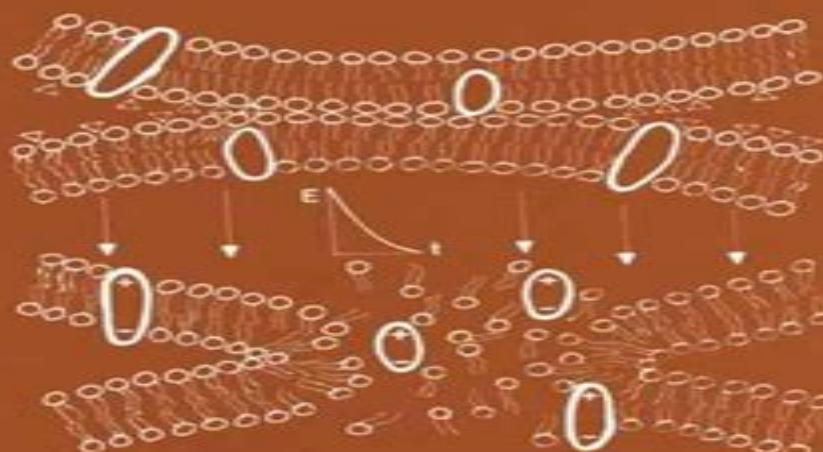


Methods in Molecular Biology™

Volume 48

ANIMAL CELL ELECTROPORATION & ELECTROFUSION PROTOCOLS

Edited by
Jac A. Nickoloff



Animal Cell Electroporation And Electrofusion Protocols

Methods In Molecular Biology

Donald Chang

Animal Cell Electroporation And Electrofusion Protocols Methods In Molecular Biology:

Animal Cell Electroporation and Electrofusion Protocols Jac A. Nickoloff,2008-02-03 The ability to introduce macromolecules into animal cells including DNA RNA proteins and other bioactive compounds has facilitated a broad range of biological studies from biochemistry and biophysics to molecular biology cell biology and whole animal studies Gene transfer technology in particular will continue to play an essential role in studies aimed at improving our understanding of the relationships between the gene structure and function and it has important practical applications in both biotechnology and biomedicine as evidenced by the current intense interest in gene therapy Although DNA and other macromolecules may be introduced into cells by a variety of methods including chemical treatments and microinjection electroporation has proven to be simpler to perform more efficient and effective with a wider variety of cell types than other techniques The early and broad success of electric field mediated DNA transfer soon prompted researchers to investigate electroporation for transferring other types of molecules into cells including RNA enzymes antibodies and analytic dyes **Animal Cell Electroporation and Electrofusion Protocols** begins with three chapters that describe the theoretical and practical aspects of electroporation including a review of the commercially available instrumentation These introductory chapters will be of particular interest to those new to electric field technologies and to those developing protocols for as yet untested species or cell types Nineteen chapters follow that present well tested protocols for electroporation of proteins and DNA into insect fish and mammalian cells

Methods in Molecular Biology: Animal cell electroporation and electrofusion protocols John M. Walker,1984

Animal Cell Electroporation and Electrofusion Protocols. Methods in Molecular Biology Jac A. Nickoloff,1995 This superb collection of well tested protocols for the electroporation of proteins and DNA into insect fish and mammalian cells also includes proven animal cell electrofusion techniques for studies of somatic cell genetics and development and for generating monoclonal antibodies It is distinguished by its coverage of important model cell types from many organisms and tissue types and its detailed instructions for the growth and preparation of specific cells to achieve optimum transfection Its extensive reference lists citations of alternative transfer methods advice on pitfalls to avoid and descriptions of expected results ensure readily reproducible results even for beginners

Biological and Medical Aspects of Electromagnetic Fields Frank S. Barnes,Ben Greenebaum,2018-10-03 Biological and Medical Aspects of Electromagnetic Fields examines potential health hazards exposure standards and medical applications of electromagnetic EM fields The second volume in the bestselling and newly revised *Handbook of Biological Effects of Electromagnetic Fields* Third Edition this book draws from the latest studies on the effects of exposure to electric and magnetic fields In addition to extensive reviews of physiological effects the book contains now separate reviews of behavioral and cognitive responses to various exposures The book also describes an approach to setting standards for exposure limits and explores a few of the beneficial uses of EM fields in medical applications both diagnostics and in treatment *Biological and Medical Aspects of*

