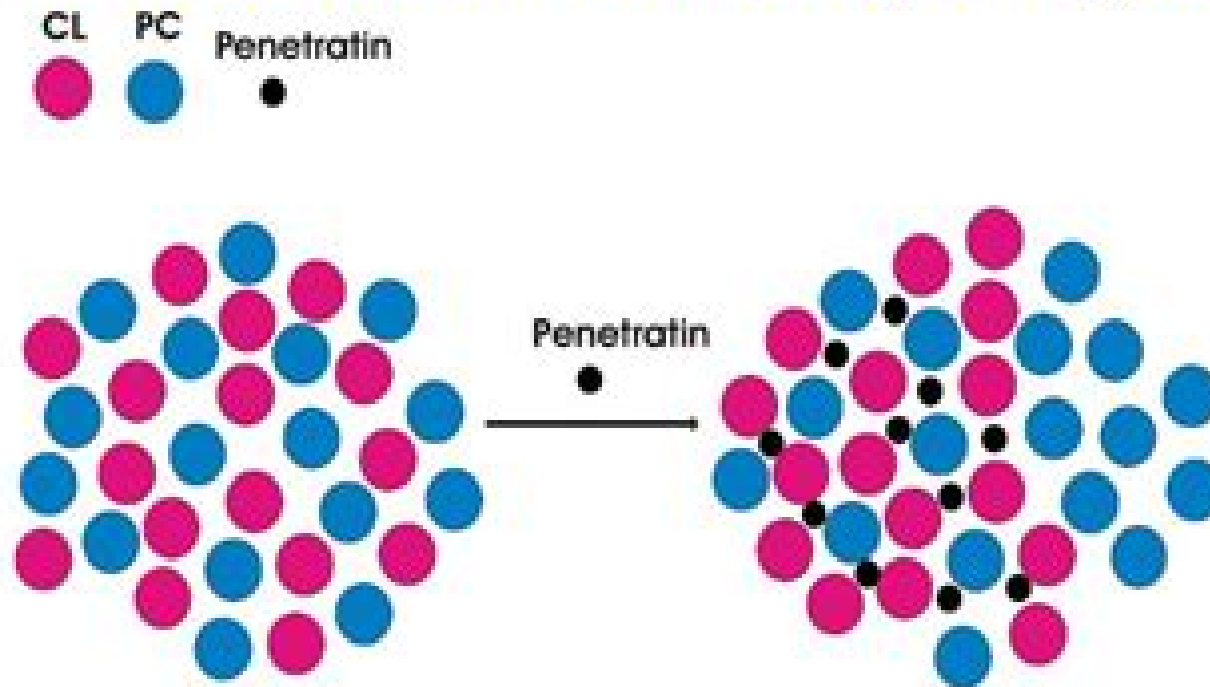


# Peptide effect on the lateral lipid organization



	<b>Electrostatics</b> <b>DPPC/CL</b>	<b>Fatty acid chain length</b> <b>DMPG/DSPG</b>	<b>Saturation</b> <b>DMPG/POPG</b>
<b>Lipid recruitment</b>	yes	yes	no

- Penetratin is able to recruit anionic lipids and lipids with shorter fatty acid chain

# Peptide Lipid Interactions

**Paul-André Siegenthaler, N. Murata**



## **Peptide Lipid Interactions:**

Peptide-Lipid Interactions Sidney A. Simon, Thomas J. McIntosh, 2002-11-13 This volume contains a comprehensive overview of peptide lipid interactions by leading researchers The first part covers theoretical concepts experimental considerations and thermodynamics The second part presents new results obtained through site directed EPR electron microscopy NMR isothermal calorimetry and fluorescence quenching The final part covers problems of biological interest including signal transduction membrane transport fusion and adhesion Key Features world renowned experts state of the art experimental methods monolayers bilayers biological membranes theoretical aspects and computer simulations rafts synaptic transmission membrane fusion signal transduction Transmembrane Peptide-lipid Interactions Michael A. Amon, 2007

