

## 7. Literaturverzeichnis

Akiyama, S.K. and K.M. Yamada (1987)

**Biosynthesis and acquisition of biological activity of the fibronectin receptor**

J Biol Chem, 262: 17536-17542

Akiyama, S.K., S.S. Yamada and K.M. Yamada (1989)

**Analysis of the role of glycosylation of the human fibronectin receptor**

J Biol Chem, 264: 18011-18018

Baliktay, A. (2000)

**Sialinsäureanaloga – Ein neuer Weg der Immunstimulation**

Dissertation, Fachbereich Humanmedizin, Freie Universität Berlin

Bevilacqua, M.P., J.S. Pober, M.E. Wheeler, R.S. Cotran and M.A. Gimbrone Jr. (1985)

**Interleukin 1 acts on cultured human vascular endothelium to increase the adhesion of polymorphonuclear leukocytes, monocytes and related leukocyte cell lines**

J Clin Invest, 76: 2003-2011

Bevilacqua, M.P., J.S. Pober, D.L. Mendrick, R.S. Cotran and M.A. Gimbrone Jr. (1987)

**Identification of an inducible endothelial-leukocyte adhesion molecule**

Proc Natl Acad Sci USA, 84: 9238-9242

Bhaskar, K.P., P. Garik, B.S. Turner, J.D. Bradley, R. Bansil, H.E. Stanley and J.T. LaMont (1992)

**Viscous fingering of HCL through gastric mucin**

Nature, 360: 458-461

Biessen, E.A., H. Vietsch and T.J. Van Berkel (1994)

**Cholesterol derivative of a new triantennary cluster galactoside directs low- and high-density lipoproteins to the parenchymal liver cell**

Biochem J, 302: 283-289

Biessen, E.A., H. Broxtermann, J.H. van Boom and T.J. van Berkel (1995)

**The cholesterol derivative of a triantennary galactoside with high affinity for hepatic asialoglycoprotein receptor: a potent cholesterol lowering agent**

J Med Chem, 38: 1846-1852

Bijsterbosch, M.K., H.F. Bakkeren, H.J. Kempen, H.C. Roelen, J.H. van Boom and T.J. van Berkel (1992)

**A monogalactosylated cholesterol derivative that specifically induces uptake of LDL by the liver**

Arterioscler Thromb, 12: 1153-1160

Bohnsack, J.F. and J. Chang (1994)

**Activation of beta 1 integrin fibronectin receptors on HL-60 cells after granulocytic differentiation**

Blood, 83: 543-552

Bohnsack, J.F., J. Chang, X. Zhou and T. A. Yednock (1995)

**Mechanisms of  $\beta$ 1 integrin-dependent adherence of granulocytic HL-60 to fibronectin**

J Leuk Biol, 57: 592-599

Brossmer, R., B. Bohn and C. Thies (1977)

**Modification of tumor cells by covalent attachment of N-acetyl-D-neuraminic acid to the cell surface**

Eur J Cancer, 13: 1151-1153

Büttner, B., C. Kannicht, C. Schmidt, K. Löster, W. Reutter, H.Y. Lee, S. Nöhring and R. Horstkorte (2002)

**Biochemical engineering of cell surface sialic acids stimulates axonal growth**

J Neuroscience, 22: 8869-8875

Burridge, K., K. Fath, T. Kelly, G. Nuckolls and C. Turner (1988)

**Focal adhesions: transmembrane junctions between the extracellular matrix and the cytoskeleton**

Annu Rev Cell Biol, 4: 487-525

aus Sánchez-Mateos, P. et al. (1996), Regulation of integrin function, Semin Cancer Biol, 7: 99-109

Calvete, J.J., A. Henschen and J. Gonzalez-Rodriguez (1991)

**Assignment of disulphide bonds in human platelet GPIIIa. A disulphide pattern for the beta-subunits of the integrin family**

Biochem J, 274: 63-71

Collins, B.E., T.J. Fralich, S. Itonori, Y. Ichikawa and R.L. Schnaar (2000)

**Conversion of cellular sialic acid expression from N-acetyl- to N-glycolylneuraminic acid using a synthetic precursor, N-glycolylmannosamine pentaacetate: inhibition of myelin-associated glycoprotein binding to neural cells**

