent developments indicating that *Agrobacterium* can also be used to deliver DNA to non-plant species, including bacteria, fungi and even mammalian cells.

Agricultural Biocatalysis Peter Jeschke, Evgeni B. Starikov, 2022-12-22 Agricultural biocatalysis is of immense scientific interest nowadays owing to its increasing importance in the efforts for more sustainable agriculture while optimizing environmental impacts. Plant compatibility is essential for developing eco-friendly and sustainable microbial products. Therefore, our search for novel technologies ought to be in the foreground for which a thorough understanding of biochemical processes, application of agricultural enzymes, traits and viruses get the highest priority. Volumes 8 to 10 in this series compile the recent research on agricultural biocatalysis by interdisciplinary teams.

from international institutes for chemistry biochemistry biotechnology and materials and chemical engineering who have been investigating agricultural biocatalytic topics related to biochemical conversions or bioremediation and modern biological and chemical applications exemplified by the use of selected and highly innovative agricultural enzymes traits and viruses The editors are prominent researchers in agrochemistry and theoretical biophysical chemistry and these three volumes are useful references for the students and researchers in the fields of agrochemistry biochemistry biology biophysical chemistry natural product chemistry materials and drug design Volume 9 covers the research on plant and soil enzymes herbicide tolerant traits biochemical conversions including aspects from bioremediation plant viruses and evaluation of the agricultural enzymes market

Biotechnology in Agriculture and Food Processing Parmjit S. Panesar, Satwinder S. Marwaha, 2013-07-23 An instructive and comprehensive overview of the use of biotechnology in agriculture and food production Biotechnology in Agriculture and Food Processing Opportunities and Challenges discusses how biotechnology can improve the quality and productivity of agriculture and food products It includes current topics such as GM foods enzymes and production of various types of food ingredients as well as basic ones such as the concept of biotechnology plant cell and tissue culture Combining coverage of agriculture and food processing the book highlights the range of biotechnology applications from farm to fork The book begins with the fundamental concepts of the role of biotechnology and genomics in agriculture and food processing Building on this it then focuses on specific applications of biotechnology in agriculture and includes chapters on plant cell and tissue culture techniques genetic transformation in crop improvement and the production of biofertilizers and biopesticides The authors cover different aspects of biotechnology in food processing such as production of fermented foods functional foods enzymes in food processing production of polysaccharides production of sweeteners biocolors and bioflavors and genetically modified foods They then examine the management of crop residues and by products of agro industries comprising mushroom production and value addition to agro industrial wastes and residues Biotechnology has been recognized as one of the key technologies for increasing economic growth With chapters written by leading experts in this field the book provides a better understanding of how biotechnology applications can reduce production costs improve productivity and enhance product quality in the agro food processing sector

Cisgenics and Transgenics Bhupendra Koul, 2022-08-31 This book presents up to date information on various vector less direct physical chemical and vector mediated indirect Agrobacterium mediated plant transformation techniques It summarizes various strategies that facilitate a gene from lower organism to be expressed in higher plants and also in silico designing of synthetic gene for higher expression It also highlights the importance of strong promoters to drive the expression of transgene s This book encompasses the advantages and drawbacks of cisgenesis and transgenesis their implications towards sustainable crop improvement and their future prospects The importance limitations challenges recent developments and future prospects of molecular pharming is also discussed The book concludes with a chapter that

summarizes the major contribution of GM crops towards global food security and economy advances in genome editing for crop improvement challenges and risk associated with the release of GM crops and the future of GM technology This book is meant for students and researchers in the field of life sciences food science and agriculture **Transgenic Cotton** Dr. Baohong Zhang,2018 **Methods for Plant Nucleus and Chromatin Studies** Célia Baroux,Christophe Tatout,2024-11-22 This volume provides a comprehensive collection of protocols that can be used to study plant chromatin structure and composition Chapters divided into five sections detail the profiling of chromatin features in relation to epigenetic regulation investigate the interaction between chromatin modifications and gene regulation and explore the 3D spatial organization of the chromatin inside the nucleus Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Methods for Plant Nucleus and Chromatin Studies Methods and Protocols aims to ensure successful results in the further study of this vital field *Plant RNA Viruses* Rajarshi Kumar Gaur,Basavaprabhu L. Patil,Ramasamy Selvarajan,2023-03-22 Plant RNA Viruses Molecular Pathogenesis and Management provides wide ranging coverage on the recognition and signaling events between plants and RNA viruses The book examines the molecular biology of signaling host virus interaction RNA virus diversity and how plants and cellular pathogens interact Sections cover Virus Diversity and Diagnosis Virus Host Interactions and Virus Management Specific chapters discuss classification and nomenclature of viruses detail the molecular characteristics of viral genomes highlight the viral manipulation of cellular key regulatory systems for successful virus infection and discuss the movement of plant viruses into plant cells Additional topics include RNA plant viruses and host interaction detection and diversity of plant RNA viruses and strategies for combating and management of plant viruses With contributions from an international group of experts the book is a comprehensive reference for those in research academia industry and anybody engaging in the study of plant viruses at the molecular level Provides an overview of virus genome and nomenclature Covers plant virus biodiversity and ecology diversity mechanisms and opportunities Examines Plant Host Virus Interaction Discusses virus vector interaction and transmission Offers strategies for virus management both traditional and modern Trends in Plant Biotechnology Siddra Ijaz,Imran Ul Haq,Hayssam Mohamed Ali,2024-06-12 This book explains the advancements of plant biotechnology and advanced molecular biology and explores the details of influential tools that complement conventional breeding and accelerate the development of plants resilient to adverse agroclimatic conditions and biofortified plants Plant biotechnology from the basic sciences to current applications such as pathway engineering precursor feeding transformation elicitation with biotic and abiotic elicitors and scaling up in bioreactors have been included in these chapters to improve the production of secondary metabolites from different medicinal plants It also highlights important factors often overlooked by methodologies used to develop plants tolerance against biotic and abiotic stresses and in