Protein-Lipid Interactions Anthony Watts, 1993-10-08 Protein lipid interactions as a field of study is now a mature area and this volume of New Comprehensive Biochemistry has been published with two objectives in mind Firstly to look to the future and try to envisage how the subject may develop in the near to medium future Secondly to present contrasting or complementary views on the same system For example the acetylcholine receptor is discussed from a predominantly structural aspect by Barrantes and from the kinetic standpoint by Rankin et al The volume not only gives an update on specific aspects of the field but also shows the way in which the phenomenon of protein lipid interactions is now seemingly infiltrating many areas of biomembrane research from recombinant DNA studies protein insertion and assembly and reconstitution considerations to structural studies of membrane proteins **Peptide-lipid Interactions Analyzed Via**

**Tryptophan Derivatives**, 2007 **Protein-Lipid Interactions** C. Reyes Mateo, Javier Gómez, José Villalain, José Manuel González Ros, 2008-09-30 Biological membranes have long been identified as key elements in a wide variety of cellular processes including cell defense communication photosynthesis signal transduction and motility thus they emerge as primary targets in both basic and applied research This book brings together in a single volume the most recent views of experts in the area of protein lipid interactions providing an overview of the advances that have been achieved in the field in recent years from very basic aspects to specialized technological applications Topics include the application of X ray and neutron diffraction infrared and fluorescence spectroscopy and high resolution NMR to the understanding of the specific interactions between lipids and proteins within biological membranes their structural relationships and the implications for the biological functions that they mediate Also covered in this volume are the insertion of proteins and peptides into the membrane and the concomitant formation of definite lipid domains within the membrane **Protein-Lipid Interactions** Lukas K.

Tamm, 2006-05-12 In 17 contributions by leading research groups this first comprehensive handbook in the field covers the interactions between proteins and lipids that make the fabric of biological membranes from every angle It examines the relevant thermodynamic and structural issues from a basic science perspective and goes on to discuss biochemical and cell biological processes The book covers physical principles as well as mechanisms of membrane fusion and fission Additionally

chapters on bilayer structure and protein lipid interactions as well as on how proteins shape lipids and vice versa membrane penetration by toxins protein sorting and allosteric regulation of signal transduction across membranes make this a valuable information source for researchers in academia and industry *Biochemical Techniques for Analyzing Protein-Lipid Interactions* Ayyub Patel, 2024-11-18 The book reviews cutting edge advancements and their implications across various domains of molecular diagnostics It covers foundational topics like protein ligand interactions lipid protein interactions within biological membranes and the application of NMR spectroscopy in understanding membrane structures The book also explores advanced techniques such as X ray crystallography liposome microarray assays and protein lipid interaction studies By integrating experimental and computational methods it provides a comprehensive guide to understanding the complexities of molecular diagnostics from basic principles to innovative approaches in drug discovery and therapeutic development Each chapter offers detailed discussions on specific topics supported by experimental data and methodological insights making it an invaluable resource for researchers clinicians and students seeking to enhance their knowledge and expertise in molecular diagnostics Membrane Protein - Lipid Interactions: Physics and Chemistry in the Bilayer Jordi H. Borrell, Òscar Domènech, Kevin M.W. Keough, 2016-03-15 This book has been conceived as a brief introduction to biomembranes physical chemistry for undergraduate students of sciences and it is particularly dedicated to the lipid protein membrane interactions A general introduction is presented in Chapters 1 and 2 The following Chapters 3 and 4 describe the most accepted theories on lipid membrane protein interactions as well as the new experimental approaches in particular these arose from nano sciences as atomic force microscopy and single molecule force spectroscopy The book emphasizes the relevance of physical parameters as the lateral surface pressure and the lipid curvature as actors for understanding the physicochemical properties of the biomembranes Investigating Peptide-lipid Interactions at Single Molecule Level Tina Rezaie Matin, 2017 Despite the utmost importance of protein lipid interactions in cellular activity due to technical difficulties this class of interactions has not been understood mechanistically Obtaining a more complete understanding of these interactions would for example aid the design of more compatible and effective medicine to target specific cells We developed a physical technique to study such interactions and investigated the interactions between small portions of a model protein with different types of membrane We were able to detect physical interaction differences between the two at the single molecule level This technique is generalizable to study other small molecule membrane interactions and helps scientists to have a better understanding of the transport of energy nutrition and waste in and out of the cells The machine that has been used in our investigations is a mechanical microscope called an AFM atomic Force Microscope In addition to making a topographical images this tool enables us to pick up small molecules in a controlled and precise manner

