

Methods in Molecular Biology™

VOLUME 116

Protein Lipidation Protocols

Edited by
Michael H. Gelb



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Protein Lipidation Protocols Methods In Molecular Biology

Jörg H. Kleinschmidt



Protein Lipidation Protocols Methods In Molecular Biology:

Methods in Molecular Biology: Protein lipidation protocols John M. Walker, 1984 *Protein Lipidation* Maurine E. Linder, 2019 This volume explores techniques used to detect lipids attached to proteins to analyze the function of lipid modifications and to characterize the enzymes that add and remove lipids from proteins The book is organized into seven parts Part One describes chemically based strategies to identify substrates for protein lipidation that can be applied to individual proteins or globally using proteomics Part Two focuses on the enzymes that remove fatty acids from proteins and provides methods to monitor protein biogenesis and palmitate turnover Part Three addresses biochemical and cellular characterization of DHHC S acyltransferases a family of enzymes with 23 members encoded by the human genome Part Four presents the SwissPalm 2 database and tips on how to use it effectively Part Five focuses on fatty acylation that occurs in the lumen of the secretory pathway Parts Six and Seven conclude the book with methods to produce and assay lipid modified and integral membrane proteins 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 authoritative *Protein Lipidation Methods and Protocols* is a valuable resource for experts in the field and for investigators who encounter protein lipidation through their research on a particular cellular process or favorite protein [Protein Lipidation Protocols](#) Michael H. Gelb, 2008-02-03 In *Protein Lipidation Protocols* Michael Gelb brings together a collection of readily reproducible techniques for studying protein lipidation the covalent attachment of lipids to proteins These cutting edge methods many never published before in a hands on format deal with glycosyl phosphatidylinositol GPI containing compounds protein fatty acylation and protein prenylation Included are novel techniques for determining the chemical structure of GPI anchors for radiolabeling the prenyl groups of protein in eukaryotic cells a tool for developing inhibitors of the protein farnesyltransferase and for an exciting lysosomal enzyme that cleaves fatty acyl groups from proteins the first fatty acylase discovered *Protein Lipidation Protocols* offers biochemists cell and molecular biologists medicinal chemists and pharmaceutical researchers state of the art tools for understanding the complex biochemistry of protein lipidation as well as catalyzing the development of many important new biopharmaceuticals including anticancer drugs *Molecular Methods in Developmental Biology* Matt Guille, 2008-02-03 The process whereby a single cell the fertilized egg develops into an adult has fascinated for centuries Great progress in understanding that process has ever been made in the last two decades when the techniques of molecular biology have become available to developmental biologists By applying these techniques the exact nature of many of the interactions responsible for forming the body pattern are now being revealed in detail Such studies are a large and it seems ever expanding part of most life science groups It is at newcomers to this field that this book is primarily aimed A number of different plants and animals serve as common model organisms for developmental studies In *Molecular*

Methods in Developmental Biology Xenopus and Zebrafish a range of the molecular methods applicable to two of these organisms are described these are the South African clawed frog *Xenopus laevis* and the zebrafish *Brachydanio rerio* The embryos of both of these species develop rapidly and externally making them particularly suited to investigations of early vertebrate development However both *Xenopus* and zebrafish have their own advantages and disadvantages *Xenopus* have large robust embryos that can be manipulated surgically with ease but their pseudotetraploidy and long generation time make them unsuitable candidates for genetics This disadvantage may soon be overcome by using the diploid *Xenopus tropicalis* and early experiments are already underway The transparent embryos of zebrafish render them well suited for *in situ* hybridization and immunohistochemistry and good for observing mutations in genetic screens

