

## 8. Literatur

- Alland L, Peseckis SM, Atherton RE, Berthiaume L und Resh MD (1994)  
Dual Myristoylation and Palmitoylation of Src Family Member p59fyn affects subcellular Localization.  
*J. Biol. Chem.* **269**: 16701-16705
- Altenbach C, Cai K, Khorana G und Hubbell WL (1999)  
Structural Features and Light-Dependent Changes in the Sequence 306-322 Extending from Helix VII to the Palmitoylation Sites in Rhodopsin: A Site-Directed Spin-Labeling Study.  
*Biochemistry* **38**: 7931-7937
- Bañó MC, Jackson CS und Magee AI (1998)  
Pseudo-enzymatic S-acylation of a myristoylated Yes protein tyrosine kinase peptide *in vitro* may reflect non-enzymatic S-acylation *in vivo* .  
*Biochem. J.* **330**: 723-731
- Basi GS, Jacobson RD, Virág I, Schilling J und Skene JHP (1987)  
Primary Structure and transcriptional regulation of GAP-43, a Protein Associated with Nerve Growth.  
*Cell* **49**: 785-791
- Benowitz L und Routtenberg A (1987)  
A membrane phosphoprotein associated with neural development, axonal regeneration, phospholipid metabolism and synaptic plasticity.  
*Trends Neurosci.* **10**: 527-532
- Berger M und Schmidt MFG (1986)  
Characterization of a Protein fatty Acylesterase Present in Microsomal membranes of Deverse Origin.  
*J. Biol. Chem.* **261**: 14912-14918)
- Berger M und Schmidt MFG (1985)  
Protein fatty acyltransferase is located in the rough endoplasmic reticulum.  
*FEBS Lett.* **187**: 289-294.
- Berger M und Schmidt MFG (1984a)  
Identification of acyl donors and acceptor protein for fatty acid acylation in BHK cells infected with Semliki Forest virus.  
*EMBO J.* **3**: 713-719
- Berger M und Schmidt MFG (1984b)  
Cell-free Fatty Acid Acylation of Semliki Forest Viral Polypeptides with Microsome Membranes from Eukaryotic Cells.  
*J. Biol. Chem.* **259**: 7245-7252

- Berthiaume L, Deichaite I, Peseckis S und Resh MD (1994)  
Regulation of Enzymatic Activity by Active Site Fatty Acylation.  
*J. Biol. Chem.* **296**: 6498-6505
- Berthiaume L und Resh MD (1995)  
Biochemical characterization of a palmitoyl acyltransferase activity that palmitoylates myristoylated proteins.  
*J. Biol. Chem.* **270**: 22399-22405
- Bhatnagar RS und Gordon JI (1997)  
Understanding covalent modifications of proteins by lipids: where cell biology and biophysics mingle.  
*Trends in Cell Biol.* **7**: 14-20
- Bhatnagar RS, Futterer K, Waksman G und Gordon JI (1999)  
The structure of myristoyl-CoA: protein N-myristoyltransferase.  
*Biochim. Biophys. Acta* **1441**: 162-172
- Bradford MM (1976)  
A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding.  
*Anal. Biochem.* **72**: 248-254.
- Bonner WM und Laskey RA (1974)  
A film detection method for tritium-labeled proteins and nucleic acids in polyacrylamid gels.  
*Eur. J. Biochem.* **46**: 83-88
- Bouvier M, Moffett S, Loisel TP, Mouillac B, Hérbert T und Chidiac P (1995a)  
Palmitoylation of G-protein-coupled receptors: a dynamic modification with functional consequences.  
*Biochem Soc Trans.* **23**: 116-120
- Bouvier M, Loisel TP und Hérbert T (1995b)  
Dynamic regulation of G-protein coupled receptor palmitoylation: potential role in receptor function.  
*Biochem Soc Trans.* **23**: 577-581
- Burgoyne RD und Morgan A (1998)  
Analysis of regulated exocytosis in adrenal chromafin cells: insights into NSF/SNAP/SNARE function.  
*BioEssays* **20**: 328-335

