

Agrobacterium Protocols

Second Edition

Volume 2

Edited by

Kan Wang



HUMANA PRESS

Agrobacterium Protocols Volume Ii Methods In Molecular Biology

Kursad Turksen



Agrobacterium Protocols Volume II Methods In Molecular Biology:

Agrobacterium Protocols Kan Wang, 2008-02-05 *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 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.

Agrobacterium Protocols Kan Wang, 2014-11-22 Rapid changes and significant progress have been made in the *Agrobacterium* field, such as genetically transforming plants for both basic research purposes and agricultural development. In *Agrobacterium Protocols* Third Edition Volumes 1 and 2, a team of leading experts and veteran researchers describe in detail techniques for delivering DNA to plant cells and permanently altering their genomes. This edition emphasizes agricultural crops and plant species with economic values, with updated protocols on 32 plant species and protocols involving 19 new species. Together with the 1st and 2nd editions, these two volumes offer *Agrobacterium* mediated genetic transformation protocols for a total of 76 plant species. For a number of important plants, such as rice, barley, wheat, and citrus, multiple protocols using different starting plant materials for transformation are included. Volume 2 contains 29 chapters with updated techniques for industrial plants, root plants, nuts and fruits, tropical plants, and other important plant species. 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 tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge *Agrobacterium Protocols* Third Edition facilitates the transfer of this rapidly developing technology to all researchers in both fundamental and applied biology.

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

Arabidopsis Protocols, 2nd Edition Julio Salinas, Jose J. Sanchez-Serrano, 2008-02-04 For several decades *Arabidopsis thaliana* has been the organism of choice in the laboratories of many plant geneticists physiologists developmental biologists and biochemists around the world During this time a huge amount of knowledge has been acquired on the biology of this plant species which has resulted in the development of molecular tools that account for much more efficient research The significance that *Arabidopsis* would attain in biological research may have been difficult to foresee in the 1980s when its use in the laboratory started In the meantime it has become the model plant organism much the same way as *Drosophila* *Caenorhabditis* or mouse have for animal systems Today it is difficult to envision research at the cutting edge of plant biology without the use of *Arabidopsis* Since the first edition of *Arabidopsis Protocols* appeared new developments have fostered an impressive advance in plant biology that prompted us to prepare *Arabidopsis Protocols Second Edition* Completion of the *Arabidopsis* genome sequence offered for the first time the opportunity to have in hand all of the genetic information required for studying plant function In addition the development of whole systems approaches that allow global analysis of gene expression and protein and metabolite dynamics has encouraged scientists to explore new scenarios that are extending the limits of our knowledge

Tree Biotechnology Kishan Gopal Ramawat, Jean-Michel Méillon, M. R. Ahuja, 2014-04-01 Forest trees cover 30% of the earth's land surface providing renewable fuel wood timber shelter fruits leaves bark roots and are source of medicinal products in addition to benefits such as carbon sequestration water shed protection and habitat for 1/3 of terrestrial species However the genetic analysis and breeding of trees has lagged behind that of crop plants Therefore systematic conservation sustainable improvement and pragmatic utilization of trees are global priorities This book provides comprehensive and up to date information about tree characterization biological understanding and improvement through biotechnological and molecular tools

PRINS and In Situ PCR Protocols Franck Pellestor, 2008-02-03 The in situ hybridization and PCR technologies are now well established molecular techniques for studying chromosomal aneuploidy and rearrangements gene localization and expression and genomic organization Over the last decade we have seen increasing applications in these fields By combining the high sensitivity of the PCR reaction and the

cytological localization of target sequences both PRINS and in situ PCR techniques have provided highly powerful complements to FISH for in situ cellular and molecular investigations Both these approaches have several advantages in terms of sensitivity and specificity owing to the use of primers and to the fast kinetics of annealing and elongation reactions in situ In the first edition of PRINS and In Situ PCR Protocols edited by John R Gosden experts in the field presented in detail a variety of applications of PRINS and in situ PCR techniques in a wide range of clinical conditions Since the publication of this successful reference book there have been significant improvements in in situ detection techniques This completely revised and updated second edition presents a comprehensive selection of new procedures developed in the field of PRINS and in situ PCR technologies The book has two sections Part I Basic Methodology contains chapters that provide useful protocols for many variations of PRINS and in situ PCR including a new fast multicolor PRINS method and protocols for PRINS detection of unique sequences in situ