Glycobiology, 10: 11-20

Corfield, A.P., S.A. Wagner, A. Safe, R.A. Mountford, J.R. Clamp, J.P. Kamerling, J.F. Vliegthart and R. Schauer (1993)

**Sialic acids in human gastric aspirates: detection of 9-O-lactyl- and 9-O-acetyl-N-acetylneuraminic acids and a decrease in total sialic acid concentration with age**

Clin Sci (Lond), 84: 573-579

Dalton, W.T. Jr., M.J. Ahearn, K.B. McCredie, E.J. Freireich, S.A. Stass and J.M. Trujillo (1988)

**HL-60 cell line was derived from a patient with FAB-M2 and not FAB-M3**

Blood, 71: 242-247

Danilov, Y.N. and R.L. Juliano (1989)

**Phorbol ester modulation of integrin-mediated cell adhesion: a postreceptor event**  
J Cell Biol, 108: 1925-1933

Drexler, H.G., H. Quentmeier, R.A. MacLeod, C.C. Uphoff and Z.B. Hu (1995)

**Leukemia cell lines: in vitro models for the study of acute promyelocytic leukemia**  
Leuk Res, 19: 681-691

Du, X.P., E.F. Plow, A.L. Frelinger 3<sup>rd</sup>, T.E. O'Toole, J.C. Loftus and M.H. Ginsberg (1991)

**Ligands "activate" integrin alpha IIb beta 3 (platelet GPIIb-IIIa)**  
Cell, 65: 409-416

Fath, K.R., C.J. Edgell and K. Burridge (1989)

**The distribution of distinct integrins in focal contacts is determined by the substratum composition**  
J Cell Sci, 92: 67-75

Faull, R.J., N.L. Kovach, J.M. Harlan and M.H. Ginsberg (1994)

**Stimulation of integrin-mediated adhesion of T lymphocytes and monocytes: two mechanisms with divergent biological consequences**  
J Exp Med, 179: 1307-1316

Freeman S.D., S. Kelm, E.K. Barber and P.R. Crocker (1995)

**Characterization of CD33 as a new member of the sialoadhesin family of cellular interaction molecules**  
Blood, 85: 2005-2012

Gailit, J. and E. Rouslahti (1988)

**Regulation of the fibronectin receptor affinity by divalent cations**  
J Biol Chem, 263: 12927-12932

Gallagher, R., S. Collins, J. Trujillo, K. McCredie, M. Ahearn, S. Tsai, R. Metzgar, G. Aulakh, R. Ting, F. Ruscetti and R. Gallo (1979)

**Characterization of the continuous differentiating myeloid cell line (HL-60) from a patient with acute promyelocytic leukemia**  
Blood, 54: 713-733

Giancotti, F.G. and E. Rouslahti (1999)

**Integrin signaling**  
Science, 285: 1028-1032

Green, P.J., T. Tamatani, T. Watanabe, M. Miyasaka, A. Hasegawa, M. Kiso, C.T. Yuen, M.S. Stoll and T. Feizi (1992)

**High affinity binding of the leucocyte adhesion molecule L-selectin to 3'-sulphated-Le(a) and -Le(x) oligosaccharides and the predominance of sulphate in this interaction demonstrated by binding studies with a series of lipid-linked oligosaccharides**  
Biochem. Biophys Res Commun, 188: 244-251

Green, P.J., C.T. Yuen, R.A. Childs, W. Chai, M. Miyasaka, R. Lemoine, A. Lubineau, B. Smith, H. Ueno, K.C. Nicolaou et al. (1995)

**Further studies of the binding specificity of the leukocyte adhesion molecule, L-selectin, towards sulphated oligosaccharides-suggestion of a link between the selectin- and the integrin-mediated lymphocyte adhesion systems**

Glycobiology, 5: 29-38

Gross, H.J. and R. Brossmer (1995)

**Enzymatic transfer of sialic acids modified at C-5 employing four different sialyltransferases**

Glycoconj J, 12: 739-46

Haverstick, D.M., H. Sakai and L.S. Gray (1992)

