

HMGU Publication List 2007

31.12.2007

Cancer Research

(* external author)

Kaiser-Schulz, G.*, Heit, A.*, Quintanilla-Martinez, L., Hammerschmidt, F.*, Hess, S.*, Jennen, L., Rezaei, H.*, Wagner, H.*: Poly(lactide-co-glycolide) Microspheres Co-encapsulating Recombinant Tandem Prion Protein with CpG-Oligonucleotide Break Self-Tolerance to Prion Protein in Wild-Type Mice and Induce CD4 and CD8 T Cell Responses. *J. Immunol.* 179, 2797-2807 (2007)

Kohl, T.M., Hellinger, C., Ahmed, F., Buske, C., Hiddemann, W., Bohlander, S.K., Spiekermann, K.: BH3 mimetic ABT-737 neutralizes resistance to FLT3 inhibitor treatment mediated by FLT3-independent expression of BCL2 in primary AML blasts. *Leukemia* 21, 1763-1772 (2007)

Blehschmidt, K.*, Kremmer, E., Hollweck, R.*, Mylonas, I.*, Höfler, H., Kremer, M.*, Becker, K.F.*: The E-cadherin repressor snail plays a role in tumor progression of endometrioid adenocarcinomas. *Diagn. Mol. Pathol.* 16 (4), 222-228 (2007)

Becker, K.F.*, Schott, C.*, Hipp, S.*, Metzger, V.*, Porschewski, P.*, Beck, R.*, Nährig, J.*, Becker, I.*, Höfler, H.: Quantitative protein analysis from formalin-fixed tissues: implications for translational clinical research and nanoscale molecular diagnosis. *J. Pathol.* 211 (3), 370-378 (2007)

Ruiz, P.A.*, Braune, A., Hölzlwimmer, G.*, Quintanilla-Fend, L., Haller, D.*: Quercetin inhibits TNF-induced NF- κ B transcription factor recruitment to proinflammatory gene promoters in murine intestinal epithelial cells. *J. Nutr.* 137, 1208-1215 (2007)

Gamboa-Dominguez, A.*, Seidl, S.*, Reyes-Gutierrez, E.*, Hermannstädter, C.*, Quintanilla-Martinez, L., Busch, R.*, Höfler, H., Fend, F.*, Lubber, B.*: Prognostic significance of p21WAF1/CIP1, p27Kip1, p53 and E-cadherin expression in gastric cancer. *J. Clin. Pathol.* 60, 756-761 (2007)

Sorensen, K.D.*, Kunder, S., Quintanilla-Martinez, L., Sorensen, J., Schmidt, J., Pedersen, F.S.*: Enhancer mutations of Akv murine leukemia virus inhibit the induction of mature B-cell lymphomas and shift disease specificity towards the more differentiated plasma cell stage. *Virology* 362, 179-191 (2007)

Pellegata, N.S., Quintanilla-Martinez, L., Keller, G.*, Liyanarachchi, S.*, Höfler, H., Atkinson, M.J., Fend, F.*: Human pheochromocytomas show reduced p27Kip1 expression that is not associated with somatic gene mutations and rarely with deletions. *Virchows Arch.* 451, 37-46 (2007)

Rupp, A.*, Dornseifer, U.*, Fischer, A.*, Schmahl, W.*, Rodenacker, K., Jütting, U., Gais, P., Biemer, E.*, Papadopoulos, N.*, Matiassek, K.*: Electrophysiologic assessment of sciatic nerve regeneration in the rat: Surrounding limb muscles feature strongly in recordings from the gastrocnemius muscle. *J. Neurosci. Meth.* 166 (2), 266-277 (2007)

Mossbrugger, I., Hölzlwimmer, G., Calzada-Wack, J., Quintanilla-Martinez, L.: Standardized morphological phenotyping of mouse models of human diseases within the German Mouse Clinic. *Verh. Dtsch. Ges. Pathol.* 91, 98-103 (2007)

Kunder, S., Calzada-Wack, J., Hölzlwimmer, G., Müller, J., Kloss, C., Howat, W.*, Schmidt, J., Höfler, H., Warren, M.*, Quintanilla-Martinez, L.: Comprehensive Antibody Panel for Immunohistochemical Analysis of Formalin-Fixed, Paraffin-Embedded Hematopoietic Neoplasms of Mice: Analysis of Mouse Specific and Human Antibodies Cross-Reactive with Murine Tissue. *Toxicol. Pathol.* 35, 366-375 (2007)

Weigert, O., Pastore, A., Rieken, M., Lang, N.*, Hiddemann, W., Dreyling, M.: Sequence-dependent synergy of the proteasome inhibitor bortezomib and cytarabine in mantle cell lymphoma. *Leukemia* 21, 524-528 (2007)

Soerensen, A.B.*, Lund, A.H.*, Kunder, S., Quintanilla-Martinez, L., Schmidt, J., Wang, B.*, Wabl, M.*, Pedersen, F.S.*: Impairment of alternative splice sites defining a novel gammaretroviral exon within gag modifies the oncogenic properties of Akv murine leukemia virus. *Retrovirology* 4:46, 1-19 (2007)

Engelhard, K.*, Winkelheide, U.*, Werner, C.*, Kluge, J.*, Eberspächer, E.*, Hollweck, R.*, Hutzler, P., Winkler, J.*, Kochs, E.*: Sevoflurane affects neurogenesis after forebrain ischemia in rats. *Anesth. Analg.* 104, 898-903 (2007)

HMGU Publication List 2007

31.12.2007

Cancer Research

(* external author)

Yoon, H.*, He, H.*, Nagy, R.*, Davuluri, R.*, Suster, S.*, Schoenberg, D.*, Pellegata, N., de la Chapelle, A.*: Identification of a novel noncoding RNA gene, NAMA, that is downregulated in papillary thyroid carcinoma with BRAF mutation and associated with growth arrest. *Int. J. Cancer* 121 (4), 767-775 (2007)

Rauser, S. et al. (12 Coauthors): Significance of HER2 low-level copy gain in Barrett's cancer: Implications for fluorescence in situ hybridization testing in tissues. *Clin. Cancer Res.* 13, 5115-5123 (2007)

Napieralski, R.*, Ott, K.*, Kremer, M.*, Becker, K.*, Boulesteix, A.-L.*, Lordick, F.*, Siewert, J.R.*, Höfler, H., Keller, G.*: Methylation of tumor-related genes in neoadjuvant-treated gastric cancer : Relation to therapy response and clinicopathologic and molecular features. *Clin. Cancer Res.* 13, 5095-5102 (2007)

Tirard, M.*, Almeida, O.F.X.*, Hutzler, P., Melchior, F.*, Michaelidis, T.M.*: Sumoylation and proteasomal activity determine the transactivation properties of the mineralocorticoid receptor. *Mol. Cell. Endocrinol.* 268, 20-29 (2007)

Becker, K.F.*, Rosivatz, E.*, Blehschmidt, K.*, Kremmer, E., Sarbia, M.*, Höfler, H.: Analysis of the E-cadherin repressor Snail in primary human cancers. *Cells Tissues Organs* 185 (1-3), 204-212 (2007)

Deshpande, A.J., Buske, C.: Lymphoid progenitors as candidate cancer stem cells in AML: New perspectives. *Cell Cycle* 6 (5), 543-545 (2007)

Aichler, M., Algül, H.*, Behne, D.*, Hölzlwimmer, G., Michalke, B., Quintanilla-Martinez, L., Schmidt, J., Schmid, R.M., Brielmeier, M.: Selenium status alters tumour differentiation but not incidence or latency of pancreatic adenocarcinomas in Ela-TGF-alpha p53+/- mice. *Carcinogenesis* 28 (9), 2002-2007 (2007)

Baumert, J., Plewig, G.*, Volkenandt, M.*, Schmid-Wendtner, M.-H.*‡: Factors associated with a high tumour thickness in patients with melanoma. *Brit. J. Dermatol.* 156 (5), 938-944 (2007)

Aubele, M., Auer, G.*, Walch, A.K., Munro, A.*, Atkinson, M.J., Braselmann, H., Fornander, T.*, Bartlett, J.M.S.*: PTK (protein tyrosine kinase)-6 and HER2 and 4, but not HER1 and 3 predict long-term survival in breast carcinomas. *Brit. J. Cancer* 96, 801-807 (2007)

Vempati, S., Reindl, C., Kaza, S.K., Kern, R., Malamoussi, T., Mellert, G.*, Schnittger, S.*, Hiddemann, W., Spiekermann, K.: Arginine 595 is duplicated in patients with acute leukemias carrying internal tandem duplications of FLT3 and modulates its transforming potential. *Blood* 110 (2), 686-694 (2007)

Mao, Z.*, Quintanilla-Martinez, L. et al. (12 Coauthors): IgVH mutational status and clonality analysis of Richter's transformation: diffuse large B-cell lymphoma and Hodgkin lymphoma in association with B-cell chronic lymphocytic leukemia (B-CLL) represent 2 different pathways of disease evolution. *Am. J. Surg. Pathol.* 31 (10), 1605-1614 (2007)

Langer, R.*, Specht, K.*, Becker, K.*, Ewald, P.*, Ott, K.*, Lordick, F.*, Siewert, J.R.*, Höfler, H.: Comparison of pretherapeutic and posttherapeutic expression levels of chemotherapy-associated genes in adenocarcinomas of the esophagus treated by 5-fluorouracil- and cisplatin-based neoadjuvant chemotherapy. *Am. J. Clin. Pathol.* 128 (2), 191-197 (2007)

HMGU Publication List 2007

31.12.2007

Cardiovascular and Metabolic Disease Research

(* external author)

Lauterberg, J.*, Grossfeld-Schmitz, M.*, Ruckdäschel, S.*, Neubauer, S., Mehlig, H.*, Gaudig, M.*, Hruschka, D.*, Vollmar, H.C.*, Holle, R., Grässel, E.*: Projekt IDA - Konzept und Umsetzung einer cluster-randomisierten Studie zur Demenzversorgung im hausärztlichen Bereich. *ZaeFQ - Z. ärztl. Fortbild. Qual. Gesundh.wes.* 101, 21-26 (2007)

Grallert, H. et al. (16 Coauthors): APOA5 variants and metabolic syndrome in Caucasians. *J. Lipid Res.* 48 (12), 2614-2621 (2007)

Frischmann, M.E.*, Kronenberg, F., Trenkwalder, E.*, Schaefer, J.R.*, Schweer, H.*, Dieplinger, B.*, Koenig, P.*, Ikewaki, K.*, Dieplinger, H.*: In vivo turnover study demonstrates diminished clearance of lipoprotein(a) in hemodialysis patients.. *Kid. Int.* 71 (10), 1036-1043 (2007)

Weidinger, S., Rodríguez, E., Stahl, C.*, Wagenpfeil, S.*, Klopp, N., Illig, T., Novak, N.: Filaggrin mutations strongly predispose to early-onset and extrinsic atopic dermatitis. *J. Invest. Dermatol.* 127 (3), 724-726 (2007)

Kollerits, B.*, Fliser, D.*, Heid, I.M., Ritz, E.*, Kronenberg, F.*: Gender-specific association of adiponectin as a predictor of progression of chronic kidney disease: the Mild to Moderate Kidney Disease Study. *Kidney Int.* 71, 1279-1286 (2007)

Bremer, C.*, von Lengerke, T.: Häufiges Überessen nach Reduktionsdiät bei Frauen und Männern : eine Bevölkerungsstudie zur Rolle der Unzufriedenheit mit dem Körpergewicht. *Z. Med. Psychol.* 16 (4), 183-192 (2007)

von Lengerke, T., Rütten, A.*, John, J.: Soziale und politische Partizipation als Parameter gesunder Lebensstile : Ergebnisse zweier Bevölkerungssurveys. *Public Health-Psychologie: Individuum und Bevölkerung zwischen Verhältnissen und Verhalten*, von Lengerke, T. [Hrsg.], Weinheim : Juventa, 207-215 (2007)

von Lengerke, T., Manz, R.*: Krankheitsprävention und Gesundheitsförderung : Klassifikationen und eine dimensionale Systematik. *Public Health-Psychologie: Individuum und Bevölkerung zwischen Verhältnissen und Verhalten*, von Lengerke, T. [Hrsg.], Weinheim : Juventa, 19-31 (2007)

von Lengerke, T., Klotter, C.*: Adipositas bei Erwachsenen : ein public health-psychologischer Überblick. *Public Health-Psychologie: Individuum und Bevölkerung zwischen Verhältnissen und Verhalten*, von Lengerke, T. [Hrsg.], Weinheim : Juventa, 121-135 (2007)

von Lengerke, T.: Individuum und Bevölkerung zwischen Verhältnissen und Verhalten : Was ist Public Health-Psychologie? *Public Health-Psychologie: Individuum und Bevölkerung zwischen Verhältnissen und Verhalten*, von Lengerke, T. [Hrsg.], Weinheim : Juventa, 11-18 (2007)

Strohmaier, J.*, Klopp, N. et al. (14 Coauthors): No association between the serine racemase gene (SRR) and schizophrenia in a German case-control sample. *Psychiatr. Genet.* 17, S. 125 (2007)

Huth, C., Siegert, N., Meisinger, C., König, J., Kääb, S.*, Wichmann, H.-E., Döring, A.: Individuals with very low alcohol consumption : a heterogeneous group. *J. Stud. Alcohol Drugs* 68, 6-10 (2007)

Pestka, J.M.*, Baumert, J. et al. (13 Coauthors): Rapid induction of virus-neutralizing antibodies and viral clearance in a single-source outbreak of hepatitis C. *P. Natl. Acad. Sci. USA* 104 (14), 6025-6030 (2007)

von Lengerke, T., John, J.: General practitioners' opportunities for preventing ill health in healthy vs morbid obese adults: a general population study on consultations. *J. Public Health* 15, 71-80 (2007)

Eickholz, P.*, Krigar, D.-M.*, Kim, T.-S.*, Reitmeir, P., Rawlinson, A.*: Stability of clinical and radiographic results after guided tissue regeneration in infrabony defects. *J. Periodontol.* 78, 37-46 (2007)

HMGU Publication List 2007

31.12.2007

Cardiovascular and Metabolic Disease Research

(* external author)

Stritzke, J.*, Mayer, B.*, Lieb, W.*, Luchner, A.*, Döring, A., Hense, H.-W.*, Schunkert, H.*: Haematocrit levels and left ventricular geometry : Results of the MONICA Augsburg Echocardiographic Substudy. *J. Hypertens.* 25 (6), 1301-1309 (2007)

Rogowski, W.: Current impact of gene technology on healthcare : a map of economic assessment. *Health Policy* 80, 340-357 (2007)

Huber, C.A.*, Baumeister, S.E.*, Ladwig, K.-H., Mielck, A.: Living with a partner and health care use – results from the MONICA survey Augsburg in Southern Germany. *GMS Psychosoc. Med.* 4:Doc13, 1-8 (2007)

Thorand B., Baumert, J., Herder, C.*, Meisinger, C., König, W.*: Soluble thrombomodulin as a predictor of type 2 diabetes : results from the MONICA/KORA Augsburg case-cohort study, 1984-1998. *Diabetologia* 50, 545-548 (2007)

Hoffmann, K.*, Mattheisen, M.*, Dahm, S.*, Nürnberg, P.*, Roe, C.*, Johnson, J.*, Cox, N.J.*, Wichmann, H.-E., Wienker, T.F.*, Schulze, J.*, Schwarz, P.E. *, Lindner T.H.*: A German genome-wide linkage scan for type 2 diabetes supports the existence of a metabolic syndrome locus on chromosome 1p36.13 and a type 2 diabetes locus on chromosome 16p12.2. *Diabetologia* 50, 418-1422 (2007)

Icks, A.*, Rathmann, W.*, Haastert, B.*, Gandjour, A.*, Holle, R., John, J., Giani, G.*, KORA Study Group: Clinical and cost-effectiveness of primary prevention of Type 2 diabetes in a 'real world' routine healthcare setting : Model based on the KORA Survey 2000. *Diabetic Med.* 24, 473-480 (2007)

Kuch, B.*, von Scheidt, W.*, Peter, W. *, Döring, A., Piehlmeier, W.*, Landgraf, R. *, Meisinger, C.: Sex-specific determinants of left ventricular mass in pre-diabetic and type 2 diabetic subjects : the Augsburg Diabetes Family Study. *Diabetes Care* 30 (4), 946-952 (2007)

von Lengerke, T., Abu-Omar, K.*: *Verhaltens-epidemiologie : Einblicke in ein neues Wissensgebiet. Public Health-Psychologie: Individuum und Bevölkerung zwischen Verhältnissen und Verhalten*, von Lengerke, T. [Hrsg.], Weinheim : Juventa, 32-44 (2007)

Madsen, M.*, Gudnason, V.*, Pajak, A.*, Palmieri, L.*, Rocha, E.C.*, Salomaa, V.*, Sans, S. *, Steinbach, K. *, Vanuzzo, D. *, Döring, A.: Population-based register of acute myocardial infarction : Manual of operations. *Eur. J. Cardiovasc. Prev. Rehab.* 14 (Suppl. 3), 3-22 (2007)

Hinterseer, M.*, Beckmann, B.-M.*, Thomsen, B.*, Pfeufer, A.*, Perz, S., Wichmann, H.-E., Steinbeck, G. *, Vos, M.A. *, Kääh, S.*: Beat-to-beat variability of QT intervals is increased in drug-induced and congenital long-QT syndromes. *Heart Rhythm* 3 (5/Suppl.1), 269-270 (2007)

Jaremko, M.*, Justenhoven, C. *, Schroth, W. *, Abraham, B.K. *, Fritz, P. *, Vollmert, C., Illig, T., Simon, W., Schwab, M. *, Brauch, H.*: Polymorphism of the DNA repair enzyme XRCC1 is associated with treatment prediction in anthracycline and cyclophosphamide/methotrexate/5-fluorouracil-based chemotherapy of patients with primary invasive breast cancer. *Pharmacogen. Genom.* 17, 529-538 (2007)

Lieb, W. *, Voss, C. *, Ortak, J. *, Barantke, M. *, Hengstenberg, C. *, Löwel, H., Holmer, S. *, Erdmann, J. *, Schunkert, H. *, Bonnemeier, H.*: Impact of Diabetes on QT Dynamicity in Patients With and Without Myocardial Infarction: The KORA Family Heart Study. *Pace* 30, 183-187 (2007)

Ladwig, K.-H.: *Traumatisierung durch medizinische Eingriffe. Wohin entwickelt sich die Traumatherapie?: Bewährte Ansätze und neue Perspektiven*, Lamprecht, F. [Hrsg.], Stuttgart : Klett-Cotta Verl., 100-136 (2007)

von Lengerke, T.: *Die "holy four". Rauchen, Alkoholkonsum, Bewegung und Ernährung (RABE). Public Health-Psychologie: Individuum und Bevölkerung zwischen Verhältnissen und Verhalten*, von Lengerke, T. [Hrsg.], Weinheim : Juventa, 74-76 (2007)

Thorand B., Baumert, J., Kolb, H., Meisinger, C., Chambless, L. *, Koenig, W. *, Herder, C. *: Sex differences in the prediction of type 2 diabetes by inflammatory markers : Results from the MONICA/KORA Augsburg case-cohort study, 1984-2002. *Diabetes Care* 30 (4), 854-860 (2007)

HMGU Publication List 2007

31.12.2007

Cardiovascular and Metabolic Disease Research

(* external author)

- Nitz, I.*, Grallert, H. et al. (16 Coauthors): Association of prostaglandin E synthase 2 (PTGES2) Arg298His polymorphism with type 2 diabetes in two German study populations. *J. Clin. Endocr. Metab.* 92 (8), 3183-3188 (2007)
- Teipel, S.J.*, Ewers, M.*, Reisig, V., Schweikert, B., Hampel, H.*, Happich, M.: Long-term cost-effectiveness of donepezil for the treatment of Alzheimer's disease. *Eur. Arch. Psych. Clin. Neurosci.* 257 (6), 330-336 (2007)
- Baurecht, H.*, Irvine, A.D.*, Novak, N.*, Illig, T., Bühler, B.*, Ring, J.*, Wagenpfeil, S.*, Weidinger, S.: Toward a major risk factor for atopic eczema: meta-analysis of filaggrin polymorphism data. *J. Allergy Clin. Immun.* 120 (6), 1406-1412 (2007)
- Gieger, C., Wichmann, H.-E.: Biobanken in der genetisch-epidemiologischen Forschung - Beispiel KORA-gen. *Information Technology* 49 (6), 381-387 (2007)
- Luchner, A.*, Hengstenberg, C.*, Löwel, H., Buchner, S.*, Schunkert, H., Riegger, G.A.*, Holmer, S.: NT-ProBNP in outpatients after myocardial infarction: interaction between symptoms and left ventricular function and optimized cut-points. *J. Card. Fail.* 11 (5/Suppl.), 21-27 (2005)
- Richter, M.*, Mielck, A.: Gesundheitliche Ungleichheit im Jugendalter : Herausforderungen für die Prävention und Gesundheitsförderung. *Präv. Gesundheitsf.* 4, 248-254 (2006)
- Hinney, A.*, Illig, T. et al. (11 Coauthors): Genome Wide Association (GWA) Study for Early Onset Extreme Obesity Supports the Role of Fat Mass and Obesity Associated Gene (FTO) Variants. *PLoS One* 2(12): e1361, 1-5 (2007)
- Moffatt, M.F.*, Illig, T. et al. [23 Coauthors]: Genetic variants regulating ORMDL3 expression contribute to the risk of childhood asthma. *Nature* 448, 470-474 (2007)
- Mueller, J. C.*, Riemenschneider, M.*, Schoepfer-Wendels, A.*, Gohlke, H., Konta, L.*, Friedrich, P.*, Illig, T., Laws, S.*, Förstl, H.*, Kurz, A.: Weak independent association signals between IDE polymorphisms, Alzheimer's disease and cognitive measures. *Neurobiol. Aging* 28, 727-734 (2007)
- Schlemmer, M.*, Baumert, J. et al. (10 Coauthors): Efficacy of consolidation high-dose chemotherapy with ifosfamide, carboplatin and etoposide (HD-ICE) followed by autologous peripheral blood stem cell rescue in chemosensitive patients with metastatic soft tissue sarcomas. *Oncology* 71, 32-39 (2006)
- Meisinger, C., Heier, M., Löwel, H., Schneider, A., Döring, A.: Sleep duration and sleep complaints and risk of myocardial infarction in middle-aged men and women from the general population: the MONICA/KORA Augsburg cohort study. *Sleep* 30 (9), 1121-1127 (2007)
- Herbert, A.*, Heid, I.M. et al. (22 Coauthors): Response to Comments on "A Common Genetic Variant Is Associated with Adult and Childhood Obesity". *Science* 315, 187e (2007)
- Lyon, H.N.*, Heid, I.M. et al. (40 Coauthors): The Association of a SNP Upstream of INSIG2 with Body Mass Index is Reproduced in Several but Not All Cohorts. *PLoS Genet.* 3, 627-633 (2007)
- Ladwig, K.-H.: Psychische Probleme bei koronarer Herzkrankheit. *Herz Heute* 27 (3), 10-15 (2007)
- Vollmar, H.C.*, Neubauer, S. et al. (11 Coauthors): Multimodale Schulung von Hausärzten - Evaluation und Wissenszuwachs im Rahmen der Initiative Demenzversorgung in der Allgemeinmedizin (IDA). *ZaeFQ - Z. ärztl. Fortbild. Qual. Gesundh.wes.* 101, 27-34 (2007)

HMGU Publication List 2007

31.12.2007

Cardiovascular and Metabolic Disease Research

(* external author)

Orchard, S.*, Oesterheld, M. et al. (38 Coauthors): The minimum information required for reporting a molecular interaction experiment (MIMIx). *Nat. Biotechnol.* 25 (8), 894-898 (2007)

Gapp, O.: Umsetzungsverfahren gesetzlicher Krankenkassen mit der Balanced Scorecard : ein Ergebnisbericht der Gründe, Vorgehensweise und Probleme. *Z. Gesamte Versich.wissensch.* 3, 281-304 (2007)

Sedlacek, K.*, Illig, T. et al. [14 Coauthors]: Lymphotoxin-alpha and galectin-2 SNPs are not associated with myocardial infarction in two different German populations. *J. Mol. Med. -JMM* 85, 997-1004 (2007)

Boulesteix, A.L.*, Strobl, C.*, Weidinger, S.*, Wichmann, H.E., Wagenpfeil, S.*: Multiple testing for SNP-SNP interactions. *Stat. Appl. Genet. Mol. Biol.* 6 (1):37, 1-22 (2007)

Mielck, A., Bayerl, B., Koller, D.: Soziale Ungleichheit, Umweltbedingungen und Gesundheit anhand eines regionalen Beispiels. Gesundheitsberichterstattung. Stadt-Gesundheit, München : Referat für Gesundheit und Umwelt der Landeshauptstadt München, 68 S. (2007)

Neubauer, S., Steinle, T., Gapp, O., König, H.-H.*, Leidl, R.: Informationsbasis für die Abschätzung von gesundheitspolitischen und wirtschaftlichen Folgen von Tabakkontrollmaßnahmen in Deutschland. *Sozialer Fortschr.* 11, 271-279 (2007)

