

**Methods in Molecular Biology™**

**VOLUME 199**

# **Liposome Methods and Protocols**

*Edited by*  
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**Manju Basu**



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# Liposome Methods And Protocols Methods In Molecular Biology

**Subhash C. Basu, Manju Basu**



## **Liposome Methods And Protocols Methods In Molecular Biology:**

*Liposome Methods and Protocols* Subhash C. Basu, Manju Basu, 2008-02-04 In vitro utilization of liposomes is now recognized as a powerful tool in many bioscience investigations and their associated clinical studies e g liposomes in drug targeting liposomes in gene transport across plasma and nuclear membranes liposomes in enzyme therapy in patients with genetic disorders However before these areas can be effectively explored many basic areas in liposome research require elucidation including a attachment of liposomes to cell surfaces b permeation of liposomes through the plasma membranes and c stability of liposomes in cell or nuclear matrices None of these areas have been exhaustively explored and liposome researchers have ample opportunities to contribute to our knowledge The aim of *Liposome Methods and Protocols* is to bring together a wide range of detailed laboratory protocols covering different aspects of liposome biology in order to assist researchers in those rapidly advancing medical fields mentioned earlier With this goal in mind in each protocol chapter we have detailed the materials to be used followed by a step by step protocol The Notes section of each protocol is also certain to prove particularly useful since the authors include troubleshooting tips straight from their benchtops valuable information that is seldom given in restricted methods sections of standard research journals For this reason we feel that the book will prove especially useful for all researchers in the liposome field      Methods in Molecular Biology: Liposome methods and protocols John M. Walker, 1984

**Liposome Methods and Protocols** Subhash C. Basu, Manju Basu, 2002-05-15 In vitro utilization of liposomes is now recognized as a powerful tool in many bioscience investigations and their associated clinical studies e g liposomes in drug targeting liposomes in gene transport across plasma and nuclear membranes liposomes in enzyme therapy in patients with genetic disorders However before these areas can be effectively explored many basic areas in liposome research require elucidation including a attachment of liposomes to cell surfaces b permeation of liposomes through the plasma membranes and c stability of liposomes in cell or nuclear matrices None of these areas have been exhaustively explored and liposome researchers have ample opportunities to contribute to our knowledge The aim of *Liposome Methods and Protocols* is to bring together a wide range of detailed laboratory protocols covering different aspects of liposome biology in order to assist researchers in those rapidly advancing medical fields mentioned earlier With this goal in mind in each protocol chapter we have detailed the materials to be used followed by a step by step protocol The Notes section of each protocol is also certain to prove particularly useful since the authors include troubleshooting tips straight from their benchtops valuable information that is seldom given in restricted methods sections of standard research journals For this reason we feel that the book will prove especially useful for all researchers in the liposome field      **Liposomes** Gerard G.M. D'Souza, Hongwei Zhang, 2023-03-10 This third edition provides new and updated chapters detailing preparation of liposomes physicochemical characterization of liposomes lipid analysis drug encapsulation surface modification stimuli response as well as cellular interaction and biodistribution Also included is an updated chapter on the history and evolution

of the field of liposomology Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Liposomes Methods and Protocols Third Edition aims to serve as a reference for graduate students post doctoral researchers as well as established investigators utilizing lipid based systems

*In Vitro Mutagenesis Protocols* Jeff Braman, 2008-02-05 Hands on researchers with proven track records describe in stepwise fashion their advanced mutagenesis techniques The contributors focus on improvements to conventional site directed mutagenesis including a chapter on chemical site directed mutagenesis PCR based mutagenesis and the modifications that allow high throughput mutagenesis experiments and mutagenesis based on gene disruption both in vitro and in situ based Additional methods are provided for in vitro gene evolution for gene disruption based on recombination transposon and cassette mutagenesis and for facilitating the introduction of multiple mutations Time tested and highly practical the protocols in *In Vitro Mutagenesis Protocols* 2nd Edition offer today's molecular biologists reliable and powerful techniques with which to illuminate the proteome

**Transgenic Mouse Methods and Protocols** Marten H. Hofker, Jan van Deursen, 2008-02-04 Marten Hofker and Jan van Deursen have assembled a multidisciplinary collection of readily reproducible methods for working with mice and particularly for generating mouse models that will enable us to better understand gene function Described in step by step detail by highly experienced investigators these proven techniques include new methods for conditional induced knockout and transgenic mice as well as for working with mice in such important research areas as immunology cancer and atherosclerosis Such alternative strategies as random mutagenesis and viral gene transduction for studying gene function in the mouse are also presented