Mass Spectrometry of Proteins and Peptides John R. Chapman, 2008-02-05 Little more than three years down the line and I am already writing the Preface to a second volume to follow *Protein and Peptide Analysis by Mass* What has happened in between these times to make this second venture worthwhile New types of mass spectrometric instrumentation have appeared so that new techniques have become possible and existing techniques have become much more feasible More particularly however the newer ionization techniques introduced for the analysis of high molecular weight materials have now been thoroughly used and studied As a result there has been an enormous improvement in the associated sample handling technology so that these methods are now routinely applied to much smaller sample amounts as well as to more intractable samples Again this particular community of mass spectrometry users has both increased in number and diversified And riding this wave of acceptance leaders in the field have set their sights on more complex problems molecular interaction ion structures quantitation and kinetics are just a few of the newer areas reported in *Mass Spectrometry of Proteins and Peptides* As with the first volume one purpose of this collection *Mass Spectrometry of Proteins and Peptides* is to show the reader what can be done by the application of mass spectrometry and perhaps even to encourage the reader to venture down new paths

Flavoprotein Protocols Steven K. Chapman, Graeme A. Reid, 2008-02-03 As a scientist with an interest in proteins you will at some time in your career isolate an enzyme that turns out to be yellow or perhaps you already have Alternatively you may identify a polypeptide sequence that is related to known flavin containing proteins This may or may not be your first encounter with flavoproteins However even if you are an old hand in the field you may not have exploited the full range of experimental approaches applicable to the study of flavoproteins We hope that *Flavoprotein Protocols* will encourage you to do so In this volume we have sought to bring together a range of experimental methods of value to researchers with an interest in flavoproteins whether or not these researchers have experience in this area A broad range of techniques from the everyday to the more specialized is described by scientists who are experts in their fields and who have extensive practical experience with flavoproteins The wide range of approaches from wet chemistry to dry computation has as a consequence demanded a range of formats Where appropriate particularly for analytical methods the protocol described is laid out in easy

to follow steps In other cases e.g. the more advanced spectroscopies and computational methods it is far more apt to describe the general approach and relevance of the methods We hope this wide ranging approach will sow the seeds of many future collaborations between laboratories and further our knowledge and understanding of how proteins work

The ELISA Guidebook John R. Crowther, 2008-02-04 John R Crowther provides today's premier practical guide to the understanding and application of ELISA Updating and greatly expanding his widely appreciated earlier publication *ELISA Theory and Practice* 1995 this important work introduces chapters on such major new topics as checkerboard titrations quality control of testing kit production and control novel monoclonal antibodies validation of assays statistical requirements for data examination and epidemiological considerations With its numerous worked examples detailed instructions and extensive illustrations *The ELISA Guidebook* offers a powerful synthesis of all the basic concepts and practical experimental details investigators need to understand develop and apply the new ELISA methodology successfully in day to day basic and clinical research

Receptor Binding Techniques Mary Keen, 1999 This cutting edge collection of step by step experimental protocols demonstrates

Protein Structure, Stability, and Folding Kenneth P. Murphy, 2008-02-04 In *Protein Structure Stability and Folding* Kenneth P Murphy and a panel of internationally recognized investigators describe some of the newest experimental and theoretical methods for investigating these critical events and processes Among the techniques discussed are the many methods for calculating many of protein stability and dynamics from knowledge of the structure and for performing molecular dynamics simulations of protein unfolding New experimental approaches presented include the use of co solvents novel applications of hydrogen exchange techniques temperature jump methods for looking at folding events and new strategies for mutagenesis experiments Unique in its powerful combination of theory and practice *Protein Structure Stability and Folding* offers protein and biophysical chemists the means to gain a more comprehensive understanding of some of this complex area by detailing many of the major techniques in use today

Confocal Microscopy Stephen W. Paddock, 2008-02-03

Molecular Embryology Paul T. Sharpe, Ivor Mason, 2008-02-02 Most people have some interest in embryos this probably results in part from their interest in understanding the biological origins of themselves and their offspring and increasingly concerns about how environmental change such as pollution might affect human development Obviously ethical considerations preclude experimental studies of human embryos and consequently the developmental biologist has turned to other species to examine this process Fortunately the most significant conclusion to be drawn from the experimental embryology of the last two decades is the manner in which orthologous or closely related molecules are deployed to mediate similar developmental processes in both vertebrates and invertebrates The molecular mechanisms regulating processes fundamental to most animals such as axial patterning or axon guidance are frequently conserved during evolution It is now widely believed that the differences between phyla and classes are the result of new genes arising mostly by duplication and divergence of extant sequences regulating the appearance of derived characters Other vertebrates are

obviously most likely to use the same developmental mechanisms as humans and within the vertebrate subphylum the parent degree of conservation of developmental mechanism is considerable. It has long been recognized that particular vertebrate species offer either distinct advantages in investigating particular stages of development or are especially amenable to particular manipulations. No single animal can provide all the answers because not all types of experiments can be carried out on a single species.