Mielck, A.: Zum Zusammenhang zwischen sozialer Ungleichheit und gesundheitlicher Versorgung. Der blinde Fleck : Ungleichheiten in der Gesundheitsversorgung, Tiesmeyer, K. et al. [Hrsg.], Bern : Huber, 21-38 (2007)

Neubauer, S., Welte, R., König, H.-H.*, Leidl, R.: Die volkswirtschaftlichen Kosten des Zigarettenrauchens in Deutschland. *Public Health Forum* 15 (Heft 54), 14-16 (2007)

Völzke, H.*, Neuhauser, H.*, Moebus, S.*, Baumert, J., Berger, K.*, Stang, A.*, Ellert, U.*, Werner, A.*, Döring, A.: Stadt-Land-Unterschiede im Rauchverhalten. *Public Health Forum* 15 (Heft 4), e1-e3 (2007)

von Lengerke, T., John, J.: Excess use of general practitioners by obese adults : Does health-related quality of life account for the association? *Psychol. Health Med.* 12 (5), 536-544 (2007)

Schirmbeck, F.*, Klopp, N. et al. (17 Coauthors): No association between the serine racemase gene (SRR) and bipolar disorder in a German case-control sample. *Psychiatr. Genet.* 17 (2), S. 127 (2007)

Georgi, A.*, Klopp, N. et al. (15 Coauthors): Possible association between genetic variants at the GRIN1 gene and schizophrenia with lifetime history of depressive symptoms in a German sample. *Psychiatr. Genet.* 17 (5), 308-310 (2007)

Skowronek, M.H.*, Klopp, N. et al. (17 Coauthors): No association between genetic variants at the ASCT1 gene and schizophrenia or bipolar disorder in a German sample. *Psychiatr. Genet.* 16, 233-234 (2006)

About Jamra, R.*, Klopp, N. et al. (13 Coauthors): No evidence for an association between variants at the gamma-amino-n-butyric acid type A receptor beta(2) locus and schizophrenia. *Psychiatr. Genet.* 17 (1), 43-45 (2007)

Frommberger, M., Zürlbig, P.*, Jantos, J.*, Krahn, T.*, Mischak, H.*, Pich, A.*, Just, I.*, Schmitt-Kopplin, P., Schiffer, E.*: Peptidomic analysis of rat urine using capillary electrophoresis coupled to mass spectrometry. *Proteomics Clin. Appl.* 1, 650-660 (2007)

HMGU Publication List 2007

31.12.2007

Cardiovascular and Metabolic Disease Research

(* external author)

Birner, C.M.*, Löwel, H. et al. (10 Coauthors): Head-to-head comparison of BNP and IL-6 as markers of clinical and experimental heart failure : Superiority of BNP. *Cytokine* 40 (2), 89-97 (2007)

Quentin, W.*, Neubauer, S., Leidl, R., König, H.-H.*: Advertising bans as a means of tobacco control policy: a systematic literature review of time-series analyses. *Int. J. Public Health* 52, 295-307 (2007)

von Lengerke, T., Janssen, C.*, John, J.: Sense of coherence, health locus of control, and quality of life in obese adults: physical limitations and psychological normalcies. *Int. J. Public Health* 52, 16-26 (2007)

Reisig, V., Reitmeir, P., Döring, A., Rathmann, W. *, Mielck, A., KORA Study Group: Social inequalities and outcomes in type 2 diabetes in the German region of Augsburg. A cross-sectional survey. *Int. J. Public Health* 52 (3), 158-165 (2007)

Rathmann, W.*, Haastert, B.*, Herder, C.*, Hauner, H. *, Koenig, W. *, Meisinger, C., Holle, R., Giani, G.*: Differential association of adiponectin with cardiovascular risk markers in men and women? The KORA survey 2000. *Int. J. Obesity* 31, 770-776 (2007)

Depner, M.*, Kormann, M.S.*, Klopp, N., Illig, T., Vogelberg, C. *, Weiland, S.K. *, von Mutius, E. *, Combadière, C. *, Kabesch, M. *: CX3CR1 polymorphisms are associated with atopy but not asthma in German children. *Int. Arch. Allergy Immun.* 144 (1), 91-94 (2007)

Wichmann, H.-E.: Diesel exhaust particles. *Inhal. Toxicol.* 19 (Suppl.1), 241-244 (2007)

Broedl U.C.*, Schachinger, V. *, Lingenhel, A. *, Lehrke, M. *, Stark, R., Seibold, F. *, Göke, B. *, Kronenberg, F. *, Parhofer, K.G., Konrad-Zerna, A.*: Apolipoprotein A-IV is an independent predictor of disease activity in patients with inflammatory bowel disease. *Inflamm. Bowel Dis.* 13 (4), 391-397 (2007)

Schoenborn, V. *, Gohlke, H., Heid, I.M., Illig, T., Utermann, G. *, Kronenberg, F.*: Sample selection algorithm to improve quality of genotyping from plasma-derived DNA : To separate the wheat from the chaff. *Hum. Mutat.* 28 (11), 1141-1149 (2007)

Baessler, A. *, Döring, A. et al. (11 Coauthors): Epistatic interaction between haplotypes of the ghrelin ligand and receptor genes influence susceptibility to myocardial infarction and coronary artery disease. *Hum. Mol. Genet.* 16 (8), 887-899 (2007)

Marzi, C. *, Huth, C., Kolz, M., Grallert, H., Meisinger, C., Wichmann, H.-E., Rathmann, W. *, Herder, C. *, Illig, T.: Variants of the transcription factor 7-like 2 gene (TCF7L2) are strongly associated with type 2 diabetes but not with the metabolic syndrome in the MONICA/KORA surveys. *Horm. Metab. Res.* 39, 46-52 (2007)

Zietemann, V. *, Machens, P. *, Mielck, A., Kwetkat, A.*: Soziale Kontakte und Depression bei geriatrischen Patienten: Gibt es einen Einfluss von Geschlecht? *Gesundheitswesen* 69, 345-352 (2007)

Bayerl, B., Mielck, A.: Egalitäre und individualistische Gerechtigkeitsvorstellungen zur gesundheitlichen Versorgung : Ergebnisse einer Befragung von Patienten und Studenten. *Gesundheitswesen* 68, 739-746 (2006)

Kainzinger, F. *, Raible, C.: Optimales Management von klinischen Studien : Welche Organisationsmodelle offeriert die theoretische Analyse, wie sieht die praktische Umsetzung aus? *Gesundh. ökon. Qual. manag.* 12, 217-224 (2007)

Krämer, U. *, Illig, T., Grune, T. *, Krutmann, J. *, Esser, C.*: Strong associations of psoriasis with antigen processing LMP and transport genes TAP differ by gender and phenotype. *Genes Immun.* 8 (6), 513-517 (2007)

HMGU Publication List 2007

31.12.2007

Cardiovascular and Metabolic Disease Research

(* external author)

Mielck, A.: Sozialer Status und Gesundheitszustand - Ansätze zur Verbesserung der gesundheitlichen Chancengleichheit. Forum TTN 18, 42-57 (2007)

John, J.: Effizienz als Richtschnur für die Gestaltung des Leistungskatalogs der Gesetzlichen Krankenversicherung? Anmerkungen zum normativen Geltungsanspruch gesundheitsökonomischer Evaluationen. Forum TTN 18, 23-41 (2007)

Behrend, C., Buchner, F.*, Happich, M., Holle, R., Reitmeir, P., Wasem, J.*: Risk-adjusted capitation payments: how well do principal inpatient diagnosis-based models work in the German situation? Results from a large data set. Eur. J. Health Econ. 8, 31-39 (2007)

Konrad, A.*, Lehrke, M.*, Schachinger, V.*, Seibold, F.*, Stark, R., Ochsenkühn, T.*, Parhofer, K.G.*, Göke, B. *, Broedl, U.C.*: Resistin is an inflammatory marker of inflammatory bowel disease in humans. Eur. J. Gastroenterol. Hepatol. 19 (12), 1070-1074 (2007)

Ladwig, K.-H., Marten-Mittag, B.*, Formanek, B.*, Dammann, G.*: Gender differences of symptom reporting and medical health care utilization in the German population. Eur. J. Epidemiol. 16 (6), 511-518 (2000)

Holzappel, C. et al. (13 Coauthors): Genetic variants in the leukemia-associated Rho guanine nucleotide exchange factor (ARHGEF12) gene are not associated with T2DM and related parameters in Caucasians (KORA study). Eur. J. Endocrinol. 157 (3), R1-R5 (2007)

Sedlmeier, E.-M. et al. (10 Coauthors): Gene variants of monocyte chemoattractant protein 1 and components of metabolic syndrome in KORA S4, Augsburg. Eur. J. Endocrinol. 156, 377-385 (2007)

Primatesta, P.*, Allender, S.*, Ciccarelli, P.*, Doring, A., Graff-Iversen, S.*, Holub, J.*, Panico, S. *, Trichopoulou, A. *, Verschuren, W.M. *: Cardiovascular surveys : Manual of operations. Eur. J. Cardiovasc. Prev. Rehab. 14 (Suppl. 3), 43-61 (2007)

Giampaoli, S. *, Hammar, N. *, Adany, R. *, de Peretti, C. *, Döring, A.: Population-based register of stroke : Manual of operations. Eur. J. Cardiovasc. Prev. Rehab. 14 (Suppl. 3), 23-41 (2007)

Ballantyne, C. *, Meisinger, C. et al. (60 Coauthors): Collaborative meta-analysis of individual participant data from observational studies of Lp-PLA2 and cardiovascular diseases. Eur. J. Cardio. Prev. Rehab. 14, 3-11 (2007)

Bjarnason-Wehrens, B. *, Grande, G. *, Löwel, H., Völler, H. *, Mittag, O. *: Gender-specific issues in cardiac rehabilitation: do women with ischaemic heart disease need specially tailored programmes? Eur. J. Cardio. Prev. Rehab. 14, 163-171 (2007)

Meisinger, C., Löwel, H., Heier, M., Kandler, U., Döring, A.: Association of sports activities in leisure time and incident myocardial infarction in middle-aged men and women from the general population : the MONICA/KORA Augsburg cohort study. Eur. J. Cardio. Prev. Rehab. 14 (6), 788-792 (2007)

Heidrich, J. *, Wellmann, J. *, Döring, A., Illig, T., Keil, U. *: Alcohol consumption, alcohol dehydrogenase and risk of coronary heart disease in the MONICA/KORA-Augsburg cohort 1994/1995-2002. Eur. J. Cardio. Prev. Rehab. 14 (6), 769-774 (2007)

Kim, T.S. *, Schenk, A. *, Lungeanu, D. *, Reitmeir, P., Eickholz, P. *: Nonsurgical and surgical periodontal therapy in single-rooted teeth. Clin. Oral Invest. 11 (4), 391-399 (2007)

Terhorst, D. *, Kalali, B.N. *, Weidinger, S. *, Illig, T., Novak, N. *, Ring, J. *, Ollert, M., Mempel, M. *: Monocyte-derived dendritic cells from highly atopic individuals are not impaired in their pro-inflammatory response to toll-like receptor ligands. Clin. Exp. Allergy 37 (3), 381-390 (2007)

HMGU Publication List 2007

31.12.2007

Cardiovascular and Metabolic Disease Research

(* external author)

Maas, R.* , Schulze, F.* , Baumert, J., Löwel, H., Hamraz, K.* , Schwedhelm, E.* , Koenig, W.* , Böger, R.H.* : Asymmetric dimethylarginine, smoking, and risk of coronary heart disease in apparently healthy men: prospective analysis from the population-based Monitoring of Trends and Determinants in Cardiovascular Disease/Kooperative Gesundheitsforschung in der Region Augsburg study and experimental data. Clin. Chem. 53 (4), 693-701 (2007)

Rokavec, M.* , Vollmert, C. et al. (11 Coauthors): A novel polymorphism in the promoter region of ERBB4 is associated with breast and colorectal cancer risk. Clin. Cancer Res. 13(24), 7506-7514 (2007)

Pauli, S.* , Söker, T., Klopp, N., Illig, T., Engel, W.* , Graw, J.: Mutation analysis in a German family identified a new cataract-causing allele in the CRYBB2 gene. Mol. Vis. 13, 962-967 (2007)

Fisher, E.* , Gieger, C. et al. (13 Coauthors): Association of acyl-CoA-binding protein (ACBP) single nucleotide polymorphisms and type 2 diabetes in two German study populations. Mol. Nutr. Food Res. 51 (2), 178-184 (2007)

Leu, R.E.* , Schellhorn, M.: The evolution of income-related health inequalities in Switzerland over time. CESifo Economic Studies ; Vol. 52, 666-690 (2006)

Kuch, B.* , von Scheidt, W., Kling, B.* , Heier, M., Hörmann, A., Meisinger, C.: Characteristics and outcome of patients with acute myocardial infarction according to presenting electrocardiogram (from the MONICA/KORA Augsburg Myocardial Infarction--Registry). Am. J. Cardiol. 100 (7), 1056-1060 (2007)

Novak, N.* , Klopp, N. et al. (15 Coauthors): Putative association of a TLR9 promoter polymorphism with atopic eczema. Allergy 62, 766-772 (2007)

Kabesch, M.* , Illig, T. et al. (12 Coauthors): Polymorphisms in eosinophil pathway genes, asthma and atopy. Allergy 62, 423-428 (2007)

Pinto, L.A.* , Steudemann, L.* , Depner, M.* , Klopp, N., Illig, T., Weiland, S.K.* , von Mutius, E.* , Kabesch, M.* : STAT1 gene variations, IgE regulation and atopy. Allergy 62 (12), 1456-1461 (2007)

Bockelbrink, A.* , Ring, J.* , Wichmann, H.-E., Schäfer, T.* , KORA Studiengruppe: Alternativverfahren und Allergien : Analyse ökonomischer Aspekte. Allergo J. 15 (2), 141-142 (2006)

Meisinger, C., Döring, A., Greschik, C., Heier, M.: Epidemiologie der Adipositas-assoziierten Hypertonie : Ergebnisse aus der bevölkerungsrepräsentativen KORA S4-Querschnittsstudie. Adipositas 1, 63-69 (2007)

Mielck, A., IGM: Erklärungsmodelle regionaler Gesundheitsunterschiede : Fachinformation Gesundheit. Zusammenstellung der wissenschaftlichen Evidenz für das Projekt "Gesundheit regional" - eine bevölkerungsrepräsentative Befragung zum Gesundheitsverhalten in Bayern. , Erlangen : Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit (LGL), 40 S. (2007)

Wölke, G., Filipiak-Pittroff, B., Wichmann, H.-E., Heinrich, J.: Externe Qualitätssicherung Kinder- und Jugendgesundheitsurvey. Abschlußbericht der Feldarbeit des KIGGS und des KUS (2003-2006). , 53 S. (2006)

Ladwig, K.-H.: Depression begünstigt die Entstehung der KHK. Cardio News 10 (6), S. 26 (2007)

HMGU Publication List 2007

31.12.2007

Cardiovascular and Metabolic Disease Research

(* external author)

Weyers, S. *, Lehmann, F. *, Meyer-Nürnbergger, M. *, Reemann, H. *, Altgeld, T. *, Hommes, M. *, Luig-Arlt, H. *, Mielck, A.: Strategien zur Verminderung gesundheitlicher Ungleichheiten in Deutschland. Bundesgesundheitsbl.- Gesundheitsforsch.- Gesundheitsschutz 50, 484-491 (2007)

Wichmann, H.-E., Gieger, C.: Biobanken. Bundesgesundheitsbl. Gesundheitsforsch. Gesundheitsschutz 50, 192-199 (2007)

Mielck, A., Rogowski, W.: Bedeutung der Genetik beim Thema "soziale Ungleichheit und Gesundheit". Bundesgesundheitsbl. -Gesundheitsforsch. -Gesundheitsschutz 50, 181-191 (2007)

Kandler, U., Meisinger, C., Baumert, J., Löwel, H.: Living alone is a risk factor for mortality in men but not women from the general population: a prospective cohort study. BMC Public Health 7:335, 1-22 (2007)

Breckenkamp, J. *, Mielck, A., Razum, O. *: Health inequalities in Germany: do regional-level variables explain differentials in cardiovascular risk? BMC Public Health 7:132, 1-9 (2007)

Barnett, A.G. *, Sans, S. *, Salomaa, V. *, Kuulasmaa, K. *, Dobson, A.J. *, WHO MONICA Project: The effect of temperature on systolic blood pressure. Blood Press Monit. 12 (3), 195-203 (2007)

Englert, C. *, Blunk, T. *, Müller, R. *, von Glasser, S.S., Baumer, J. *, Fierlbeck, J. *, Heid, I.M., Nerlich, M. *, Hammer, J. *: Bonding of articular cartilage using a combination of biochemical degradation and surface cross-linking. Arthrit. Res. Ther. 9:R47, 1-11 (2007)

Happich, M., von Lengerke, T.: Convergence of life expectancy in the European Union: a Markov approach. Appl. Econ. Lett. 14, 175-178 (2007)

Vollmert, C. et al. (16 Coauthors): Calpain-10 variants and haplotypes are associated with polycystic ovary syndrome in Caucasians. Am. J. Physiol. -Endocrinol. Metab. 292, 836-844 (2007)

Leidl, R.: Kritische Bewertung von gesundheitsökonomischen Studien. Lehrbuch Evidenz-basierte Medizin in Klinik und Praxis, Kunz, R. et al. [Hrsg.], Köln : Deutscher Ärzte-Verl., 205-215 (2007)

Ladwig, K.-H.: Leben mit dem implantierbaren Cardioverter-Defibrillator (ICD). Kardiologische Rehabilitation : Standards für die Praxis nach den Leitlinien der Deutschen Gesellschaft für Prävention und Rehabilitation von Herz-Kreislaufkrankungen e.V. (DGPR), Rauch, B. et al. [Hrsg.], Stuttgart : Thieme, 187-194 (2007)

Schellhorn, M.: Vergleich der Wartezeiten von gesetzlich und privat Versicherten in der ambulanten ärztlichen Versorgung. Gesundheitsmonitor 2007: Gesundheitsversorgung aund Gestaltungsoptionen aus der Perspektive von Bevölkerung und Ärzten, Böcken, J.; Braun, B.; Amhof, R. [Hrsg.], Gütersloh : Bertelsmann, 95-113 (2007)

Kronenberg, F. *, Heid, I.M.: Genetik intermediärer Phänotypen. Med. Gen. 19, 304-308 (2007)

HMGU Publication List 2007

31.12.2007

Infection and Immunity

(* external author)

- Überla, K.*, Rosenwirth, B., Ten Haaft, P.*, Heeney, J.*, Sutter, G., Erfle, V.: Therapeutic immunization with Modified Vaccinia Virus Ankara (MVA) vaccines in SIV-infected rhesus monkeys undergoing antiretroviral therapy. *J. Med. Primatol.* 36 (1), 2-9 (2007)
- Neudorfer, J.*, Huster, K.M. et al. (11 Coauthors): Reversible HLA multimers (Streptamers) for the isolation of human cytotoxic T lymphocytes functionally active against tumor- and virus-derived antigens. *J. Immunol. Meth.* 320 (1-2), 119-131 (2007)
- Pammer, J.*, Reinisch, C.*, Birner, P.*, Pogoda, K., Sturzl, M., Tschachler, E.*: Interferon-alpha prevents apoptosis of endothelial cells after short-term exposure but induces replicative senescence after continuous stimulation. *Lab. Invest.* 86 (10), 997-1007 (2006)
- Schneider, K.*, Bohlander, S.K. et al. (13 Coauthors): ML1-ETO meets JAK2 : Clinical evidence for the two hit model of leukemogenesis from a myeloproliferative syndrome progressing to acute myeloid leukemia. *Leukemia* 21 (10), 2199-2201 (2007)
- Schmetzer, H.M.*, Kremser, A.*, Loibl, J.*, Kroell, T.*, Kolb, H.J.: Quantification of ex vivo generated dendritic cells (DC) and leukemia-derived DC contributes to estimate the quality of DC, to detect optimal DC-generating methods or to optimize DC-mediated T-cell-activation-procedures ex vivo or in viv. *Leukemia* 21 (6), 1338-1341 (2007)
- Adler, H., Steer, B., Freimüller, K., Haas, J.*: Murine Gammaherpesvirus 68 Contains Two Functional Lytic Origins of Replication. *J. Virol.* 81, 7300-7305 (2007)
- Egloff, S.*, O'Reilly, D.*, Chapman, R.D., Taylor, A.*, Tanzhaus, K.*, Pitts, L.*, Eick, D., Murphy, S.*: Serine-7 of the RNA polymerase II CTD is specifically required for snRNA gene expression. *Science* 318 (5857), 1777-1779 (2007)
- Krause, M.*, Schmitz, M.*, Noessner, E., Skrablin, P.S., Wehner, R.*, Rieber, E.P.*, Baumann, M.*: Adoptive transfer of cytotoxic T-cells for treatment of residual disease after irradiation. *Int. J. Radiat. Biol.* 83 (11-12), 827 - 836 (2007)
- Besseyrias, V.*, Fiorini, E.*, Strobl, L.J., Zimmer-Strobl, U., Dumortier, A.*, Koch, U.*, Arcangeli, M.-L.*, Ezine, S.*, MacDonald, H.R.*, Radtke, F.*: Hierarchy of notch-delta interactions promoting T cell lineage commitment and maturation. *J. Exp. Med.* 204, 331-343 (2007)
- Hartl, D.*, Koller, B., Mehlhorn, A.T.*, Reinhardt, D.*, Nicolai, T.*, Schendel, D.J., Griese, M.*, Krauss-Etschmann, S.: Quantitative and functional impairment of pulmonary CD4+CD25hi regulatory T cells in pediatric asthma. *J. Allergy Clin. Immunol.* 119 (5), 1258-1266 (2007)
- Frankenberger, B., Noessner, E., Schendel, D.J.: Immune suppression in renal cell carcinoma. *Semin. Cancer Biol.* 17 (4), 330-343 (2007)
- Krawczak, M.*, Wichmann, H.-E., Lu, T.T.*: POPGEN and KORA-GEN : Biobanking for NGFN. *Science Inside ; 2, Bonn : National Genome Research Network (NGFN), 88-89 (2007)*
- Chapman, R.D., Heidemann, M., Albert, T.K., Mailhammer, R., Flatley, A., Meisterernst, M., Kremmer, E., Eick, D.: Transcribing RNA polymerase II is phosphorylated at CTD residue serine-7. *Science* 318 (5857), 1780-1782 (2007)
- Di Noia, J.M.*, Williams, G.T.*, Chan, D.T.*, Buerstedde, J.M., Baldwin, G.S.*, Neuberger, M.S.*: Dependence of antibody gene diversification on uracil excision. *J. Exp. Med.* 204 (13), 3209-3219 (2007)
- Messaoudi, L.*, Arakawa, H. et al. (11 Coauthors): Subcellular distribution of human RDM1 protein isoforms and their nucleolar accumulation in response to heat shock and proteotoxic stress. *Nucleic Acids Res.* 35 (19), 6571-6587 (2007)

HMGU Publication List 2007

31.12.2007

Infection and Immunity

(* external author)

Shirotani, K.*, Tomioka, M.*, Kremmer, E., Haass, C.*, Steiner, H.*: Pathological activity of familial Alzheimer's disease-associated mutant presenilin can be executed by six different gamma-secretase complexes. *Neurobiol. Dis.* 27 (1), 102-107 (2007)

Schluesche, P.*, Stelzer, G., Piaia, E., Lamb, D.C.*, Meisterernst, M.: NC2 mobilizes TBP on core promoter TATA boxes. *Nat. Struct. Mol. Biol.* 14 (12), 1196-1201 (2007)

Albert, T.K., Grote, K.*, Boeing, S., Stelzer, G., Schepers, A., Meisterernst, M.: Global distribution of negative cofactor 2 subunit-alpha on human promoters. *P. Natl. Acad. Sci. USA* 104 (24), 10000-10005 (2007)

Odoardi, F.*, Ellwart, J. W. et al. (11 Coauthors): Instant effect of soluble antigen on effector T cells in peripheral immune organs during immunotherapy of autoimmune encephalomyelitis. *P. Natl. Acad. Sci. USA* 104 (3), 920-925 (2007)

Mi, S.*, Bohlander, S.K. et al. (15 Coauthors): MicroRNA expression signatures accurately discriminate acute lymphoblastic leukemia from acute myeloid leukemia. *P. Natl. Acad. Sci. USA* 104 (50), 19971-19976 (2007)

Heuck, A., Du, T.G., Jellbauer, S.*, Richter, K.*, Kruse, C.*, Jaklin, S., Müller, M., Buchner, J.*, Jansen, R.P., Niessing, D.: Monomeric myosin V uses two binding regions for the assembly of stable translocation complexes. *P. Natl. Acad. Sci. USA* 105 (50), 19778-19783 (2007)

Hartl, D.*, Krauss-Etschmann, S. et al. (11 Coauthors): Cleavage of CXCR1 on neutrophils disables bacterial killing in cystic fibrosis lung disease. *Nat. Med.* 13 (12), 1423-1430 (2007)