- Caballero M, Carabana J, Ortego J, Fernandez-Munoz R und Celma ML (1998)  
Measles virus fusion protein is palmitoylated on transmembrane-intracytoplasmic cysteine residues which participate in cell fusion.  
*J. Virol.* **72**: 8198-8204.
- Casey PJ (1995)  
Protein Lipidation in Cell Signalling.  
*Science* **268**: 221-225
- Chapman ER, Estep RP und Storm DR (1992)  
Palmitoylation of neuromodulin (GAP-43) is not required for phosphorylation by protein kinase C *in vivo*.  
*J. Biol. Chem.* **267**: 25233-25238
- Croze EM und Morre DJ (1984)  
Isolation of plasma membrane, golgi apparatus, and endoplasmic reticulum fractions from single homogenates of mouse liver.  
*J. Cell Physiol.* **119**(1):45-57
- Das AK, Dasgupta B, Bhattacharya R und Basu J (1997)  
Purification and biochemical characterization of a protein-palmitoyl acyltransferase from human erythrocytes.  
*J. Biol. Chem.* **272**: 11021-11025
- Davis RA und Vance JE (1996)  
Chapter 17. Structure, assembly, secretion of lipoprotein.  
In: *Biochemistry of Lipids, Lipoproteins and Membranes*.  
Ed. Vance DE and Vance JE. Elsevier, Amsterdam, Netherlands
- Degtyarev MY, Spiegel AM und Jones TLZ (1993)  
The G protein alpha s subunit incorporates [<sup>3</sup>H]palmitic acid and mutation of cysteine-3 prevents this modification.  
*Biochemistry.* **32**: 8057-8061.
- Degtyarev MY, Spiegel AM und Jones TLZ (1994)  
Palmitoylation of a G protein  $\alpha_i$  subunit requires membrane localization not myristoylation.  
*J. Biol. Chem.* **269**: 30989-30903
- Duncan JA und Gilman AG (1996)  
Autoacylation of G protein alpha subunits.  
*J. Biol. Chem.* **271**: 23594-23600

- Dunphy JT, Schroeder H, Leventis R, Greentree WK, Knudsen JK, Silvius JR und Linder ME (2000)  
Differential effects of acyl-CoA binding protein on enzymatic and non-enzymatic thioacylation of protein and peptide substrates.  
*Biochim. Biophys. Acta* **1485**: 185-198
- Dunphy JT und Linder ME (1998)  
Review: Signalling function of protein palmitoylation.  
*Biochim. Biophys. Acta* **1436**: 245-261
- Dunphy JT, Greentree WK, Mansahan CL und Linder ME (1996)  
G-protein Palmitoyltransferase Activity Is Enriched in Plasma Membranes.  
*J. Biol. Chem.* **271**: 7154-7159
- Dunphy WG, Fries E, Urbani LJ und Rothman JE (1981)  
Early and late functions associated with the Golgi apparatus reside in distinct compartments.  
*Proc. Natl. Acad. Sci.* **78**: 7453-7457
- Duronio RJ, Jackson-Machelski E, Heuckeroth RO, Olins PO, Devine CS, Yonemoto W, Slice LW, Taylor SS und Gordon JI (1990)  
Protein N-Myristoylation in *Escherichia coli*: reconstitution of an eukaryotic protein modification in bacteria.  
*Proc. Natl. Acad. Sci. USA* **87**: 1506-1510
- Fasshauer D, Bruns D, Shen B, Jahn R und Brünger AT (1996)  
A Structural Change Occurs upon Binding of Syntaxin to SNAP-25.  
*J. Biol. Chem.* **272**: 4582-2590
- Ferguson MA und Williams AF (1988)  
Cell-surface anchoring of proteins via glycosyl-phosphatidylinositol structures.  
*Annu. Rev. Biochem.* **57**: 285-320
- Fishman MC (1989)  
Genes of neuronal plasticity.  
In: *The Assembly of the Nervous System* (ed. Landmesser LT)  
247-257. New York: Alan R. Liss, Inc.
- Folch-Pi J und Lees M (1951)  
Proteolipids, a new type of tissue lipoproteins. Their isolation from brain.  
*J. Biol. Chem.* **191**: 807-817

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Fraser IDC, Tavalin SJ, Lester LB, Langeberg LK, Westphal AM, Dean RA, Marrion NV und Scott JD (1998)

A novel lipid-anchored A-kinase anchoring protein facilitates cAMP-responsive membrane events.

