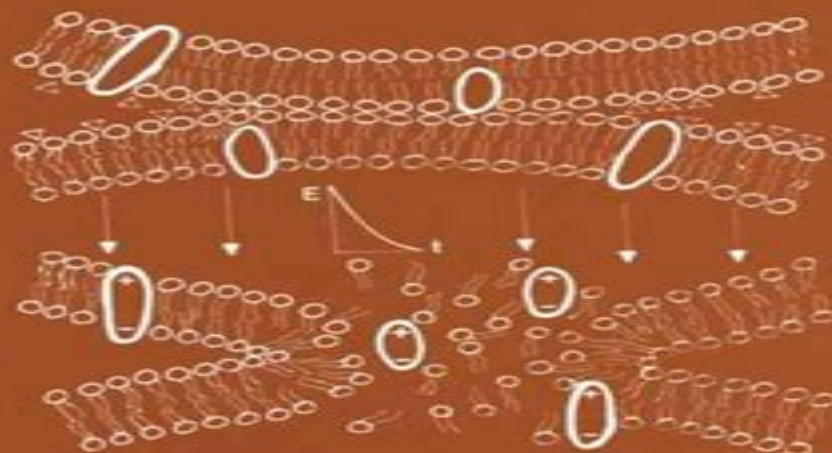


**Methods in Molecular Biology™**

**Volume 48**

# **ANIMAL CELL ELECTROPORATION & ELECTROFUSION PROTOCOLS**

*Edited by*  
**Jac A. Nickoloff**



# Animal Cell Electroporation And Electrofusion Protocols Methods In Molecular Biology

**David M. L. Morgan**



## **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

**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      Polyamine Protocols David M. L. Morgan, 2008-02-02 A unique collection of hands on enzyme assay techniques to study polyamines and their function The techniques range from assay methods for enzymes of polyamine biosynthesis and catabolism to measurements of polyamines polyamine transport and polyamine effects on cell growth The methods are presented by leading researchers who have perfected them to a high art and include clear step by step instructions with numerous hints and tips to ensure readily reproducible results      *Stress Response* Stephen M. Keyse, 2007-10-26 Mammalian cells have evolved a complex multicomponent machinery that enables them to sense and respond to a wide variety of potentially toxic agents present in their environment These stress responses are often associated with an increased cellular capacity to tolerate normally lethal levels of an insult The realization that the mammalian stress response may be intimately linked with many human diseases including rheumatoid arthritis ischemia fever infection and cancer has led to an explosion of interest in this research area *Stress Response Methods and Protocols* brings together a diverse array of practical methodologies that may be employed to address various aspects of the response of mammalian cells to environmental stress The protocols are carefully described by authors who have both devised and successfully employed them and they represent a mixture not only of well established techniques but also new technologies at the leading edge of research The areas covered include the detection and assay of stress induced damage the action of signal transduction pathways stress inducible gene expression and stress protein function Although no volume of this size can be comprehensive and the topics covered reflect a personal choice it is hoped that it will prove of substantial interest and use to a wide range of research workers in the field      *Protein Purification Protocols* Shawn Doonan, 2008-02-02 Hans Neurath has written that this is the second golden era of enzymology *Protein Science* 1994 vol 3 pp 1734 1739 he could with justice have been more general and referred to the second golden age of protein chemistry The last two decades have seen enormous advances in our understanding of the structures and functions of proteins arising on the one hand from improvements and developments in analytical techniques see the companion volume *Basic Protein and Peptide Protocols* in this series and on the other hand from the technologies of molecular genetics Far from turning the focus away from protein science the ability to isolate analyze and express genes has increased interest in proteins as gene products Hence many laboratories are now getting involved in protein isolation for the first time either as an essential adjunct to their work in molecular genetics or because of a curiosity to know more about the products of the

genes that they have been studying Protein Purification Protocols is aimed mainly at these newcomers to protein purification but it is hoped that it will also be of value to established practitioners who may find here techniques that they have not tried but which might well be most applicable in their work With the exception mainly of the first and last chapters the format of the contributions to the present book conform to the established format of the Methods in Molecular Biology series

*Handbook of Membrane Separations* Anil K. Pabby, Syed S.H. Rizvi, Ana Maria Sastre Requena, 2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explores chemical pharmaceutical food processing and biotechnological applications of membrane processes ranging from selective separation to solvent and material recovery This text also presents in depth knowledge of membrane separation mechanisms transport models membrane permeability computations membrane types and modules as well as membrane reactors *Porous Media* Kambiz Vafai, 2010-08-24 Presenting state of the art research advancements Porous Media Applications in Biological Systems and Biotechnology explores innovative approaches to effectively apply existing porous media technologies to biomedical applications In each peer reviewed chapter world class scientists and engineers collaborate to address significant problems and d *Immunochemical Protocols* John Pound, 2008-02-03 This much anticipated second edition provides a user friendly up to date handbook of reliable immunochemical techniques optimized for molecular biologists It covers the breadth of relevant established methods from protein blotting and immunoassays through to visualization of cellular antigens and in situ hybridization each with their latest refinements Protocols for the production and purification of important classes of immunochemical reagents are also provided including conventional and recombinant antibodies fusion proteins and their various conjugates This book will open the door to a new generation of immunochemical reagents with exciting possibilities

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