Electromagnetic Fields provides a practical overview of the experiments and methods used to observe ELF and RF fields and the possible useful and hazardous implications of these observations *Capillary Electrophoresis Guidebook* Kevin D. Altria, 2008-02-02 This book is intended to be a working guide to the operation of capillary electrophoresis CE instrumentation Since CE is still a rapidly maturing technique detailed validated protocols are not widely established Therefore extensive experimental procedures are not provided for individual analyses The intention is to provide general guide lines on the principles and practice of CE and to give an overview of the specific technologies and important application areas Part I provides operating instructions for standard commercially available instruments Guidelines are included for activities such as changing capillaries method development quantitative procedures optimization of precision and sensitivity and the validation of methods fraction collection and troubleshooting as well as a quick guide to running a separation The application range of CE is possibly the most diverse of all analytical techniques and ranges from large complex macromolecules such as proteins and nucleic acids to small solutes such as organic drugs and inorganic anions and cations *Biological and Medical Aspects of Electromagnetic Fields, Fourth Edition* Ben Greenebaum, Frank Barnes, 2018-11-01

The two volumes of this new edition of the Handbook cover the basic biological medical physical and electrical engineering principles They also include experimental results concerning how electric and magnetic fields affect biological systems both as potential hazards to health and potential tools for medical treatment and scientific research They also include material on the relationship between the science and the regulatory processes concerning human exposure to the fields Like its predecessors this edition is intended to be useful as a reference book but also for introducing the reader to bioelectromagnetics or some of its aspects FEATURES New topics include coverage of electromagnetic effects in the terahertz region effects on plants and explicitly applying feedback concepts to the analysis of biological electromagnetic effects Expanded coverage of electromagnetic brain stimulation characterization and modeling of epithelial wounds and recent lab experiments on at all frequencies Section on background for setting standards and precautionary principle Discussion of recent epidemiological laboratory and theoretical results including WHO IARC syntheses of epidemiological results on both high and low frequency fields IITRI lab study of cancer in mice exposed to cell phone like radiation and other RF studies All chapters updated by internationally acknowledged experts in the field Guide to Electroporation and Electrofusion Donald Chang, 1991-12-11 Guide to Electroporation and Electrofusion is designed to cover all relevant topics pertaining to both electroporation and electrofusion Divided into four major parts the book covers fundamental aspects as well as more advanced aspects of the electroporation electrofusion relationship The book first covers the basic principles and fundamentals by presenting the most recent theoretical and experimental studies from various fields such as physics chemistry and biology Next the book tackles the applications of electroporation and electrofusion in biology such as transferring manipulating and transforming genetic materials In the third section the book discusses experimental protocols