Hölzel, M., Grimm, T., Rohmoser, M., Malamoussi, A., Harasim, T., Gruber-Eber, A., Kremmer, E., Eick, D.: The BRCT domain of mammalian Pes1 is crucial for nucleolar localization and rRNA processing. *Nucleic Acids Res.* 35, 789-800 (2007)

Hausherr, A., Tavares, R., Schäffer, M.*, Obermeier, A.*, Miksch, C.*, Mitina, O., Ellwart, J., Hallek, M., Krause, G.: Inhibition of IL-6-dependent growth of myeloma cells by an acidic peptide repressing the gp130-mediated activation of Src family kinases. *Oncogene* 26 (34), 4987-4998 (2007)

Adam, C., Mysliwicz, J., Mocikat, R.: Specific targeting of whole lymphoma cells to dendritic cells ex vivo provides a potent antitumor vaccine. *J. Translat. Med.* 5:16, 1-11 (2007)

Uhlmann, T., Boeing, S., Lehmbacher, M., Meisterernst, M.: The VP16 activation domain establishes an active mediator lacking CDK8 in vivo. *J. Biol. Chem.* 282, 2163-2173 (2007)

Spada, F.*, Haemmer, A.*, Kuch, D.*, Rothbauer, U.*, Schermelleh, L.*, Kremmer, E., Carell, T.*, Längst, G.*, Leonhardt, H.*: DNMT1 but not its interaction with the replication machinery is required for maintenance of DNA methylation in human cells. *J. Cell Biol.* 176 (5), 565-571 (2007)

Geffers, I.*, Kremmer, E. et al. (10 Coauthors): Divergent functions and distinct localization of the Notch ligands DLL1 and DLL3 in vivo. *J. Cell Biol.* 178 (3), 465-476 (2007)

Legrand-Poels, S.*, Kustermans, G.*, Bex, F.*, Kremmer, E., Kufer, T.A.*, Piette, J.*: Modulation of Nod2-dependent NF- κ B signaling by the actin cytoskeleton. *J. Cell Sci.* 120 (7), 1299-1310 (2007)

Kastenmüller, W., Gasteiger, G., Gronau, J.H., Baier, R., Ljapoci, R., Busch, D.H., Drexler, I.: Cross-competition of CD8+ T cells shapes the immunodominance hierarchy during boost vaccination. *J. Exp. Med.* 204 (9), 2187-2198 (2007)

HMGU Publication List 2007

31.12.2007

Infection and Immunity

(* external author)

- Brill, T.H.*, Kübler, H.R.*, von Randenborgh, H.*, Fend, F.*, Pohla, H.*, Breul, J.*, Hartung, R.*, Paul, R.*, Schendel, D.J., Gansbacher, B.*: Allogeneic retrovirally transduced, IL-2- and IFN-gamma-secreting cancer cell vaccine in patients with hormone refractory prostate cancer--a phase I clinical trial. *J. Gene Med.* 9 (7), 547-560 (2007)
- Hölzel, M., Rohmoser, M., Orban, M., Hömig, C., Harasim, T., Malamoussi, A., Gruber-Eber, A., Heissmeyer, V., Bornkamm, G., Eick, D.: Rapid conditional knock-down-knock-in system for mammalian cells. *Nucleic Acids Res.* 35 (3), e17 (2007)
- Bendz, H., Ruhland, S.C., Pandya, M.J.*, Hainzl, O.*, Riegelsberger, S.*, Bräuchle, C.*, Mayer, M.P.*, Buchner, J.*, Issels, R.D., Noessner, E.: Human heat shock protein 70 enhances tumor antigen presentation through complex formation and intracellular antigen delivery without innate immune signaling. *J. Biol. Chem.* 282 (43), 31688-31702 (2007)
- Mataruga, A.*, Kremmer, E., Müller, F.*: Type 3a and type 3b OFF cone bipolar cells provide for the alternative rod pathway in the mouse retina. *J. Comp. Neurol.* 502 (6), 1123-1137 (2007)
- Thakur, N.N., El-Gogo, S.*, Steer, B., Freimüller, B.*, Waha, A.*, Adler, H.: A gammaherpesviral internal repeat contributes to latency amplification. *PLoS One* 8, e733 (2007)
- Gillet, L.*, Adler, H., Stevenson, P.G.*: Glycosaminoglycan Interactions in Murine Gammaherpesvirus-68 Infection. *PLoS One* 4, e347 (2007)
- Adhikary, D., Behrends, U., Boerschmann, H.*, Pfänder, A.*, Burdach, S.*, Moosmann, A., Witter, K.*, Bornkamm, G.W., Mautner, J.: Immunodominance of lytic cycle antigens in epstein-barr virus-specific CD4+ T cell preparations for therapy. *PLoS One* 2 (7), e583 (2007)
- Rüttinger, D.*, Schendel, D.J. et al. (10 Coauthors): Adjuvant therapeutic vaccination in patients with non-small cell lung cancer made lymphopenic and reconstituted with autologous PBMC : first clinical experience and evidence of an immune response. *J. Transl. Med.* 5:43, 1-14 (2007)
- Zobywalski, A., Javorovic, M., Frankenberger, B., Pohla, H.*, Kremmer, E., Bigalke, I., Schendel, D.J.: Generation of clinical grade dendritic cells with capacity to produce biologically active IL-12p70. *J. Transl. Medicine* 5:18, 1-16 (2007)
- Tierney, R.*, Nagra, J.*, Hutchings, I., Shannon-Lowe, C.*, Altmann, M., Hammerschmidt, W., Rickinson, A., Bell, A.: Epstein-Barr virus exploits BSAP/Pax5 to achieve the B-cell specificity of its growth-transforming program. *J. Virol.* 81 (18), 10092-10100 (2007)
- Wendland, M.*, Czeloth, N.*, Mach, N.*, Malissen, B.*, Kremmer, E., Pabst, O.*, Förster, R.*: CCR9 is a homing receptor for plasmacytoid dendritic cells to the small intestine. *P. Natl. Acad. Sci. USA* 104 (15), 6347-6352 (2007)
- Thirunarayanan, N.*, Cifire, F.*, Fichtner, I.*, Posner, S.*, Benga, J.*, Reiterer, P.*, Kremmer, E., Kölbl, K.*, Lipp, M.*: Enhanced tumorigenicity of fibroblasts transformed with human herpesvirus 8 chemokine receptor vGPCR by successive passage in nude and immunocompetent mice. *Oncogene* 26 (39), 5702-5712 (2007)
- del Rio M.-L.*, Rodriguez-Barbosa, J.-I.*, Kremmer, E., Förster, R.*: CD103- and CD103+ bronchial lymph node dendritic cells are specialized in presenting and cross-presenting innocuous antigen to CD4+ and CD8+ T cells. *J. Immunol.* 178 (11), 6861-6866 (2007)
- Gasteiger, G., Kastenmüller, W.*, Ljapoci, R., Sutter, G.*, Drexler, I.: Cross-priming of cytotoxic T cells dictates antigen requisites for modified vaccinia virus ankara vector vaccines. *J. Virol.* 81 (21), 11925-11936 (2007)

HMGU Publication List 2007

31.12.2007

Infection and Immunity

(* external author)

Reil, J.-C.* , Gilles, S.* , Zahler, S.* , Brandl, A.* , Drexler, H.* , Hültner, L., Matrisian, L.M.* , Welsch, U.* , Becker, B.F.* : Insights from knock-out models concerning postischemic release of TNFalpha from isolated mouse hearts. *J. Mol. Cell. Cardiol.* 42, 133-141 (2007)

El-Gogo, S.* , Staib, C.* , Meyr, M.* , Erfle, V., Sutter, G., Adler, H.: Recombinant murine gammaherpesvirus 68 (MHV-68) as challenge virus to test efficacy of vaccination against chronic virus infections in the mouse model. *Vaccine* 25, 3934-3945 (2007)

Höck, J.* , Weinmann, L.* , Ender, C.* , Rüdell, S.* , Kremmer, E., Raabe, M.* , Urlaub, H.* , Meister, G.* : Proteomic and functional analysis of Argonaute-containing mRNA-protein complexes in human cells. *EMBO Rep.* 8 (11), 1052-1060 (2007)

Schlosser, E.* , Otero, C.* , Wuensch, C.* , Kessler, B.* , Edelmann, M.* , Brunisholz, R.* , Drexler, I., Legler, D.F.* , Groettrup, M.: A novel cytosolic class I antigen-processing pathway for endoplasmic-reticulum-targeted proteins. *EMBO Rep.* 8 (10), 945-951 (2007)

Witter, K.* , Mautner, J., Albert, T.* , Zahn, R.* , Kauke, T.* : HLA-DQB1*0319, a novel HLA-DQB1 allele, shows strong haplotype association to HLA-DRB1*1102. *Tissue Antigens* 70 (1), 73-75 (2007)

Schneider, M.R.* , Adler, H., Braun, J.* , Kienzle, B.* , Wolf, E.* , Kolb, H.-J.: Canine embryo-derived stem cells — toward clinically relevant animal models for evaluating efficacy and safety of cell therapies. *Stem Cells* 25, 1850-1851 (2007)

Oberle, N.* , Eberhardt, N.* , Falk, C.S., Krammer, P.H.* , Suri-Payer, E.* : Rapid suppression of cytokine transcription in human CD4+CD25 T cells by CD4+Foxp3+ regulatory T cells: independence of IL-2 consumption, TGF-beta, and various inhibitors of TCR signaling. *J. Immunol.* 179 (6), 3578-3587 (2007)

Wiethe, C.* , Schiemann, M., Busch, D., Haeberle, L.* , Kopf, M.* , Schuler, G.* , Lutz, M.B.* : Interdependency of MHC class II/self-peptide and CD1d/self-glycolipid presentation by TNF-matured dendritic cells for protection from autoimmunity. *J. Immunol.* 178 (8), 4908-4916 (2007)

Valent, P.* , Kolb, H.-J. et al. (18 Coauthors): Definitions and standards in the diagnosis and treatment of the myelodysplastic syndromes: Consensus statements and report from a working conference. *Leukemia Res.* 31 (6), 727-736 (2007)

Kraus, B.* , Wolff, H., Heilmann, J.* , Elstner, E.F.* : Influence of Hypericum perforatum extract and its single compounds on amyloid-beta mediated toxicity in microglial cells. *Life Sci.* 81 (11), 884-894 (2007)

Weisser, M.* , Schleuning, M.* , Haferlach, C.* , Schwerdtfeger, R.* , Kolb, H.J.: Allogeneic stem-cell transplantation provides excellent results in advanced stage chronic myeloid leukemia with major cytogenetic response to pre-transplant imatinib therapy. *Leukemia Lymphoma* 48 (2), 295-301 (2007)

Beitzinger, M.* , Peters, L., Zhu, J.Y.* , Kremmer, E., Meister, G.* : Identification of Human microRNA Targets From Isolated Argonaute Protein Complexes. *RNA Biol.* 4 (2), 76-84 (2007)

Flockerzi, A.* , Leib-Mösch, C. et al. (11 Coauthors): Expression pattern analysis of transcribed HERV sequences is complicated by ex vivo recombination. *Retrovirology* 4: 39, 1-12 (2007)

Schouwey, K.* , Delmas, V.* , Larue, L.* , Zimmer-Strobl, U., Strobl, L.J., Radtke, F.* , Beermann, F.* : Notch1 and Notch2 receptors influence progressive hair graying in a dose-dependent manner. *Dev. Dynam.* 236, 282-289 (2007)

Tschoep, K.* , Kohlmann, A.* , Schlemmer, M.* , Haferlach, T.* , Issels, R.D.: Gene expression profiling in sarcomas. *Crit. Rev. Oncol. Hematol.* 63, 111-124 (2007)

HMGU Publication List 2007

31.12.2007

Infection and Immunity

(* external author)

Boccellato, F.*, Anastasiadou, E.*, Rosato, P.*, Kempkes, B., Frati, L.*, Faggioni, A.*, Trivedi, P.*: EBNA2 Interferes with the Germinal Center Phenotype by Downregulating BCL6 and TCL1 in Non-Hodgkin's Lymphoma Cells. *J. Virol.* 81, 2274-2282 (2007)

Ahlemann, M.*, Schmitt, B.*, Stieber, P.*, Gires, O., Lang, S.*, Zeidler, R.: Evaluation of CK8-specific autoantibodies in carcinomas of distinct localisations. *Anticancer Res.* 26 (1B), 783-789 (2007)

Schlee, M. et al. (16 Coauthors): c-MYC activation impairs the NF-kappaB and the interferon response: Implications for the pathogenesis of Burkitt's lymphoma. *Int. J. Cancer* 120, 1387-1395 (2007)

Brave, A.*, Gasteiger, G. et al. (13 Coauthors): Immunization of mice with the nef gene from Human Immunodeficiency Virus type 1 : Study of immunological memory and long-term toxicology. *Infect. Agents Cancer* 2: 14, 1-11 (2007)

Stemberger, C.*, Huster, K.M., Koffler, M.*, Anderl, F.*, Schiemann, M.*, Wagner, H., Busch, D.H.: A single naive CD8+ T cell precursor can develop into diverse effector and memory subsets. *Immunity* 27 (6), 985-997 (2007)

Zentz, C., Wiesner, M., Man, S.*, Frankenberger, B., Wollenberg, B.*, Hillemanns, P.*, Zeidler, R.*, Hammerschmidt, W., Moosmann, A.: Activated B cells mediate efficient expansion of rare antigen-specific T cells. *Hum. Immunol.* 68 (2), 75-85 (2007)

Bauerschmidt, C.*, Pollok, S.*, Kremmer, E., Nasheuer, H.P.*, Grosse, F.*: Interactions of human Cdc45 with the Mcm2-7 complex, the GINS complex, and DNA polymerases delta and epsilon during S phase. *Genes Cells* 12 (6), 745-758 (2007)

Linder, B.*, Mentele, E.*, Mansperger, K.*, Straub, T.*, Kremmer, E., Rupp, R.A.*: CHD4/Mi-2beta activity is required for the positioning of the mesoderm/neuroectoderm boundary in *Xenopus*. *Gene Dev.* 21 (8), 973-983 (2007)

Zeilfelder, U.*, Frank, O.*, Sparacio, S.*, Schön, U., Bosch, V.*, Seifarth, W.*, Leib-Mösch, C.: The potential of retroviral vectors to cotransfer human endogenous retroviruses (HERVs) from human packaging cell lines. *Gene* 390, 175-179 (2007)

Gilch, S.*, Schmitz, F.*, Aguib, Y.*, Kehler, C.*, Bülow, S.*, Bauer, S.*, Kremmer, E., Schätzl, H.M.*: CpG and LPS can interfere negatively with prion clearance in macrophage and microglial cells. *FEBS J.* 274 (22), 5834-5844 (2007)

Schendel, D.J.: Dendritic cell vaccine strategies for renal cell carcinoma. *Expert Opin. Biol. Ther.* 7 (2), 221-232 (2007)

Maier, M.K.*, Kremmer, E. et al. (10 Coauthors): The adhesion receptor CD155 determines the magnitude of humoral immune responses against orally ingested antigens. *Eur. J. Immunol.* 37 (8), 2214-2225 (2007)

Davalos-Miszlitz, A.C.*, Rieckenberg, J.*, Willenzon, S.*, Worbs, T.*, Kremmer, E., Bernhardt, G., Förster, R.*: Generalized multi-organ autoimmunity in CCR7-deficient mice. *Eur. J. Immunol.* 37, 613-622 (2007)

Schmitz, F.*, Heit, A.*, Guggemoos, S., Krug, A.*, Mages, J.*, Schiemann, M.*, Adler, H., Drexler, I., Haas, T.*, Lang, R.*, Wagner, H.*: Interferon-regulatory-factor 1 controls Toll-like receptor 9-mediated IFN-production in myeloid dendritic cells. *Eur. J. Immunol.* 37, 315-327 (2007)

Heit, A.*, Schmitz, F.*, Haas, T.*, Busch, D.H., Wagner, H.*: Antigen co-encapsulated with adjuvants efficiently drive protective T cell immunity. *Eur. J. Immunol.* 37 (8), 2063-2074 (2007)

HMGU Publication List 2007

31.12.2007

Infection and Immunity

(* external author)

Cerwenka, A.*, Falk, C.S., Watzl, C.*: NK cells - from basic research to cancer therapy. *Eur. J. Immunol.* 37 (5), 1161-1164 (2007)

Verweij, J.*, Casali, P.G.*, Kotasek, D.*, LeCesne, A.L.*, Reichard, P.*, Judson, I.R.*, Issels, R., van Oosterom, A.T.*, van Glabbeke, M.*, Blay, J.-Y.*: Imatinib does not induce cardiac left ventricular failure in gastrointestinal stromal tumours patients: Analysis of EORTC-ISG-AGITG study 62005. *Eur. J. Cancer* 43, 974-978 (2007)

Schulz, C.*, Schiemann, M. et al. (11 Coauthors): Chemokine fractalkine mediates leukocyte recruitment to inflammatory endothelial cells in flowing whole blood : a critical role for P-selectin expressed on activated platelets. *Circulation* 116 (7), 764-773 (2007)

Aicher, A.*, Rentsch, M.*, Sasaki, K.*, Ellwart, J.W., Fändrich, F.*, Siebert, R.*, Cooke, J.P.*, Dimmeler, S.*, Heeschen, C.*: Nonbone marrow-derived circulating progenitor cells contribute to postnatal neovascularization following tissue ischemia. *Circ. Res.* 100 (4), 581-589 (2007)

Müller, M., Heuck, A., Niessing, D.: Directional mRNA transport in eukaryotes: lessons from yeast. *Cell. Mol. Life Sci.* 64, 171-180 (2007)

Stemberger, C.*, Neuenhahn, M.*, Buchholz, V.R.*, Busch, D.H.: Origin of CD8+ Effector and Memory T Cell Subsets. *Cell. Mol. Immunol.* 4 (6), 399-405 (2007)

Krauss-Etschmann, S. et al. (10 Coauthors): Effects of fish-oil and folate supplementation of pregnant women on maternal and fetal plasma concentrations of docosahexaenoic acid and eicosapentaenoic acid: a European randomized multicenter trial. *Am. J. Clin. Nutr.* 85 (5), 1392-1400 (2007)

Cosma, A., Nagaraj, R., Staib, C., Diemer, C.*, Wopfner, F.*, Schätzl, H.*, Busch, D.H., Sutter, G., Goebel, F.D.*, Erfle, V.: Evaluation of Modified Vaccinia Virus Ankara as an Alternative Vaccine against Smallpox in Chronically HIV Type 1-Infected Individuals Undergoing HAART. *Aids Res. Hum. Retrov.* 23, 782-793 (2007)

Rothenaigler, I., Kramer, S., Ziegler, M., Wolff, H., Kleinschmidt, A., Brack-Werner, R.: Long-term HIV-1 infection of neural progenitor populations. *Aids* 21 (17), 2271-2281 (2007)

Dehlin, B.*, Duell, T.*, Schmid, C.*, Kolb, H.-J., Schmetzer, H.*: Clonality - from diagnosis towards therapeutic options in malignant hematopoietic disorders : Overview and case report. *Acta Haematol.* 116 (2), 131-136 (2006)

Hermann, P.C.*, Huber, S.L.*, Herrler, T.*, Aicher, A.*, Ellwart, J.W., Guba, M.*, Bruns, C.J.*, Heeschen, C.*: Distinct populations of cancer stem cells determine tumor growth and metastatic activity in human pancreatic cancer. *Cell Stem Cell* 1 (3), 313-323 (2007)

Kausche, A.*, Falk, C.S. et al. (13 Coauthors): Superior antitumor in vitro responses of allogeneic matched sibling compared with autologous patient CD8+ T cells. *Cancer Res.* 66 (23), 11447-11454 (2006)

Allgeier, T.*, Garhammer, S.*, Nößner, E., Wahl, U.*, Kronenberger, K., Dreyling, M.*, Hallek, M., Mocikat, R.: Dendritic cell-based immunogens for B-cell chronic lymphocytic leukemia. *Cancer Lett.* 245, 275-283 (2007)

Baeuerle, P.A.*, Gires, O.: EpCAM (CD326) finding its role in cancer. *Brit. J. Cancer* 96 (3), 417-423 (2007)

Schuster, I.G. et al. (14 Coauthors): Allorestricted T cells with specificity for the FMNL1-derived peptide PP2 have potent antitumor activity against hematologic and other malignancies. *Blood* 110, 2931-2939 (2007)

HMGU Publication List 2007

31.12.2007

Infection and Immunity

(* external author)

Scheich, F.*, Duyster, J.*, Peschel, C.*, Bernhard, H.: The immunogenicity of Bcr-Abl expressing dendritic cells is dependent on the Bcr-Abl kinase activity and dominated by Bcr-Abl regulated antigens. *Blood* 110 (7), 2556-2560 (2007)

Mancao, C., Hammerschmidt, W.: Epstein-Barr virus latent membrane protein 2A is a B-cell receptor mimic and essential for B-cell survival. *Blood* 110 (10), 3715-3721 (2007)

Dorn, T.*, Ellwart, J. et al. (15 Coauthors): RhoH is important for positive thymocyte selection and T-cell receptor signaling. *Blood* 109 (6), 2346-2355 (2007)

Albert, T., Meisterernst, M.: Postgenomics: Die Entschlüsselung des Epigenoms. *Biospektrum* 13 (Sonderheft), 12-13 (2007)

Niessing, D.: Should i stay or should i go? *BioSpektrum* 12, 789-790 (2006)

Cramer, P.*, Sträßler, K.*, Niessing, D., Meister, G.*, Jansen, R.-P.*: RNA als Koordinator und Regulator der Genexpression. *BioSpektrum* 11, 1-3 (2005)

Conrad, M., Schneider, M.*, Seiler, A., Bornkamm, G.W.: Physiological role of phospholipid hydroperoxide glutathione peroxidase in mammals. *Biol. Chem.* 388 (10), 1019-1025 (2007)

Hossann, M.*, Wiggerhorn, M.*, Schwerdt, A.*, Wachholz, K.*, Teichert, N.*, Eibl, H.*, Issels, R.D., Lindner, L.H.: In vitro stability and content release properties of phosphatidylglyceroglycerol containing thermosensitive liposomes. *BBA-Biomembranes* 1768 (10), 2491-2499 (2007)

Grothusen, C.*, Kremmer, E. et al. (11 Coauthors): EXP3179 inhibits collagen-dependent platelet activation via glycoprotein receptor-VI independent of AT1-receptor antagonism: potential impact on atherothrombosis. *Arterioscler. Thromb. Vasc. Biol.* 27 (5), 1184-1190 (2007)

Shadid, R., Haarman, M.*, Knol, J.*, Theis, W.*, Beermann, C.*, Rjosk-Dendorfer, D.*, Schendel, D.J., Koletzko, B.V.*, Krauss-Etschmann, S.: Effects of galactooligosaccharide and long-chain fructooligosaccharide supplementation during pregnancy on maternal and neonatal microbiota and immunity--a randomized, double-blind, placebo-controlled study. *Am. J. Clin. Nutr.* 86 (5), 1426-1437 (2007)

Issels, R.D.: Weichteilsarkome. *Medizinische Therapie*. 2007/2008, Schölmerich, J. [Hrsg.], Heidelberg : Springer, 262-266 (2007)

Milani, V., Issels, R.: Effects of hyperthermia on tumor antigenicity and recognition by immune effector cells. *Heat Shock Proteins in Biology and Medicine*, Radons, J. ; Multhoff, G. [Eds.], Kerala, India : Research Signpost, 543-552 (2006)

Rohrmoser, M., Hölzel, M., Grimm, T., Malamoussi, A., Harasim, T., Orban, M., Pfisterer, P.*, Gruber-Eber, A., Kremmer, E., Eick, D.: Interdependence of Pes1, Bop1, and WDR12 Controls Nucleolar Localization and Assembly of the PeBoW Complex Required for Maturation of the 60S Ribosomal Subunit. *Mol. Cell. Biol.* 27, 3682-3694 (2007)

Wyce, A.*, Xiao, T. *, Whelan, K.A.*, Kosman, C.*, Walter, W.*, Eick, D., Hughes, T.R*, Krogan, N.J.*, Strahl, B.D.*, Berger, S.L.: H2B ubiquitylation acts as a barrier to Ctk1 nucleosomal recruitment prior to removal by Ubp8 within a SAGA-related complex. *Mol. Cell* 27 (2), 275-288 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Ziegler-Heitbrock, L.: The CD14+ CD16+ blood monocytes : their role in infection and inflammation. *J. Leukocyte Biol.* 81 (3), 584-592 (2007)

Kohlhammer, Y., Raspe, H.*, Marre, R.*, Suttorp, N.*, Welte, T.*, Schäfer, T.*: Antibiotic treatment of community acquired pneumonia varies widely across Germany. *J. Infection* 54, 446-453 (2007)

Kaiser, J.C., Pröhl, G.: Harnessing monitoring measurements in urban environments for decision making after nuclear accidents. *Kerntechnik* 72 (Heft 4), 218-221 (2007)