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*Transgenesis Techniques* Alan R. Clarke, 2008-02-05 The past decade has witnessed a spectacular explosion in both the development and use of transgenic technologies Not only have these been used to aid our fundamental understanding of biologic mechanisms but they have also facilitated the development of a range of disease models that are now truly beginning to impact upon our approach to human disease Some of the most exciting model systems relate to neurodegenerative disease and cancer where the availability of appropriate models is at last allowing radically new therapies to be developed and tested This latter point is of particular significance given the current concerns of the wider public over both the use of animal models and the merits of using genetically modified organisms Arguably advances of the greatest significance have been made using mammalian systems driven by the

advent of embryonic stem cell based strategies and more recently by cloning through nuclear transfer For this reason this new edition of Transgenesis Techniques focuses much more heavily on manipulation of the mammalian genome both in the general discussions and in the provision of specific protocols

**DNA Methylation Protocols** Ken I. Mills, Bernie H. Ramsahoye, 2008-02-05 DNA Methylation Protocols offer a set of readily reproducible protocols of the analysis of DNA methylation and methylases These powerful methods provide the tools necessary for studying methylation at both the global level and the level of sequence and include many techniques for identifying genes that might be aberrantly methylated in cancer and aging Additional methods cover genome wide analysis of abnormal DNA methylation and the isolation and measurement of demethylases and related proteins

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**Protein Kinase C Protocols** Alexandra C. Newton, 2008-02-03 Since the discovery that protein kinase C PKC transduces the abundance of signals that result in phospholipid hydrolysis this enzyme has been at the forefront of research in signal transduction Protein Kinase C Protocols covers fundamental methods for studying the structure function regulation subcellular localization and macromolecular interactions of PKC Protein Kinase C Protocols is divided into 11 sections representing the major aspects of PKC regulation and function Part I contains an introduction and a historical perspective on the discovery of PKC by Drs Yasutomi Nishizuka and Ushio Kikkawa Part II describes methods to purify PKC Part III describes the standard methods for measuring PKC activity its enzymatic activity and its stimulus dependent translocation from the cytosol to the membrane Part IV describes methods for measuring the membrane interaction of PKC in vivo and in vitro Part V provides methodologies and techniques for measuring the phosphorylation state of PKC including a protocol for measuring the activity of PKC's upstream kinase PDK1 Novel methods for identifying substrates are described in Part VI Part VII presents protocols for expressing and analyzing the membrane targeting domains of PKC Part VIII provides a comprehensive compilation of methods used to identify binding partners for PKC Part IX describes pharmacological probes used to study PKC The book ends with a presentation of genetic approaches to study PKC Part X and a discussion of approaches used to study PKC in disease Part XI

**Multiscale Technologies For Cryomedicine: Implementation From Nano To Macroscale** John C Bischof, Shawn Xiaoming He, 2016-06-21 The use of micro nanotechnology in cell and tissue engineering and especially for cell and tissue preservation is at the peak of its activity now with scientific output expected to continue growing in the coming years Micro and nanotechnologies have

induced paradigm shifts in many scientific fields and as featured in this edited volume they are having important impact in the field of cryomedicine The book gives an overview of the recent progress in implementing multiscale micro and nanoscale technologies to improve the outcome of various cryomedical applications including cryosurgery cryopreservation lyopreservation and to understand the fundamental engineering and science underpinning the applications This is the first book that will provide both an introductory and in depth account of applying the multiscale technologies in cryomedicine

Encapsulation Technologies and Delivery Systems for Food Ingredients and Nutraceuticals Nissim Garti, D. Julian McClements, 2012-10-19 Improved technologies for the encapsulation protection release and enhanced bioavailability of food ingredients and nutraceutical components are vital to the development of future foods Encapsulation technologies and delivery systems for food ingredients and nutraceuticals provides a comprehensive guide to current and emerging techniques Part one provides an overview of key requirements for food ingredient and nutraceutical delivery systems discussing challenges in system development and analysis of interaction with the human gastrointestinal tract Processing technologies for encapsulation and delivery systems are the focus of part two Spray drying cooling and chilling are reviewed alongside coextrusion fluid bed microencapsulation microencapsulation methods based on biopolymer phase separation and gelation phenomena in aqueous media Part three goes on to investigate physicochemical approaches to the production of encapsulation and delivery systems including the use of micelles and microemulsions polymeric amphiphiles liposomes colloidal emulsions organogels and hydrogels Finally part four reviews characterization and applications of delivery systems providing industry perspectives on flavour fish oil iron micronutrient and probiotic delivery systems With its distinguished editors and international team of expert contributors Encapsulation technologies and delivery systems for food ingredients and nutraceuticals is an authoritative guide for both industry and academic researchers interested in encapsulation and controlled release systems Provides a comprehensive guide to current and emerging techniques in encapsulation technologies and delivery systems Chapters in part one provide an overview of key requirements for food ingredient and nutraceutical delivery systems while part two discusses processing technologies for encapsulation and delivery systems Later sections investigate physicochemical approaches to the production of encapsulation and delivery systems and review characterization and applications of delivery systems