*EMBO J.* **17**: 2261-2272

Fries E und Helenius A (1979)

Binding of Semliki forest virus and its spike glycoproteins to cells.

*Eur. J. Biochem.* **97**: 213-220

Fütterer K, Murray CL, Bhatnagar RS, Gokel GW, Gordon JI und Waksman G (2001)

Crystallographic phasing of myristoyl-CoA-protein *N*-myristoyltransferase using an iodinated analog of myristoyl-CoA.

*Acta Cryst.* **57**: 393-400

Galbiati F, Guzzi F, Magee AI, Milligan G und Parenti M (1994)

N-terminal fatty acylation of the alpha-subunit of the G-protein Gi1: only the myristoylated protein is a substrate for palmitoylation.

*Biochem. J.* **303**: 697-700

Garoff H und Simons K (1974)

Location of the spike glycoproteins in the Semliki Forest virus membrane.

*Proc. Natl. Acad. Sci. USA.* **71**: 3988-3992

Garoff H, Simons K, Renkonen O (1974)

Isolation and characterization of the membrane proteins of Semliki Forest virus.

*Virology* **61**: 493-504

Garoff H, Frischauf A-M, Simons K, Lehrach H und Delius H (1980)

Nucleotide sequence of cDNA coding for Semliki Forest virus membrane glycoproteins.

*Nature* **288**: 236-241

Gelb MH (1997)

Protein Prenylation et cetera: Signal Transduction in Two Dimensions.

*Science* **275**: 1750-1751

Gonzalo S und Linder ME (1998)

SNAP-25 Palmitoylation and Plasma Membrane Targeting Require Functional Secretory Pathway.

*Mol. Biol. of the Cell* **9**: 585-597

Gonzalo S, Greentree WK und Linder ME (1999)

SNAP-25 is targeted to the plasma membrane through a novel membrane-binding domain.

*J. Biol. Chem.* **274**: 21313-21318

- Gordon JI, Duronio RJ, Fudnick DA, Adams SP und Gokel GW (1991)  
Protein N-myristoylation.  
*J. Biol. Chem.* **266**: 8647-8650
- Gustafsson M, Palmblad M, Curstedt T, Johansson J und Schürch S (2000)  
Palmitoylation of a pulmonary surfactant protein C analogue affects the surface associated lipid reservoir and film stability.  
*Biochim. Biophys. Acta* **1466**: 169-178
- Hallak H, Muszbek M, Laposata M, Belmonte E, Brass, LF und Manning DR (1994)  
Covalent binding of arachidonate to G protein alpha subunit of human platelets.  
*J. Biol. Chem.* **269**: 4713-4716
- Hancock JF, Paterson H und Marshall CJ (1990)  
A polybasic domain or palmitoylation is required in addition to the CAAX motif to localize p21ras to the plasma membrane.  
*Cell* **63**: 133-139
- Hanson PI, Heuser JE und Jahn R (1997)  
Neurotransmitter release – four years of SNARE complexes.  
*Curr. Opin. Neurobiol.* **7**: 310-315
- Heim R, Cubitt AB und Tsien RY (1996)  
Improved green fluorescence.  
*Nature* **373**: 663-664
- Helmreich EJM und Hofmann KP (1996)  
Structure and function of proteins in G-protein-coupled signal transfer.  
*Biochim. Biophys. Acta* **1286**: 285-322
- Hess DT, Slater TM, Wilson MC und Skene JHP (1992)  
The 25 kDa synaptosomal-associated protein SNAP-25 is the major methionine-rich polypeptide in rapid axonal transport and a major substrate for palmitoylation in adult CNS.  
*J. Neurosci.* **12**: 463-4641
- Hess EJ, Collins KA und Wilson MC (1996)  
Mouse model of hyperkinesia implicates SNAP-25 in behavioral regulation.  
*J. Neurosci.* **16**: 3104-3111
- Hochuli E, Bannwarth W, Döbeli H, Gentz R und Stüber D (1988)  
Genetic approach to facilitate purification of recombinant proteins with a novel metal chelate adsorbent.  
*Biotechnology* **6**: 1321-1325