Mykhaylyk, O.*, Vlaskou, D.*, Tresilwised, N.*, Pithayanukul, P.*, Möller, W., Plank, C.*: Magnetic nanoparticle formulations for DNA and siRNA delivery. *J. Magn. Magn. Mater.* 311, 275-281 (2007)

Möller, W., Felten, K., Kohlhäufel, M.*, Häussinger, K.*, Kreyling, W.G.: Motion and twisting of magnetic particles ingested by alveolar macrophages in non-smokers and smokers : Implementation of viscoelasticity. *J. Magn. Magn. Mater.* 311, 269-274 (2007)

Meisinger, C., Heier, M., Lang, O., Döring, A.: Beta-blocker use and risk of fractures in men and women from the general population: the MONICA/KORA Augsburg cohort study. *Osteoporosis Int.* 18 (9), 1189-1195 (2007)

Ey, K., Lasser, R.: Facing linear difference equations through hypergroup methods. *J. Differ. Equ. Appl.* 13 (10), 953-965 (2007)

Zeiser, S., Müller, J.*, Liebscher, V.*: Modeling the Hes1 oscillator. *J. Comput. Biol.* 14 (7), 984-1000 (2007)

Obermaier, J., Szwarz, R.*: Nonnegative linearization for little q-Laguerre polynomials and Faber basis. *J. Comput. Appl. Math.* 199, 89-94 (2007)

Laín Fernández, N.: Optimally space-localized band-limited wavelets on Sq^{-1} . *J. Comput. Appl. Math.* 199, 68-79 (2007)

zu Castell, W., Ehrich, S., Filbir, F.: Special Functions in Harmonic Analysis and applications. *J. Comput. Appl. Math.* 199 (1), 196 S. (2007)

Schlattl, H., Zankl, M., Hausleiter, J.*, Hoeschen, C.: Local organ dose conversion coefficients for angiographic examinations of coronary arteries. *Phys. Med. Biol.* 52, 4393-4408 (2007)

Reinhold, P.*, Fehrenbach, H.*, Schulz, H.: Die sich entwickelnde Lunge im Spezies-Vergleich. *Pneumologie* 61, 478-489 (2007)

Schulz, H.: Feinstaub : Gefahr für Lunge und Kreislauf? "Was gelangt in den Kreislauf und was macht es dort?". *Pneumologie* 60, 611-615 (2007)

Voth, M.*, Klett, R.*, Lengsfeld, P.*, Stephan, G.*, Schmid, E.: Biological dosimetry after yttrium-90 citrate colloid radiosynoviorthesis. *Nuklearmedizin* 45, 223-228 (2006)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Ganguly, K. et al. (10 Coauthors): Candidate genes controlling pulmonary function in mice : Transcript profiling and predicted protein structure. *Physiol. Genomics* 31 (3), 410-421 (2007)

Minoia, C.*, Ronchi, A.*, Veronese, I.*, Giussani, A., Guzzi, G.*: The confounding effects of intraoral metals in salivary biomarkers. *Occup. Environ. Med.* 64, S. 856 (2007)

Morgenstern, V., Zutavern, A., Cyrus, J., Brockow, I.*, Gehring, U., Koletzko, S.*, Bauer, C.P.*, Reinhardt, D.*, Wichmann, H.-E., Heinrich, J.: Respiratory health and individual estimated exposure to traffic-related air pollutants in a cohort of young children. *Occup. Environ. Med.* 64, 8-16 (2007)

Oeckinghaus, A., Wegener, E., Welteke, V., Ferch, U., Arslan, S.C.*, Ruland, J.*, Scheidereit, C.*, Krappmann, D.: Malt1 ubiquitination triggers NF-kB signaling upon T-cell activation. *EMBO J.* 26 (22), 4634-4645 (2007)

Xu, Y.*, Tischenko, O., Hoeschen, C.: Image reconstruction by OPED algorithm with averaging. *Numer. Algorithms* 45, 179-193 (2007)

Fiegler, H.*, Geigl, J.B.*, Langer, S.*, Rigler, D.*, Porter, K.*, Unger, K., Carter, N.P.*, Speicher, M.R.*: High resolution array-CGH analysis of single cells. *Nucleic Acids Res.* 35 (3), e15 (2007)

Hense, B.A., Kuttler, C., Müller, J., Rothballer, M., Hartmann, A., Kreft, J.-U.*: Does efficiency sensing unify diffusion and quorum sensing? *Nat. Rev. Microbiol.* 5, 230-239 (2007)

Ferch, U., Meyer zum Büschenfelde, C.*, Gewies, A.*, Wegener, E., Rauser, S., Peschel, C.*, Krappmann, D., Ruland, J.*: MALT1 directs B cell receptor-induced canonical nuclear factor-kappaB signaling selectively to the c-Rel subunit. *Nat. Immunol.* 8 (9), 984-991 (2007)

Wjst, M., Boakye, D.*: Asthma in Africa. *PLoS Med.* 4, 203-205 (2007)

DeMarco, J.J.*, Cagnon, C.H.*, Cody, D.D.*, Stevens, D.M.*, McCollough, C.H.*, Zankl, M., Angel, E.*, McNitt-Gray, M.F.*: Estimating radiation doses from multidetector CT using Monte Carlo simulations: effects of different size voxelized patient models on magnitudes of organ and effective dose. *Phys. Med. Biol.* 52, 2583-2597 (2007)

Wick, R.R., Nekolla, E.A.*: Langzeituntersuchungen zum Risiko myeloischer Leukämien und anderer maligner Erkrankungen nach intravenöser Behandlung des M. Bechterew mit Radium-224. *GSF-Bericht* ; 03/07, Neuherberg : GSF-Forschungszentrum, 33 S. (2007)

Ferge, T., Karg, E., Schröppel, A., Coffee, K.R.*, Tobias, H.J.*, Frank, M.*, Gard, E.E.*, Zimmermann, R.: Fast determination of the relative elemental and organic carbon content of aerosol samples by on-line single-particle aerosol time-of-flight mass spectrometry. *Environ. Sci. Technol.* 40 (10), 3327-3335 (2007)

Schlattl, H., Zankl, M., Petoussi-Henss, N.: Organ dose conversion coefficients for voxel models of the reference male and female from idealized photon exposures. *Phys. Med. Biol.* 52, 2123-2145 (2007)

Becker, J., Zankl, M., Petoussi-Henss, N.: A software tool for modification of human voxel models used for application in radiation protection. *Phys. Med. Biol.* 52, 195-205 (2007)

Schnopp, C.*, Rad, R.*, Weidinger, A., Weidinger, S., Ring, J., Eberlein, B.*, Ollert, M.*, Mempel, M.: FoxP3-positive regulatory T cells are present in the skin of generalized atopic eczema patients and are not particularly affected by medium-dose UVA1 therapy. *Photodermatol. Photoimmunol. Photomed.* 23, 81-85 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Möhrenschläger, M.*, Haberl, V.M., Krämer, U., Behrendt, H., Ring, J.*: Early BCG and pertussis vaccination and atopic diseases in 5- to 7-year-old preschool children from Augsburg, Germany : Results from the MIRIAM study. *Pediatr. Allergy Immunol.* 18 (1), 5-9 (2007)

Rückerl, R., Phipps, R.P.*, Schneider, A., Frampton, M. *, Cyrus, J., Oberdörster, G. *, Wichmann, H.-E., Peters, A.: Ultrafine particles and platelet activation in patients with coronary heart disease - results from a prospective panel study. *Part. Fibre Toxicol.* 4, 1-14 (2007)

Heinrich, J.: Feinstaub und Allergien im Kindesalter. *Pädiatr. Allergol.* 10 (3), 40-42 (2007)

Tano, K. *, Arakawa, H. et al. (10 Coauthors): Interplay between DNA polymerases beta and lambda in repair of oxidation DNA damage in chicken DT40 cells. *DNA Repair* 6 (6), 869-875 (2007)

Endo, S. *, Shizuma, K. *, Tanaka, K. *, Ishikawa, M. *, Rühm, W., Egbert, S.D. *, Hoshi, M. *: Radioactivity in atomic-bomb samples from exposure to environmental neutrons. *Health Phys.* 93 (6), 689-695 (2007)

Michalke, B., Halbach, S., Nischwitz, V.: Speciation and toxicological relevance of manganese in humans. *J. Environ. Monitor.* 9, 650-656 (2007)

de la Heras, H., Tischenko, O., Panzer, W., Xu, Y. *, Hoeschen, C.: Modelling and testing of a non-standard scanning device with dose reduction potential. *Proceeding of SPIE ; Vol. 6510, Medical Imaging 2007: Physics of Medical Imaging*, Hsieh, J. ; Flynn, M.J. [Eds.], 65103R-1 - 65103R-11 (2007)

Michalke, B., Berthele, A. *, Mistriotis, P. *, Ochsenkühn-Petropoulou, M. *, Halbach, S.: Manganese speciation in human cerebrospinal fluid using CZE coupled to inductively coupled plasma MS. *Electrophoresis* 28, 1380-1386 (2007)

Rodenacker, K.: Does digital analysis of micro image data improve understanding of reality? *Contradictions-Challenges. Ecol. Inform.* 2, 353-360 (2007)

Slama, R., Morgenstern, V., Cyrus, J., Zutavern, A., Herbarth, O. *, Wichmann, H.-E., Heinrich, J.: Traffic-related atmospheric pollutants levels during pregnancy and offspring's term birth weight: A study relying on a land-use regression exposure model. *Environ. Health Persp.* 115, 1283-1292 (2007)

Kasche, A., Mariani, V., Jakob, T., Behrendt, H., Traidl-Hoffmann, C.: Measurement of pollen associated lipid mediators with structural and functional similarities to eicosanoids. *Drug Matters* 2, 27-28 (2007)

Hausleiter, J. *, Meyer, T. *, Hadamitzky, M. *, Zankl, M., Gerein, P. *, Dörrler, K. *, Kastrati, A. *, Martinoff, S. *, Schömig, A. *: Non-invasive coronary computed tomographic angiography for patients with suspected coronary artery disease: the Coronary Angiography by Computed Tomography with the Use of a Submillimeter resolution (CACTUS) trial. *Eur. Heart J.* 28 (24), 3034-3041 (2007)

Lubin, J.H. *, Caporaso, N. *, Wichmann, H.-E., Schaffrath-Rosario, A. *, Alavanja, M.C. R. *: Cigarette smoking and lung cancer : Modeling effect modification of total exposure and intensity. *Epidemiology* 18, 639-648 (2007)

Schnelle-Kreis, J. *, Sklorz, M., Orasche, J. *, Stölzel, M. *, Peters, A., Zimmermann, R.: Semi volatile organic compounds in ambient PM_{2.5}. Seasonal trends and daily resolved source contributions. *Environ. Sci. Technol.* 41, 3821-3828 (2007)

Buters, J.T.M. et al. (11 Coauthors): Toxicity of parked motor vehicle indoor air. *Environ. Sci. Technol.* 41 (7), 2622-2629 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Matuschek, G., Karg, E., Schröppel, A., Schulz, H., Schmid, O.: Chemical investigation of eight different types of carbonaceous particles using thermoanalytical techniques. *Environ. Sci. Technol.* 41 (24), 8406-8411 (2007)

Xu, Y.*, Tischenko, O.: Fast oped algorithm for reconstruction of images from radon data. *East. J. Approxim.* 13 (4), 427-444 (2007)

Xu, Y.*, Tischenko, O., Hoeschen, C.: Approximation and Reconstruction from Attenuated Radon Projections. *SIAM J. Numer. Anal.* 45, 108-132 (2007)

Oeh, U. et al. (11 Coauthors): Measurements of daily urinary uranium excretion in German peacekeeping personnel and residents of the Kosovo region to assess potential intakes of depleted uranium (DU). *Sci. Total Environ.* 381, 77-87 (2007)

Reithmeier, H.*, Lazarev, V.*, Rühm, W., Nolte, E.*: 129I measurements in lake water for an estimate of regional 129I depositions. *Sci. Total Environ.* 376, 285-293 (2007)

Savinkov, A.*, Semioskina, N., Howard, B.J.*, Voigt, G.*: Radiostrontium uptake by plants from different soil types in Kazakhstan. *Sci. Total Environ.* 373, 324-333 (2007)

Hahn, K.R., Prigarin, S.*, Hasan, K.*: Can we expect reproducible and unbiased information from denoised diffusion tensor imaging with low SNR ? *Proc. Intl. Soc. Mag. Reson. Med.* 15, S. 1604 (2007)

Tischenko, O., Xu, Y.*, Hoeschen, C.: Improvement of OPED algorithm by means of introducing an integration in the evaluation process. *Proceeding of SPIE ; Vol. 6510, Medical Imaging 2007: Physics of Medical Imaging*, Hsieh, J. ; Flynn, M.J. [Eds.], 65104I-1 - 65104I-9 (2007)

Van Dillen, T.*, Bijwaard, H.*, Schnelzer, M.*, Brüske-Hohlfeld, I., Wichmann, H.-E.: Report on method of using nested case-control data on smoking in multistage model analyses of radon-exposed miner cohort data. Project No. 516483, Alpha-Risk: Quantification of cancer and non-cancer risks associated with multiple chronic radiation exposures: Epidemiological studies, organ dose calculation and risk assessment, 34 S. (2007)

Condat, L., Forster-Heinlein, B., van de Ville, D.*: A new family of rotation-covariant wavelets on the hexagonal lattice. *Proceedings of SPIE ; Vol. 6701, Proceedings of the SPIE Optics and Photonics 2007 Conference on Mathematical Methods*, 1-9 (2007)

Brüske-Hohlfeld, I., Möhner, M., Wichmann, H.-E.: Lungenkrebsrisiko bei Uranbergarbeitern. Schriftenanstalt der Bundesanstalt für Arbeitsschutz und Arbeitsmedizin ; Fb 1086, Bremerhaven : Wirtschaftsverlag NW, 54 S. (2006)

Schöfer, F.H., Schneider, K.*, Hoeschen, C.: Virtual adaption of physical phantoms to datasets derived from clinical tomographic examinations. *Proceeding of SPIE ; Vol. 6510, Medical Imaging 2007: Physics of Medical Imaging*, Hsieh, J. ; Flynn, M.J. [Eds.], 65104L-1 - 65104L-7 (2007)

Schöfer, F.H., Schneider, K.*, Hoeschen, C.: Minimum dose calculation for different imaging tasks in digital projection radiography. *Proceeding of SPIE ; Vol. 6510, Medical Imaging 2007: Physics of Medical Imaging*, Hsieh, J. ; Flynn, M.J. [Eds.], 65104E-1 - 65104E-7 (2007)

Komura, K.*, Hoshi, M*, Endo, S.*, Imanaka, T.*, Egbert, S.D.*, Rühm, W., Fukushima, H.*, Fujita, S.*: Atomic bomb induced 152Eu: reconciliation of discrepancy between measurements and calculation. *Health Phys.* 92 (4), 366-370 (2007)

Hahn, K.R., Prigarin, S.*, Rodenacker, K., Sandau, K.*: A fractal dimension for exploratory fMRI analysis. *Proc. Intl. Soc. Mag. Reson. Med.* 15, S. 1858 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Robertson, L.W.*, Berberian, I.*, Borges, T.*, Chen, L.-C.*, Chow, C.K.*, Glauert, H.P.*, Filser, J.G., Thomas, H.*: Suppression of peroxisomal enzyme activities and cytochrome P450 4A isozyme expression by congeneric polybrominated and polychlorinated biphenyls. *PPAR Res.* Vol. 2007 (Article ID 15481), 1-5 (2007)

Schulz, H.: Die sich entwickelnde Lunge von Mensch und Ratte - Unterschiede in der Lungenfunktion. *Pneumologie* 61, 481-482 (2007)

Gutermuth, J., Hein, R., Fend, F., Ring, J., Jakob, T.: Cutaneous pseudolymphoma arising after tattoo placement. *J. Eur. Acad. Dermat. Venerol.* 21 (4), 566-567 (2007)

Semioshkina, N., Pröhl, G., Savinkov, A.*, Voigt, G.*: The transfer of (137)Cs and (90)Sr from feed to rabbits. *J. Environ. Radioactiv.* 98, 166-176 (2007)

Voigt, G.*, Kiefer, P.: Stable and radioiodine concentrations in cow milk: dependence on iodine intake. *J. Environ. Radioactiv.* 98 (1-2), 218-227 (2007)

Höllriegl, V., Greiter, M., Giussani, M., Gerstmann, U., Michalke, B., Roth, P., Oeh, U.: Observation of changes in urinary excretion of thorium in humans following ingestion of a therapeutic soil. *J. Environ. Radioactiv.* 95, 149-160 (2007)

Massopust, P., Forster, P.: Multivariate complex B-splines. *Proceedings of SPIE* ; Vol. 6701, 1-9 (2007)

Amme, M.*, Svedkauskaitė, J.*, Bors, W., Murray, M.*, Merino, J.*: A kinetic study of UO₂ dissolution and H₂O₂ stability in the presence of groundwater ions. *Radiochim. Acta* 95, 683-692 (2007)

Li, W.B.: Calculation of DNA strand breakage by neutralisation effect after 125I decays in a synthetic oligodeoxynucleotide using charge transfer theory. *Radiat. Prot. Dosim.* 122, 89-94 (2006)

Schimmack, W., Gerstmann, U., Schultz, W., Geipel, G.*: Long-term corrosion and leaching of depleted uranium (DU) in soil. *Radiat. Environ. Bioph.* 46, 221-227 (2007)

Tapio, S.*, Jacob, V.: Radioadaptive response revisited. *Radiat. Environ. Bioph.* 46, 1-12 (2007)

Vives i Batlle, J.*, Pröhl, G. et al. (23 Coauthors): Inter-comparison of absorbed dose rates for non-human biota. *Radiat. Environ. Bioph.* 46 (4), 349-373 (2007)

Schimmack, W., Gerstmann, U., Schultz, W., Sommer, M.*, Tschöpp, V., Zimmermann, G.*: Intra-cultivar variability of the soil-to-grain transfer of fallout 137Cs and 90Sr for winter wheat. *J. Environ. Radioact.* 94, 16-30 (2007)

Chen, M.-C. et al. (12 Coauthors): Longitudinal study on cat allergen exposure and the development of allergy in young children. *J. Allergy Clin. Immunol.* 119, 1148-1155 (2007)

Jarvis, D.*, Heinrich, J. et al. (14 Coauthors): Cat and dust mite allergen levels, specific IgG and IgG4, and respiratory symptoms in adults. *J. Allergy Clin. Immunol.* 119 (3), 697-704 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Condat, L., Forster-Heinlein, B.: H₂O : Reversible hexagonal-orthogonal grid conversion by 1-D filtering. Proceedings of the 2007 IEEE International Conference on Image Processing (ICIP'07), 73-76 (2007)

Brunner, C., Thekedar, B., Keck, L., Oeh, U., Hoeschen, C.: Headspace analysis of in vitro cultured cells using PTR-MS. Proceedings of the 3. International Conference on Proton Transfer Reaction Mass Spectrometry and its Application, 146-148 (2007)

Stephan, G.*, Schneider, K.*, Panzer, W., Walsh, L., Oestreicher, U.*: Enhanced yield of chromosome aberrations after CT examinations in paediatric patients. Int. J. Radiat. Biol. 83, 281-287 (2007)

Keck, L., Oeh, U., Hoeschen, C.: Correct equations for concentrations in the drift tube of a PTR-MS and potential implications for the calculated concentrations. Proceedings of the 3. International Conference on Proton Transfer Reaction Mass Spectrometry and its Application, 187-190 (2007)

Tschiersch, J., Li, W.B.: Thoron and its progenies in traditional dwellings and their contribution to inhalation dose. Proceedings Xiangshan Conference. Hazard and Control of Radon its progeny, 18-26 (2007)

Huss-Marp, J., Krämer, U.*, Eberlein, B., Pfab, F., Ring, J.*, Behrendt, H., Gulyas, A.F.*: Reply. J. Allergy Clin. Immunol. 120 (5), 1227-1228 (2007)

Kerzl, R.*, Simonowa, A.*, Ring, J.*, Ollert, M., Mempel, M.: Life-threatening anaphylaxis to kiwi fruit: protective sublingual allergen immunotherapy effect persists even after discontinuation. J. Allergy Clin. Immunol. 119, 507-508 (2007)

Gutermuth, J., Bewersdorff, M.*, Traidl-Hoffmann, C., Ring, J.*, Mueller, M.J., Behrendt, H., Jakob, T.: Immunomodulatory effects of aqueous birch pollen extracts and phytoprostanes on primary immune responses in vivo. J. Allergy Clin. Immunol. 120 (2), 293-299 (2007)

Huss-Marp, J., Krämer, U.*, Eberlein, B., Pfab, F., Ring, J.*, Behrendt, H., Gulyas, A.F.*: Reduced exhaled nitric oxide values in children with asthma after inpatient rehabilitation at high altitude. J. Allergy Clin. Immunol. 120 (2), 470-471 (2007)

Wjst, M., Altmüller, J., Braig, C., Bahnweg, M., André, E.: A genome-wide linkage scan for 25-OH-D3 and 1,25-(OH)₂-D3 serum levels in asthma families. J. Steroid Biochem. Mol. Biol. 103, 799-802 (2007)

Real, F.G.*, Wjst, M. et al. (10 Coauthors): Menstrual irregularity and asthma and lung function. J. Allergy Clin. Immunol. 120, 557-564 (2007)

Abanda-Nkwatt, D.*, Müsch, M., Tschiersch, J., Boettner, M.*, Schwab, W.*: Molecular interaction between *Methylobacterium extorquens* and seedling : growth promotion, methanol consumption and localization of the methanol emission site. J. Exp. Bot. 57, 4025-4032 (2006)

Schmid, O., Karg, E., Hagen, D.E.*, Whitefield, P.D.*, Ferron, G.A.: On the effective density of non-spherical particles as derived from combined measurements of aerodynamic and mobility equivalent size. J. Aerosol Sci. 38 (4), 431-443 (2007)

Michalke, B.: Mo speciation studies - in the frame of biokinetic models of radiologically relevant radionuclides. Metallobiomics : Analysis, Function, Clinical Trials, Kyriakopoulos, A. et al. [Eds.], München : Utz Verl., 147-152 (2007)

Kuczewski, B.*, Michalke, B.: CE-DAD-ICP-MS - A tool for speciation of metals in the environment and biology. Metallobiomics : analysis, function, clinical trials, Kyriakopoulos, A. et al. [Eds.], München : Utz Verl., 75-82 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Kreyling, W.G., Möller, W., Semmler-Behnke, M., Oberdörster, G.*: Particle dosimetry : Deposition and clearance from the respiratory tract and translocation towards extra-pulmonary sites. Particle Toxicology, Donaldson, K. ; Borm, P. [Eds.], Boca Raton : Taylor & Francis, 47-74 (2007)

Adam, T.*, Baker, R.R.*, Zimmermann, R.: Characterization of puff-by-puff resolved cigarette mainstream smoke by single photon ionization-time-of-flight mass spectrometry and principal component analysis. J. Agr. Food Chem. 55, 2055-2061 (2007)

Veronese, I.*, Cantone, M.C.*, Giussani, A.*, Arogunjo, A.*, Roth, P., Höllriegel, V., Oeh, U., Holzwarth, U.*, Abbas, K.*: A technique for the determination of ruthenium stable isotopes in urine samples. J. Radioanal. Nucl. Chem. 271, 497-501 (2007)

Herberth, G.*, Weber, A.*, Lehmann, I.*, Röder, S.*, Herbarth, O.*, Krämer, U.*, Borte, M.*, Diez, U.*, Borte, M.*, Heinrich, J.: The stress of relocation and neuropeptides: an epidemiological study in children. J. Psychosom. Res. 63 (4), 451-452 (2007)

Belloni, B.*, Mempel, M. et al. (11 Coauthors): Low-dose anti-IgE therapy in patients with atopic eczema with high serum IgE levels. J. Allergy Clin. Immunol. 120 (5), 1223-1225 (2007)

von Berg, A.*, Koletzko, S.*, Filipiak-Pittroff, B., Laubereau, B., Grübl, A.*, Wichmann, H.-E., Bauer, C.-P.*, Reinhardt, D.*, Berdel, D.*: Certain hydrolyzed formulas reduce the incidence of atopic dermatitis but not that of asthma : Three-year results of the German Infant Nutritional Intervention Study. J. Allergy Clin. Immunol. 119, 718-725 (2007)

Lim, A., Luderschmidt, S.*, Weidinger, A.*, Schnopp, C.*, Ring, J.*, Hein, R.*, Ollert, M.*, Mempel, M.: The IgE repertoire in PBMCs of atopic patients is characterized by individual rearrangements without variable region of the heavy immunoglobulin chain bias. J. Allergy Clin. Immunol. 120 (3), 696-706 (2007)

Arogunjo, A.M.*, Giussani, A., Höllriegel, V., Oeh, U.: Preliminary study of environmental and climatic factors on urinary excretion in the tropical region. Regional and Global Aspects of Radiation Protection. IRPA Regional Congress for Central and Eastern Europe, CD-ROM (2007)