**Biophysical Interactions of Peptides and Their Analogues with Lipid Membranes** Anja Stulz, 2019 Abstract Many drugs displaying a wide range of structures and diverse applications can cross or bind to lipid membranes Quantitative

understanding of membrane interactions is thus important for several therapeutic approaches. First, membrane permeabilization represents the dominating mode of action of antimicrobial peptides AMPs and their synthetic mimics SMAMPs. In terms of clinical applications, selectivity for bacterial over mammalian membranes is as important as good activity. Second, membrane interactions might influence loading, retaining, and releasing drugs from lipid-based drug delivery systems in a time-controlled and targeted manner. Understanding the binding behaviour of the peptide drug exenatide to lipid membranes is not only important for characterization of its release from vesicular phospholipid gels but might also help to understand other complex peptide-lipid interactions. The main aim of this thesis was to derive a mechanistic understanding of interactions of peptides and their analogues with model lipid membranes with a focus on the lipid composition of a membrane. Membrane permeabilization induced by AMPs and SMAMPs was quantified by a lifetime-based leakage assay using calcein-loaded vesicles. Different leakage behaviours were identified by considering active concentrations, strengths of individual leakage events, L1 and cumulative kinetics. Further experiments using isothermal titration calorimetry (ITC), monolayer adsorption measurements, and differential scanning calorimetry (DSC) helped to characterize the initial binding of AMPs and SMAMPs to lipid membranes and their propensity to induce electrostatic lipid clustering. Leakage experiments showed that the leakage behaviour changes with both the structure of the AMP or SMAMP and the lipid composition of the membrane. The activity seems to increase if a membrane active agent favours a permeabilization mechanism to which the particular lipid composition is especially susceptible. A closer look at kinetic profiles allowed distinguishing leakage induced by asymmetric stress from leakage events that occur stochastically. Very hydrophobic and unselective compounds seem to act mainly by hydrophobically driven asymmetric stress, especially when acting on zwitterionic phosphatidylcholine (PC) membranes. This mechanism brings about poor selectivity because all lipid membranes, bacterial and mammalian, contain a hydrophobic core. Stochastic leakage events, on the other hand, probably depend more on lipid compositions. Negatively charged lipids like phosphatidylglycerol (PG) or cardiolipin (CL) triggered the initial electrostatic attraction of polycationic AMPs or SMAMPs to bacterial membranes. High amounts of phosphatidylethanolamine (PE) seem to counteract the unselective asymmetric stress mechanism. Finally, especially strong leakage events were induced in vesicles containing CL. In this way, compounds that induce only rare leakage events might still be effective. In the second part of the thesis, an ITC fit model was introduced to study complex peptide-lipid interactions based on primary binding of peptide to the lipid layer and secondary binding to pre-bound peptide. Exenatide served as an exemplary peptide that interacts electrostatically with mixed POPC/POPG liposomes and self-associates at  $K_d = 46 \text{ M}$ . A global fit of various ITC curves revealed that exenatide binds primarily to a binding site at the outer membrane leaflet composed of 2–3 negatively charged POPG and some POPC molecules. Primary binding showed high affinity with a  $K_{d1}$  of  $0.206 \text{ M}$ , while secondary binding with a  $K_{d2}$  of  $10.46 \text{ M}$  was weaker. ITC was able to quantify primary and secondary binding separately based on different binding enthalpies. Unlike ITC, other methods

such as tryptophan fluorescence and microscale thermophoresis MST probably represent only a summary or average of both effects Many similar ITC data can be found in literature that possibly involve primary and secondary binding effects Those data could benefit from a fit model as presented in this thesis