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**Recombinant Antibodies for Cancer Therapy** Martin Welschof, Jürgen Krauss, 2008-02-05 Since the advent of hybridoma technology more than two decades ago numerous antibodies have entered the clinical setting as potent therapeutic agents Their repeated application in humans however is limited by the development of human antimouse antibodies HAMA in the recipient leading to allergic reactions against the foreign murine protein and rapid neutralization To circumvent these limitations many new antibodies have recently been tailored through recombinant antibody technology The initial clinical data show encouraging results thus demonstrating the potential of these new therapeutic agents The purpose of Recombinant Antibodies for Cancer Therapy is to present a collection of detailed protocols in recombinant antibody technology It is primarily addressed to scientists working on recombinant antibodies as well as clinicians involved with antibody based therapies As with other volumes of this series we placed the main focus on providing detailed protocols describing procedures step by step Moreover each protocol supplies a troubleshooting guide containing detailed information on possible problems and hints for potential solutions Antibody technology is a subject of constant and rapid change This volume therefore does not attempt to cover all possible current experimental approaches in the field Rather we present carefully selected protocols written by competent authors who have successfully verified the particular method described Given our own professional backgrounds and interest in oncology we chose to concentrate chiefly on therapeutic agents for cancer patients

**E. coli Plasmid Vectors** Nicola Casali, Andrew Preston, 2008-02-03 A comprehensive collection of readily reproducible techniques for the manipulation of recombinant plasmids using the bacterial host E coli The authors describe proven methods for cloning DNA into plasmid vectors transforming plasmids into E coli and analyzing recombinant clones They also include protocols for the construction and screening of libraries as well as specific techniques for specialized cloning vehicles such as cosmids bacterial artificial chromosomes  $\lambda$  vectors and phagemids Common downstream applications such as mutagenesis of plasmids recombinant protein expression and the use of reporter genes are also described

**Molecular Cytogenetics** Yao-Shan Fan, 2008-02-05 The new techniques of molecular cytogenetics mainly fluorescence in situ hybridization FISH of DNA probes to metaphase chromosomes or interphase nuclei have been developed in the past two decades Many FISH techniques have been implemented for diagnostic services whereas some others are mainly used for investigational purposes Several hundreds of FISH probes and hybridization kits are now commercially available and the list is growing rapidly FISH has been widely used as a powerful diagnostic tool in many areas of medicine including pediatrics medical genetics maternal fetal medicine reproductive medicine pathology hematology and oncology Frequently a physician may be puzzled by the variety of FISH techniques and wonder what test to order It is not uncommon that a sample is referred to a laboratory for FISH without indicating a specific test On the other hand a cytogeneticist or a technologist in a laboratory needs from case to case to determine which procedure to perform and which probe to use for an informative result To obtain

the best results one must use the right DNA probes and have reliable protocols and measures of quality assurance in place Also one must have sufficient knowledge in both traditional and molecular cytogenetics as well as the particular areas of medicine for which the test is used in order to appropriately interpret the FISH results and to correlate them with clinical diagnosis treatment and prognosis

**Liposomes** Volkmar Weissig,2010 With nearly one hundred years of intensive study lipids have proven to be a vital and ever more promising area of cell biological research In Liposomes Methods and Protocols leading experts in the related fields explore cutting edge experimental methods involving all aspects of lipids as essential components of the cell membrane Volume 1 Pharmaceutical Nanocarriers focuses on the state of the art aspects of developing liposome based nanoscale drug delivery techniques delving into the depths of the emerging field of pharmaceutical and biomedical nanotechnology As a volume in the highly successful Methods in Molecular Biology™ series the chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and notes on troubleshooting and avoiding known pitfalls Comprehensive and authoritative Liposomes Methods and Protocols promises to be an essential source of practical know how for every investigator young and seasoned alike whose research area involves in one way or another phospholipids glycolipids or cholesterol

Phage Therapy: A Practical Approach Andrzej Górski,Ryszard Międzybrodzki,Jan Borysowski,2019-10-25 This book gives a detailed yet clear insight into the current state of the art of the therapeutic application of bacteriophages in different conditions The authors bring in their practical expertise within their respective fields of expertise and provide an excellent overview of the potential and actual use of phage therapy Topics like economic feasibility compared to traditional antibiotics and also regulatory issues are discussed in far detail This new volume is therefore a valuable resource for individuals engaged in the medical application of novel phage therapies

**PCR Cloning Protocols** Bing-Yuan Chen,Harry W. Janes,2008-02-05 PCR Cloning Protocols Second Edition updates and expands Bruce White s best selling PCR Cloning Protocols 1997 with the newest procedures for DNA cloning and mutagenesis Here the researcher will find readily reproducible methods for all the major aspects of PCR use including PCR optimization computer programs for PCR primer design and analysis and novel variations for cloning genes of special characteristics or origin with emphasis on long distance PCR and GC rich template amplification Also included are both conventional and novel enzyme free and restriction site free procedures to clone PCR products into a range of vectors as well as state of the art protocols to facilitate DNA mutagenesis and recombination and to clone the challenging uncharacterized DNA flanking a known DNA fragment

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