Michalke, B., Fernandez Sanchez, M.L.*, Sanz-Medel, A.*: Elemental speciation in human milk and substitute food for newborns. The Determination of Chemical Elements in Food : Applications for Atomic and Mass Spectrometry, Caroli, S. [Ed.], New Jersey : Wiley & Sons, 535-566 (2007)

Schulz, H.: Asthma bronchiale und COPD - Bedeutung von Umwelteinflüssen. Volkskrankheit Asthma/COPD: Bestandsaufnahme und Perspektiven, Lingner, H. ; Schwarz, F.-W. ; Schultz, K. [Hrsg.], Heidelberg : Springer, 101-107 (2007)

Oeh, U., Li, W.B., Gerstmann, U., Giussani, A., Paretzke, H.G.: Hintergrundinformationen zu Polonium-210 und Betrachtungen zur Biokinetik und internen Dosimetrie vor dem Hintergrund des Falls Litwinenko. Vorkehrungen und Maßnahmen bei radiologischen Ereignissen, Bayer, A. et al. [Eds.], Köln : TÜV Media GmbH, 70-81 (2007)

Vogt, L.*, Gröger, T., Zimmermann, R.: Automated compound classification for ambient aerosol sample separations using comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry. J. Chromatogr. A 1150, 2-12 (2007)

Welthagen, W.*, Mitschke, S.*, Mühlberger, F., Zimmermann, R.: One-dimensional and comprehensive two-dimensional gas chromatography coupled to soft photo ionization time-of-flight mass spectrometry: A two- and three-dimensional separation approach. J. Chromatogr. A 1150, 54-61 (2007)

Bellin, D.*, Schulz, B.*, Soerensen, T.R.*, Salamini, F.*, Schneider, K.: Transcript profiles at different growth stages and tap-root zones identify correlated developmental and metabolic pathways of sugar beet. J. Exp. Bot. 58, 699-715 (2007)

Petoussi-Henss, N., Zankl, M., Hoeschen, C., Nosske, D.*: Voxel or MIRD-type model : a sensitivity study relevant to nuclear medicine. World Congress on Medical Physics and Biomedical Engineering 2006, Berlin : Springer, 1945-1948 (2006)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Streibel, T.* , Mitschke, S.* , Adam, T.* , Weh, J., Zimmermann, R.: Thermal desorption/pyrolysis coupled with photo ionisation time-of-flight mass spectrometry for the analysis and discrimination of pure tobacco samples. *J. Anal. Appl. Pyrol.* 79, 24-32 (2007)

Michalke, B., Halbach, S., Berthele, A.* , Mistritiotis, P.* , Ochsenkühn-Petropoulou, M.*: Size characterization of manganese species from human serum and cerebrospinal fluid using size exclusion chromatography coupled to inductively coupled plasma mass spectrometry. *J. Anal. Atom. Spectrom.* 22, 267-272 (2007)

Sklorz, M., Briedé, J.J.* , Schnelle-Kreis, J.* , Liu, Y.* , Cyrus, J., de Kok, T.M.* , Zimmermann, R.: Concentration of oxygenated polycyclic aromatic hydrocarbons and oxygen free radical formation from urban particulate matter. *J. Toxicol. Environ. Health A* 70 (21), 1866-1869 (2007)

Michalke, B., Berthele, A.* , Mistriotis, P.* , Ochsenkühn-Petropoulou, M.* , Halbach, S.: Manganese species from human serum, cerebrospinal fluid analyzed by size exclusion chromatography-, capillary electrophoresis coupled to inductively coupled plasma mass spectrometry. *J. Trace Elem. Med. Biol.* 21 (Suppl.1), 4-9 (2007)

Mariani, V., Gilles, S., Jakob, T., Thiel, M., Mueller, M.J.* , Ring, J., Behrendt, H., Traidl-Hoffmann, C.: Immunomodulatory mediators from pollen enhance the migratory capacity of dendritic cells and license them for Th2 attraction. *J. Immunol.* 178 (12), 7623-7631 (2007)

Lasser, R., Obermaier, J., Rauhut, H.: Generalized Hypergroups and Orthogonal Polynomials. *J. Aust. Math. Soc.* 82, 369-393 (2007)

Meyer-Pittroff, R.* , Behrendt, H., Ring, J.*: Specific immuno-modulation and therapy by means of high pressure treated allergens. *High Pressure Res.* 27 (1), 63-67 (2007)

Möhrenschlager, M.* , Mempel, M.* , Weichenmeier, I., Engst, R.* , Ring, J.* , Behrendt, H.: Scanning electron microscopy of *Dermatobia hominis* reveals cutaneous anchoring features. *J. Am. Acad. Dermatol.* 57 (4), 716-718 (2007)

Giovannangelo, M.* , Nordling, E.* , Gehring, U., Oldenwening, M.* , Bellander, T.* , Heinrich, J., Hoek, G.* , Brunekreef, B.*: Variation of biocontaminant levels within and between homes--the AIRALLERG study. *J. Expo. Sci. Environ. Epid.* 17 (2), 134-140 (2007)

Stölzel, M., Breitner, S., Cyrus, J., Pitz, M.* , Wölke, G., Kreyling, W., Heinrich, J., Wichmann, H.-E., Peters, A.: Daily mortality and particulate matter in different size classes in Erfurt, Germany. *J. Expo. Sci. Env. Epid.* 17, 458-467 (2007)

Filipiak, B. et al. (11 Coauthors): Solid food introduction in relation to eczema: results from a four-year prospective birth cohort study. *J. Pediatr.* 151 (4), 352-358 (2007)

Morgenstern, V., Bischof, W.* , Koch, A.* , Heinrich, J.: Measurements of endotoxin on ambient loaded PM filters after long-term storage. *Sci. Total Environ.* 370, 574-579 (2006)

Heidenreich, W.F., Cullings, H.M.* , Funamoto, S.* , Paretzke, H.G.: Promoting action of radiation in the atomic bomb survivor carcinogenesis data? *Radiat. Res.* 168 (6), 750-756 (2007)

Wegener, E., Krappmann, D.: CARD-Bcl10-Malt1 Signalosomes: Missing Link to NF-B. *Sci. STKE* 384, p21. (2007)

Henn, I.H.* , Wegener, E. et al. (11 Coauthors): Parkin Mediates Neuroprotection through Activation of I{kappa}B Kinase/Nuclear Factor- κ B Signaling. *J. Neurosci.* 27, 1868-1878 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Kreyling, W.G., Semmler-Behnke, M., Möller, W.: Health implications of nanoparticles. *J. Nanopart. Res.* 8, 543-562 (2006)

Wittmaack, K.: Deriving the mean primary-particle diameter and related quantities from the size distribution and the gravimetric mass of spark generated nanoparticles. *J. Nanopart. Res.* 9 (2), 191-200 (2007)

Heinrich, J.: Allergien und Haustierhaltung. *Umweltmed. Forsch. Prax.* 12, 9-20 (2007)

Csanády, G.A., Filser, J.G.: A physiological toxicokinetic model for inhaled propylene oxide in rat and human with special emphasis on the nose. *Toxicol. Sci.* 95, 37-62 (2007)

Rava, M.*, Verlato, G.*, Bono, R.*, Ponzio, M.*, Sartori, S.*, Blengio, G., Kuenzli, N., Heinrich, J., Götschi, T.*, de Marco, R.*: A predictive model for the home outdoor exposure to nitrogen dioxide. *Sci. Total Environ.* 384 (1-3), 163-170 (2007)

Rückerl, R. et al. (18 Coauthors): Air pollution and inflammation (Interleukin-6, C-Reactive Protein, Fibrinogen) in myocardial infarction survivors. *Environ. Health Persp.* 115 (7), 1072-1080 (2007)

Wittmaack, K.: Dose and response metrics in nanotoxicology: wittmaack responds to oberdoerster et al. and stoeger et al.. *Environ. Health Persp.* 115 (6), 291-292 (2007)

Stoeger, T., Schmid, O., Takenaka, S., Schulz, H.: Inflammatory Response to TiO₂ and Carbonaceous Particles Scales Best with BET Surface Area. *Environ. Health Persp.* 115 (6), 290-291 (2007)

Wittmaack, K.: In search of the most relevant parameter for quantifying lung inflammatory response to nanoparticle exposure: particle number, surface area, or what? *Environ. Health Persp.* 115 (2), 187-194 (2007)

Giovannangelo, M.E.C.A.*, Gehring, U., Nordling, E.*, Oldenwening, M.*, van Rijswijk, K.*, de Wind, S.*, Hoek, G.*, Heinrich, J., Bellander, T.*, Brunkreef, B.*: Levels and determinants of $\beta(1-3)$ -glucans and fungal extracellular polysaccharides in house dust of (pre-)schoolchildren in three European countries. *Environ. Int.* 33, 9-16 (2007)

Shaaban, R.*, Heinrich, J. et al. (15 Coauthors): Physical activity and bronchial hyperresponsiveness: European Community Respiratory Health Survey II. *Thorax* 62, 403-410 (2007)

Schneider, K. et al. (16 Coauthors): Analysis of DNA polymorphisms in sugar beet (*Beta vulgaris* L.) and development of an SNP-based map of expressed genes. *Theor. Appl. Genet.* 115 (5), 601-615 (2007)

Möertl, S., Angermeier, M., Eckardt-Schupp, F.: Highly efficient transfection of a human epithelial cell line with chemically synthesized siRNA using siLentFect lipid reagent. *tech note ; Bulletin* 5439, 1-4 (2007)

Lasser, R.: Amenability and weak amenability of H_1 -algebras of polynomial hypergroups. *Stud. Math.* 182, 183-196 (2007)

Müller, H.: Online zur Fachkunde im Strahlenschutz. *Strahlenschutzpraxis ;* 1, 62-63 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Weller, U.* , Zipprich, M.* , Sommer, M.* , zu Castell, W., Wehrhan, M.*: Mapping clay content across boundaries at the landscape scale with electromagnetic induction. *Soil Sci. Soc. Am. J.* 71, 1740-1747 (2007)

Heinrich, J. et al.: Clean air for health. Children's health and the Environment in Europe : A baseline assessment, Copenhagen, Denmark : WHO, 49-71 (2007)

Mörtl, S.: Moderne Techniken in der angewandten Zellkultur. *Der Experimentator Zellkultur*, Schmitz, S. [Hrsg.], München : Elsevier, Spektrum Akademischer Verl., 208-216 (2007)

Elsner, L.* , Multhoff, G. et al. (12 Coauthors): The heat shock protein HSP70 promotes mouse NK cell activity against tumors that express inducible NKG2D ligands. *J. Immunol.* 179 (8), 5523-5533 (2007)

Staples, K.J.* , Smallie, T.* , Williams, L.M.* , Foey, A.* , Burke, B.* , Foxwell, B.M.J.* , Ziegler-Heitbrock, L.: IL-10 Induces IL-10 in Primary Human Monocyte-Derived Macrophages via the Transcription Factor Stat3. *J. Immunol.* 178, 4779-4785 (2007)

Lips, K.S.* , Lührmann, A.* , Tschernig, T.* , Stoeger, T., Alessandrini, F., Grau, V.* , Haberberger, R.V., Koepsell, H.* , Pabst, R.* , Kummer, W.*: Down-regulation of the non-neuronal acetylcholine synthesis and release machinery in acute allergic airway inflammation of rat and mouse. *Life Sci.* 80 (24-25), 2263-2269 (2007)

Möller, W., Schuschnig, U.* , Meyer, G.* , Häussinger, K.* , Mentzel, H.* , Bitterle, E.* , Keller, M.*: Visualization of human sinus ventilation by radioactive krypton using the Pari Sinus pulsating system. *Respiratory Drug Delivery Europe 2007 ; Vol. 1*, Dalby, R.N. et al. [Eds.], 275-278 (2007)

Schikowski, T.* , Sugiri, D.* , Ranft, U.* , Gehring, U., Heinrich, J., Wichmann, H.-E., Krämer, U.*: Does respiratory health contribute to the effects of long-term air pollution exposure on cardiovascular mortality? *Resp. Res.* 8, 1-11 (2007)

El-Faramawy, N.A., Rühm, W.: Additional Criteria for EPR Dosimetry using Tooth Enamel. *Radiat. Res.* 167, 244-250 (2007)

Scherthan, H.* , Braselmann, H. et al. (15 Coauthors): Radiation-induced late effects in two affected individuals of the Lilo radiation accident. *Radiat. Res.* 167 (5), 615-623 (2007)

Trovati, S.* , Paretzke, H.G. et al. (16 Coauthors): Human exposure to space radiation: role of primary and secondary particles. *Radiat. Prot. Dosim.* 122, 362-366 (2006)

Alloni, D.* , Ballarini, F.* , Friedland, W., Liotta, M.* , Molinelli, S.* , Ottolenghi, A.* , Paretzke, H.G., Rossetti, M.*: Role of DNA/chromatin organisation and scavenging capacity in USX- and proton- induced DNA damage. *Radiat. Prot. Dosim.* 122, 141-146 (2006)

Friedland, W., Jacob, P., Paretzke, H.G., Ottolenghi, A.* , Ballarini, F.* , Liotta, M.*: Simulation of light ion induced DNA damage patterns. *Radiat. Prot. Dosim.* 122, 116-120 (2006)

Mathur, V.K.* , Barkyoumb, J.H.* , Yukihara, E.G.* , Göksu, H.Y.: Radiation sensitivity of memory chip module of an ID card. *Radiat. Meas.* 42, 43-48 (2007)

Veronese, I.* , Shved, V.* , Shishkina, E.A.* , Giussani, A.* , Göksu, H.Y.: Study of dose rate profile at sample disks in a Risø OSL single-grain attachment system. *Radiat. Meas.* 42, 138-143 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Simon, S.L.* , Wieser, A. et al. (10 Coauthors): BiodosEPR-2006 consensus committee report on biodosimetric methods to evaluate radiation doses at long times after exposure. *Radiat. Meas.* 42 (6-7), 948-971 (2007)

Ivannikov, A.* , Wieser, A. et al. (30 Coauthors): Interlaboratory comparison of tooth enamel dosimetry on Semipalatinsk region : Part 2, Effects of spectrum processing. *Radiat. Meas.* 42 (6-7), 1015-1020 (2007)

Hoshi. M.* , Wieser, A. et al. (28 Coauthors): Interlaboratory comparison of tooth enamel dosimetry on Semipalatinsk region : Part 1, general view. *Radiat. Meas.* 42 (6-7), 1005-1014 (2007)

Jacob, P., Meckbach, R., Sokolnikov, M.* , Khokhryakov, V.V.* , Vasilenk, E.*: Lung cancer risk of Mayak workers: modelling of carcinogenesis and bystander effect. *Radiat. Environ. Bioph.* 46 (4), 383-394 (2007)

Ulanovsky, A., Wieser, A.: External exposure of deciduous tooth enamel to photons : dose conversion coefficients for standard radiation fields. *Radiat. Environ. Bioph.* 46 (4), 339-348 (2007)

Rühm, W. et al. (16 Coauthors): Neutron-induced (63)Ni in copper samples from Hiroshima and Nagasaki : a comprehensive presentation of results obtained at the Munich Maier-Leibnitz Laboratory. *Radiat. Environ. Bioph.* 46 (4), 327-338 (2007)

Walsh, L.: A short review of model selection techniques for radiation epidemiology. *Radiat. Environ. Bioph.* 46 (3), 205-213 (2007)

Sausenthaler, S., Kompauer I., Mielck A., Borte M.* , Herbarth O., Schaaf, B.* , von Berg A.* , Heinrich J., LISA Study Group: Impact of parental education and income inequality on children's food intake. *Public Health Nutr.* 10, 24-33 (2007)

Mempel, M., Kalali, B.N.* , Ollert, M., Ring, J.*: Toll-like receptors in dermatology. *Dermatol. Clin.* 25 (4), 531-540 (2007)

Kreuzer, M., Jöckel, K.-H.* , Wichmann, H.-E., Straif, K.*: Rauchen, Passivrauchen und Krebserkrankungen : Aktuelle Studien aus Deutschland und ihr Beitrag zur IARC-Monographie. *Der Onkologe* 2, 1094-1105 (2006)

Kohlhammer, Y., Heinrich, J.: Chlorine, chlorination by-products and their allergic and respiratory health effects. *Curr. Resp. Med. Rev.* 3, 39-47 (2007)

Athanasiadis, G.I., Pfab, F., Klein, A., Braun-Falco, M., Ring, J.* , Ollert, M.: Erythema multiforme due to contact with laurel oil. *Contact Dermatitis* 57 (2), 116-118 (2007)

Sherman, M.* , Multhoff, G.: Heat shock proteins in cancer. *Ann. NY Acad. Sci.* 1113, 192-201 (2007)

Adam, T.* , Baker, R.R.* , Zimmermann, R.: Investigation, by single photon ionisation (SPI)-time-of-flight mass spectrometry (TOFMS), of the effect of different cigarette-lighting devices on the chemical composition of the first cigarette puff. *Anal. Bioanal. Chem.* 387, 575-584 (2007)

Dickie, R.* , Wang, Y.T.* , Butler, J.P.* , Schulz, H., Tsuda, A.*: Distribution and quantity of contractile tissue in postnatal development of rat alveolar interstitium. *Anat. Rec.* 291, 83-93 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Mühlberger, F., Saraji-Bozorgzad, M., Gonin, M.*, Fuhrer, K.*, Zimmermann, R.: Compact ultrafast orthogonal acceleration time-of-flight mass spectrometer for on-line gas analysis by electron impact ionization and soft single photon ionization using an electron beam pumped rare gas excimer lamp as VUV-light source. *Anal. Chem.* 79 (21), 8118-8124 (2007)

Kohlhammer, Y., Rzehak, P., Behr, J., Wichmann, H.-E., Heinrich, J.: High prevalence of pneumonia in children of a smelter town. *Int. J. Occup. Environ. Health* 13 (2), 167-174 (2007)

Keck, L., Oeh, U., Hoeschen, C.: Corrected equation for the concentrations in the drift tube of a proton transfer reaction-mass spectrometer (PTR-MS). *Int. J. Mass Spectrom.* 264, 92-95 (2007)

Bedada, G.B. et al. (10 Coauthors): Urban background particulate matter and allergic sensitization in adults of ECRHS II. *Int. J. Hyg. Environ. Health* 210 (6), 691-700 (2007)

Heinrich, J., Slama, R.: Fine particles, a major threat to children. *Int. J. Hyg. Environ. Health* 210 (5), 617-622 (2007)

Wilhelm, M.*, Eberwein, G.*, Hölzer, J.*, Gladtko, D., Angerer, J.*, Marczyński, B.*, Behrendt, H., Ring, J.*, Sugirim, D., Ranft, U.: Influence of industrial sources on children's health - Hot spot studies in North Rhine Westphalia, Germany. *Int. J. Hyg. Environ. Health* 210 (5), 591-599 (2007)

Jacquemin, B.*, Heinrich, J. et al. (10 Coauthors): Annoyance due to air pollution in Europe. *Int. J. Epidemiol.* 36 (4), 809-820 (2007)

Yue, W., Schneider, A., Rückerl, R., Koenig, W.*, Marder, V.*, Wang, S.*, Wichmann, H.-E., Peters, A., Zareba, W.*: Relationship between electrocardiographic and biochemical variables in coronary artery disease. *Int. J. Cardiol.* 119, 85-191 (2007)

Schaller, K.H.*, Csanady, G., Filser, J., Jüngert, B.*, Drexler, H.*: Elimination kinetics of metals after an accidental exposure to welding fumes. *Int. Arch. Occup. Environ. Health* 80, 635-641 (2007)

Steinke, M.*, Brockow, K. et al. (10 Coauthors): Perceived food allergy in children in 10 European Nations : A randomised telephone survey. *Int. Arch. Immunol* 143 (4), 290-295 (2007)

Cramer, C.*, Ranft, U.*, Ring, J.*, Möhrenschrager, M.*, Behrendt, H., Oppermann, H.*, Wilhelm, M.*, Kramer, U.: Allergic sensitization and disease in mother-child pairs from Germany: role of early childhood environment. *Int. Arch. Allergy Immunol.* 143 (4), 282-289 (2007)

Niederberger, V.*, Ring, J., Rakoski, J., Jager, S.*, Spitzauer, S.*, Valent, P. *, Horak, F.*, Kundi, M.*, Valenta, R.*: Antigens drive memory IgE responses in human allergy via the nasal mucosa. *Int. Arch. Allergy Immunol.* 142 (2), 133-144 (2007)

Kreyling, W.G., Wohland, T.: Defence functions of the respiratory tract. *Innovation* 7, 52-53 (2007)

Peters, A. et al. (18 Coauthors): Air pollution and inflammatory response in myocardial infarction survivors: gene-environment interactions in a high-risk group. *Inhal. Toxicol.* 19 (Suppl.1), 161-175 (2007)

Schober, W., Lubitz, S., Belloni, B., Gebauer, G., Lintelmann, J., Matuschek, G., Weichenmeier, I., Eberlein-König, B., Buters, J., Behrendt, H.: Environmental polycyclic aromatic hydrocarbons (PAHs) enhance allergic inflammation by acting on human basophils. *Inhal. Toxicol.* 19 (Suppl.1), 151-156 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Wittmaack, K.: The big ban on bituminous coal sales revisited: serious epidemics and pronounced trends feign excess mortality previously attributed to heavy black-smoke exposure. *Inhal. Toxicol.* 19 (4), 343-350 (2007)

Giovannangelo, M.*, Gehring, U., Nordling, E.*, Oldenwening, M.*, Terpstra, G.*, Bellander, T.*, Hoek, G.*, Heinrich, J., Brunekreef, B.*: Determinants of house dust endotoxin in three European countries – the AIRALLERG study. *Indoor Air* 17, 70-79 (2007)

Chen, C.M., Mielck, A., Fahlbusch, B.*, Bischof, W.*, Herbarth, O.*, Borte, M., Wichmann, H.-E., Heinrich, J.: Social factors, allergen, endotoxin, and dust mass in mattress. *Indoor Air* 17 (5), 384-393 (2007)

Rebholz, B.*, Mailhammer, R. et al. (18 Coauthors): Crosstalk between keratinocytes and adaptive immune cells in an IkBalpha protein-mediated inflammatory disease of the skin. *Immunity* 27 (2), 296-307 (2007)

Swiatek-De Lange, M., Stampfl, A., Hauck, S.M., Zischka, H., Gloeckner, C.J., Deeg, C.A.*, Ueffing, M.: Membrane-initiated effects of progesterone on calcium dependent signaling and activation of VEGF gene expression in retinal glial cells. *Glia* 55, 1061-1073 (2007)

Thalhammer, S., von Guttenberg, Z.*, Koehler, U.*, Zink, A.*, Heckl, W.*, Franke, T.*, Paretzke, H., Wixforth, A.*: Programmierbares, zytopenetisches Submikroliter-Chiplabor für molekular diagnostische Anwendungen. *GenomXPress* 1, 29-31 (2007)

Kiermayer, C., Conrad, M., Schneider, M., Schmidt, J., Brielmeier, M.: Optimization of spatiotemporal gene inactivation in mouse heart by oral application of tamoxifen citrate. *Genesis* 45 (1), 11-16 (2007)

Schaffrath-Rosario, A. et al. (11 Coauthors): Bewertung des Lungenkrebsrisikos durch Radon in Wohnungen in Deutschland mit Hilfe statistisch-epidemiologischer Modelle sowie internationale Einordnung der deutschen Ergebnisse. *Fortschritte in der Umweltmedizin, Wichmann, H.-E. ; Schlipkötter, H.W. ; Fülgraff, G., Landberg a.L. : ecomed, 174 S. (2006)*

Köhler, W.*, Linde, K.*, Halbach, S., Zilker, T., Kremers, L.*, Saller, R.*, Melchart, D.*: Prognos@in the Diagnosis of Amalgam Hypersensitivity – a Diagnostic Case-Control Study. *Forsch. Komplementärmed. Klass. Naturh.* 14, 18-24 (2007)

Strasser, S.*, Zink, A.*, Kada, G.*, Hinterdorfer, P.*, Peschel, O.*, Heckl, W.M.*, Nerlich, A.G., Thalhammer S.: Age determination of blood spots in forensic medicine by force spectroscopy. *Forensic Sci. Int.* 170 (1), 8-14 (2007)

Gehring, U. et al. (11 Coauthors): Bacteria and mould components in house dust and children's allergic sensitisation. *Eur. Respir. J.* 29, 1144-1153 (2007)

Hilbig, H.*, Kirsten, M.*, Rupietta, R.*, Graf, H.L.*, Thalhammer, S., Strasser, S.*, Armbruster, F.P.*: Implant surface coatings with bone sialoprotein, collagen, and fibronectin and their effects on cells derived from human maxillar bone. *Eur. J. Med. Res.* 12 (1), 6-12 (2007)

Rzehak, P., Meisinger, C., Woelke, G., Brasche, S.*, Strube, G.*, Heinrich, J.: Weight change, weight cycling and mortality in the ERFORT Male Cohort Study. *Eur. J. Epidemiol.* 22 (10), 665-673 (2007)

Forster, B.: Approximation in Smirnov spaces : Direct and inverse theorems. *Constr. Approx.* 26, 49-64 (2007)