Embryonic Stem Cell Protocols Kursad Turksen, 2008-02-04 Now in two volumes this completely updated and expanded edition of Embryonic Stem Cells Methods and Protocols provides a diverse collection of readily reproducible cellular and molecular protocols for the manipulation of nonhuman embryonic stem cells Volume one Embryonic Stem Cell Protocols Isolation and Characterization Second Edition provides a diverse collection of readily reproducible cellular and molecular protocols for the isolation maintenance and characterization of embryonic stem cells The second volume Embryonic Stem Cell Protocols Differentiation Models Second Edition covers state of the art methods for deriving many types of differentiating cells from ES cells Together the two volumes illuminate for both novices and experts our current understanding of the biology of embryonic stem cells and their utility in normal tissue homeostasis and regenerative medicine applications

Genetics and Genomics of the Brassicaceae Renate Schmidt, Ian Bancroft, 2010-12-03 The Genetics and Genomics of the Brassicaceae provides a review of this important family commonly termed the mustard family or Cruciferae The family contains several cultivated species including radish rocket watercress wasabi and horseradish in addition to the vegetable and oil crops of the Brassica genus There are numerous further species with great potential for exploitation in 21st century agriculture particularly as sources of bioactive chemicals These opportunities are reviewed in the context of the Brassicaceae in agriculture More detailed descriptions are provided of the genetics of the cultivated Brassica crops including both the species producing most of the brassica vegetable crops *B. rapa* and *B. oleracea* and the principal species producing oilseed crops *B. napus* and *B. juncea* The Brassicaceae also include important model plant species Most prominent is *Arabidopsis thaliana* the first plant species to have its genome sequenced Natural genetic variation is reviewed for *A. thaliana* as are the genetics of the closely related *A. lyrata* and of the genus *Capsella* Self incompatibility is widespread in the Brassicaceae and this subject is reviewed Interest arising from both the commercial value of crop species of the Brassicaceae and the importance of *Arabidopsis thaliana* as a model species has led to the development of numerous resources to support research These are reviewed including germplasm and genomic library

resources and resources for reverse genetics metabolomics bioinformatics and transformation Molecular studies of the genomes of species of the Brassicaceae revealed extensive genome duplication indicative of multiple polyploidy events during evolution In some species such as Brassica napus there is evidence of multiple rounds of polyploidy during its relatively recent evolution thus the Brassicaceae represent an excellent model system for the study of the impacts of polyploidy and the subsequent process of diploidisation whereby the genome stabilises Sequence level characterization of the genomes of Arabidopsis thaliana and Brassica rapa are presented along with summaries of comparative studies conducted at both linkage map and sequence level and analysis of the structural and functional evolution of resynthesised polyploids along with a description of the phylogeny and karyotype evolution of the Brassicaceae Finally some perspectives of the editors are presented These focus upon the Brassicaceae species as models for studying genome evolution following polyploidy the impact of advances in genome sequencing technology prospects for future transcriptome analysis and upcoming model systems

Biotechnology of Major Cereals Huw D Jones, 2016-09-30 Biotechnology of Major Cereals will focus on the recent advances and future prospects in cereal biotechnology The first part of the book will cover the world's major cereals and focus on new developments and trends The second part will be technology rather than species led detailing fundamental developments in technologies and significant target traits

Diagnostic Bacteriology Protocols Louise O'Connor, 2008-02-05 The field of bacterial diagnostics has seen unprecedented advances in recent years The increased need for accurate detection and identification of bacteria in human animal food and environmental samples has fueled the development of new techniques The field has seen extensive research aided by the information from bacterial genome sequencing projects Although traditional methods of bacterial detection and identification remain in use in laboratories around the world there is now a growing trend toward the use of nucleic acid based diagnostics and alternative biochemically and immunologically based formats The ultimate goal of all diagnostic tests is the accurate detection identification or typing of microorganisms in samples of interest Although the resulting information is of obvious use in the areas of patient management animal health and quality control it is also of use in monitoring routes of infection and outlining strategies for infection control There is therefore a need to ensure that the information being provided is of the highest standard and that any new technique is capable of delivering this

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