**Lymphocyte adhesion can be regulated by cytoskeleton-associated, PMA-induced capping of surface receptors**

Am J Physiol, 262: C916-C926

Hemler, M.E., F. Sanchez-Madrid, T.J. Flotte, A.M. Krensky, S.J. Burakoff, A.K. Bhan, T.A. Springer and J.L. Strominger (1984)

**Glycoproteins of 210,000 and 130,000 m.w. on activated T cells: cell distribution and antigenic relation to components on resting cells and T cell lines**

J Immunol, 132: 3011-3018

Hemler, M.E., C. Huang and L. Schwarz (1987)

**The VLA protein family. Characterization of five distinct cell surface heterodimers each with a common 130,000 molecular weight beta subunit**

J Biol Chem, 262: 3300-3309

Herrmann, M., C.W. von der Lieth, P. Stehling, W. Reutter and M. Pawlita (1997)

**Consequences of subtle sialic acid modification on the murine polyomavirus receptor**

J Virol, 71: 5922-5931

Hinderlich, S. (1997)

**Charakterisierung der UDP-N-Acetylglucosamin-2-Epimerase/N-Acetylmannosamin-kinase als bifunktionelles Enzym**

Dissertation, 45-54, Fachbereich Chemie, Freie Universität Berlin

Hirst, G.K. (1941)

**Agglutination of red cells by allantoic fluid of chick embryos infected with influenza virus**

Science, 94: 22-23

Hirst, G.K. (1942)

**Adsorption of influenza virus hemagglutinins and virus by red blood cells**

J Exp Med, 76: 195-209

aus Kelm, S. et al. (1997), Sialic acids in molecular and cellular interactions, Intern Review Cyto, 175: 137-240

- Horstkorte, R., N. Lessner, R. Gerardy-Schahn, L. Lucka, K. Danker and W. Reutter (1999)  
**Expression of the polysialyltransferase ST8SiaIV: polysialylation interferes with adhesion of PC12 cells in vitro**  
Exp Cell Res, 246: 122-128
- Horstkorte, R., H-Y. Lee, L. Lucka, K. Danker, L. Mantey and W. Reutter (2001)  
**Biochemical engineering of the side chain of sialic acids increases the biological stability of the highly sialylated cell adhesion molecule CEACAM1**  
Bioch Biophys Res Com, 283: 31-35
- Horwitz, A.F. (1998)  
**Integrine**  
Spektrum der Wissenschaft, Jan: 86-94
- Hudgin, R.L. and G. Ashwell (1974)  
**Studies on the role of glycosyltransferases in the hepatic binding of asialoglycoproteins**  
J Biol Chem, 249: 7269-7272
- Humphries, M.J. (1996)  
**Integrin activation: the link between ligand binding and signal transduction**  
Curr Opin Cell Biol, 8: 632-640
- Hynes, R.O. (1992)  
**Integrins: versatility, modulation and signaling in cell adhesion**  
Cell, 69: 11-25
- Janicik, J.M., R. Schauer, K.H. Andres and M. von Düring (1978)  
**Sequestration of neuraminidase-treated erythrocytes. Studies on its topographic, morphologic and immunologic aspects**  
Cell Tissue Res, 186: 209-226
- Kawai, T., A. Kato, H. Higashi, S. Kato and M. Naiki (1991)  
**Quantitative determination of N-glycolylneuraminic acid expression in human cancerous tissues and avian lymphoma cell lines as a tumor-associated sialic acid by gas chromatography-mass spectrometry**  
Cancer Res, 51: 1242-1246  
aus Schüler, C., Sialinsäureanaloge- Neue Modulatoren zellbiologischer Funktionen von humanen Immun- und Tumorzellen, Dissertation, Berlin 1997
- Kaufmann, S.H., R. Schauer and H. Hahn (1981)  
**Carbohydrate surface constituents of T cells mediating delayed-type hypersensitivity that control entry into sites of antigen deposition**  
Immunobiology, 160: 184-195