Barbot, C.*, Bouloussa, O.*, Szymczak, W., Plaschke, M.*, Buckau, G.*, Durand, J.-P.*, Pieri, J.*, Kim, J.I.*, Goudard, F.*: Self-assembled monolayers of aminosilanes chemically bonded onto silicon wafers for immobilization of purified humic acids. *Colloid Surface A* 297 (1-3), 221-239 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Harrop, J.* , Wjst, M. et al. (15 Coauthors): Eczema, atopy and allergen exposure in adults: a population-based study. *Clin. Exp. Allergy* 37, 526-535 (2007)

Zimmermann, R., Mühlberger, F., Ulrich, A.* , Wieser, J.*: Photoionisierungs-Massenspektrometrie mit neuer Lichtquelle. *Nachr. Chem.* 55, 425-429 (2007)

Yue, W., Schneider, A., Stölzel, M., Rückerl, R., Cyrus, J., Pan, X.* , Zareba, W.* , Koenig, W.* , Wichmann, H.-E., Peters, A.: Ambient source-specific particles are associated with prolonged repolarization and increased levels of inflammation in male coronary artery disease patients. *Mutat. Res.-Fund. Mol. Mech. Mutagen.* 621, 50-60 (2007)

Darroudi, F.* , Wiegant, W.* , Meijers, M.* , Friedl, A.A., van der Burg, M.* , Fomina, J.* , van Dongen, J.J.* , Zdzienicka, M.Z.*: Role of Artemis in DSB repair and guarding chromosomal stability following exposure to ionizing radiation at different stages of cell cycle. *Mutat. Res.- Fund. Mol. Mech. Mut.* 615 (1-2), 111-124 (2007)

Neuer-Etscheidt, K.* , Orasche, J.* , Nordsieck, H.* , Streibel, T.* , Zimmermann, R., Kettrup, A.: Changes in PCDD/PCDF formation processes during instationary phases of combustor operation - Exemplified by the use of Cl4DD isomer patterns. *Chemosphere* 67, S205-S216 (2007)

Zutavern, A., Schaaf, B.* , von Berg, A.* , Borte, M.* , Herbarth, O.* , Wichmann, H.E., Heinrich, J.: Inanspruchnahme von Homöopathie und Konsultation von Heilpraktikern : Ergebnisse einer deutschen Geburtskohortenstudie (LISA) im Alter von 2 Jahren. *Monatsschr. Kinderh.* 155, 439-445 (2007)

Streibel, T.* , Nordsieck, H.* , Neuer-Etscheidt, K.* , Schnelle-Kreis, J.* , Zimmermann, R.: Experimental and statistical determination of indicator parameters for the evaluation of fly ash and boiler ash PCDD/PCDF concentration from municipal solid waste incinerators. *Chemosphere* 67, S155-S163 (2007)

Sklorz, M., Schnelle-Kreis, J.* , Liu, Y.* , Orasche, J.* , Zimmermann, R.: Daytime resolved analysis of polycyclic aromatic hydrocarbons in urban aerosol samples – Impact of sources and meteorological conditions. *Chemosphere* 67, 934-943 (2007)

Lohner, K. * , Schnäbele, K.* , Daniel, H.* , Oesterle, D., Reckemmer, G., Göttlicher, M., Wenzel, U.*: Flavonoids alter P-gp expression in intestinal epithelial cells in vitro and in vivo. *Mol. Nutr. Food Res.* 51, 293-300 (2007)

Filser, J.G., Hutzler, C.* , Meischner, V., Veereshwarayya, V., Csanády, G.A.: Metabolism of 1,3-butadiene to toxicologically relevant metabolites in single-exposed mice and rats. *Chemico-Biol. Interact.* 166, 93-103 (2007)

Schnelle-Kreis, J.* , Sklorz, M., Herrmann, H.* , Zimmermann, R.: Atmosphärische Aerosole : Quellen, Vorkommen, Zusammensetzung. *Chem. unserer Zeit* 41, 220-230 (2007)

Heinrich, J., Meisinger, C., Wölke, G., Greschik, C., Schneller, H., Brasche, S.* , Strube, G.*: Erfurt Male cohort Study (ERFORT Study) : Study design and descriptive results. *Cent. Eur. J. Public Health* 15, 51-57 (2007)

Wjst, M.: Public data mining shows extended linkage disequilibrium around ADAM33. *Allergy* 62, 444-446 (2007)

D'Amato, G.* , Cecchi, L.* , Bonini, S.* , Nunes, C.* , Annesi-Maesano, I.* , Behrendt, H., Liccardi, G.* , Popov, T.* , van Cauwenberge, P.: Allergenic pollen and pollen allergy in Europe. *Allergy* 62 (9), 976-990 (2007)

Wjst, M., Hyppönen, E.*: Vitamin D serum levels and allergic rhinitis. *Allergy* 62 (9), 1085-1086 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Pfab, F., Willi, R., Albert, A., Huss-Marp, J., Athanasiadis, G.I., Jakob, T., Ollert, M., Ring, J.*, Darsow, U.*: Anaphylactic reaction to folic acid verified by provocation testing. *Allergy* 62 (7), 823-824 (2007)

Schäfer, T.*, Wölke, G., Ring, J.*, Wichmann, H.-E., Heinrich, J.: Allergic sensitization to cat in childhood as major predictor of incident respiratory allergy in young adults. *Allergy* 62 (11), 1282-1287 (2007)

Bockelbrink, A.*, Heinrich, J., Schäfer, I.*, Zutavern, A., Borte, A.*, Herbarth, O., Schaaf, B.*, von Berg, A.*, Schäfer, T.*: Atopic eczema in children : another harmful sequel of divorce. *Allergy* 61, 1397-1402 (2006)

Ballarini, F.*, Paretzke, H.G. et al. (16 Coauthors): GCR and SPE organ doses in deep space with different shielding : Monte Carlo simulations based on the FLUKA code coupled to anthropomorphic phantoms. *Adv. Space Res.* 37, 1791-1797 (2006)

Zutavern, A. et al. (12 Coauthors): Day care in relation to respiratory-tract and gastrointestinal infections in a German birth cohort study. *Acta Paediatr.* 96 (10), 1494-1499 (2007)

Ständer, S.*, Darsow, U. et al. (17 Coauthors): Clinical classification of itch : a position paper of the International Forum for the Study of Itch. *Acta Derm.-Venereol.* 87 (4), 291-294 (2007)

Radons, J., Multhoff, G.: Heat shock proteins in biology and medicine. , Kerala, India : Research Signpost, 552 S. (2006)

Heinrich, J.: Children's health and the environment in Europe : A baseline assessment., Dalbokova, D.; Krzyzanowski, M.; Lloyd, S. [Eds.], Copenhagen : World Health Organization, 49-71 (2007)

Becker, J., Zankl, M., Petoussi-Hens, N.: Modifications of human voxel models used for radiation protection calculations. *World Congress on Medical Physics and Biomedical Engineering 2006*, Berlin : Springer, 1967-1970 (2006)

Galluzzi, L.*, Maiuri, M.C.*, Vitale, I.*, Zischka, H., Castedo, M.*, Zitvogel, L.*, Kroemer, G.*: Cell death modalities: classification and pathophysiological implications. *Cell Death Differ.* 14, 1237-1266 (2007)

Ridpath, J.R.*, Arakawa, H. et al. (15 Coauthors): Cells deficient in the FANCD1/BRCA1 pathway are hypersensitive to plasma levels of formaldehyde. *Cancer Res.* 67 (23), 11117-11122 (2007)

Pfister, K.*, Radons, J.*, Busch, R.*, Tidball, J.G.*, Pfeifer, M.*, Freitag, L.*, Feldmann, H.J.*, Milani, V., Issels, R., Multhoff, G.: Patient survival by Hsp70 membrane phenotype : association with different routes of metastasis. *Cancer* 110 (4), 926-935 (2007)

Filipiak-Pittroff, B., Wölke, G.: Externe Qualitätssicherung im Kinder- und Jugendgesundheitsurvey (KiGGS). *Bundesgesundheitsbl.-Gesundheitsforsch.-Gesundheitsschutz* 50, 573-577 (2007)

Koletzko, B.*, Cetin, I.*, Brenna, J.T.*, Heinrich, J.: Dietary fat intakes for pregnant and lactating women. *Brit. J. Nutr.* 98 (5), 873-877 (2007)

Atmaca A.*, Al-Batran, S.E.*, Maurer, A.*, Neumann, A.*, Heinzl, T., Hentsch, B.*, Schwarz, S.E.*, Hövelmann, S.*, Göttlicher, M., Knuth, A.*, Jäger, E.*: Valproic acid (VPA) in patients with refractory advanced cancer : a dose escalating phase I clinical trial. *Brit. J. Cancer* 97, 177-182 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

Kienberger, F.*, Thalhammer, S. et al. (12 Coauthors): Dynamic force microscopy imaging of plasmid DNA and viral RNA. *Biomaterials* 28 (15), 2403-2411 (2007)

Stoeger, T., Schulz, H.: Feinstaub bewirkt entzündliche Reaktion in der Lunge. *Biologie in unserer Zeit* 37, 12-13 (2007)

Kiermayer, C., Michalke, B., Schmidt, J., Brielmeier, M.: Effect of selenium on thioredoxin reductase activity in Txnrd1 or Txnrd2 hemizygous mice. *Biol. Chem.* 388 (10), 1091-1097 (2007)

Geisberger, R., Kiermayer, C., Hömig, C., Conrad, M., Schmidt, J., Zimmer-Strobl, U., Brielmeier, M.: B- and T-cell-specific inactivation of thioredoxin reductase 2 does not impair lymphocyte development and maintenance. *Biol. Chem.* 388 (10), 1083-1090 (2007)

Strasser, S.*, Zink, A.*, Janko, M.*, Heckl, W.M.*, Thalhammer, S.: Structural investigations on native collagen type I fibrils using AFM. *Biochem. Biophys. Res. Commun.* 354, 27-32 (2007)

Jacquemin, B.*, Lanki, T.*, Sunyer, J.*, Cabrera, L.*, Querol, X.*, Bellander, T.*, Moreno, N.*, Peters, A., Pey, J.*, Pekkanen, J.*: Levels of outdoor PM_{2.5}, absorbance and sulphur as surrogates for personal exposures among post-myocardial infarction patients in Barcelona, Spain. *Atmos. Environ.* 41, 1539-1549 (2007)

Hungershofer, K.*, Zeromskiene, K.*, Iinuma, Y.*, Helas, G.*, Trentmann, J.*, Trautmann, T.*, Parmar, R.S.*, Wiedensohler, A.*, Andreae, M.O.*, Schmid, O.: Modelling the optical properties of fresh biomass burning aerosol produced in a smoke chamber : Results from the EFEU campaign. *Atmos. Chem. Phys. Discuss.* 7 (4), 12657-12686 (2007)

Todd, I.*, Radford, P.M.*, Ziegler-Heitbrock, L., Ghaemmaghami, A.M.*, Powell, R.J.*, Tighe, P.J.*: Elevated CD16 expression by monocytes from patients with tumor necrosis factor receptor-associated periodic syndrome. *Arthr. Rheum.* 56 (12), 4182-4188 (2007)

Kneilling, M.*, Hültner, L. et al. (13 Coauthors): Targeted mast cell silencing protects against joint destruction and angiogenesis in experimental arthritis in mice. *Arth. Rheum.* 56 (6), 1806-1816 (2007)

Wjst, M.: Reducing the burden of atopic dermatitis. *Arch. Dis. Child.* 92 (3), S. 279 (2007)

Eyerich, K., Rombold, S.*, Foerster, S., Behrendt, H., Hofmann, H.*, Ring, J.*, Traidl-Hoffmann, C.: Altered, but not diminished specific T cell response in chronic mucocutaneous candidiasis patients. *Arch. Dermatol.* 299 (10), 475-481 (2007)

Sagan, D., Mörtl, S., Müller, I., Eckardt-Schupp, F., Eichholtz-Wirth, H.: Enhanced CD95-mediated apoptosis contributes to radiation hypersensitivity of NBS lymphoblasts. *Apoptosis* 12 (4), 753-767 (2007)

Sausenthaler, S., Koletzko, S.*, Schaaf, B.*, Lehmann, I.*, Borte, B.*, Herbarth, O.*, von Berg, A.*, Wichmann, H.-E., Heinrich, J.: Maternal diet during pregnancy in relation to eczema and allergic sensitization in the offspring at 2 y of age^{1,2,3}. *Am. J. Clin. Nutr.* 85, 530-537 (2007)

Chinn, S.*, Heinrich, J. et al. (12 Coauthors): Bronchial responsiveness in atopic adults increases with exposure to cat allergen. *Am. J. Respir. Crit. Care Med.* 176, 20-26 (2007)

Shaaban, R.*, Heinrich, J. et al. (11 Coauthors): Allergic rhinitis and onset of bronchial hyperresponsiveness: a population-based study. *Am. J. Respir. Crit. Care Med.* 176 (7), 659-666 (2007)

HMGU Publication List 2007

31.12.2007

Environmental Health

(* external author)

de Marco, R.*, Heinrich, J. et al. (19 Coauthors): Incidence of chronic obstructive pulmonary disease in a cohort of young adults according to the presence of chronic cough and phlegm. *Am. J. Respir. Crit. Care Med.* 175, 32-39 (2007)

Stayner, L.*, Bena, J.*, Sasco, A.J.*, Smith, R.*, Steenland, K.*, Kreuzer, M., Straif, K.: Lung cancer risk and workplace exposure to environmental tobacco smoke. *Am. J. Public Health* 97 (3), 545-551 (2007)

Lubin, J.H.*, Wichmann, H.-E. et al. (24 Coauthors): Cigarette smoking and cancer risk: modeling total exposure and intensity. *Am. J. Epidemiol.* 166 (4), 479-489 (2007)

Szymczak, W., Menzel, N., Keck, L.: Emission of ultrafine copper particles by universal motors controlled by phase angle modulation. *J. Aerosol. Sci.* 38, 520-531 (2007)

Pröhl, G.: Radionuklide. *Handbuch der Lebensmitteltoxikologie: Belastungen, Wirkungen, Lebensmittelsicherheit, Hygiene.* Band 2, Dunkelberg, H.; Gebel, T.; Hartwig, A. [Hrsg.], Weinheim : Wiley, 613-614 (2007)

Saberi, A.*, Arakawa, H. et al. (14 Coauthors): RAD18 and poly(ADP-ribose) polymerase independently suppress the access of nonhomologous end joining to double-strand breaks and facilitate homologous recombination-mediated repair. *Mol. Cell. Biol.* 27 (7), 2562-2571 (2007)

Multhoff, G., PATH: Heat shock protein 70 (Hsp70): Membrane location, export and immunological relevance. *Methods* 43, 229-237 (2007)

Schlattl, H., Zankl, M., Hoeschen, C.: Shielding properties of lead-free protective clothing and their impact on radiation doses. *Med. Phys.* 34 (11), 4270-4280 (2007)

Führ, H., Gröchenig, K.: Sampling theorems on locally compact groups from oscillation estimates. *Math. Z.* 255, 177-194 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Oesterheld, M., Mewes, H.W., Stümpflen, V.: Analysis of integrated biomolecular networks using a generic network analysis suite. *J. Integr. Bioinform.* 4 (3):72, 1-11 (2007)

Prokisch, H., Hartig, M., Hellinger, R., Meitinger, T., Rosenberg, T.*: A population-based epidemiological and genetic study of X-linked retinitis pigmentosa. *Invest. Ophthalm. Vis. Sci.* 48 (9), 4012-4018 (2007)

den Hollander, A.I.*, Strom, T.M. et al. (16 Coauthors): Identification of novel mutations in patients with Leber congenital amaurosis and juvenile RP by genome-wide homozygosity mapping with SNP microarrays. *Invest. Ophthalm. Vis. Sci.* 48 (12), 5690-5698 (2007)

Gloeckner, C.J., Boldt, K., Schumacher, A., Roepman, R.*, Ueffing, M.: A novel tandem affinity purification strategy for the efficient isolation and characterisation of native protein complexes. *Proteomics* 7 (23), 4228-4234 (2007)

Benedetto, B.D., Hitz, C., Höltter, S.M., Kühn, R., Vogt Weisenhorn, D.M., Wurst, W.: Differential mRNA distribution of components of the ERK/MAPK signalling cascade in the adult mouse brain. *J. Comp. Neurol.* 500, 542-556 (2007)

Varnek, A.*, Kireeva, N.*, Tetko, I.V., Baskin, I.I.*, Solov'ev, V.P.*: Exhaustive QSPR studies of a large diverse set of ionic liquids: how accurately can we predict melting points? *J. Chem. Inf. Model.* 47 (3), 1111-1122 (2007)

Deussing, J.M.*, Kühne, C.*, Pütz, B.*, Panhuysen, M., Breu, J.*, Stenzel-Poore, M.P.*, Holsboer, F.*, Wurst, W.: Expression profiling identifies the CRH/CRH-R1 system as a modulator of neurovascular gene activity. *J. Cereb. Blood Flow Metab.* 27 (8), 1476-1495 (2007)

Seedorf, H.*, Klafken, M., Fuchs, H., Seedorf, U.*, Hrabé de Angelis, M.: A mutation in the enamelin gene in a mouse model. *J. Dent. Res.* 86, 764-768 (2007)

Nakhai, H.*, Sel, S.*, Favor, J., Mendoza-Torres, L.*, Paulsen, F.*, Duncker, G.I.*, Schmid, R.M.*: Ptf1a is essential for the differentiation of GABAergic and glycinergic amacrine cells and horizontal cells in the mouse retina. *Development* 134 (6), 1151-1160 (2007)

Kristan, K.*, Stojan, J.*, Adamski, J., Lanisnik Rizner, T.*: Rational design of novel mutants of fungal 17 β -hydroxysteroid dehydrogenase. *J. Biotechnol.* 129, 123-130 (2007)

Görner, K.*, Holtorf, E.*, Waak, J.*, Pham, T.T., Vogt-Weisenhorn, D.M., Wurst, W., Haass, C.*, Kahle, P.J.*: Structural determinants of the C-terminal helix-kink-helix motif essential for protein stability and survival promoting activity of DJ-1. *J. Biol. Chem.* 282 (18), 13680-13691 (2007)

Duvezin-Caubet, S.*, Jagasia, R. et al. (11 Coauthors): Proteolytic processing of OPA1 links mitochondrial dysfunction to alterations in mitochondrial morphology. *J. Biol. Chem.* 281 (49), 37972 (2006)

Pinto, L., Götz, M.: Radial glial cell heterogeneity--the source of diverse progeny in the CNS. *Prog. Neurobiol.* 83 (1), 2-23 (2007)

Kiemer, L.*, Costa, S., Ueffing, M., Cesareni, G.*: WI-PHI: a weighted yeast interactome enriched for direct physical interactions. *Proteomics* 7 (6), 932-943 (2007)

García-Borreguero, D.*, Winkelmann, J. et al. (10 Coauthors): Diagnostic standards for dopaminergic augmentation of restless legs syndrome : Report from a World Association of Sleep Medicine-International Restless Legs Syndrome Study Group consensus conference at the Max Planck Institute. *Sleep Med.* 8 (5), 520-530 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Cuomo, C.A.*, Güldener, U. et al. [44 Coauthors]: The *Fusarium graminearum* genome reveals a link between localized polymorphism and pathogen specialization. *Science* 317, 1400-1402 (2007)

Deussing, J.M.*, Wurst, W.: Amygdala and neocortex: common origins and shared mechanisms. *Nat. Neurosci.* 10 (9), 1081-1082 (2007)

Prakash, N., Wurst, W.: A Wnt signal regulates stem cell fate and differentiation in vivo. *Neurodegener. Dis.* 4 (4), 333-338 (2007)

Ma, L.*, Cantrup, R.*, Varrault, A.*, Colak, D., Klenin, N.*, Götz, M., McFarlane, S.*, Journot, L.*, Schuurmans, C.*: Zac1 functions through TGFbeta11 to negatively regulate cell number in the developing retina. *Neural Dev.* 2: 11, 1-21 (2007)

Meyer, C.W.*, Elvert, R., Scherag, A.*, Ehrhardt, N., Gailus-Durner, V., Fuchs, H., Schäfer, H.*, Hrabé de Angelis, M., Klingenspor, M.*: Power matters in closing the phenotyping gap. *Naturwissenschaften* 94, 401-406 (2007)

Corsini, L.*, Bonnal, S.*, Basquin, J.*, Hothorn, M.*, Scheffzek, K.*, Valcárcel, J.*, Sattler, M.: U2AF-homology motif interactions are required for alternative splicing regulation by SPF45. *Nat. Struct. Mol. Biol.* 14 (7), 620-629 (2007)

Corsini, L.*, Sattler, M.: Tudor hooks up with DNA repair. *Nat. Struct. Mol. Biol.* 14 (2), 98-99 (2007)

Tiedemann, H.B., Schneltzer, E., Zeiser, S., Rubio-Aliaga, I., Wurst, W., Beckers, J., Przemeck, G.K.H., Hrabé de Angelis, M.: Cell-based simulation of dynamic expression patterns in the presomitic mesoderm. *J. Theor. Biol.* 248, 120-129 (2007)

Fischer, T., Guimera, J., Wurst, W., Prakash N.: Distinct but redundant expression of the Frizzled Wnt receptor genes at signaling centers of the developing mouse brain. *Neuroscience* 147 (3), 693-711 (2007)

Riess, P.*, Molcanyi, M.*, Bentz, K., Maegele M.*, Simanski, C.*, Carlitscheck, C.*, Schneider, A.*, Hescheler, J.*, Bouillon, B.*, Schäfer, U.*, Neugebauer, E.*: Embryonic stem cell transplantation after experimental traumatic brain injury dramatically improves neurological outcome, but may cause tumors. *J. Neurotrauma* 24, 216-225 (2007)

Schierloh, A.*, Deussing, J.*, Wurst, W., Zieglgänsberger, W.*, Rammes, G.*: Corticotropin-releasing factor (CRF) receptor type 1-dependent modulation of synaptic plasticity. *Neurosci. Lett.* 416 (1), 82-86 (2007)

Taussig, M.J.*, Kremmer, E. et al. (38 Coauthors): ProteomeBinders : planning a European resource of affinity reagents for analysis of the human proteome. *Nat. Methods* 4 (1), 13-17 (2007)

Trivedi, C.M.*, Floss, T. et al. (13 Coauthors): Hdac2 regulates the cardiac hypertrophic response by modulating Gsk3β activity. *Nat. Med.* 13, 324-331 (2007)

Molcanyi, M.*, Riess, P.*, Bentz, K., Maegele, M., Hescheler, J., Schäfke, B., Trapp, T., Neugebauer, E., Klug, N., Schäfer, U.: Trauma-associated inflammatory response impairs embryonic stem cell survival and integration after implantation into injured rat brain. *J. Neurotrauma* 24 (4), 625-637 (2007)

Winkelmann, J. et al. [26 Coauthors]: Genome-wide association study of restless legs syndrome identifies common variants in three genomic regions. *Nat. Genet.* 39, 1000-1006 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Horn, C.*, Hansen, J., Schnütgen, F.*, Seisenberger, C., Floss, T., Irgang, M.*, De-Zolt, S.*, Wurst, W., von Melchner, H.*, Noppinger, P.R.*: Splinkerette PCR for more efficient characterization of gene trap events. *Nat. Genet.* 39 (8), 933-935 (2007)

den Hollander, A.I.*, Boldt, K. et al. (32 Coauthors): Mutations in LCA5, encoding the ciliary protein lebercilin, cause Leber congenital amaurosis. *Nat. Genet.* 39 (7), 889-895 (2007)

Keller, B., Adamski, J.: RDH12, a retinol dehydrogenase causing Leber's congenital amaurosis, is also involved in steroid metabolism. *J. Steroid Biochem. Mol. Biol.* 104, 190-194 (2007)

Herbach, N.*, Rathkolb, B.*, Kemter, E.*, Pichl, L.*, Klatfen, M., Hrabé de Angelis, M., Halban, P. A.*, Wolf, E.*, Aigner, B.*, Wanke, R.*: Dominant-Negative Effects of a Novel Mutated Ins2 Allele Causes Early-Onset Diabetes and Severe β -Cell Loss in Munich Ins2C95S Mutant Mice. *Diabetes* 56, 1268-1276 (2007)

Mindnich, R., Adamski, J.: Functional aspects of 17 β -hydroxysteroid dehydrogenase 1 determined by comparison to a closely related retinol dehydrogenase. *J. Steroid Biochem. Mol. Biol.* 104, 334-339 (2007)

García-Borreguero, D.*, Allen, R.P.*, Benes, H.*, Earley, C.*, Happe, S.*, Högl, B.*, Kohnen, K.*, Paulus, W.*, Rye, D.*, Winkelmann, J.: Augmentation as a treatment complication of restless legs syndrome: Concept and management. *Movement Disord.* 22 (Suppl. 18), 476-484 (2007)

