

Methods in Molecular Biology™

VOLUME 116

Protein Lipidation Protocols

Edited by
Michael H. Gelb



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Protein Lipidation Protocols

**Rebeca M. Mejias Estevez, William
Fuller**



Protein Lipidation Protocols:

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

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 [Chaperonin](#)

[Protocols](#) Christine Schneider, 2008-02-05 [RNA Protein Interaction Protocols](#) Susan R. Haynes, 2008-02-03 The molecular characterization of RNA and its interactions with proteins is an important and exciting area of current research Organisms utilize a variety of RNA protein interactions to regulate the expression of their genes This is particularly true for eukaryotes since newly synthesized messenger RNA must be extensively modified and transported to the cytoplasm before it can be used for protein synthesis The realization that posttranscriptional processes are critical components of gene regulation has sparked an explosion of interest in both stable ribonucleoprotein RNP complexes and transient RNA protein interactions RNA is conformationally flexible and can adopt complex structures that provide diverse surfaces for interactions with proteins The

fact that short RNA molecules aptamers see Chapter 16 can be selected to bind many different types of molecules is evidence of the structural variability of RNA RNA molecules are rarely entirely single or double stranded but usually contain multiple short duplexes interrupted by single stranded loops and bulges in some RNAs such as tRNAs the short duplexes stack on each other Further variability is generated by the presence of non Watson Crick base pairs modified nucleotides and more complex structures such as pseudoknots and triple strand interactions Eicosanoid Protocols Elias A Lianos,2008-02-03

Developmental Biology Protocols Rocky S. Tuan,Cecilia W. Lo,2000-01-21 This three volume set consisting of 142 chapters is intentionally broad in scope because of the nature of modern developmental biology **Complement Methods and Protocols** B. Paul Morgan,2008-02-05 The complement system first described more than a century ago was for many years the ugly duckling of the immunology world but no more Complement in recent years has blossomed into a fascinating and fast moving field of immediate relevance to clinical scientists in fields as diverse as transplantation biology virology and inflammation Despite its emergence from the shadows complement retains an unwarranted reputation for being difficult This impression derives in large part from the superficially complicated nomenclature a relic of the long and tortuous process of unraveling the system of naming components in order of discovery rather than in a systematic manner Once the barrier of nomenclature has been surmounted then the true simplicity of the system becomes apparent Complement comprises an activation system and a cytolytic system The former has diverged to focus on complement to distinct targets bacteria mune complexes and others so that texts now describe three activation pathways closely related to one another but each with some unique features The cytolytic pathway is the same regardless of the activation process and kills cells by creating pores in the membrane Complement plays an important role in killing bacteria and is essential for the proper handling of immune complexes Problems occur when complement is activated in an inappropriate manner the potent inflammation inducing products of the cascade then cause unwanted tissue damage and destruction **Protein lipidation in health and disease** Rebeca M. Mejias Estevez,William Fuller,2023-11-15 Chemokine Protocols Amanda E.I. Proudfoot,Timothy N.C. Wells,Christine Power,2008-02-05 The chemokines family of small proteins are involved in numerous biological processes ranging from hematopoiesis angiogenesis and basal leukocyte trafficking to the extravasation and tissue infiltration of leukocytes in response to inflammatory agents tissue damage and bacterial or viral infection Chemokines exert their effects through a family of seven G protein coupled transmembrane receptors Worldwide interest in the chemokine field surged dramatically early in 1996 with the finding that certain chemokine receptors were the elusive coreceptors required along with CD4 for HIV infection Today though over 40 human chemokines have been described the number of chemokine receptors lags behind only 17 human chemokine receptors have been identified so far What has emerged over the years is that most chemokine receptors bind several distinct ligands and indeed the majority of chemokines are able to bind to multiple chemokine receptors explaining to some extent the apparent disparity in the numbers of chemokines and receptors Yet in spite

of the apparent redundancy in chemokine receptor interactions it is clear that in vivo spatial temporal and indeed cell and tissue specific expression of both chemokines and their receptors are important factors in determining the precise nature of cellular infiltrates in physiological and pathological processes

Electron Microscopy Methods and Protocols M. A. Nasser Hajibagheri, 2008-02-02

Electron Microscopy Methods and Protocols is designed for the established researcher as a manual for extending knowledge of the field It is also for the newcomer who wishes to move into the field A wide range of applications for the examination of cells tissues biological macromolecules molecular structures and their interactions are discussed We have tried to gather together methods that we consider to be those most generally applicable to current research in both cell and molecular biology Each chapter contains a set of related practical protocols with examples provided by experts who have first hand knowledge of the techniques they describe The individual chapters are grouped according to similarities in their specimen preparation and methodology Methods are presented in detail in a step by step fashion using reproducible protocols the authors have personally checked During the last decade the scientific literature describing the use of colloidal gold as an immunocytochemical marker has increased at an exponential rate and this trend is expected to continue We have included a large number of variations on the immunogold labeling technique In both the negative staining and cryo chapters authors emphasize the immunological applications in order to correlate as fully as possible with the emphasis on immunogold labeling in the other chapters Electron Microscopy Methods and Protocols commences with the routine preparation of biological material for classical transmission electron microscopy involving tissue fixation embedding and sectioning Chap 1

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