- Hochuli E, Döbeli H und Schacher A (1987)  
New metal chelate adsorbent selective for proteins and peptides containing neighbouring histidine residues.  
*J. Chromatogr.* **411**:177-184
- Hodel A (1998)  
(Molecules in Focus:) SNAP-25.  
*Int. J. Biochem. Cell Biol.* **30**: 1069-1073
- van't Hof W und Resh MD (1997)  
Rapid Plasma Membrane Anchoring of Newly Synthesized p59<sup>fyn</sup>: Selective requirement for NH<sub>2</sub>-Terminal Myristoylation and Palmitoylation at Cysteine-3.  
*Journ. Cell Biol.* **136**: 1023-1035
- Iost I und Dreyfus M (1994)  
mRNAs can be stabilized by DEAD-box proteins.  
*Nature* **372**: 193-196.
- Iost I und Dreyfus M (1995)  
The stability of Escherichia coli lacZ mRNA depends upon the simultaneity of its synthesis and translation.  
*EMBO J.* **14**: 3252-3561.
- Jacobsen RD, Virág I und Skene JHP (1986)  
A protein associated with axon growth, GAP-43, is widely distributed and developmentally regulated in rat CNS.  
*J. Neurosci.* **6**: 2563-2570
- Johansson J (1998)  
Structure and properties of surfactant protein C.  
*Biochim. Biophys. Acta* **1408**: 161-172
- Johnson DR, Bhatnagar RS, Knoll LJ und Gordon JI (1994)  
Genetic and biochemical studies of protein N-myristoylation.  
*Annu. Rev. Biochem.* **63**: 869-914
- Kabouridis PS, Magee AI und Ley SC (1997)  
S-Acylation of LCK protein tyrosine kinase is essential for its signalling function in T-lymphocytes.  
*EMBO Journ.* **16**: 4983-4998
- Karns LR, Ng S-C, Freeman JA und Fishman MC (1987)  
Cloning of Complementary DNA for GAP-43, a Neuronal Growth-Related Protein.  
*Science* **236**: 597-599

- Koegl M, Zlatkine P, Ley SC, Courtneidge SA und Magee AI (1994)  
Palmitoylation of multiple src-family kinases at a homologous N-terminal motif.  
*Biochem. J.* **303**: 749-753
- Kramer A, Volkmer-Engert R, Malin R, Reineke U und Schneider-Mergener J (1993)  
Simultaneous synthesis of peptide libraries on single resin and continuous cellulose  
membrane supports: examples for the identification of protein, metal and DNA  
binding peptide mixtures.  
*Pept Res.* **6**: 314-319
- Kramer A, Schuster, Reineke U, Malin R, Volkmer-Engert R, Landgraf C  
und Schneider-Mergener (1994)  
Combinatorial cellulose-bound peptide libraries: screening tools for the identification  
of peptides that bind ligands with predefined specificity.  
*Com. Meth. Enzymol.* **6**: 388-395
- Laemmli UK (1970)  
Cleavage of structural proteins during the assembly of the head of bacteriophage T4.  
*Nature* **227**: 680-685
- Lambrecht B und Schmidt MF (1986)  
Membrane fusion induced by influenza virus hemagglutinin requires protein bound  
fatty acids.  
*FEBS Lett.* **202**: 127-132
- Leventis R, Juel G, Knudsen JK und Silvius JR (1997)  
Acyl-CoA binding proteins inhibit the nonenzymic S-acylation of cysteinyl-containing  
peptide sequences by long-chain acyl-CoAs.  
*Biochemistry* **36**: 5546-5553
- Linder M, Middleton P, Hepler JR, Taussig R, Gilman AG und Mumby SM (1993)  
Lipid modifications of G proteins:  $\alpha$  subunits are palmitoylated.  
*Proc. Natl. Acad. Sci. USA* **90**: 3675-3679
- Liu J, Hughes TE und Sessa WC (1997)  
The first 35 amino acids and fatty acylation sites determine the molecular targeting of  
endothelial nitric oxide synthase into the Golgi region of cells: a green fluorescent  
protein study.  
*J. Cell Biol.* **137**: 1525-1535
- Liu L, Dudler T und Gelb MH (1996)  
Purification of a Protein Palmitoyltransferase that Acts on H-Ras Protein and on a C-  
terminal N-Ras Peptide.  
*J. Biol. Chem.* **271**: 23269-23276



