

Methods in
Molecular Biology 2200

Springer Protocols

A microscopic image of Arabidopsis root cells, showing a grid-like structure of cells with prominent blue nuclei, set against a purple background.

Jose J. Sanchez-Serrano
Julio Salinas *Editors*

Arabidopsis Protocols

Fourth Edition

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Arabidopsis Protocols Methods In Molecular Biology

John M. Walker



Arabidopsis Protocols Methods In Molecular Biology:

Arabidopsis Protocols Jose J. Sanchez-Serrano, Julio Salinas, 2013-09-21 Arabidopsis Protocols Third Edition compiles some of the most recent methodologies developed to exploit the Arabidopsis genome. These methodologies cover from the guided access to public resources to genetic cell biology, biochemical and physiological techniques including both those that are widely used as well as those novel techniques likely to open up new avenues of knowledge in the future. In addition, considering the recent unparalleled progress of the omics tools in Arabidopsis, leading experts have contributed sections on genome, transcriptome, proteome, metabolome and other whole system approaches. Arabidopsis thaliana is acknowledged as the most important plant model system by the scientific community and Arabidopsis research has fundamentally influenced our understanding of the basic biology and ecology of plants. Written in the 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 protocols and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Arabidopsis Protocols Third Edition seeks to serve both experienced researchers and beginners with its detailed methodologies on this burgeoning scientific field. **Methods in Molecular Biology: Arabidopsis protocols** John M.

Walker, 1984. 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. **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

Physiological and Molecular Aspects of Plant Rootstock-Scion Interactions Rosario Paolo Mauro, Francisco Perez-Alfocea, Sarah Jane Cookson, Nathalie Ollat, Alessandro Vitale, 2022-02-11 *Molecular Methods in Developmental Biology* Matt

Guille, 2008-02-03 The process whereby a single cell the fertilized egg develops into an adult has fascinated for centuries Great progress in understanding that process has ever been made in the last two decades when the techniques of molecular biology have become available to developmental biologists By applying these techniques the exact nature of many of the interactions responsible for forming the body pattern are now being revealed in detail Such studies are a large and it seems ever expanding part of most life science groups It is at newcomers to this field that this book is primarily aimed A number of different plants and animals serve as common model organisms for developmental studies In *Molecular Methods in Developmental Biology* Xenopus and Zebrafish a range of the molecular methods applicable to two of these organisms are described these are the South African clawed frog Xenopus laevis and the zebrafish Brachydanio rerio The embryos of both of these species develop rapidly and externally making them particularly suited to investigations of early vertebrate development However both Xenopus and zebrafish have their own advantages and disadvantages Xenopus have large robust embryos that can be manipulated surgically with ease but their pseudotetraploidy and long generation time make them unsuitable candidates for genetics This disadvantage may soon be overcome by using the diploid Xenopus tropicalis and early experiments are already underway The transparent embryos of zebrafish render them well suited for in situ hybridization and immunohistochemistry and good for observing mutations in genetic screens

Plant Cell Culture Protocols Víctor Loyola-Vargas, Neftalí Ochoa-Alejo, 2024-07-10 This fifth edition provides new and updated protocols on plant cell tissue and organ cultures Chapters are divided into five parts that cover topics from general methodologies statistical analysis and contamination control highly specialized techniques and laborious process of measuring the epigenetic changes in tissue cultures 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 *Plant Cell Culture Protocols* Fifth Edition

aims to ensure successful results in the further study of this vital field

Testing for Genetic Manipulation in Plants

John Flex Jackson, Hans F. Linskens, 2013-03-09 Molecular Methods of Plant Analysis Concept of the Series The powerful recombinant DNA technology and related developments have had an enormous impact on molecular biology Any treatment of plant analysis must make use of these new methods Developments have been so fast and the methods so powerful that the editors of Modern Methods of Plant Analysis have now decided to rename the series Molecular Methods of Plant Analysis This will not change the general aims of the series but best describes the thrust and content of the series as we go forward into the new millennium This does not mean that all chapters a priori deal only with the methods of molecular biology but rather that these methods are to be found in many chapters together with the more traditional methods of analysis which have seen recent advances The numbering of the volumes of the series therefore continues on from 20 which is the most recently published volume under the title Modern Methods of Plant Analysis As indicated for previous volumes the methods to be found in Molecular Methods of Plant Analysis are described critically with hints as to their limitations references to original papers and authors being given and the chapters written so that there is little need to consult other texts to carry out the All authors have been chosen because of their methods of analysis described

Plant Functional Genomics

Erich Grotewold, 2003-08-06 Functional genomics is a young discipline whose origin can be traced back to the late 1980s and early 1990s when molecular tools became available to determine the cellular functions of genes Today functional genomics is perceived as the analysis often large scale that bridges the structure and organization of genomes and the assessment of gene function The completion in 2000 of the genome sequence of *Arabidopsis thaliana* has created a number of new and exciting challenges in plant functional genomics The immediate task for the plant biology community is to establish the functions of the approximately 25 000 genes present in this model plant One major issue that will remain even after this formidable task is completed is establishing to what degree our understanding of the genome of one model organism such as the dicot *Arabidopsis* provides insight into the organization and function of genes in other plants The genome sequence of rice completed in 2002 as a result of the synergistic interaction of the private and public sectors promises to significantly enrich our knowledge of the general organization of plant genomes However the tools available to investigate gene function in rice are lagging behind those offered by other model plant systems Approaches available to investigate gene function become even more limited for plants other than the model systems of *Arabidopsis* rice and maize

Meiotic Recombination and DNA Repair: New Approaches to Solve Old Questions in Model and Non-Model Plant Species

Christophe Lambing, Mónica Pradillo, Kyuha Choi, Olivier Da Ines, 2022-10-05

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