Frey, I.M.*, Drobyshev, A. et al. (11 Coauthors): Profiling at mRNA, protein, and metabolite levels reveals alterations in renal amino acid handling and glutathione metabolism in kidney tissue of *Pept2*^{-/-} mice. *Physiol. Genomics* 28, 301-310 (2007)

Hrabé de Angelis, M., Michel, D., Wagner, S., Becker, S., Beckers, J.: Chemical mutagenesis in mice. *The Mouse in Biomedical Research*, Fox, J. et al. [Eds.], 225-260 (2007)

Akyol, M. et al. (10 Coauthors): The common non-synonymous variant G38S of the KCNE1-(minK)-gene is not associated to QT interval in Central European Caucasians: results from the KORA study. *Eur. Heart J.* 28, 305-309 (2007)

Zhao, Y.*, Kwan, K.M.*, Mailloux, C.M.*, Lee, W.K.*, Grinberg, A.*, Wurst, W., Behringer, R.R., Westphal, H.: LIM-homeodomain proteins Lhx1 and Lhx5, and their cofactor Ldb1, control Purkinje cell differentiation in the developing cerebellum. *P. Natl. Acad. Sci. USA* 104 (32), 13182-13186 (2007)

Guggenberger, C., Ilgen, D., Adamski, J.: Functional analysis of cholesterol biosynthesis by RNA interference. *J. Steroid Biochem. Mol. Biol.* 104 (3-5), 105-109 (2007)

Takeuchi, J.K.*, Lickert, H., Bisgrove, B.W.*, Sun, X.*, Yamamoto, M.*, Chawengsaksophak, K.*, Hamada, H.*, Yost, H.J.*, Rossant, J.*, Bruneau, B.G.*: Baf60c is a nuclear Notch signaling component required for the establishment of left-right asymmetry. *P. Natl. Acad. Sci. USA* 104 (3), 846-851 (2007)

Mindnich, R., Hrabé de Angelis, M., Adamski, J.: Functional genome analysis indicates loss of 17 β -hydroxysteroid dehydrogenase type 2 enzyme in the zebrafish. *J. Steroid Biochem. Mol. Biol.* 103, 35-43 (2007)

Hitz, C., Wurst, W., Kühn, R.: Conditional brain-specific knockdown of MAPK using Cre/loxP regulated RNA interference. *Nucleic Acids Res.* 35 (12), e90 (2007)

Hauck, S.M., Schoeffmann, S., Amann, B.*, Stangassinger, M.*, Gerhards, H.*, Ueffing, M., Deeg, C.A.*: Retinal Mueller Glial Cells Trigger the Hallmark Inflammatory Process in Autoimmune Uveitis. *J. Proteome Res.* 6, 2121-2131 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Samani, N.J.*, Meitinger, T. et al. (34 Coauthors): Genomewide association analysis of coronary artery disease. *New Engl. J. Med.* 357 (5), 443-453 (2007)

Kühn, R., Streif, S., Wurst, W.: RNA interference in mice. *Handb. Exp. Pharmacol.* 178, 147-174 (2007)

Prehn, C., Ströhle, F., Haller, F., Keller, B., Hrabé de Angelis, M., Adamski, J., Mindnich, R.: A comparison of methods for assays of steroidogenic enzymes : New GC/MS versus HPLC and TLC. *Enzymology and Molecular Biology of Carbonyl Metabolism*, Weiner, H. et al. [Eds.], West Lafayette, Ind. : Purdue Univ. Press, 281-287 (2007)

Kristan, K.*, Sova, M.*, Lunder, M.*, Bratkovic, T.*, Gobec, S.*, Strukelj, B.*, Stojan, J.*, Adamski, J., Rizner, T.L.*: Searching for inhibitors of fungal 17 β -hydroxysteroid dehydrogenase. *Enzymology and Molecular Biology of Carbonyl Metabolism*, Weiner, H. et al. [Eds.], West Lafayette, Ind. : Purdue Univ. Press, 263-272 (2007)

Brösamle, C.*, Huber, A.B.: Cracking the black box – and putting it back together again : Animal models of spinal cord injury. *Drug Discov.Today: Disease Mod.* 3 (4), 341-347 (2006)

Riley, M.L., Schmidt, T.*, Artamonova, I.I., Wagner, C.*, Volz, A.*, Heumann, K.*, Mewes, H.-W., Frishman, D.: PEDANT genome database : 10 years online. *Nucleic Acids Res.* 35, 354-357 (2007)

Mannhaupt, G., Feldmann, H.*: Genomic evolution of the proteasome system among hemiascomycetous yeasts. *J. Mol. Evol.* 65 (5), 529-540 (2007)

Bentz, K., Molcanyi, M.*, Riess, P.*, Elbers, A.*, Pohl, E.*, Sachinidis, A.*, Hescheler, J.*, Neugebauer, E.*, Schäfer, U.*: Embryonic stem cells produce neurotrophins in response to cerebral tissue extract: Cell line-dependent differences. *J. Neurosci. Res.* 85 (5), 1057-1064 (2007)

Saarimäki-Vire, J.*, Peltopuro, P.*, Lahti, L.*, Naserke, T., Blak, A.A., Vogt Weisenhorn, D.M., Yu, K.*, Ornitz, D.M., Wurst, W., Partanen, J.*: Fibroblast growth factor receptors cooperate to regulate neural progenitor properties in the developing midbrain and hindbrain. *J. Neurosci.* 27 (32), 8581-8592 (2007)

Giraldez, T.*, Afonso-Oramas, D.*, Cruz-Muros, I.*, Garcia-Marin, V.*, Pagel, P., González-Hernández, T.*, Alvarez de la Rosa, D.*: Cloning and functional expression of a new epithelial sodium channel delta subunit isoform differentially expressed in neurons of the human and monkey telencephalon. *J. Neurochem.* 102 (4), 1304-1315 (2007)

Kovalishyn, V.V.*, Kholodovych, V.*, Tetko, V., Welsh, W.J.*: Volume learning algorithm significantly improved PLS model for predicting the estrogenic activity of xenoestrogens. *J. Mol. Graph. Model.* 26 (2), 591-594 (2007)

Berninger, B.*, Costa, M.R., Koch, U.*, Schroeder, T., Sutor, B.*, Grothe, B.*, Götz, M.: Functional properties of neurons derived from in vitro reprogrammed postnatal astroglia. *J. Neurosci.* 27 (32), 8654-8664 (2007)

Ninkovic, J., Mori, T., Götz, M.: Distinct modes of neuron addition in adult mouse neurogenesis. *J. Neurosci.* 27 (40), 10906-10911 (2007)

Costa, M.R., Kessar, N.*, Richardson, W.D.*, Götz, M., Hedin-Pereira, C.*: The marginal zone/layer I as a novel niche for neurogenesis and gliogenesis in developing cerebral cortex. *J. Neurosci.* 27 (42), 11376-11388 (2007)

Paquet-Durand, F.*, Silva, J.*, Talukdar, T.*, Johnson, L.E.*, Azadi, S.*, van Veen, T.*, Ueffing, M., Hauck, S.M., Ekström, P.A.*: Excessive activation of poly(ADP-ribose) polymerase contributes to inherited photoreceptor degeneration in the retinal degeneration 1 mouse. *J. Neurosci.* 27 (38), 10311-10319 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Oddone, A.*, Lorentzen, E.*, Basquin, J.*, Gasch, A.*, Rybin, V.*, Conti, E.*, Sattler, M.: Structural and biochemical characterization of the yeast exosome component Rrp40. *EMBO Rep.* 8 (1), 63-69 (2007)

zu Castell, W., Filbir, F.: Strictly positive definite functions on generalized motion groups. *Algorithms for Approximation*, Iske, A. ; Levesley, R.J. (Eds.), Heidelberg : Springer, 349-357 (2007)

Aigner, B.*, Rathkolb, B.*, Mohr, M.*, Klempt, M.*, Hrabé de Angelis, M., Wolf, E.*: Generation of ENU-Induced Mouse Mutants with Hypocholesterolemia: Novel Tools for Dissecting Plasma Lipoprotein Homeostasis. *Lipids* 42, 731-737 (2007)

Mahabir, E., Brielmeier, M., Schmidt, J.: Microbiological control of murine viruses in biological materials : Methodology and comparative sensitivity. A review. *Scand. J. Lab. Anim. Sci.* 34 (1), 47-58 (2007)

Mayer, A., Bulian, D., Scherb, H., Hrabé de Angelis, M., Schmidt, J., Mahabir, E.: Emergency prevention of extinction of a transgenic allele in a less-fertile transgenic mouse line by crossing with an inbred or outbred mouse strain coupled with assisted reproductive technologies. *Reprod. Fert. Develop.* 19, 984-994 (2007)

Mahabir, E., Bulian, D., Needham, J.*, Mayer, A., Mateusen, B.*, Soom, A.V.*, Nauwynck, H.*, Schmidt, J.: Transmission of mouse minute virus (MMV) but not mouse hepatitis virus (MHV) following embryo transfer with experimentally exposed in vivo-derived embryos. *Reprod. Biol.* 76 (2), 189-197 (2007)

Hamacher, M.*, Beckers, J. et al. (15 Coauthors): High Performance Proteomics: 7th HUPO Brain Proteome Project Workshop. *Proteomics* 7, 2490-2496 (2007)

Deeg, C.A.*, Altmann, F.*, Hauck, S.M., Schoeffmann, S., Amann, B.*, Stangassinger, M.*, Ueffing, M.: Down-regulation of pigment epithelium-derived factor in uveitic lesion associates with focal vascular endothelial growth factor expression and breakdown of the blood-retinal barrier. *Proteomics* 7, 1540-1548 (2007)

Sirko, S.*, von Holst, A.*, Wizenmann, A., Götz, M., Faissner, A.*: Chondroitin sulfate glycosaminoglycans control proliferation, radial glia cell differentiation and neurogenesis in neural stem/progenitor cells. *Development* 134 (15), 2727-2738 (2007)

Lillesaar, C., Tannhäuser, B., Stigloher, C., Kremmer, E., Bally-Cuif, L.: The serotonergic phenotype is acquired by converging genetic mechanisms within the zebrafish central nervous system. *Dev. Dynam.* 236 (4), 1072-1084 (2007)

Bally-Cuif, L.: Breaking symmetry on time. *Dev. Cell* 12 (1), 1-2 (2007)

Blak, A.A., Naserke, T., Saarimäki-Vire, J.*, Peltopuro, P.*, Giraldo-Velasquez, M.*, Vogt Weisenhorn, D.M., Prakash, N., Sendtner, M.*, Partanen, J.*, Wurst, W.: Fgfr2 and Fgfr3 are not required for patterning and maintenance of the midbrain and anterior hindbrain. *Dev. Biol.* 303, 231-243 (2007)

Ninkovic, J., Götz, M.: Signaling in adult neurogenesis: from stem cell niche to neuronal networks. *Curr. Opin. Neurobiol.* 17 (3), 338-344 (2007)

Volkman, K., Köster, R.W.: In vivo retrograde labeling of neurons in the zebrafish embryo or larva with rhodamine dextran. *CSH Protocols* 7, pdb.prot4832 (2007)

Deeg, C.A.*, Amann, B.*, Hauck, S.M., Kaspers, B.*: Defining cytochemical markers for different cell types in the equine retina. *Anat. Histol. Embryol.* 35, 412-415 (2006)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Braun, R.J., Kinkl, N., Beer, M., Ueffing, M.: Two-dimensional electrophoresis of membrane proteins. *Anal. Bioanal. Chem.* 389, 1033-1045 (2007)

Collin, R. W.J.*, Lichtner, P. et al. (16 Coauthors): Involvement of DFNB59 mutations in autosomal recessive nonsyndromic hearing impairment. *Hum. Mutat.* 28 (7), 718-723 (2007)

Fisher, S.A.*, Rivera, A.*, Fritsche, L.G.*, Keilhauer, C.N.*, Lichtner, P., Meitinger, T., Rudolph, G.*, Weber, B.H.*: Case-control genetic association study of fibulin-6 (FBLN6 or HMCN1) variants in age-related macular degeneration (AMD). *Hum. Mutat.* 28 (4), 406-413 (2007)

Perveen, R.*, Favor, J., Jamieson, R.V.*, Ray, D.W.*, Black, G.C.*: A heterozygous c-Maf transactivation domain mutation causes congenital cataract and enhances target gene activation. *Hum. Mol. Genet.* 16 (9), 1030-1038 (2007)

Koch, W.*, Pfeufer, A. et al. (10 Coauthors): Association of variants in the BAT1-NFKBIL1-LTA genomic region with protection against myocardial infarction in Europeans. *Hum. Mol. Genet.* 16 (15), 1821-1827 (2007)

Nag, N.*, Peterson, K.*, Wyatt, K.*, Hess, S.*, Ray, S.*, Favor, J., Bogani, D.*, Lyon, M.*, Wistow, G.*: Endogenous retroviral insertion in Cryge in the mouse No3 cataract mutant. *Genomics* 89 (4), 512-520 (2007)

Favor, J., Gloeckner, C.J., Janik, D.*, Klempt, M.*, Neuhäuser-Klaus, A., Pretsch, W., Schmahl, W. *, Quintanilla-Fend, L.: Type IV procollagen missense mutations associated with defects of the eye, vascular stability, the brain, kidney function and embryonic or postnatal viability in the mouse, *Mus musculus*: an extension of the Col4a1 allelic series and the identification of the first two Col4a2 mutant alleles. *Genetics* 175, 725-736 (2007)

Rubio-Aliaga, I. et al. (14 Coauthors): A Genetic Screen for Modifiers of the Delta1-Dependent Notch Signaling Function in the Mouse. *Genetics* 175, 1451-1463 (2007)

Wu, J.I.*, Rajendra, R., Barsi, J.C.*, Durfee, L.*, Benito, E. *, Gao, G.*, Kuruvilla, M.*, Hrdlicková, R. *, Liss, A.S. *, Artzt, K.*: Targeted disruption of Mib2 causes exencephaly with a variable penetrance. *Genesis* 45 (11), 722-727 (2007)

Vauti, F. *, Goller, T. *, Beine, R. *, Becker, L. *, Klopstock, T. *, Hölter, S.H., Wurst, W., Fuchs, H., Gailus-Durner, V., Hrabe de Angelis, M., Arnold, H.-H.*: The mouse Trm1-like gene is expressed in neural tissues and plays a role in motor coordination and exploratory behaviour. *Gene* 389, 174-185 (2007)

Emmersen, J. *, Rudd, S. *, Mewes, H.W., Tetko, I.V.: Separation of sequences from host-pathogen interface using triplet nucleotide frequencies. *Fungal Genet. Biol.* 44 (4), 231-241 (2007)

Fürst, R. *, Schroeder, T., Eilken, H.M. *, Bubik, M.F. *, Kiemer, A.K. *, Zahler, S. *, Vollmar, A.M.*: MAPK phosphatase-1 represents a novel anti-inflammatory target of glucocorticoids in the human endothelium. *FASEB J.* 21, 74-80 (2007)

Henning, K. *, Schroeder, T., Schwanbeck, R., Rieber, N., Bresnick, E.H. *, Just, U.*: mNotch1 signaling and erythropoietin cooperate in erythroid differentiation of multipotent progenitor cells and upregulate beta-globin. *Exp. Hematol.* 35 (9), 1321-1332 (2007)

Berninger, B. *, Guillemot, F. *, Götz, M.: Directing neurotransmitter identity of neurones derived from expanded adult neural stem cells. *Eur. J. Neurosci.* 25 (9), 2581-2590 (2007)

Pfeufer, A.: Genetics of the ECG: QT or not QT- A genetic analysis of a complex electrophysiological trait confirms several previously detected associations. *Eur. J. Hum. Genet.* 15 (9), 909-910 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Rieger, S., Köster, R.W.: Preparation of zebrafish embryos for transmission electron microscopy. Cold Spring Harbor Protocols 2 (Issue 6) (2007)

Distel, M., Köster, R.W.: In vivo time-lapse imaging of zebrafish embryonic development. Cold Spring Harbor protocols 2 (2007)

Seebohm, G.*, Pfeufer, A. et al. (17 Coauthors): Regulation of endocytic recycling of KCNQ1/KCNE1 potassium channels. Circ. Res. 100 (5), 686-692 (2007)

Baier, P.C.*, Ondo, W.G.*, Winkelmann, J.: Animal studies in restless legs syndrome. Movement Disord. 22 (Suppl. 18), 459-465 (2007)

Winkelmann, J. et al. (20 Coauthors): Genetics of restless legs syndrome (RLS): State-of-the-art and future directions. Movement Disord. 22 (Suppl. 18), 449-458 (2007)

Kemlink, D. et al. (25 Coauthors): Family-based association study of the restless legs syndrome loci 2 and 3 in a European population. Movement Disord. 22 (2), 207-212 (2007)

Haubenberger, D.*, Lichtner, P. et al. (17 Coauthors): A novel LRRK2 mutation in an Austrian cohort of patients with Parkinson's disease. Movement Disord. 22 (11), 1640-1643 (2007)

Deeg, C.A.*, Hauck, S.M., Amann, B.*, Kremmer, E., Stangassinger, M.*, Ueffing, M.: Major retinal autoantigens remain stably expressed during all stages of spontaneous uveitis. Mol. Immunol. 44, 3291-3296 (2007)

Müller, T.D.*, Koberwitz, K. et al. (12 Coauthors): No evidence for an involvement of variants in the cannabinoid receptor gene (CNR1) in obesity in German children and adolescents. Mol. Genet. Metab. 90 (4), 429-434 (2007)

Holm, P.C., Mader, M.T., Haubst, N., Wizenmann, A., Sigvardsson, M.*, Götz, M.: Loss- and gain-of-function analyses reveal targets of Pax6 in the developing mouse telencephalon. Mol. Cell. Neurosci. 34, 99-119 (2007)

Kimura, M.*, Winkelmann, J.: Genetics of sleep and sleep disorders. Cell. Mol. Life Sci. 64 (10), 1216-1226 (2007)

Nikoletopoulou, V.*, Plachta, N.*, Allen, N.D.*, Pinto, L., Götz, M., Barde, Y.A.*: Neurotrophin receptor-mediated death of misspecified neurons generated from embryonic stem cells lacking Pax6. Cell Stem Cell 1 (5), 529-540 (2007)

Schroeder, T.: Asymmetric cell division in normal and malignant hematopoietic precursor cells. Cell Stem Cell 1 (5), 479-481 (2007)

zu Castell, W., Fernández, N.L., Xu, Y.*: Polynomial Interpolation on the Unit Sphere II. Adv. Comput. Math. 26, 155-171 (2007)

Bentz, K., Molcanyi, M.*, Heß, S.*, Schneider, A.*, Hescheler, J.*, Neugebauer, E.*, Schaefer, U.*: Neural differentiation of embryonic stem cells is induced by signalling from non-neural niche cells. Cell Physiol. Biochem. 18, 275-286 (2006)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Collins, F.C.* , Finnell, R.H.* , Rossant, J.* , Wurst, W.: A New Partner for the International Knockout Mouse Consortium. *Cell* 129, S. 235 (2007)

Konstantinova, I.* , Nikolova, G.* , Ohara-Imaizumi, M.* , Meda, P.* , Kucera, T.* , Zarbalis, K., Wurst, W., Nagamatsu, S.* , Lammert, E.* : EphA-Ephrin-A-Mediated β cell communication regulates insulin secretion from pancreatic islets. *Cell* 129, 359-370 (2007)

Collins, F.S.* , Rossant, J.* , Wurst, W.: A mouse for all reasons. *Cell* 128, 9-13 (2007)

Zimmermann, S., Kiefer, F., Prudenziati, M.* , Spiller, C., Hansen, J., Floss, T., Wurst, W., Minucci, S.* , Göttlicher, M.: Reduced body size and decreased intestinal tumor rates in HDAC2-mutant mice. *Cancer Res.* 67 (19), 9047-9054 (2007)

Hagn, M., Marschall, S., Hrabé de Angelis, M.: EMMA - The European mouse mutant archive. *Brief. Funct. Genomic Proteomic.* 6 (3), 186-192 (2007)

Friedel, R.H., Seisenberger, C., Kaloff, C., Wurst, W.: EUCOMM the European conditional mouse mutagenesis program. *Brief. Funct. Genom. Prot.* 6 (3), 180-185 (2007)

Schmidt, M.V.* , Oitzl, M.* , Steenbergen, P.* , Lachize, S.* , Wurst, W., Müller, M.B., de Kloet, E.R., Meijer, O.C.: Ontogeny of steroid receptor coactivators in the hippocampus and their role in regulating postnatal HPA axis function. *Brain Res.* 1174, 1-6 (2007)

Gempel, K.* , Prokisch, H. et al. (15 Coauthors): The myopathic form of coenzyme Q10 deficiency is caused by mutations in the electron-transferring-flavoprotein dehydrogenase (ETFDH) gene. *Brain* 130 (8), 2037-2044 (2007)

Asmus, F.* , Hjermind, L.E.* , Dupont, E.* , Wagenstaller, J., Haberlandt, E.* , Munz, M.* , Strom, T.M., Gasser, T.: Genomic deletion size at the epsilon-sarcoglycan locus determines the clinical phenotype. *Brain* 130 (10), 2736-2745 (2007)

Pattaro, C.* , Meitinger, T. et L. (18 Coauthors): The genetic study of three population microisolates in South Tyrol (MICROS): study design and epidemiological perspectives. *BMC Med. Genetics* 8:29, 1-15 (2007)

Mägi, R.* , Pfeufer, A., Nelis, M.* , Montpetit, A.* , Metspalu, A.* , Remm, M.: Evaluating the performance of commercial whole-genome marker sets for capturing common genetic variation. *BMC Genomics* 8:159, 1-8 (2007)

Datson, N.A.* , Waegele, B. et al. [12 Coauthors]: Development of the first marmoset-specific DNA microarray (EUMAMA): a new genetic tool for large-scale expression profiling in a non-human primate. *BMC Genomics* 8, 1-23 (2007)

Friedel, S.* , Koberwitz, K. et al. (12 Coauthors): Mutation screen and association studies in the diacylglycerol O-acyltransferase homolog 2 gene (DGAT2), a positional candidate gene for early onset obesity on chromosome 11q13. *BMC Genet.* 8:17, 1-9 (2007)

Magnol, L.* , Fuchs, H. et al. (14 Coauthors): KIT is required for hepatic function during mouse post-natal development. *BMC Dev. Biol.* 7, 1-15 (2007)

Teppner, I., Becker, S., Hrabé de Anglis, M., Gossler, A.* , Beckers, J.: Compartmentalised expression of Delta-like 1 in epithelial somites is required for the formation of intervertebral joints. *BMC Dev. Biol.* 7, 1-12 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Kerrien, S.*, Oesterheld, M. et al. (29 Coauthors): Broadening the Horizon - Level 2.5 of the HUPO-PSI Format for Molecular Interactions. *BMC Biology* 5:44, 1-17 (2007)

Beckers, J., Hrabé de Angelis, M.: Von der funktionellen Genomforschung zur systemischen Krankheitsanalyse. *Biospektrum* 13, 504-506 (2007)

Stümpflen, V., Mewes, W.: Neue Informationstechnologien zur Nutzung biologischer Daten. *Biospektrum* 13 (3), 281-283 (2007)

Rieger, M.A., Schroeder, T.: Hämatopoetische Stammzellen. *Biospektrum* 13 (3), 254-256 (2007)

Köster, R.W.: Neuronale Migration : Quo vadis, neuron? *BIOspektrum* 12, 498-500 (2007)

Krumsiek, J., Arnold, R., Rattei, T.*: Gepard : a rapid and sensitive tool for creating dotplots on genome scale. *Bioinformatics* 23, 1026-1028 (2007)

Chapouton, P., Jagasia, R., Bally-Cuif, L.: Adult neurogenesis in non-mammalian vertebrates. *BioEssays* 29 (8), 745-757 (2007)

Kristan, K.*, Adamski, J., Lanisnik Rizner, T.*, Stojan, J.*: His164 regulates accessibility to the active site in fungal 17 β -hydroxysteroid dehydrogenase. *Biochimie* 89, 63-71 (2007)

Filipp, F.V.*, Sattler, M.: Conformational plasticity of the lipid transfer protein SCP2. *Biochemistry-US* 46 (27), 7980-7991 (2007)

Lukacik, P.*, Keller, B., Bunkoczi, G.*, Kavanagh, K.*, Lee, W.H.*, Adamski, J.: Structural and biochemical characterization of human orphan DHRS10 reveals a novel cytosolic enzyme with steroid dehydrogenase activity. *Biochem. J.* 402, 419-427 (2007)

Hammel, M.*, Michel, G., Hoefler, C., Klaften, M., Müller-Höcker, J.*, Hrabé de Angelis, M., Holzinger, A.*: Targeted inactivation of the murine *Abca3* gene leads to respiratory failure in newborns with defective lamellar bodies. *Biochem. Biophys. Res. Comm.* 359, 947-951 (2007)

Farre-Castany, M.A.*, Tetko, I.V. et al. Parvalbumin; Calbindin-D28k; Knockout mice; Locomotor activity; Purkinje cells[11 Coauthors]: Differences in locomotor behavior revealed in mice deficient for the calcium-binding proteins parvalbumin, calbindin D-28k or both. *Behav. Brain Res.* 178, 250-261 (2007)