- Liu Y, Fischer DA und Storm DR (1993)  
Analysis of the palmitoylation and membrane targeting domain of neuromodulin (GAP-43) by site specific mutagenesis.  
*Biochemistry* **32**: 10714-10719
- Liu Y, Fisher DA und Storm DR (1994)  
Intracellular Sorting of Neuromodulin (GAP-43) Mutants Modified in the Membrane Targeting Domain.  
*J. Neurosci.* **14**: 5807-5817
- Lopez PJ, Iost I und Dreyfus M (1994)  
The use of a tRNA as a transcriptional reporter: the T7 late promoter is extremely efficient in Escherichia coli but its transcripts are poorly expressed.  
*Nucleic. Acids. Res.* **22**: 1186-1193
- Lowry OH (1951)  
Protein measurement with folin phenol reagent.  
*J. Biol. Chem.* **193**: 265-275
- Mack D, Berger M, Schmidt MFG und Kruppa J (1986)  
Cell-free Fatty Acylation of Microsomal Integrated and Detergent-solubelized glycoprotein of Vesicular Stomatitis Virus.  
*J. Biol. Chem.* **262**: 4297-4302
- Malin R, Steinbrecher R, Janssen J, Semmler W, Noll B, Johannsen B, Frömmel C, Höhne W und Schneider-Mergener J (1995)  
Identification of Technetium-99m binding peptides using combinatorial cellulose-bound peptide libraries.  
*J. Am. Chem. Soc.* **117**: 11821-11822
- McCabe J und Berthiaume LG (1999)  
Functional Roles for Fatty Acylation NH<sub>2</sub>-terminal Domains in Subcellular Localization.  
*Mol. Biol. Cell* **10**: 3771-3786
- McIlhinney RAJ (1995)  
Characterization and cellular localization of human myristoyl-CoA: protein N-Myristoyltransferase.  
*Biochem. Soc. Trans.* **23**: 549-553
- McLaughlin RE und Denny JB (1999)  
Palmitoylation of GAP-43 by the ER-Golgi intermediate compartment and Golgi apparatus.  
*Biochim. Biophys. Acta* **1451**: 82-92

