

## Veröffentlichungen 2011

Affeld K., Grosshauser J., Reiter K., Grosse-Siestrup C. & Kertzsch U.:  
How can we achieve infection-resistant percutaneous energy transfer?  
Artif Organs 2011;35(8):800-6.

Ayral Y., Rauch U., Goldin-Lang P., Eisenreich A., Pepke W., Deiner C., Schwimbeck P.L., Schultheiss H.P. & Pels K.:  
Prolonged clopidogrel application reduces tissue factor expression after percutaneous coronary intervention in the porcine model.  
Cardiovasc Revasc Med 2011;12(1):47-55.

Bachran C., Schneider S., Riese S.B., Bachran D., Urban R., Schellmann N., Zahn C., Sutherland M. & Fuchs H.:  
A lysine-free mutant of epidermal growth factor as targeting moiety of a targeted toxin.  
Life Sci 2011;88(5-6):226-32.

Bachran D., Schneider S., Bachran C., Weng A., Melzig M.F. & Fuchs H.:  
The endocytic uptake pathways of targeted toxins are influenced by synergistically acting Gypsophila saponins.  
Mol Pharm 2011;8(6):2262-72.

Bähr I.N., Tretter P., Krüger J., Stark R.G., Schimkus J., Unger T., Kappert K., Scholze J., Parhofer K.G. & Kintscher U.:  
High-dose treatment with telmisartan induces monocytic peroxisome proliferator-activated receptor- $\gamma$  target genes in patients with the metabolic syndrome.  
Hypertension 2011;58(4):725-32.

Belavý D.L., Beller G., Armbrecht G., Perschel F.H., Fitzner R., Bock O., Börst H., Degner C., Gast U. & Felsenberg D.:  
Evidence for an additional effect of whole-body vibration above resistive exercise alone in preventing bone loss during prolonged bed rest.  
Osteoporosis Int 2011;22(5):1581-91

Blanchard V., Liu X., Eigel S., Kaup M., Rieck S., Janciauskiene S., Sandig V., Marx U., Walden P., Tauber R. & Berger M.:  
N-glycosylation and biological activity of recombinant human alpha1-antitrypsin expressed in a novel human neuronal cell line.  
Biotechnol Bioeng 2011;108(9):2118-28.

Blanchard V., Kaup K., Eigel S., Rieck S., Sandig V., Marx U., Tauber R. & Berger M.:  
Quantitative MALDI-TOF-MS using stable-isotope labeling - Application to the analysis of N-glycans of recombinant alpha-1 antitrypsin produced using different culture parameters  
J Carbohyd Chem 2011;30:4-6.

Bleul R., Bachran D., Thiermann R., Bertin A., Fuchs H. & Maskos M.:  
Probing Polymersome-Protein and -Cell Interactions: Influence of Different End-Groups and Environments.  
Macromol Symp 2011;309-310(Special Issue: Advanced Polymers in Medicine 1):134-140.

Caglayan E., Vantler M., Leppänen O., Gerhardt F., Mustafov L., Ten Freyhaus H., Kappert K., Odenthal M., Zimmermann W.H., Tallquist M.D. & Rosenkranz S.:  
Disruption of platelet-derived growth factor-dependent phosphatidylinositol 3-kinase and phospholipase C $\gamma$  1 activity abolishes vascular smooth muscle cell proliferation and migration and attenuates neointima formation in vivo.  
J Am Coll Cardiol 2011;57(25):2527-38.

Dernedde J., Papp I., Enders S., Wedepohl S., Paulus F. & Haag R.:  
Synthesis and evaluation of non-sulfated and sulfated glycopolymers as L- and P-selectin inhibitors  
J Carbohyd Chem 2011;30(4-6):347-360.

Frisch E., Kaup M., Egerer K., Weimann A., Tauber R., Berger M. & Blanchard V.:  
Profiling of Endo H-released serum N-glycans using CE-LIF and MALDI-TOF-MS--  
application to rheumatoid arthritis.  
Electrophoresis 2011;32(24):3510-5.

H. Fuchs.  
Saporin.  
In: *Encyclopedia of cancer* (Ed. M. Schwab), 3rd ed., Springer-Verlag Berlin Heidelberg, Germany (2011). Article 302766, Chapter 7065, ISBN: 978-3-642-16483-5.

H. Fuchs, S. Barth.  
Ribosome-inactivating proteins.  
In: *Encyclopedia of cancer* (Ed. M. Schwab), 3rd ed., Springer-Verlag Berlin Heidelberg, Germany (2011). Article 302764, Chapter 7063, ISBN: 978-3-642-16483-5.

H. Fuchs, S. Barth.  
Immunotoxins.  
In: *Encyclopedia of cancer* (Ed. M. Schwab) , 3rd ed., Springer-Verlag Berlin Heidelberg, Germany (2011). Article 302769, Chapter 7068, ISBN: 978-3-642-16483-5.