Capillary Electrophoresis of Nucleic Acids Keith R. Mitchelson, Jing Cheng, 2008-02-05 The development of PCR which enables extremely small amounts of DNA to be amplified led to the rapid development of a multiplicity of analytical procedures that permit use of this new resource for the analysis of genetic variation and for the detection of disease causing mutations. The advent of capillary electrophoresis (CE) with its power to separate and analyze very small amounts of DNA has also stimulated researchers to develop analytical procedures for the CE format. The advantages of CE in terms of speed and reproducibility of analyses are manifold. Furthermore, the high sensitivity of detection and the ability to increase sample throughput with parallel analysis has led to the creation of a full range of analysis of DNA molecules from modified DNA adducts and single strand oligonucleotides through PCR amplified DNA fragments and whole chromosomes.

Capillary Electrophoresis of Nucleic Acids focuses on analytical protocols that can be used for detection and analysis of mutations and modification from precise DNA loci through entire genomes of organisms. Important practical considerations for CE such as the choice of separation media, electrophoresis conditions and the influence of buffer additives and dyes on DNA mobility are discussed in several key chapters and within particular applications.

Protein Lipidation Protocols Michael H. Gelb, 1999-05-20 An all star collection of readily reproducible techniques for studying protein lipidation, the covalent attachment of lipids to proteins. These cutting edge methods, many never published before in a hands on format deal with glycosyl phosphatidylinositol (GPI) containing compounds, protein fatty acylation and protein prenylation. Included are novel techniques for determining the chemical structure of GPI anchors, for radiolabeling the prenyl groups of protein in eukaryotic cells, a tool for developing inhibitors of the protein farnesyltransferase and for an exciting lysosomal enzyme that cleaves fatty acyl groups from proteins, the first fatty acylase discovered.

Protein Lipidation Protocols offers biochemists, cell and molecular biologists, medicinal chemists and pharmaceutical researchers state of the art tools for understanding the complex biochemistry of protein lipidation.

Subject Guide to Books in Print, 2001 **Forthcoming Books** Rose Army, 1999

Protein Dynamics Dennis R. Livesay, 2016-08-23 In *Protein Dynamics: Methods and Protocols*, expert researchers in the field detail both experimental and computational methods to interrogate molecular level fluctuations. Chapters detail best practice recipes covering both experimental and computational techniques reflecting modern protein research. 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 key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Protein Dynamics: Methods and*

Protocols describes the most common and powerful methods used to characterize protein dynamics **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),2004 **The Journal of Cell Biology** ,1998 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972

The Protein Protocols Handbook John M. Walker,2008-02-12 In The Protein Protocols Handbook I have attempted to provide a cross section of analytical techniques commonly used for proteins and peptides thus providing a benehtop manual and guide both for those who are new to the protein chemistry laboratory and for those more established workers who wish to use a technique for the first time We each of course have our own favorite commonly used gel system g staining method blotting method and so on I m sure you will find yours here H ever I have also described a variety of alternatives for many of these techniques though they may not be superior to the methods you commonly use they may nev theless be more appropriate in a particular situation Only by knowing the range of techniques that are available to you and the strengths and limitations of these te niques will you be able to choose the method that best suits your purpose Lipid-Protein Interactions Jörg H. Kleinschmidt,2026-01-14 This third edition expands upon the chapters of the previous editions providing new and updated methods Chapters explore protein lipid interactions membranes membrane protein structure how membrane proteins affect lipids and how they are in turn affected by the lipid bilayer and lipid properties 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 authoritative Lipid Protein Interactions Methods and Protocols Third Edition is an essential resource for all researchers who are interested in obtaining up to date and comprehensive information about membrane structure and function

Whispering the Secrets of Language: An Psychological Quest through **Protein Lipidation Protocols Methods In Molecular Biology**

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