- Mehta PP, Battenberg E und Wilson MC (1996)  
SNAP-25 and synaptotagmin involvement in the final Ca(2+)-dependent triggering of neurotransmitter exocytosis.  
*Proc. Natl. Acad. Sci. USA* **93**: 10471-10476.
- Methews CK und van Holde KE (1990)  
Biochemistry.  
The Benjamin/Cummings Publishing Company, Redwood City, Ca, USA
- Milligan G, Parenti M und Magee AI (1995)  
The dynamic role of palmitoylation in signal transduction.  
*Trends. Biochem. Sci.* **20**: 181-187. (Review)
- Mumby SM, Kleuss C und Gilman AG (1994)  
Receptor regulation of G-protein palmitoylation.  
*Proc. Natl. Acad. Sci. USA* **91**: 2800-2804
- Nakamura F, Strittmatter P und Strittmatter SM (1998)  
GAP-43 augmentation of G protein-mediated signal transduction is regulated by both phosphorylation and palmitoylation.  
*J. Neurochem.* **70**: 983-992
- Nomenclature Committee of the International Union of Biochemistry (1984)  
Enzyme Nomenclature.  
*Academic Press*, Orlando, Fla.
- O'Brien PJ und Zatz M (1984)  
Acylation of Bovine Rhodopsin by [<sup>3</sup>H]Palmitic Acid.  
*J. Biol. Chem.* **259**: 5054-5057
- Oestreicher AB, De Graan PN, Gispén WH, Verhaagen J und Schrama LH (1997)  
B-50, the growth associated protein-43: modulation of cell morphology and communication in the nervous system.  
*Prog. Neurobiol.* **53**: 627-686
- Ovchinnikov YuA, Abdulaev NG und Bogachuk AS (1988)  
Two adjacent cysteine residues in the C-terminal cytoplasmic fragment of bovine rhodopsin are palmitoylated.  
*FEBS Lett.* **230(1-2)**:1-5
- Palmblad M, Gustafsson M, Curstedt T, Johansson J und Schürch S (2001)  
Surface activity and film formation from the surface associated material of artificial surfactant preparations.  
*Biochim. Biophys. Acta* **1510**: 106-117

- Papac DI, Thornburg KR, Büllsbach EE, Crouch RK und Knapp DR (1992)  
Palmitoylation of a Protein coupled Receptor.  
*J. Biol. Chem.* **267**: 16889-16894
- Parat MO und Fox PL (2001)  
Palmitoylation of caveolin-1 in endothelial cells is post-translational but irreversible.  
*J Biol Chem.* **276**: 15776-15782.
- Parenti M, Vigano MA, Newman CM, Milligan G und Magee AI (1993)  
A novel N-terminal motif for palmitoylation of G-protein alpha subunits.  
*Biochem. J.* **291**: 349-353
- Peitzsch RM und McLaughlin S (1993)  
Binding of acylated peptides and fatty acids to phospholipid vesicles: pertinence to myristoylated proteins.  
*Biochemistry* **32**: 10436-10443
- Philipp HC, Schroth B, Veit M, Krumbiegel M, Herrmann A, Schmidt MF (1995)  
Assessment of fusogenic properties of influenza virus hemagglutinin deacylated by site-directed mutagenesis and hydroxylamine treatment.  
*Virology* **210**: 20-28
- Ponimaskin E und Schmidt MFG (1995)  
Acylation of viral glycoproteins: structural requirements for palmitoylation of transmembrane proteins.  
*Biochem. Soc. Trans.* **23**: 565-568
- Pschyrembel (1998)  
Klinisches Wörterbuch. 258., neu bearb. Aufl.  
Helmut Hildebrandt (Leiter der Redaktion), de Gruyter, Berlin
- Qanbar R, Cheng S, Possmayer F und Schürch S (1996)  
Role of the palmitoylation of surfactant-associated protein C in surfactant film formation and stability.  
*Am. J. Physiol.* **271**: L572-580.
- Resh MD (1996)  
Regulation of cellular signaling by fatty acid acylation and prenylation of signal transduction proteins.  
*Cell Signaling* **8**: 403-412
- Resh MD (1999)  
Fatty acylation of proteins: new insights into membrane targeting of myristoylated and palmitoylated proteins.  
*Biochim. Biophys. Acta* **1451**: 1-16

