

Stanton B. Gelvin  
Robert A. Schilperoort *Editors*

# Plant Molecular Biology Manual

# Plant Molecular Biology Manual

**USA (Ed. ). Gelvin, S. B., Purdue  
University, West Lafayette, IN**



## **Plant Molecular Biology Manual:**

**Plant Molecular Biology Manual**, 1988      **Plant Molecular Biology Manual** S.B. Gelvin, R.A.

Schilperoort, 2013-03-09 **Plant Molecular Biology Manual** Second Edition is an entirely new manual containing both fundamental and recently described techniques in the area of plant molecular biology. Designed for use in the research laboratory, the **Plant Molecular Biology Manual** presents detailed techniques in the areas of plant transformation, recombinant DNA and other nucleic acid manipulations, nuclear run-on and in vitro transcription systems, in situ hybridization and immunodetection systems, protein-nucleic acid interaction analyses, subcellular targeting of proteins in the plant cell, and gene tagging using T-DNA and transposons. This second edition contains more than 40 newly written chapters including descriptions of subjects such as virus-mediated gene transfer, specialized *Agrobacterium* strains and T-DNA vectors, nuclear run-on and in vitro transcription systems, non-radioactive detection systems, characterization of transcription factors, nuclear protein targeting and T-DNA and transposon mutagenesis, not previously described in the first edition.      **Plant Molecular Biology Manual** S. B. Gelvin, 2013-06-29 During the past ten years, great advances have been made in the area of plant molecular biology. Such formerly esoteric techniques as gene transfer and plant regeneration are now routinely performed, making the dissection of regulatory elements of genes a common practice in many laboratories. Along with this new technology has come an almost bewildering array of rapidly changing techniques, often making it difficult for the novice to select and perform the technique most appropriate for answering a given biological question. In 1986, some of us felt that many of these techniques had become routine enough to warrant the publication of a laboratory manual. The manual is designed both for advanced college-level laboratory courses and as a bench guide for use in the scientific laboratory. Recognizing the rapidly changing nature of plant molecular biology technology, the editors have designed a laboratory manual that is both easy to use in the laboratory and which will be updated as the techniques change and new technologies are devised. Additional chapters that can replace or be added to this first edition will be published periodically. The editors recognize that many of the techniques described in this manual depend upon specialized plant genetic material, microbial strains, or recombinant plasmids. Those people desiring such material should contact the relevant authors directly. A list of the various contributors to this manual, including their addresses, is included.      **Plant Molecular Biology Manual. Supplement** Stanton B. Gelvin, Robbert A. Schilperoort, Desh Pal S. Verma,      **Plant Molecular Biology Manual** Stanton B. Gelvin, 2012-11-13 Five years ago the first edition of the **Plant Molecular Biology Manual** appeared. At that time the editors felt that the field of plant molecular biology had matured to a point that the publication of a series of protocols in plant molecular biology was warranted. During the past five years the field of plant molecular biology has expanded rapidly. This expansion is among other things reflected by the presence of several journals in the plant sciences as well as by the increasing amount of plant sciences articles that are published in the more general journals. In 1991 approximately 3000

people attended the Third International Congress of Plant Molecular Biology in Tucson Arizona where more than 2000 posters were presented It is also remarkable to see that nowadays botanical and physiological meetings pay a considerable amount of attention to plant molecular biology Since the first edition of this manual appeared we have published yearly a series of supplements to the original volume These supplements covered new subjects and described new methods that had been developed With time however the editors realized that the original manual plus supplements had become cumbersome to use and we decided to publish a reorganized version of the manual Plant Molecular Biology Manual USA (Ed. ). Gelvin, S. B., Purdue University, West Lafayette, IN,2013-12-01 **Plant Molecular Biology – A Laboratory Manual** Melody S. Clark,2013-11-27 The aim of this manual is to encompass a broad range of the latest plant molecular biology techniques However it is acknowledged that any manual will be read and hopefully used by a wide range of people with different levels of experience Hence the remit of the manual was widened to include a full range of basic molecular techniques so that novices do not have to consult several texts to enable the execution of each major experiment The manual is divided into three main parts Part I Basic Molecular Techniques The raison d'être behind this part is to provide a background knowledge of molecular techniques but also to reduce duplication in later chapters this is particularly true of the methods contained in Chap 1 All authors provided very detailed methods and often forgot that some of these would be covered earlier A particular favourite was DNA extraction methods where everyone managed to provide a slightly different variant My view was that it is far less confusing for the reader to be presented with one standard protocol and accompanying troubleshooting tips than to read a different version in each chapter In this way the basic techniques are addressed more in depth and my apologies to all authors for judicious use of the delete key RNA methodology is covered in Chapter 3 This proceeds from the fundamentals of extraction northern blotting etc to cDNA libraries Plant Molecular Biology USA (Ed. ). Gelvin, S. B., Purdue University, West Lafayette, IN,1993-01-01 A comprehensive manual dealing with the molecular aspects of plant molecular biology which is designed both as a teaching aid for advanced laboratory courses and as a guide for laboratory research Subjects covered include the introduction of genes into plants assays of gene activity plant nucleic acid extraction and characterization procedures and the use of selectable and screenable markers in transgenic plants Special emphasis is placed on the use of *Agrobacterium tumefaciens* to introduce genes into plants but other gene introduction techniques are also presented Each chapter written by experts in the field includes a discussion of the background to each technique detailed protocols media and solution formulas and an extensive bibliography **Plant molecular biology: a laboratory manual** M. Clark, *Plant Molecular Biology Manual* Stanton B. Gelvin,Robbert A. Schilperoort,Desh Pal S. Verma,1991 *Plant Molecular Biology Manual* Stanton Gelvin,2012-12-06 During the past ten years great advances have been made in the area of plant molecular biology Such formerly esoteric techniques as gene transfer and plant regeneration are now routinely performed making the dissection of regulatory elements of genes a common practice in many laboratories Along with this new

