

Methods in Molecular Biology™

VOLUME 199

Liposome Methods and Protocols

Edited by
Subhash C. Basu
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John M. Walker



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Methods in Molecular Biology: Liposome methods and protocols John M. Walker, 1984 **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 **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 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

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Bhattacharya,2018-08-08 This volume explores lipidomics through protocols that focus on areas of utility techniques and bioinformatics advancements The protocols in this book cover topics such as isolation of specific membranes and specialized fractionation of subcellular compartments and computational and functional analysis of lipid metabolizing enzymes Each protocol also discusses methods of dealing with fractionated organelles cells to whole organisms Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and comprehensive Lipidomics Methods and Protocols is a useful and valuable resource for biochemists molecular biologists and neuroscientists interested in neurology ophthalmology and vision sciences as well as mass spectrometrists with interest in disease discovery **Methods in Molecular Biology: Complement methods and protocols**

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organelle membranes inside eukaryotic cells including plant cells or in prokaryotic cells and the book continues with in vitro or in silico approaches aiming to define more from a biochemical and structural standpoint how lipid transfer proteins function. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step by step and readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and up to date, *Intracellular Lipid Transport Methods and Protocols*, Second Edition serves as an ideal guide for researchers seeking to shed light on diverse aspects of this critical and often elusive cellular process. **Methods in Molecular Biology: Calpain methods and protocols** John M. Walker, 1984

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