H. Fuchs, C. Bachran.  
Design of targeted protein toxins.  
In: *Drug delivery in oncology – from basic research to cancer therapy* (Eds. F. Kratz, P. Senter, H. Steinhagen), pp. 1443–1487. ISBN: 978-3-527-32823-9, Wiley-VCH, Weinheim, Germany (2011).

Giridharan G.A., Lederer C., Berthe A., Goubergrits L., Hutzenlaub J., Slaughter M.S., Dowling R.D., Spence P.A. & Koenig S.C.:  
Flow dynamics of a novel counterpulsation device characterized by CFD and PIV modeling.  
Med Eng Phys 2011;33(10):1193-202.

Herse F., Fain J.N., Janke J., Engeli S., Kuhn C., Frey N., Weich H.A., Bergmann A., Kappert K., Karumanchi S.A., Luft F.C., Muller D.N., Staff A.C. & Dechend R.:  
Adipose tissue-derived soluble fms-like tyrosine kinase 1 is an obesity-relevant endogenous paracrine adipokine.  
Hypertension 2011;58(1):37-42.

Hoffmann P., Hoffmann C., Ziebig R. & Zimmermann M.:  
Evaluation of the iChem® Velocity™ urine chemistry analyzer in a hospital routine laboratory.  
Clin Chem Lab Med 2011;49(3):509-13

Hoppe B., Burmester G.R. & Dörner T.:

Heparin or aspirin or both in the treatment of recurrent abortions in women with antiphospholipid antibody (syndrome).  
Curr Opin Rheumatol 2011;23(3):299-304.

Hoppe B., Burmester G.R. & Häupl T.:

Prothrombin 20210G>A genotype and C-reactive protein level.  
Blood 2011;118(16):4495-6.

Hu J., Fei J., Reutter W. & Fan H.:

Involvement of sialic acid in the regulation of  $\gamma$ -aminobutyric acid uptake activity of  $\gamma$ -aminobutyric acid transporter 1.  
Glycobiology 2011;21(3):329-39.

Kappert K.

Pharmakologie der antihypertensiven Therapie bei metabolischem Syndrom  
In: Antihypertensiva bei metabolischem Syndrom und Typ 2 Diabetes  
Ulrich Kintscher, Nikolaus Marx (Hrsg.) UNI-MED Verlag AG, 2011 (2. Auflage)

Kaup M., Saul V.V., Lusch A., Dörsing J., Blanchard V., Tauber R. & Berger M.:

Construction and analysis of a novel peptide tag containing an unnatural N-glycosylation site.  
Febs Lett 2011;585(14):2372-6.

Koo S.J., Markovic S., Puchkov D., Mahrenholz C.C., Beceren-Braun F., Maritzen T., Dervedde J., Volkmer R., Oschkinat H. & Haucke V.:

SNARE motif-mediated sorting of synaptobrevin by the endocytic adaptors clathrin assembly lymphoid myeloid leukemia (CALM) and AP180 at synapses.  
P Natl Acad Sci USA 2011;108(33):13540-5.

Krüger T., Liske B., Ziemer S., Lindemann S. & Ziemer G.:

Thrombolysis to treat thrombi of the aortic arch.  
Clin Appl Thromb-Hem 2011;17(4):340-5.

Lieke T., Gröbe D., Blanchard V., Grunow D., Tauber R., Zimmermann-Kordmann M., Jacobs T. & Reutter W.:

Invasion of Trypanosoma cruzi into host cells is impaired by N-propionylmannosamine and other N-acylmannosamines.  
Glycoconjugate J 2011;28(1):31-7.

Milman Krentsis I., Sela I., Eiges R., Blanchard V., Berger M., Becker Cohen M. & Mitrani-Rosenbaum S.:

GNE is involved in the early development of skeletal and cardiac muscle.  
PLoS ONE 2011;6(6):e21389.

Papp I., Dervedde J., Enders S., Riese S.B., Shiao T.C., Roy R. & Haag R.:

Multivalent presentation of mannose on hyperbranched polyglycerol and their interaction with concanavalin A lectin.  
Chembiochem 2011;12(7):1075-83.

Reinke S.O., Bayer M., Berger M., Blanchard V. & Hinderlich S.:

Analysis of cell surface N-glycosylation of the human embryonic kidney 293T cell line  
J Carbohyd Chem 2011;30:218-232.

Roskamp M., Enders S., Pfrengle F., Yekta S., Dekaris V., Dervedde J., Reissig H.U. & Schlecht S.:

Multivalent interaction and selectivities in selectin binding of functionalized gold colloids decorated with carbohydrate mimetics.

Org Biomol Chem 2011;9(21):7448-56.

Sandin A., Dagnell M., Gonon A., Pernow J., Stangl V., Aspenström P., Kappert K. & Ostman A.:

Hypoxia followed by re-oxygenation induces oxidation of tyrosine phosphatases.

Cell Signal 2011;23(5):820-6.

Scheibe C., Bujotzek A., Dervedde J., Weber M. & Seitz O.:

DNA-programmed spatial screening of carbohydrate-lectin interactions

Chem Sci 2011;2:770-775.

