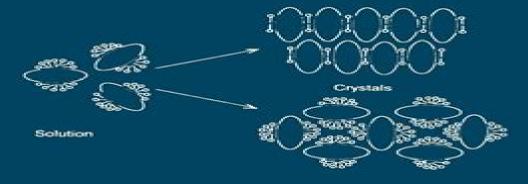
### **Methods in Molecular Biology**

Volume 27

# BIOMEMBRANE PROTOCOLS

II. Architecture and Function

Edited by John Graham and Joan Higgins



**Dr John Graham, Joan Higgins** 

Immunocytochemical Methods and Protocols Lorette C. Javois,2008-02-02 The principle that antibodies can be used as cytochemical agents provided they are tagged with suitable markers has been evident for over 50 years During this time the use of immunocytochemical meth ods has spread to a wide array of biological disciplines Early applications focused on the detection of microbial antigens in tissues while more recent applications have used monoclonal antibodies to study cell differentiation during embryonic development For a select few disciplines volumes have been published focusing on the specific application of immunocytochemical techniques to that discipline What distinguishes the present book Immunocytochemical Methods and Protocols from earlier books is its broad appeal to researchers in all disciplines including those in both research and clinical settings The methods and protocols presented here are designed to be general in their application and the accompanying Notes provide invaluable assistance in adapting or troubleshooting the protocols Interspersed throughout the book are chapters providing overviews of select topics related to immunocytochemistry

Membrane Analysis Dr John Graham, Joan Higgins, 2020-08-13 Membrane Analysis provides a comprehensive review of laboratory methods for membrane study with an emphasis on isolating membranes analysing their composition and architecture and investigating membrane function Methods in Molecular Biology: Biomembrane protocols: II. Architecture and function John M. Walker, 1984 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 pro teins 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 tech nologies 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 laborato ries 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 newcom ers 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 **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 facili tated a broad range of biological studies from biochemistry and biophysics to molecular biology cell biology and whole animal stud ies 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 el troporation 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 inter est 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 **Antibody Engineering** <u>Protocols</u> Sudhir Paul, 2008-02-02 This comprehensive collection of recently developed methods for producing new antibody reagents by immunization and recombinant DNA techniques contains ready to use protocols that illuminate current areas of research on antibody structure functions and applications The methods can be applied in basic immunological studies involving antibody specificity catalysis and evolution and in the isolation of rare antibodies by phage display technology and the engineering of new antibodies by mutagenesis They offer insight into new ways of developing clinically useful antibody reagents Antibody Engineering Protocols constitutes a single source volume for laboratory investigators who want to minimize extensive literature and methodology searches and to work productively in their fields with reproducible step by step protocols **Gene Isolation and Mapping Protocols** Jacqueline Boultwood, 2008-02-02 An unprecedented collection of all the most up to date techniques for gene isolation and mapping including the latest methods for gene characterization using database analyses This collection of thoroughly tested recipes also includes chapters for the computational analysis of novel cDNA sequences with up to the minute information on basic sequence analysis sequence similarity searches exon detection and similarity searches and the prediction of gene function Its state of the art methods constitute indispensable tools for all scientists engaged in the search for specific disease genes or in the general advancement of the human genome **Chromosome Analysis Protocols** John R. Gosden, 2008-02-02 Chromosomes as the genetic vehicles provide the project basic material for a large proportion of genetic investigations from the construction of gene maps and models of chromosome organization to the inves tigation of gene function and dysfunction The study of chromosomes has developed in parallel with other aspects of molecular genetics beginning with the first preparations of chromosomes from animal cells through the development of banding techniques which permitted the unequivocal identification of each chromosome in a karyotype to the present analytical methods of molecular cytogenetics Although some of these techniques have been in use for many years

and can be learned relatively easily most published scientific reports as a result of pressure on space from editors and the response to that pressure by authors contain little in the way of technical detail and thus are rarely adequate for a researcher hoping to find all the necessary information to embark on a method from scratch A new user needs not only a detailed description of the methods but also some help with problem solving and sorting out the difficulties en countered in handling any biological system This was the require ment to which the series Methods in Molecular Biology is addressed and Chromosome Analysis Protocols forms a part of this series 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 rap idly 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 meth ods fraction collection and troubleshooting as well as a guick 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 Plant Cell Electroporation And Electrofusion Protocols Jac A. Nickoloff, 2008-02-02 Gene transfer is an cations essential technology for improving our under standing of gene structure and function Although there are many meth ods 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 medi ated DNA transfer soon prompted researchers to investigate electroporation for transferring other types of molecules into cells in cluding 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 alterna tives to electric field based methods citing the advantages and limita tions of the various methods for achieving specific goals

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