- Kayser, H., R. Zeitler, C. Kannicht, D. Grunow, R. Nuck and W. Reutter (1992)  
**Biosynthesis of a nonphysiological sialic acid in different rat organs, using N-propanoyl-D-hexosamines as precursors**  
J Biol Chem, 267: 16934-16938
- Kean, E.L. (1970)  
**Nuclear cytidine 5'-monophosphosialic acid synthetase**  
J Biol Chem, 245: 2301-2308
- Kelm, S., R. Schauer, J.C. Manuguerra, H.J. Gross and P.R. Crocker (1994)  
**Modifications of cell surface sialic acids modulate cell adhesion mediated by sialoadhesin and CD22**  
Glycoconj J, 11: 576-585
- Kelm, S. and R. Schauer. (1997)  
**Sialic acids in molecular and cellular interactions**  
Intern Review Cyto, 175: 137-240
- Keppler, O.T., P. Stehling, M. Herrmann, H. Kayser, D. Grunow, W. Reutter and M. Pawlita (1995)  
**Biosynthetic modulation of sialic acid-dependent virus-receptor interactions of two primate polyomaviruses**  
J Biol Chem, 270: 1308-1314
- Keppler, O.T., M. Herrmann, C.W. von der Lieth, P. Stehling, W. Reutter and M. Pawlita (1998)  
**Elongation of the N-acyl side chain of sialic acids in MDCK II cells inhibits influenza A virus infection**  
Biochem Biophys Res Commun, 253: 437-442
- Keppler, O.T., S. Hinderlich, J. Langner, R. Schwartz-Albiez, W. Reutter and M. Pawlita (1999)  
**UDP-GlcNAc 2-epimerase: a regulator of cell surface sialylation**  
Science, 284: 1372-1376
- Kerst, J.M., J.B. Sanders, I.C. Slaper-Cortenbach, M.C. Doorackers, B. Hooibrink, R.H. van Oers, A.E. von dem Borne and C.E. van der Schoot (1993)  
**Alpha 4 beta 1 and alpha 5 beta 1 are differentially expressed during myelopoiesis and mediate the adherence of human CD34+ cells to fibronectin in an activation-dependent way**  
Blood, 81: 344-351
- Kirchhofer, D., J. Gailit, E. Rouslahti, J. Grzesiak and M.D. Pierschbacher (1990)  
**Cation-dependent changes in the binding specificity of the platelet receptor GPIIb/IIIa**  
J Biol Chem, 265: 18525-18530

- Kirchhofer, D., J. Grzesiak and M.D. Pierschbacher (1991)  
**Calcium as a potential physiological regulator of integrin-mediated cell adhesion**  
J Biol Chem, 266: 4471-4477
- Koivisto, L., J. Heino, L. Hakkinen and H. Larijva (1994)  
**The size of the intracellular beta 1-integrin precursor pool regulates maturation of beta 1-integrin subunit and associated alpha-subunits**  
Biochem J, 300: 771-779
- Krauss, G. (1997)  
**Biochemie der Regulation und Signaltransduktion**  
Wiley-VCH, Weinheim: 263-272
- Kuhn, R. und R. Brossmer, (1962)  
**Die Konfiguration der Sialinsäuren**  
Angew. Chem., 74: 252-253  
aus Stehling, P., In *in vivo*-Modulation der Glycosylierung von Membranproteinen durch N-Propanoyl-D-mannosamin, Dissertation, Berlin 1998
- Kuster, J.M. and R. Schauer (1981)  
**Phagocytosis of sialidase-treated rat erythrocytes: evidence for a two-step mechanism**  
Hoppe Seylers Z Physiol Chem, 362: 1507-1514
- Laemmli, U.K. (1970)  
**Cleavage of structural proteins during the assembly of the head of bacteriophage T4**  
Nature, 227: 680-685
- Lee, H.Y., S. Kelm, J.C. Michalski and R. Schauer (1990)  
**Influence of sialic acids on the galactose-recognizing receptor of rat peritoneal macrophages**  
Biol Chem Hoppe Seyler, 371: 307-316
- Lee, J.H., T.J. Baker, L.K. Mahal, J. Zabner, C.R. Bertozzi, D.F. Wiemer and M.J. Welsh (1999)  
**Engineering novel cell surface receptors for virus mediated gene transfer**  
J Biol Chem, 274: 21878-21884
- Lemieux, G.A. and C.R. Bertozzi (2001)  
**Modulating cell surface immunoreactivity by metabolic induction of unnatural carbohydrate antigens**  
Chemistry & Biology, 8: 265-275
- Liscovitch, M. (1992)  
**Crosstalk among multiple signal-activated phospholipases**  
Trends Biochem Sci, 17: 393-399  
aus Krauss, G. (1997), Biochemie der Regulation und Signaltransduktion. Kap.: Die PKC-Familie, Wiley-VCH