**Calorimetric and Fluorescence Characterization of Peptide-lipid Interactions** Melanie D. Myers,1987      **Membrane-active Peptides** Miguel A. R. B. Castanho,2010

*Amino Acids, Peptides and Proteins* Maxim Ryadnov,Ferenc Hudecz,2017-12-06      **Peptide-Liposome Model Systems for Triggered Release** Camilla Skyttner,2018-08-22 Liposomes are widely used in drug delivery to improve drug efficacy and to reduce side effects For liposome encapsulated drugs to become bioavailable and provide a therapeutic effect they must be released which typically is a slow process that primarily relies on passive diffusion liposome rupture or endocytotic uptake Achieving drug concentrations within the therapeutic window can thus be challenging resulting in poor efficacy and higher risks drug resistance Finding means to modulate lipid membrane integrity and to trigger rapid and efficient release of liposomal cargo is thus critical to improve current and future liposomal drug delivery systems The possibilities to tailor lipid composition and surface functionalization is vital for drug delivery applications but also make liposomes attractive model systems for studies of membrane active biomolecules The overall aim of this thesis work has been to develop new strategies for triggering and controlling changes in lipid membrane integrity and to study the interactions of membrane active peptides with model lipid membranes using both de novo designed and biologically derived synthetic amphipathic cationic peptides Two different sets of designed peptides have been explored that can fold and heterodimerize into a coiled coil and helix loop helix fourhelix bundle respectively Conjugation of the cationic lysine rich peptides to liposomes triggered a rapid and concentration dependent release The additions of their corresponding glutamic acid rich complementary peptides inhibited the release of liposomal cargo Possibilities to reduce the inhibitory effect by both proteolytic digestion of the inhibitory peptide and by means of heterodimer exchange have been investigated Moreover the effects of peptide size and composition and ability to fold have been studied in order to elucidate the factors that influence the membrane permeabilizing effects of the peptides In addition the membrane activity of a the two peptide bacteriocin PLNC8 and PLNC8 has been explored using liposomes as a model system PLNC8 are expressed by *Lactobacillus plantarum* and were shown to display pronounced membrane partition folding coupling leading to rapid release of liposome encapsulated carboxyfluorescein PLNC8 also kill and suppressed growth of the gram negative bacteria *Porphyromonas gingivalis* by efficiently damaging the bacterial membrane Although membrane active peptides are highly efficient in perturbing lipid membrane integrity possibilities to trigger release using external stimuli are also of large interest for therapeutic applications Light induced heating of liposome encapsulated gold nanoparticles AuNPs has been shown by others as a potential strategy to trigger drug release To facilitate fabrication of thermoplasmonic liposome systems we developed a simple method for synthesis of small AuNPs inside liposomes using the liposomes as nanoscale reaction vessels The work presented in this thesis provides new knowledge and

techniques for future development of liposome based drug delivery systems peptide based therapeutics and increase our understanding of peptide lipid interactions

**Lipids in Photosynthesis: Structure, Function and Genetics** Paul-André Siegenthaler, N. Murata, 2006-04-11 *Lipids in Photosynthesis* provides readers with a comprehensive view of the structure function and genetics of lipids in plants algae and bacteria with special emphasis on the photosynthetic apparatus in thylakoid membranes This volume includes the historical background of the field as well as a full review of our current understanding of the structure and molecular organization of lipids and their role in the functions of photosynthetic membranes The physical properties of membrane lipids in thylakoid membranes and their relationship to photosynthesis are also discussed Other topics include the biosynthesis of glycerolipids and triglycerides reconstitution of photosynthetic structures and activities with lipids lipid protein interactions in the import of proteins into chloroplasts the development of thylakoid membranes as it relates to lipids genetic engineering of the unsaturation of membrane glycerolipids with a focus on the ability of the photosynthetic machinery to tolerate temperature stress and the involvement of chloroplast lipids in the reactions of plants upon exposure to stress This book is intended for a wide audience and should be of interest to advanced undergraduate and graduate students and to researchers active in the field as well as to those scientists whose fields of specialization include the biochemistry physiology molecular biology biophysics and biotechnology of membranes