- Reverey H (1996)  
S-Acylierung viraler Glykoproteine: Strukturelle Voraussetzungen für die Bindung von Stearinsäure.  
Dissertation: Freie Universität Berlin, Fachbereich Veterinärmedizin, Journal-Nr. **1952**
- Rothman JE (1994)  
Mechanisms of intracellular protein transport.  
*Nature* **372**: 55-63
- Rouso I, Mixon MB, Chen BK, Kim PS (2000)  
Palmitoylation of the HIV-1 envelope glycoprotein is critical for viral infectivity.  
*Proc. Natl. Acad. Sci. USA* **97**: 13523-13525
- Sachs K, Maretzki D, Meyer CK und Hofmann KP (2000)  
Diffusible Ligand all-*trans*-retinal Activates Opsin via a Palmitoylation-dependent Mechanism.  
*J. Biol. Chem.* **275**: 6189-6194
- Sadoul K, Berger A, Niemann H, Regazzi R, Catsicas S, Halban PA (1997)  
SNAP-25 can self-associate to form a disulfide-linked complex.  
*Biol. Chem.* **378**: 1171-1176
- Sambrook J, Fritsch EF und Maniatis T (1989)  
Molecular Cloning: A Laboratory Manual.  
Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA
- Schlesinger MJ (1985)  
Replication of Togaviruses. (Chapter 43)  
In: *Virology*, ed. Fields BN *et al.*, Raven Press, New York, USA
- Schlesinger MJ, Veit M und Schmidt MFG (1993)  
Palmitoylation of cellular and viral proteins.  
In: *Lipid modifications of Proteins*, ed. Schlesinger MJ, CRC Press, Boca Raton, 1-19
- Schmidt MFG (1982)  
Acylation of protein – a new type of modification of membrane glycoproteins.  
*Trends Biochem. Sci.* **7**: 322-324
- Schmidt MFG (1984)  
The transfer of myristic and other fatty acids on lipid and viral protein acceptors in cultured cells infected with Semliki Forest and influenza virus.  
*EMBO J.* **3**: 2295-300

- Schmidt MFG (1989)  
Fatty acylation of proteins.  
*Biochim. Biophys. Acta* **988**: 411-426
- Schmidt MFG und Schlesinger MJ (1979)  
Fatty acid binding to vesicular stomatitis virus glycoprotein  
- a new type of posttranslational modification of the viral glycoprotein.  
*Cell* **17**: 813-817
- Schmidt MFG und Burns GR (1989a)  
Hydrophobic modification of membrane proteins by palmitoylation *in vitro*.  
*Biochem. Soc. Trans.* **17**: 625-626
- Schmidt MFG und Burns GR (1989b)  
Solubilization of protein fatty acyltransferase from placental membranes and cell-free  
acyl transfer on to exogenous and endogenous acceptors.  
*Biochem. Soc. Trans.* **17**: 859-861
- Schmidt MFG und Burns GR (1991)  
On the Enzymes which Make "Fatty Proteins".  
*Behring Inst. Mitt.* **89**: 185-197
- Schmidt MFG, Bracha MJ und Schlesinger MJ (1979)  
Evidence for covalent attachment of fatty acids to Sindbis virus glycoproteins.  
*Proc. Natl. Acad. Sci. USA* **76**: 1687-1691
- Schmidt MFG, McIlhinney RAJ und Burns GR (1995)  
Palmitoylation of endogenous and viral acceptor proteins by fatty acyltransferase  
(PAT) present in erythrocyte ghosts and in placental membranes.  
*Biochim. Biophys. Acta* **1257**: 205-213
- Schmidt M, Schmidt MFG und Rott R (1988)  
Chemical Identification of Cysteine as Palmitoylation Site in a Transmembrane  
Protein (Semliki Forest Virus E1).  
*J. Biol. Chem.* **263**: 18635-18639
- Schroeder H, Leventis R, Shahinian S, Walton PA und Silviu JR (1996)  
Lipid-modified, Cysteinylyl-containing Peptides of Diverse Structures Are Efficiently  
S-Acylated at the Plasma Membrane of Mammalian Cells.  
*J. Cell Biol.* **134** (3): 647-660
- Shahinian S und Silviu S (1995)  
Doubly-lipid-modified sequence motifs exhibit longlived anchorage to lipid bilayer  
membranes.  
*Biochemistry* **34**: 3814-3822