technology has come an almost bewildering array of rapidly changing techniques often making it difficult for the novice to select and perform the technique most appropriate for answering a given biological question In 1986 some of us felt that many of these techniques had become routine enough to warrant the publication of a laboratory manual The manual is designed both for advanced college level laboratory courses and as a bench guide for use in the scientific laboratory Recognizing the rapidly changing nature of plant molecular biology technology the editors have designed a laboratory manual that is both easy to use in the laboratory and which will be updated as the techniques change and new technologies are devised Additional chapters that can replace or be added to this first edition will be published periodically The editors recognize that many of the techniques described in this manual depend upon specialized plant genetic material microbial strains or recombinant plasmids Those people desiring such material should contact the relevant authors directly A list of the various contributors to this manual including their addresses is included

**Plant Molecular Biology Manual** Kluwer Academic Publishers (Dordrecht),1997

Plant Biotechnology and Molecular Biology : A Laboratory Manual M.S. Punia,2018-01-01 The book A Laboratory Manual of Plant Biotechnology and Molecular Biology comprises of workable laboratory protocols for a large number of techniques related to plant biotechnology genetic engineering and molecular biology This includes plant cell and tissue culture callus and suspension culture anther culture ovule culture embryo culture Cryopreservation Isolation of Plant protoplasts Protoplast culture and regeneration production of somatic hybrids through protoplast fusion gene transformation using Agrobacterium as vector direct gene transfer using biolistic gun Isolation of plant and organelles DNA construction and screening of genomic DNA libraries Molecular markers like RFLP RAPD SCARS and CAPS DNA sequencing RNA isolation and northern blotting Isolation of proteins and western blotting etc The manual is prepared with the objective to cater the needs of post graduate students as well as for scientists working in the disciplines of Plant Breeding Genetics Botany Plant physiology Biochemistry Plant Biotechnology Molecular Biology etc It gives an update on some well established methods and presents reliable protocols

**Methods in Plant Molecular Biology** P. Maliga,1995

Plant Molecular Biology USA (Ed. ). Gelvin, S. B., Purdue University, West Lafayette, IN,2013-11-27

*Molecular Biology of Plants* R. Malmberg,1985

*Methods in Plant Molecular Biology and Biotechnology* Bernard R. Glick,2018-05-04

Methods in Plant Molecular Biology and Biotechnology emphasizes a variety of well tested methods in plant molecular biology and biotechnology For each detailed and tested protocol presented a brief overview of the methodology is provided This overview considers why the protocol is used what other comparable methods are available and what limitations can be expected with the protocol Other chapters in the book present overviews regarding how to approach particular problems and introduce unique methods such as how to use computer methodology to study isolated genes The book will be a practical reference for plant physiologists plant molecular biologists phytopathologists and microbiologists

*Molecular Biology of Plants* Joachim Messing,Ian M. Sussex,1985

Methods in Plant Molecular Biology Mary A. Schuler,Raymond E.

Zielinski, 2012-12-02 *Methods in Plant Molecular Biology* is a lab manual that introduces students to a diversity of molecular techniques needed for experiments with plant cells. Those included have been perfected and are now presented for the first time in a usable and teachable form. Because the manual integrates protein, RNA, and DNA techniques, it will serve students, teachers, and researchers in plant physiology, biophysics, and animal molecular biology who have no previous experience handling recombinant DNA or purified proteins. It can also be used by the established molecular biologist who wishes to utilize the powerful techniques of recombinant DNA to explore the mysteries of the plant kingdom. Eight basic experiments which can be used collectively or individually cover Recombinant Cloning and Screening in *E. coli*, DNA Sequencing, Plant RNA Isolation, and *In Vitro* Translations, Plant DNA Isolations, and Genomic DNA Southern Analysis, Chloroplast Isolation, and Protein Synthesis, Plant Tissue Culture, and *Agrobacterium* Transformations. Experiments that have been student tested for three years. Blueprints for setting up gel rigs. Comprehensive course schedule outlining individual procedures to be finished in each lab segment. Course can be tailored to suit the needs of the individual instructor.

**Electroporation Protocols for Microorganisms** Jac A. Nickoloff, 2008-02-02 Electroporation is one of the most widespread techniques used in modern molecular genetics. It is most commonly used to introduce DNA into cells for investigations of gene structure and function and in this regard electroporation is both highly versatile, being effective with nearly all species and cell types, and highly efficient. For many cell types electroporation is either the most efficient or the only means known to effect gene transfer. However, exposure of cells to brief high intensity electric fields has found broad application in other aspects of biological research and is now routinely used to introduce other types of biological and analytic molecules into cells to induce cell-cell fusion and to transfer DNA directly between different species. The first seven chapters of *Electroporation Protocols for Microorganisms* describe the underlying theory of electroporation, the commercially available instrumentation, and a number of specialized electroporation applications such as cDNA library construction and interspecies DNA electrotransfer. Each of the remaining chapters presents a well developed method for electrotransformation of a particular bacterial, fungal, or protist species. These chapters also serve to introduce those new to the field the important research questions that are currently being addressed with particular organisms, highlighting both the major advantages and limitations of each species as a model organism and explaining the roles that electroporation has played in the development of the molecular genetic systems currently in use.

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