Liu, T., Z. Guo, Q. Yang, S. Sad and H.J. Jennings (2000)

**Biochemical engineering of surface alpha2-8 polysialic acid for immuntargeting tumor cells**

J Biol Chem, 275: 32832-32836

Lodish, H.F. (1991)

**Recognition of complex oligosaccharides by the multi-subunit asialoglycoprotein receptor**

Trends Biochem Sci, 16: 374-377

Loftus, J.C., T.E. O'Toole, E.F. Plow, A. Glass, A.L. Frelinger 3<sup>rd</sup> and M.H. Ginsberg (1990)

**A beta 3 integrin mutation abolishes ligand binding and alters divalent cation-dependent conformation**

Science, 249: 915-918

Löffler, G. und P.E. Petrides (1997)

**Biochemie und Pathobiochemie**

Springer-Verlag, Berlin, Heidelberg

Löster, K. and R. Horstkorte (2000)

**Enzymatic quantification of cell-matrix and cell-cell adhesion**

Micron, 31: 41-53

Mahal, L.K., K.J. Yarema and C.R. Bertozzi (1997)

**Engineering chemical reactivity on cell surfaces through oligosaccharide biosynthesis**

Science, 276: 1125-1128

Mantey, L.R., O.T. Keppler, M. Pawlita, W. Reutter and S. Hinderlich (2001)

**Efficient biochemical engineering of cellular sialic acids using an unphysiological sialic acid precursor in cells lacking UDP-N-Acetylglucosamine 2-epimerase**

FEBS Lett, 503: 80-84

McClelland, L. and R. Hare (1941)

**The adsorption of influenza virus by red cells and a new in vitro method of measuring antibodies for influenza virus in the embryonated egg**

Can J Public Health, 32: 530-538

Miyamoto, S., H. Teramoto, O.A. Coso, J.S. Gutkind, P.D. Burbelo, S.K. Akiyama and K.M. Yamada (1995)

**Integrin function: molecular hierarchies of cytoskeletal and signaling molecules**

J Cell Biol, 131: 791-805

Monto A.S., D.P. Robinson, M.L. Herlocher, J.M. Jr Hinson, M.J. Elliott and A. Crisp (1999)

**Zanamivir in the prevention of influenza among healthy adults: a randomized controlled trial**

Jama, 282: 31-35



- Morell, A.G., G. Gregoriadis, I.H. Scheinberg, J. Hickman and G. Ashwell (1971)  
**The role of sialic acid in determining the survival of glycoproteins in the circulation**  
J Biol Chem, 246: 1461-1467
- Nagamura, Y. and H. Kolb (1980)  
**Presence of a lectin-like receptor for D-galactose on rat peritoneal macrophages**  
FEBS Lett, 115: 59-62
- Ng, T., D. Shima, A. Squire, P.I.H. Bastiaens, S. Gschmeissner, M.J. Humphries and P.J. Parker (1999)  
**PKC $\alpha$  regulates  $\beta$ 1-integrin-dependent cell motility through association and control of integrin traffic**  
EMBO J, 18: 3909-3923
- Oetke, C., S. Hinderlich, W. Reutter and M. Pawlita (2003)  
**Epigenetically mediated loss of UDP-GlcNAc 2-epimerase/ManNAc kinase expression in hyposialylated cell lines**  
Biochem Biophys Res Commun, 308: 892-898
- Paulson, J.C. and K.J. Colley (1989)  
**Glycosyltransferases. Structure, localization and control of cell type-specific glycosylation**  
J Biol Chem, 264: 17615-17618
- Pischel, K.D., M.E. Hemler, C. Huang, H.G. Bluestein and V.L. Jr. Woods (1987)  
**Use of the monoclonal antibody 12F1 to characterize the differentiation antigen VLA-2**  
J Immunol, 138: 226-233
- Powell, L.D. and A. Varki (1995)  
**I-type lectins**  
J Biol Chem, 270: 14243-14246
- Pretzlaff, R.K., V.W. Xue and M.E. Rowin (2000)  
**Sialidase treatment exposes the beta1-integrin active ligand binding site on HL-60 cells and increases binding to fibronectin**  
Cell Adhes Commun, 7: 491-500
- Regen C.M. and A.F. Horwitz (1992)  
**Dynamics of beta 1 integrin-mediated adhesive contacts in motile fibroblasts**  
J Cell Biol, 119: 1347-1359
- Rosa, J.P. and R.P. McEver (1989)  
**Processing and assembly of the integrin, glycoprotein IIb-IIIa, in HEL cells**  
J Biol Chem, 264: 12596-12603