- da Silva AM und Klein C (1990)  
A rapid posttranslational myristylation of a 68-kD protein in *D. discoideum*.  
*J. Cell. Biol.* **111**, 401-407
- Skene JHP (1989)  
Axonal growth associated proteins.  
*Annu. Rev. Neurosci.* **12**: 127-156
- Skene JHP und Virág I (1989)  
Post-translational membrane attachment and dynamic fatty acylation of neuronal growth cone protein, GAP-43.  
*J. Cell. Biol.* **108**: 613-624
- Strittmatter SM, Vartanian T und Fishman MC (1992)  
GAP-43 as a neuronal plasticity protein in neuronal form and repair.  
*J. Neurobiol.* **23**: 507-520
- Strittmatter SM, Igarashi M und Fishman MC (1994)  
GAP-43 amino terminal peptides modulate growth cone morphology and neurite outgrowth.  
*J. Neurosci.* **14**:5503-5513.
- Sudo Y, Valenzuela D, Beck-Sickinger AG, Fishman MC, Strittmatter SM (1992)  
Palmitoylation alters protein activity: blockade of G<sub>o</sub> stimulation of GAP-43.  
*EMBO J.* **11**: 2095-2102
- Towler DA, Gordon JI, Adams SP und Glaser L (1988)  
The biology and enzymology of eukaryotic protein acylation.  
*Ann. Rev. Biochem.* **57**: 69-99
- Udenfriend S und Kodukula K (1995)  
How glycosylphosphatidylinositol-anchored membrane proteins are made.  
*Annu. Rev. Biochem.* **64**:563-591
- Uterman G und Simons HJ (1974)  
Studies on the amphipathic nature of the membrane proteins in Semliki Forest virus.  
*J. Molec. Biol.* **85**: 569-587
- Van Cott EM, Muszbek L und Laosata M, (1997)  
Fatty acid acylation of platelet proteins.  
*Prostaglandins Leukot. Essent. Fatty acids* **57**: 33-37
- Veit M, Söllner TH und Rothman JE (1996)  
Multiple palmitoylation of synaptotagmin and the t-SNARE SNAP-25.  
*FEBS Lett.* **385**: 119-123

- Veit M und Schmidt MFG (1998)  
Membrane Targeting via protein palmitoylation.  
*Methods in Mol. Biol.* **88**: 227-239
- Veit M, Sachs K, Heckelmann M, Maretzki D, Hofmann KP und Schmidt MFG (1998)  
Palmitoylation of rhodopsin with S-protein acyltransferase: enzyme catalyzed reaction versus autocatalytic acylation.  
*Biochim. Biophys. Acta* **1394**: 90-98
- Veit M (1999)  
Molekularbiologie der Neurosekretion und ihre Hemmung durch Tetanus- und Botulinum-Toxin (Übersichtsreferat).  
*Berl. Münch. Tierärztl. Wschr.* **112**: 186-191
- Veit M (2000)  
Palmitoylation of the 25-kDa synaptosomal protein (SNAP-25) *in vitro* occurs in the absence of an enzyme, but is stimulated by binding to syntaxin.  
*Biochem. J.* **345**: 145-151
- Wilson MC, Mehta PP und Hess EJ (1996)  
SNAP-25, enSNAREd in neurotransmission and regulation of behaviour.  
*Biochem. Soc. Trans.* **24**: 670-676
- Wold F (1981)  
*In vivo* chemical modifications of proteins (post-translational modification).  
*Annu. Rev. Biochem.* **50**: 783-814
- Yurchak LK und Sefton B (1995)  
Palmitoylation of Either Cys-3 or Cys-5 Is Required for the Biological Activity of the Lck Tyrosine Protein Kinase.  
*Molecular and Cellular Biology* **15**: 6914-6922
- Zhang FL und Casey PJ (1996)  
Protein Prenylation: Molecular Mechanisms and Functional Consequences.  
*Annu. Rev. Biochem.* **65**: 241-69
- Zhao Y, McCabe JB, Vance J, Berthiaume LG (2000)  
Palmitoylation of apolipoprotein B is required for proper intracellular sorting and transport of cholesteroyl esters and triglycerides.  
*Mol. Biol. Cell.* **11**: 721-734.
- Zwiers H, Schotman P und Gipsen WH (1976)  
ACTH, cytosolic nucleotides, and brain protein phosphorylation *in vitro*.  
*Neurochem. Res.* **1**: 669-677