developing special foods bio chemicals and pharmaceuticals This book is valuable for researchers or students working on biosciences It is also an updated and advanced reference material for the agriculture and pharmaceutical industries

Molecular Plant Breeding Yunbi Xu,2010 Recent advances in plant genomics and molecular biology have revolutionized our understanding of plant genetics providing new opportunities for more efficient and controllable plant breeding Successful techniques require a solid understanding of the underlying molecular biology as well as experience in applied plant breeding Bridging the gap between developments in biotechnology and its applications in plant improvement Molecular Plant Breeding provides an integrative overview of issues from basic theories to their applications to crop improvement including molecular marker technology gene mapping genetic transformation quantitative genetics and breeding methodology

Amyloid Proteins Einar M. Sigurdsson,2008-02-02 A proven collection of readily reproducible techniques for studying amyloid proteins and their involvement in the etiology pathogenesis diagnosis and therapy of amyloid diseases The contributors provide methods for the preparation of amyloid and its precursors oligomers and protofibrils in vitro assays and analytical techniques for their study and cell culture models and assays for the production of amyloid proteins Additional chapters present readily reproducible techniques for amyloid extraction from tissue its detection in vitro and in vivo as well as nontransgenic methods for developing amyloid mouse models The protocols follow the successful Methods in Molecular Biology™ series format each offering step by step laboratory instructions an introduction outlining the principle behind the technique lists of the necessary equipment and reagents and tips on troubleshooting and avoiding known pitfalls

Biotechnology of Anti-diabetic Medicinal Plants Saikat Gantait,Sandeep Kumar Verma,Amit Baran Sharangi,2021-11-13 This book is a unique overview of insights on the genetic basis of anti diabetic activity chemistry physiology biotechnology mode of action as well as cellular mechanisms of anti diabetic secondary metabolites from medicinal plants The World Health Organization estimated that 80% of the populations of developing countries rely on traditional medicines mostly plant drugs for their primary health care needs There is an increasing demand for medicinal plants having anti diabetic potential in both developing and developed countries The expanding trade in medicinal plants has serious implications on the survival of several plant species with many under threat to become extinct This book describes various approaches to conserve these genetic resources It discusses the whole spectrum of biotechnological tools from micro propagation for large scale multiplication cell culture techniques to the biosynthesis and enhancement of pharmaceutical compounds in the plants It also discusses the genetic transformation as well as short to long term conservation of plant genetic resources via synthetic seed production and cryopreservation respectively The book is enriched with expert contributions from across the globe This reference book is useful for researchers in the pharmaceutical and biotechnological industries medicinal chemists biochemists botanists molecular biologists academicians students as well as diabetic patients traditional medicine practitioners scientists in medicinal and aromatic plants Ayurveda Siddha Unani and other traditional

medical practitioners **Advancement in Crop Improvement Techniques** Narendra Tuteja, Renu Tuteja, Nishat Passricha, Shabnam Saifi, 2020-06-13 Advancement in Crop Improvement Techniques presents updates on biotechnology and molecular biological approaches which have contributed significantly to crop improvement. The book discusses the emerging importance of bioinformatics in analyzing the vast resources of information regarding crop improvement and its practical application and utilization. Throughout this comprehensive resource, emphasis is placed on various techniques used to improve agricultural crops, providing a common platform for the utility of these techniques and their combinations. Written by an international team of contributors, this book provides an in-depth analysis of existing tools and a framework for new research. Reviews techniques used for crop improvement from selection and crossing over to microorganismal approaches. Explores the role of conventional biotechnology in crop improvement. Summarizes the combined approaches of cytogenetics and biotechnology for crop improvement, including the importance of molecular techniques in this process. Focuses on the emerging role of bioinformatics for crop improvement.

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