Rouslahti, E. (1991)

**Integrins**

J Clin Invest, 87: 1-5

Rowin, M.E., R.E. Whatley, T. Yednock and J.F. Bohnsack (1998)

**Intracellular calcium requirements for beta1 integrin activation**

J Cell Physiol, 175: 193-202

Sanchez-Aparicio, P., C. Dominguez-Jimenez and A. Garcia-Pardo (1994)

**Activation of the alpha 4 beta 1 integrin through the beta 1 subunit induces recognition of the RGDS sequence in fibronectin**

J Cell Biol, 126: 271-279

Sánchez-Mateos, P., C. Cabanas and F. Sánchez-Madrid (1996)

**Regulation of integrin function**

Semin Cancer Biol, 7: 99-109

Schauer, R., C. Fischer, A. Kluge, H. Lee and B. Ruch (1990)

**Mechanism of binding and uptake of sialidase-treated blood cells and glycoproteins by the galactose-specific receptor of rat peritoneal macrophages**

Biomed Biochem Acta, 49: 230-235

Schmidt, C., P. Stehling, J. Schnitzer, W. Reutter and R. Horstkorte (1998)

**Biochemical engineering of neural cell surfaces by the synthetic N-propanoyl-substituted neuraminic acid precursor**

J Biol Chem, 273: 19146-19152

Schmidt, C., C. Ohlemeyer, H. Kettenmann, W. Reutter and R. Horstkorte (2000)

**Incorporation of N-propanoylneuraminic acid leads to calcium oscillations in oligodendrocytes upon the application of GABA**

FEBS Lett, 478: 276-280

Schüler, C. (1997)

**Sialinsäureanaloge – Neue Modulatoren zellbiologischer Funktionen von humanen Immun- und Tumorzellen**

Dissertation, Fachbereich Biologie, Freie Universität Berlin

Schwartz, A.L. (1984)

**The hepatic asialoglycoprotein receptor**

CRC Crit Rev Biochem, 16: 207-233

Shibuya, Y., T. Sekiguchi, K. Suzuki, T. Takahashi and Y. Nishikawa (1998)

**Effects of O-glycosylation inhibitors on the differentiation of HL-60 cells**

Biosci Biotechnol Biochem, 62: 632-637

Singer, B.B., I. Scheffrahn and B. Obrink (2000)

**The tumor growth-inhibiting cell adhesion molecule CEACAM1 (C-CAM) is differentially expressed in proliferating and quiescent epithelial cells and regulates cell proliferation**

Cancer Res, 60: 1236-1244

Singer I.I., S. Scott, D.W. Kawka, D.M. Kazazis, J. Gailit and E. Rouslahti (1988)

**Cell surface distribution of fibronectin and vitronectin receptors depends on substrate composition and extracellular matrix accumulation**

J Cell Biol, 106: 2171-2182

Smith, P.K., R.I. Krohn, G.T. Hermanson, A.K. Mallia, F.H. Gartner, M.D. Provenzano, E.K. Fujimoto, N.M. Goeke, B.J. Olson and D.C. Klenk (1985)

**Measurement of protein using bicinchoninic acid**

Anal Biochem, 150: 76-85

Stryer, L. (1996)

**Biochemie**

Spektrum, Heidelberg

Symington, B.E., F.W. Symington and L.R. Rohrschneider (1989)

**Phorbol ester induces increased expression, altered glycosylation and reduced adhesion of K562 erythroleukemia cell fibronectin receptors**

J Biol Chem, 264: 13258-13266

Towbin, H., T. Steahlin and J. Gordon (1979)

**Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: procedure and some applications**

Proc Natl. Acad Sci USA, 76: 4530-4554

Turner, C.E. and K. Burridge (1991)

**Transmembrane molecular assemblies in cell-extracellular matrix interactions**

Curr Opin Cell Biol, 3:849-853

aus Sánchez-Mateos, P. et al. (1996), Regulation of integrin function, Semin Cancer Biol, 7: 99-109

Varki, A. (1993)

**Biological roles of oligosaccharides: all of the theories are correct**

Glycobiology, 3: 97-130

van der Velde-Zimmermann, D., V.A.J. Smits, M.A.M. Verdaasdonk, L.H.P.M. Rademakers, N. Werner, D.C.J. Spierings, R.A. De Weger, J.G. van den Tweel and P. Joling (1996)

**$\beta$ 1-Integrins dominate cell traffic of leukemic cells in human bone-marrow stroma**

Int J Cancer, 66: 225-233

Verfaillie, C.M., A. Benis, J. Iida, P.B. McGlave and J.B. McCarthy (1994)

**Adhesion of committed human hematopoietic progenitors to synthetic peptides from the C-terminal heparin-binding domain of fibronectin: cooperation between the integrin alpha 4 beta 1 and the CD44 adhesion receptor**

Blood, 84: 1802-1811

Vogel, B.E., G. Tarone, F.G. Giancotti, J. Gailit and E. Rouslahti (1990)

**A novel fibronectin receptor with an unexpected subunit composition (alpha v beta 1)**

J Biol Chem, 265: 5934-5937

von Itzstein M., W.Y. Wu, G.B. Kok, M.S. Pegg, J.C. Dyason, B. Jin, T. Van Phan, M.L. Smythe, H.F. White, S.W. Oliver et al (1993)

**Rational design of potent sialidase-based inhibitors of influenza virus replication**

Nature, 363: 418-423

Vossmeier, D. (1999)

**Untersuchungen zur Funktion der alpha1-Integrin-Untereinheit des alpha1beta1-Integrins – die Rolle der zytoplasmatischen Domäne**

Dissertation, Fachbereich Biologie, Chemie, Pharmazie, Freie Universität Berlin

Vuori, K. and E. Rouslahti (1993)

**Activation of protein kinase C precedes  $\alpha 5 \beta 1$  integrin-mediated cell spreading on fibronectin**

Biol Chem, 268: 21459-21462

Warrell, R.P. Jr., H. de The, Z.Y. Wang and L. Degos (1993)

**Acute promyelocytic leukemia**

N Engl J Med, 329: 177-189

Wieser, J.R., A. Heisner, P. Stehling, F. Oesch and W.Reutter (1996)

**In vivo modulated N-acyl side chain of N-acetylneuraminic acid modulates the cell contact-dependent inhibition of growth**

FEBS Lett, 395: 170-173

Woods, A. and J.R. Couchman (1992)

**Protein kinase C involvement in focal adhesion formation**

J Cell Sci, 101: 277-290

Xie, B., A. Laouar and E. Huberman (1998)

**Autocrine regulation of macrophage differentiation and 92-kDa gelatinase production by tumor necrosis factor-alpha via alpha5 beta1 integrin in HL-60 cells**

J Biol Chem, 273: 11583-11588

Yamamoto, M., M.H.H. Federico, D.A. Maria, M.A.A. Koike, M.L.H. Katayama, R.A. Roela, S. Sonohara and M.M. Brentani (1993)

**Differential expression of fibronectin receptors during myeloid differentiation and in marrow- and peripheral blood-derived leukemic cells**

Int J Hematol, 58: 169-176

Yarema, K.J., L.K. Mahal, R.E. Bruehl, E.C. Rodriguez and C.R. Bertozzi (1998)

**Metabolic delivery of ketone groups to sialic acid residues. Application to cell surface glycoform engineering**

J Biol Chem, 273: 31168-31179

Zhong, C., M. Chrzanowska-Wodnicka, J. Brown, A. Shaub, A.M. Belkin and K. Burridge (1998)

**Rho-mediated contractility exposes a cryptic site in fibronectin and induces fibronectin matrix assembly**

J Cell Biol, 141: 539-551