**Pore-forming Peptides and Protein Toxins** Gianfranco Menestrina, M. Dalla Sera, 2003-01-30 Pore forming proteins and peptides play a central role in bacterial pathogenesis the immune response venomous attack and innate immunity Pore forming Peptides and Protein Toxins describes how natural and synthetic peptides and toxins form pores and ionic channels that cause cell membrane collapse and cell death Written by researchers from around the world it discusses such topics as the channel forming properties of *Helicobacter pylori* and the role of amyloid peptide channels in the development of amyloid diseases This text provides a multidisciplinary approach to understanding the basic principles and cellular mechanisms of the actions of toxins and their potential use as research tools

**Lipids in Protein Misfolding** Olga Gursky, 2015-07-06 Protein conversion from a water soluble native conformation to the insoluble aggregates and fibrils which can deposit in amyloid plaques underlies more than 20 human diseases representing a major public health problem and a scientific challenge Such a conversion is called protein misfolding Protein misfolding can also involve errors in the topology of the folded proteins and their assembly in lipid membranes Lipids are found in nearly all amyloid deposits in vivo and can critically influence protein misfolding in vitro and in vivo in many different ways This book focuses on recent advances in our understanding of the role of lipids in modulating the misfolding of various proteins The main emphasis is on the basic biophysical studies that address molecular basis of protein misfolding and amyloid formation and the role of lipids in this complex process

*Peptide Antibiotics* Christopher Dutton, Mark Haxwell, Hamish McArthur, Richard G. Wax, 2001-12-04 This reference summarizes the latest research on the structure function and design of synthetic and natural peptide antibiotics describing practical

applications of these compounds in food preservation and packaging and in the prevention and treatment of infectious diseases by direct anti bacterial action and as part of the adaptive immune response Peptide Antibiotics discusses these unique compounds and their many and exciting applications including the distribution and classification of diverse antimicrobial peptides throughout nature the role in host defense of mucosal surface peptide antibiotics such as defensins and cathepsins the biosynthesis of lanthionine containing antibiotics including nisin epidermin and mersacidin the genetic basis determining the production of bacterial peptide antibiotics the potential commercial use of magainin nisin and lactacin peptides as anti infective agents the use of nisin as a commercial food preservative With contributions from 19 world renowned experts in the field Peptide Antibiotics is an indispensable source of information for pharmaceutical scientists medicinal and organic chemists and biochemists microbiologists infectious disease specialists molecular biologists and upper level undergraduate and graduate students in these disciplines **Bridging Membrane Biophysics to Microbiology:**

**Innovating Towards New Peptide and Peptide-based Antimicrobials** Miguel A. R. B. Castanho, Lorenzo Stella, Sattar Taheri-Araghi, Sergey A. Akimov, 2022-02-01 Conformation in Biology and Drug Design Sidney Udenfriend, Johannes Meienhofer, Victor J. Hruby, 2014-05-10 The Peptides Analysis Synthesis Biology Volume 7 Conformation in Biology and Drug Design focuses on the analysis of peptides emphasizing the use of physical methods in peptide conformational analysis and the relationship of conformational properties of peptides to biological properties This book consists of nine chapters Chapter 1 provides a brief overview of the perspective on the application of physical methods to peptide conformational analysis The use of circular dichroism CD spectroscopy to examine the conformational properties of peptides in solution is elaborated in Chapter 2 while the use of fluorescence spectroscopy to examine the special relationships of aromatic side chain groups to one another is discussed in Chapter 3 In Chapter 4 the use of various theoretical methods to calculate the conformations of peptides is described The methods used to stimulate peptide conformations and dynamics are outlined in Chapter 5 The last four chapters examine various aspects of the use of nuclear magnetic resonance NMR in peptide conformational analysis This volume is suitable for biologists specialists and researchers interested in peptides and proteins



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