Seidel K., Kirsch S., Lucht K., Zaade D., Reinemund J., Schmitz J., Klare S., Li Y., Sefce J.H., Schmerbach K., Goldin-Lang P., Zollmann F.S., Thöne-Reineke C., Unger T. & Funke-Kaiser H.:

The promyelocytic leukemia zinc finger (PLZF) protein exerts neuroprotective effects in neuronal cells and is dysregulated in experimental stroke.

Brain Pathol 2011;21(1):31-43.

Sharma V., Boonen J., Chauhan N.S., Thakur M., De Spiegeleer B. & Dixit V.K.:

Spilanthes acmella ethanolic flower extract: LC-MS alkylamide profiling and its effects on sexual behavior in male rats.

Phytomedicine 2011;18(13):1161-9.

Shubar H.M., Lachenmaier S., Heimesaat M.M., Lohman U., Mauludin R., Mueller R.H., Fitzner R., Borner K. & Liesenfeld O.:

SDS-coated atovaquone nanosuspensions show improved therapeutic efficacy against experimental acquired and reactivated toxoplasmosis by improving passage of gastrointestinal and blood-brain barriers.

J Drug Target 2011;19(2):114-24.

Stawowy P. & Kappert K.:

The molecular biology of furin-like proprotein convertases in vascular remodelling.

Methods Mol Biol 2011;768:191-206.

Strauss G., Vollert C., von Stackelberg A., Weimann A., Gaedicke G. & Schulze H.:

Immature platelet count: a simple parameter for distinguishing thrombocytopenia in pediatric acute lymphocytic leukemia from immune thrombocytopenia.

Pediatr Blood Cancer 2011;57(4):641-7.

ten Freyhaus H., Dagnell M., Leuchs M., Vantler M., Berghausen E.M., Caglayan E., Weissmann N., Dahal B.K., Schermuly R.T., Ostman A., Kappert K. & Rosenkranz S.:

Hypoxia enhances platelet-derived growth factor signaling in the pulmonary vasculature by down-regulation of protein tyrosine phosphatases.

Am J Resp Crit Care 2011;183(8):1092-102.

Thakur M., Connellan P., Deseo M.A., Morris C. & Dixit V.K.:

Immunomodulatory Polysaccharide from Chlorophytum borivilianum Roots.

Evid-Based Compl Alt 2011;2011:598521.

Thakur M., Melzig M.F., Fuchs H. & Weng A.:

Chemistry and pharmacology of saponins: special focus on cytotoxic properties.

Botanics Targets Ther 2011;2011(1):19–29.

Thakur M., Weng A., Bachran D., Riese S.B., Böttger S., Melzig M.F. & Fuchs H.:

Electrophoretic isolation of saponin fractions from Saponinum album and their evaluation in synergistically enhancing the receptor-specific cytotoxicity of targeted toxins.

Electrophoresis 2011;32(21):3085-9.

Thakur M., Thompson D., Connellan P., Deseo M.A., Morris C. & Dixit V.K.:

Improvement of penile erection, sperm count and seminal fructose levels in vivo and nitric oxide release in vitro by ayurvedic herbs.

Andrologia 2011;43(4):273-7.

Weinhart M., Gröger D., Enders S., Dervede J. & Haag R.:

Synthesis of dendritic polyglycerol anions and their efficiency toward L-selectin inhibition.

Biomacromolecules 2011;12(7):2502-11.

Weinhart M., Gröger D., Enders S., Riese S.B., Dervede J., Kainthan R.K., Brooks D.E. & Haag R.:

The role of dimension in multivalent binding events: structure-activity relationship of dendritic polyglycerol sulfate binding to L-selectin in correlation with size and surface charge density.

Macromol Biosci 2011;11(8):1088-98.

Wellnhofer E., Osman J., Kertzsch U., Affeld K., Fleck E. & Goubergrits L.:

Non-dimensional modeling in flow simulation studies of coronary arteries including side-branches: a novel diagnostic tool in coronary artery disease.

Atherosclerosis 2011;216(2):277-82.

Weng A., Thakur M., Schindler A., Fuchs H. & Melzig M.F.:

Liquid-chromatographic profiling of Saponinum album (Merck).

Pharmazie 2011;66(10):744-6.

Zimmermann M., Cremer M., Hoffmann C., Weimann K. & Weimann A.:

Granularity Index of the SYSMEX XE-5000 hematology analyzer as a replacement for manual microscopy of toxic granulation neutrophils in patients with inflammatory diseases.

Clin Chem Lab Med 2011;49(7):1193-8.

Zimmermann M., Ruprecht K., Kainzinger F., Heppner F.L. & Weimann A.:

Automated vs. manual cerebrospinal fluid cell counts: a work and cost analysis comparing the Sysmex XE-5000 and the Fuchs-Rosenthal manual counting chamber.

Int J Lab Hematol 2011;33(6):629-37.