to serve as a guide when performing experiments using electroporation and electrofusion. The final section discusses the instruments needed to effectively perform an experiment that involves electroporation and electrofusion. This book will be of great use to both novice and advanced researchers whose work involves electroporation and electrofusion as it provides comprehensive information regarding these topics. *PCR in Bioanalysis* Stephen J Meltzer, 2008-02-03 *PCR in Bioanalysis* offers powerful PCR based protocols and assays in actual use or potential use in clinical medicine and commercial biology. The main focus of the book is on the commercial applications of PCR as opposed to basic research uses. Topics covered include the measurement of hormone levels using PCR, transcription factor isolation, detection of viruses using PCR, detection of tumor contamination of stem cells, evaluation of grafts for tumor cells and more. *Plant Virology Protocols* Gary D. Foster, Sally Taylor, 2008-02-03 The aim of *Plant Virology Protocols* is to provide a source of information to guide the reader through the wide range of methods involved in generating transgenic plants that are resistant to plant viruses. To this end we have commissioned a wide ranging list of chapters that will cover the methods required for plant virus isolation, RNA extraction, cloning, coat protein genes, introduction of the coat protein gene into the plant genome and testing transgenic plants for resistance. The book then moves on to treatments of the mechanisms of resistance, the problems encountered with field testing and key ethical issues surrounding transgenic technology. Although *Plant Virology Protocols* deals with the cloning and expression of the coat protein gene, the techniques described can be equally applied to other viral genes and nucleotide sequences, many of which have also been shown to afford protection when introduced into plants. The coat protein has however been the most widely applied and as such has been selected to illustrate the techniques involved. *Plant Virology Protocols* has been divided into six major sections containing 55 chapters in total. *Transgenic Animals* Louis-Marie Houdebine, 2022-04-19 During the past 20 years transgenesis has become a popular technique and a crucial tool for molecular geneticists and biologists. Transgene expression is now better controlled and even specifically inducible by exogenous factors. While these techniques have quite significantly transformed the experimental approaches taken by biologists, the applications are more limited than expected and concerns have arisen regarding biosafety as well as physiological, social and philosophical issues. *Transgenic Animals: Generation and Use* contains articles on the techniques used to generate transgenic animals and a section on the preparation of vectors for the optimally controlled expression of transgenes. It also examines the use of transgenic animals in the study of gene function and human diseases, the preparation of recombinant proteins and organs for pharmaceutical and medical use and the improvement of genetic characteristics of farm animals. Finally it discusses more recent problems generated by transgenic animals including conservation of transgenic lines, specific database patenting, biosafety and bioethics. Drawn from both academia and industry the contributors to this monograph present in one concise volume all the relevant information on the different aspects of transgenesis. This book can be used as both a reference book and a textbook for specialized university courses and will be of interest to everyone.

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Plant Cell Electroporation And Electrofusion Protocols Jac A. Nickoloff, 2008-02-02 Gene transfer is an essential technology for improving our understanding of gene structure and function. Although there are many methods by which DNA may be introduced into cells including heat and chemical treatments and microinjection, electroporation has been found to be the most versatile gene transfer technique. Electroporation is effective with a wide variety of cell types, including those that are difficult to transform by other means. For many cell types, electroporation is either the most efficient or the only means known to effect gene transfer. The early and broad success of electric field mediated DNA transfer soon prompted researchers to investigate electroporation for transferring other types of molecules into cells, including RNA enzymes, antibodies, and analytic dyes. The first section of *Plant Cell Electroporation and Electrofusion Protocols* includes two chapters that serve as a guide to theoretical and practical aspects of electroporation and will be of particular interest to those developing protocols for as yet untested species or cell types, and a third chapter that describes commercially available electroporation instruments. The remaining chapters describe well tested protocols for DNA electrotransfection, electroporation of other biomolecules, or cell electrofusion. These chapters also include brief discussions of alternatives to electric field based methods, citing the advantages and limitations of the various methods for achieving specific goals.

Computer Analysis of Sequence Data Part II Annette M. Griffin, Hugh G. Griffin, 2008-02-02 DNA sequencing has become increasingly efficient over the years, resulting in an enormous increase in the amount of data generated. In recent years, the focus of sequencing has shifted from being the endpoint of a project to being a starting point. This is especially true for such major initiatives as the human genome project, where vast tracts of DNA of unknown function are sequenced. This sheer volume of available data makes advanced computer methods essential to analysis and a familiarity with computers and sequence analysis software a vital requirement for the researcher involved with DNA sequencing. Even for nonsequencers, a familiarity with sequence analysis software can be important. For instance, gene sequences already present in the databases can be extremely useful in the design of cloning and genetic manipulation experiments. This two part work on *Computer Analysis of Sequence Data* is designed to be a practical aid to the researcher who uses computers for the acquisition, storage, or analysis of nucleic acid and/or protein sequences. Each chapter is written such that a competent scientist with basic computer literacy can carry out the procedure successfully at the first attempt by simply following the detailed practical instructions that have been described by the author. A Notes section, which is included at the end of each chapter, provides advice on overcoming the common problems and pitfalls sometimes encountered by users of the sequence analysis software.

DNA and Cell Biology, 1997 *Biochemicals and Reagents*, **Doody's Rating Service** Daniel J. Doody, 1996

Drosophila Information Service, 1997 *American Book Publishing Record*, 1995 *Forthcoming Books* Rose Arny, 1996-06 *Encyclopedia of Molecular Biology and Molecular Medicine: Denaturation of DNA to growth factors* Robert

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