Rinnerthaler, M.*, Braun, R.J. et al. (11 Coauthors): MMI1 (YKL056c, TMA19), the yeast orthologue of the translationally controlled tumor protein (TCTP) has apoptotic functions and interacts with both microtubules and mitochondria. *BBA-Bioenergetics* 1757, 631-638 (2006)

Brügger, K.*, Chen, L.*, Stark, M.*, Zibat, A.*, Redder, P.*, Ruepp, A., Awayez, M.*, She, Q.*, Garrett, R.A.*, Klenk H.P.*: The genome of *Hyperthermus butylicus*: a sulfur-reducing, peptide fermenting, neutrophilic Crenarchaeote growing up to 108 °C. *Archaea* 2, 127-135 (2007)

den Hollander, A.I.*, van Lith-Verhoeven, J.J.*, Arends, M.L.*, Strom, T.M., Cremers, F.P.*, Hoyng, C.B.*: Novel compound heterozygous TULP1 mutations in a family with severe early-onset retinitis pigmentosa. *Arch. Ophthalmol.* 125 (7), 932-935 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Aigner, B.*, Rathkolb, B.*, Herbach, N.*, Kemter, E.*, Schessl, C.*, Klaften, M., Klempt, M.*, Hrabé de Angelis, M., Wanke, R.*, Wolf, E.*: Screening for increased plasma urea levels in a large-scale ENU mouse mutagenesis project reveals kidney disease models. *Am. J. Physiol. -Renal Physiol.* 292, 1560-1567 (2007)

Wagenstaller, J. et al. (10 Coauthors): Copy-number variations measured by single-nucleotide-polymorphism oligonucleotide arrays in patients with mental retardation. *Am. J. Hum. Gent.* 81 (4), 768-779 (2007)

Wurst, W., Kühn, R.: Genetisch veränderte Tiere. *Handbuch der Psychopharmakotherapie*, Holsboer, F. ; Gründer, G. ; Benkert, O. [Hrsg.], Berlin : Springer, 105-124 (2007)

Duvezin-Caubet, S.*, Jagasia, R. et al. (11 Coauthors): OPA1 processing reconstituted in yeast depends on the subunit composition of the m-AAA protease in mitochondria. *Mol. Biol. Cell* 18 (9), 3582-3590 (2007)

Kallnik, M. et al. (10 Coauthors): Impact of IVC housing on emotionality and fear learning in male C3HeB/FeJ and C57BL/6J mice. *Mamm. Genome* 18, 173-186 (2007)

Hancock, J.M.*, Gailus-Durner, V. et al. (37 Coauthors): Integration of mouse phenome data resources. *Mamm. Genome* 18, 157-163 (2007)

Pretsch, W., Favor, J.: Genetic, biochemical, and molecular characterization of nine glyceraldehyde-3-phosphate dehydrogenase mutants with reduced enzyme activity in *Mus musculus*. *Mamm. Genome* 18 (10), 686-692 (2007)

HMGU Publication List 2007

31.12.2007

Comparative Genomics

(* external author)

Demski, H, Pharow, P.*, Hildebrand, C.: Identitätsmanagement in eHealth - innovative Ansätze und Standardisierungsaktivitäten. Kongress "Medizin und Gesellschaft", 57-58 (2007)

von Eisenhart-Rothe, R.*, Vogl, T.*, Englmeier, K.-H., Graichen, H.*: A new in vivo technique for determination of femoro-tibial and femoro-patellar 3D kinematics in total knee arthroplasty. J. Biomech. 40 (14), 3079-3088 (2007)

von Eisenhart-Rothe, R.*, Vogl, T.*, Englmeier, K.-H., Dennis, D.A.*: Knieprothesenkinematik : In-vivo-Analysetechniken und Ergebnisse. Orthopäde 36, 620-627 (2007)

Englmeier, K.-H., Seemann, M.D.*: Virtual hybrid bronchoscopy using PET/CT data sets. Proceeding of SPIE ; Vol. 6511, Medical Imaging 2007: Physiology, Function and Structure from Medical Images, Manduca, A. et al. [Eds.], S. 651110 (2007)

Hildebrand, C., Demski, H: BioHealth- Encouraging the use of eHealth security and identify management standards. Building Sustainable Health Systems. MEDinfo 2007, : IOS Press, CD-ROM (2007)

Seemann, M.D.*, Schaefer, J.F.*, Englmeier, K.-H: Virtual positron emission tomography/computed tomography-bronchoscopy: possibilities, advantages and limitations of clinical application. Eur. Radiol. 17, 709-715 (2007)

Pharow, P.*, Hildebrand, C., Blobel, B.*: Identity Management im Bereich eHealth - Stand und Perspektiven. Kongress 'Medizin und Gesellschaft 2007', Wichmann, H.-E. ; Nowak, D. ; Zapf, A. [Hrsg.], : rheinware Verl., 265-266 (2007)

Demski, H, Engelbrecht, K.-H.: Sicherheitsstandards für eHealth - das EU-Projekt BioHealth. Kongress "Medizin und Gesellschaft", S. 57 (2007)

Trpisovsky, T.*, Hildebrand, C., Engelbrecht, R., Pharow, P.*, Demski, H., Savastano, M.*, Blobel, B.*, Hovsto, A.*: BioHealth - Marketing of eID Standards for the eHealth Domain. EU RFID Forum 2007, : European Commission (2007)

HMGU Publication List 2007

31.12.2007

Unbound Research, Earch and Environment

(* external author)

Spannagl, M., Noubibou, O., Haase, D.*, Yang, L., Gundlach, H., Hindemitt, T., Klee, K., Haberer, G., Schoof, H.*, Mayer, K.F.X.: MIPSPlantsDB—plant database resource for integrative and comparative plant genome research. *Nucleic Acids Res.* 35, 834-840 (2007)

Itoh, T.*, Haberer, G. et al. [93 Coauthors]: Curated genome annotation of *Oryza sativa* ssp. japonica and comparative genome analysis with *Arabidopsis thaliana*. *Genome Res.* 17, 175-183 (2007)

Frishman, D.: Protein annotation at genomic scale: the current status. *Chem. Rev.* 107 (8), 3448-3466 (2007)

Artamonova, I.I., Gelfand, M.S.*: Comparative genomics and evolution of alternative splicing: the pessimists' science. *Chem. Rev.* 107 (8), 3407-3430 (2007)

Eyüboğlu, B.*, Pfister, K.*, Haberer, G., Chevalier, D.*, Fuchs, A.*, Mayer, K.F.X., Schneitz, K.*: Molecular characterisation of the STRUBBELIG-RECEPTOR FAMILY of genes encoding putative leucine-rich repeat receptor-like kinases in *Arabidopsis thaliana*. *BMC Plant Biol.* 7, 1-24 (2007)

Ballvora, A.*, Jöcker, A.*, Viehöver, P.*, Ishihara, H.*, Paal, J.*, Meksem, K.*, Bruggmann, R., Schoof, H.*, Weisshaar, B.*, Gebhardt, C.*: Comparative sequence analysis of *Solanum* and *Arabidopsis* in a hot spot for pathogen resistance on potato chromosome V reveals a patchwork of conserved and rapidly evolving genome segments. *BMC Genomics* 8, 1-12 (2007)

Artamonova, I.I., Frishman, G., Frishman, D.: Applying negative rule mining to improve genome annotation. *BMC Bioinformatics* 8:261, 1-10 (2007)

Klee, K., Ernst, R., Spannagl, M., Mayer, K.F.: Apollo2Go : a web service adapter for the Apollo genome viewer to enable distributed genome annotation. *BMC Bioinformatics* 8: 320, 1-5 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Zidorn, C.*, Ellmerer, E.-P.*, Heller, W., Joehrer, K.*, Frommberger, M., Greil, R.*, Guggenberger, M.*, Ongania, K.-H.*, Stuppner, H.*: A new sesquiterpene lactone sulfate from *Reichardia gaditana* (Asteraceae). *Z. Naturforsch. B* 62b, 132-134 (2007)

Bertaux, J.*, Gloger, U.*, Schmid, M., Hartmann, A., Scheu, S.*: Routine fluorescence in situ hybridization in soil. *J. Microbiol. Meth.* 69 (3), 451-460 (2007)

Sharma, S., Radl, V., Hai, B., Kloos, K., Mrkonjic, M., Engel, M., Schauss, K., Schloter, M.: Quantification of functional genes from prokaryotes in soil by PCR. *J. Microbiol. Meth.* 68, 445-452 (2007)

Selesi, D., Pattis, I., Schmid, M., Kandeler, E.*, Hartmann, A.: Quantification of bacterial RubisCO genes in soils by cbbL targeted real-time PCR. *J. Microbiol. Meth.* 69 (3), 497-503 (2007)

Li, X., Chen, G.*, Fekete, J.*, Yang, F.*, Fekete, A., Englmann, M., Schmitt-Kopplin, P.: Optimization of gradient elution in UPLC : A core study on the separation of homoserine lactones produced by *Bukholderia Ubonensis* and structure confirmation with ultra high resolution mass spectrometry. *J. Liq. Chromatogr. Rel. Technol.* 30, 2515-2531 (2007)

Matucha, M.*, Gryndler, M.*, Forczek, S.T.*, Schröder, P., Bastviken, D.*, Rohlenová, J.*, Uhlíová, H.*, Fuksová, K.*: A chlorine-36 and carbon-14 study of the role of chlorine in the forest ecosystem. *J. Labelled Compd. Radiopharm.* 50, 437-439 (2007)

Bauer, R., Anneser, B., Griebler, C.: Das Schadstoffahnenrand-Konzept Ökologie und Biochemie des biologischen Abbaus in organisch kontaminierten Grundwasserökosystemen. Tagungsbericht 2006 (Dresden), Werder : Deutsche Gesellschaft für Limnologie, 1-9 (2007)

Schröder, P. et al. (15 Coauthors): Using photoremediation technologies to upgrade waste water treatment in Europe. *Environ. Sci. Pollut. Res.* 14 (7), 490-497 (2007)

Anneser, B., Richters, L.*, Griebler, G.: Identification and localization of redox processes in an aromatic hydrocarbon plume via high-resolution sampling of biotic and abiotic gradients. *Water pollution in natural porous media at different scales. Assessment of fate, impact and indicators. WAPO²*, Candela, L. et al. [Eds.], Madrid : Instituto Geologica y Minero de Espana, 339-345 (2007)

Schröder, P., Scheer, C.E., Diekmann, F., Stampfl, A.: How plants cope with foreign compounds. Translocation of xenobiotic glutathione conjugates in roots of barley (*Hordeum vulgare*). *Environ. Sci. Pollut. Res.* 14 (2), 114-122 (2007)

Lenoir, D., Feicht, E.A., Pandelova, M., Schramm, K.-W.: Formation, mechanisms and minimization of chlorinated micropollutants (dioxins) formed in technical incineration processes. *Methods and Reagents for Green Chemistry : An Introduction*, Tundo, P. ; Perosa, A. ; Zecchini, F. [Eds.], New Jersey : Wiley & Sons, 171-187 (2007)

Radl, V.*, Gattinger, A., Chronáková, A.*, Nemcová, A.*, Cuhel, J.*, Simek, M.*, Munch, J.-C., Schloter, M., Elhottová, D.*: Effects of cattle husbandry on abundance and activity of methanogenic archaea in upland soils. *ISME J.* 1, 443-452 (2007)

Neufeld, J.D.*, Vohra, J.*, Dumont, M.G.*, Lueders, T., Manefield, M.*, Friedrich, M. W.*, Murrell, J.C.*: DNA stable-isotope probing. *Nat. Prot.* 2, 860-866 (2007)

Whiteley, A.S.*, Thomson, B.*, Lueders, T., Manefield, M.*: RNA stable-isotope probing. *Nat. Prot.* 2, 838-844 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Mayr, C.* , Stichler, W. et al. (14 Coauthors): Precipitation origin and evaporation of lakes in semi-arid Patagonia (Argentina) inferred from stable isotopes ($\delta^{18}\text{O}$, $\delta^2\text{H}$). *J. Hydrol.* 334 (1-2), 53-63 (2007)

Hu, X.-Z.* , Xu, Y.* , Yediler, A.: Determinations of Residual Furazolidone and Its Metabolite, 3-Amino-2-oxazolidinone (AOZ), in Fish Feeds by HPLC-UV and LC-MS/MS, Respectively. *J. Agric. Food Chem.* 55, 1144-1149 (2007)

Kunapuli, U., Lüders, T., Meckenstock, R.U.: The use of stable isotope probing to identify key iron-reducing microorganisms involved in anaerobic benzene degradation. *ISME J.* 1 (7), 643-653 (2007)

Loos, C., Gayler, S., Priesack, E.: Assessment of water balance simulations for large-scale weighing lysimeters. *J. Hydrol.* 335, 259-270 (2007)

Schmitt-Kopplin, P.: Capillary Electrophoresis - Mass Spectrometry. *Electrophoresis* 28 (9) {Special Issue}, 1303-1474 (2007)

Gat, J.R.* , Yakir, D.* , Goodfriend, G.* , Fritz, P., Trimborn, P., Lipp, J., Gev, I.* , Adar, E.* , Waisel, Y.*: Stable isotope composition of water in desert plants. *Plant Soil* 298, 31-45 (2007)

Jehnes, S.* , Betz, G., Bahnweg, G., Haberer, K.* , Sandermann, H., Rennenberg, H.*: Tree internal signalling and defence reactions under ozone exposure in sun and shade leaves of European beech (*Fagus sylvatica* L.) trees. *Plant Biol.* 9, 253-264 (2007)

Lassmann, S.* , Schuster, I.* , Walch, A., Göbel, H.* , Jütting, U., Makowiec, F.* , Hopt, U.* , Werner, M.*: STAT3 mRNA and protein expression in colorectal cancer: effects on STAT3-inducible targets linked to cell survival and proliferation. *J. Clin. Pathol.* 60, 173-179 (2007)

Matyssek, R.* , Bahnweg, G. et al. (11 Coauthors): Synopsis of the CASIROZ case study : carbon sink strength of *Fagus sylvatica* L. in a changing environment - experimental risk assessment of mitigation by chronic ozone impact. *Plant Biol.* 9, 163-180 (2007)

Pandelova, M., Lenoir, D., Schramm, K.-W.: Inhibition of PCDD/F and PCB formation in co-combustion. *J. Hazard. Mater.* 149 (3), 615-618 (2007)

Penning, H., Conrad, R.*: Quantification of carbon flow from stable isotope fractionation in rice field soils with different organic matter content. *Org. Geochem.* 38 (12), 2058-2069 (2007)

Fang, W.* , Xin, J.* , Young-rong, B.* , Fen-xia, Y.* , Hong-jian, G.* , Gui-Fen, Y.* , Munch, J.C., Schroll, R.: Organochlorine pesticides in soils under different land usage in the Taihu Lake region, China. *J. Environ. Sci.* 19, 584-590 (2007)

Aulakh, J.S.* , Fekete, A., Malik, K. A.* , Mahajan, R.K.* , Schmitt-Kopplin, P.: Capillary electrophoretic-ultraviolet method for the separation and estimation of zineb, maneb, and ferbam in food samples. *J. AOAC Int.* 90, 834-837 (2007)

Englmann, M., Fekete, A., Kuttler, C., Frommberger, M., Li, X., Gebefügi, I., Fekete, J.* , Schmitt-Kopplin, P.: The hydrolysis of unsubstituted N-acylhomoserine lactones to their homoserine metabolites. Analytical approaches using ultra performance liquid chromatography. *J. Chromatogr. A* 1160, 184-193 (2007)

Schmitt-Kopplin, P., Hertkorn, N., Frommberger, M., Lucio, M., Englmann, M., Feketa, A., Gebefügi, I.: Ion cyclotron resonance fourier transform mass spectrometry for non-targeted metabolomics of molecular interactuins in the rhizosphere. *Soil Biology ; Vol. 11, Advances Techniques in Soil Microbiology*, Varma, A. ; Oelmüller, R. [Eds.], Berlin : Springer, 281-293 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Priesack, E., Gayler, S., Hartmann, H.P.: The impact of crop growth sub-model choice on simulated water and nitrogen balances. Modelling water and nutrient dynamics in soil-crop systems: Applications of different models to common data sets, Kersebaum, K.C. et al. [Hrsg.], Berlin : Springer, 183-195 (2007)

van Elsas, J.D.*, Torsvik, V.*, Ovreas, L.*: The bacteria and archaea in soil. Modern Soil Microbiology, van Elsas, J.D. ; Jansson, J. K.; Trevors, J. [Eds.], Boca Raton, USA : CRC Press, 83-105 (2007)

Schmid, M., Rothballer, M., Hartmann, A.: Analysis of microbial communities in soil microhabitats using fluorescence in situ hybridization. Modern Soil Microbiology, van Elsas, J.D. ; Jansson, J.K. ; Trevors, J. [Eds.], Boca Raton, USA : CRC Press, 317-335 (2007)

Sharma, S., Aneja, M.K., Schloter, M.: Functional characterization of soil microbial communities by messenger RNA analysis. Modern soil microbiology, van Elsas, J.D. et al. [Eds.], Boca Raton : Taylor & Francis, 337-352 (2007)

Hagn, A., Wallisch, S., Radl, V., Munch, J.C., Schloter, M.: A new cultivation independent approach to detect and monitor common Trichoderma species in soils. J. Microbiol. Meth. 69, 86-92 (2007)

Marx, M.*, Buegger, F., Gattinger, A., Marschner, B.*, Zsolnay, A., Munch, J.C.: Determination of the fate of ¹³C labelled maize and wheat rhizodeposit-C in two agricultural soils in a greenhouse experiment under ¹³C-CO₂-enriched atmosphere. Soil Biol. Biochem. 39, 3043-3055 (2007)

Chahbane, N., Popescu, D.-L.*, Mitchell, D.A.*, Chanda, A.*, Lenoir, D., Ryabov, A.D.*, Schramm, K.-W., Collins, T.J.*: FeIII-TAML-catalyzed green oxidative degradation of the azo dye Orange II by H₂O₂ and organic peroxides : products, toxicity, kinetics and mechanisms. Green Chem. 9, 49-57 (2007)

Gattinger, A., Palojärvi, A., Schloter, M.: Soil microbial communities and related functions. Perspectives for Agroecosystem Management, Schröder, P. ; Pfadenhauer, J.; Munch, J.C. [Eds.], Amsterdam : Elsevier, 280-292 (2008)

Elsner, M., McKelvie, J.*, Lacrampe Couloume, G.*, Sherwood Lollar, S.*: Insight into Methyl tert-Butyl Ether (MTBE) Stable Isotope Fractionation from Abiotic Reference Experiments. Environ. Sci. Technol. 41, 5693-5700 (2007)

Elsner, M., Cwiertny, D.M.*, Roberts, L.*, Sherwood Lollar, B.*: 1,1,2,2-Tetrachloroethane Reactions with OH-, Cr(II), Granular Iron, and a Copper-Iron Bimetal: Insights from Product Formation and Associated Carbon Isotope Fractionation. Environ. Sci. Technol. 41, 4111-4117 (2007)

Brüggemann, R.*, Restrepo, G.*, Voigt, K.: Structure - Fate - Relationships of Organic Chemicals. Proceedings of the iEMSs Third Biennial Meeting, "Summit on Environmental Modelling and Software". International Environmental Modelling and Software Society, Voiniv, V. ; Jakeman, A. ; Rizzoli, A. [Eds.], CD-ROM (2006)

Matucha, M.*, Gryndler, M.*, Schröder, P., Forczek, S.T.*, Uhlířova, H.*, Fuksova, K.*, Rohlrnova, J.*: Chloroacetic acids - Degradation intermediates of organic matter in forest soil. Soil Biol. Biochem. 39 (1), 382-385 (2007)

Dilly, O.*, Munch, J.C., Pfeiffer, E.-M.*: Enzyme activities and litter decomposition in agricultural soils in northern, central, and southern Germany. J. Plant Nutr. Soil Sci. 170, 197-204 (2007)

Hassinen, V.H.*, Tervahauta, A.I.*, Halimaa, P.*, Plessl, M., Peräniemi, S.*, Schat, H.*, Aarts, M.G.M.*, Servomaa, K.*: Isolation of Zn-responsive genes from two accessions of the hyperaccumulator plant *Thlaspi caerulescens*. Planta 225, 977-989 (2007)

Reth, S., Seyfarth, M.*, Gefke, O., Friedrich, H.*: Lysimeter Soil Retriever (LSR) - a new technique for retrieving soil from lysimeters for analysis. J. Plant Nutr. Soil Sci. 170 (3), 345-346 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Wagner, D.*, Gattinger, A., Embacher, A., Pfeiffer, E.-M.*, Schloter, M., Lipski, A.*: Methanogenic activity and biomass in Holocene permafrost deposits of the Lena Delta, Siberian Arctic and its implication for the global methane budget. *Global Change Biol.* 13, 1089-1099 (2007)

Zinser, C., Seidlitz, H.K., Welzl, G., Sandermann, H., Heller, W., Ernst, D., Rau, W.*: Transcriptional profiling of summer wheat, grown under different realistic UV-B irradiation regimes. *J. Plant Physiol.* 164, 913-922 (2007)

Klotz, D.: Grundparameter der Lysimetersedimente - Standorte Hiltlpoltstein, Höglwald und Weichselstein. GSF-Bericht 01/07, Neuherberg : GSF-Forschungszentrum mbH, 102 S. (2007)

Mancini, S.A.*, Hirschorn, S.K.*, Elsner, M., Lacrampe-Couloume, G.*, Sleep, B.E.*, Edwards, E.A.*, Sherwood Lollar, B.*: Effects of trace element concentration on enzyme controlled stable isotopes fractionation during aerobic biodegradation of toluene. *Environ. Sci. Technol.* 40, 7675-7681 (2006)

Klotz, D.: Einfluss des Trockenjahres 2003 auf die Grundwasserneubildung unter Böden. *Wasserwirtschaft* 12, 25-29 (2007)

Klotz, D.: Hydrologische Tracer für das unterirdische Wasser. *Vom Wasser* 105, 20-26 (2007)

Levy, W., Henkelmann, B., Pfister, G., Kirchner, M., Jakobi, G., Niklaus, A., Kotalik, J., Bernhöft, S., Fischer, N., Schramm, K.-W.: Monitoring of PCDD/Fs in a mountain forest by means of active and passive sampling. *Environ. Res.* 105 (3), 300-306 (2007)

Gattinger, A., Höfle, M.G.*, Schloter, M., Embacher, A., Böhme, F.*, Munch, J.C., Labrenz, M.*: Traditional cattle manure application determines abundance, diversity and activity of methanogenic Archaea in arable European soil. *Environ. Microbiol.* 9, 612-624 (2007)

Schwarz, J.I.*, Lüders, T., Eckert, W.*, Conrad, R.*: Identification of acetate-utilizing Bacteria and Archaea in methanogenic profundal sediments of Lake Kinneret (Israel) by stable isotope probing of rRNA. *Environ. Microbiol.* 9, 223-237 (2007)

Nabti, E.*, Sahnoune, M.*, Adjrad, S.*, Van Dommelen, A., Ghoul, M.*, Schmid, M., Hartmann, A.: A halophilic and osmotolerant *Azospirillum brasilense* strain from Algerian soil restores wheat growth under saline conditions. *Eng. Life Sci.* 7 (4), 354-360 (2007)

Winderl, C., Schaefer, S., Lueders, T.: Detection of anaerobic toluene and hydrocarbon degraders in contaminated aquifers using benzylsuccinate synthase (bssA) genes as a functional marker. *Environ. Microbiol.* 9, 1035-1046 (2007)

Fried, K.W.*, Bazzi, R.*, Levy Lopez, W., Corsten, C., Schramm, K.-W., Bell, D.R.*, Rozman, K.K.: Relationship between aryl hydrocarbon receptor-affinity and the induction of EROD activity by 2,3,7,8-tetrachlorinated phenothiazine and derivatives. *Toxicol. Appl. Pharm.* 224 (2), 147-155 (2007)

Chiappe, C.*, Imperato, G.*, Lenoir, D., Napolitano, E.*: A novel synthesis of tetramesityldisilene. *Tetrahedron Lett.* 47, 8893-8895 (2006)

Weissflog, L.*, Schröder, P. et al. (10 Coauthors): Oxidative biodegradation of tetrachloroethene in needles of Norway spruce (*Picea abies* L.). *South African J. Bot.* 73, 89-96 (2007)

Rupp, A.*, Dornseifer, U.*, Rodenacker, K., Fichter, A.*, Jütting, U., Gais, P., Papadopulos, N.*, Matiasek, K.*: Temporal progression and extent of the return of sensation in the foot provided by the saphenous nerve after sciatic nerve transection and repair in the rat - implications for nociceptive assessments. *Somatosens. Mot. Res.* 24 (1-2), 1-13 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Voigt, K., Brüggemann, R.*: Data-availability of pharmaceuticals detected in water : An evaluation study by order theory (METEOR). Environmental Informatics and Systems Research. Vol. 2: Workshop and application papers. The 21. International Conference on "Informatics for Environment Protection", Hryniewicz, O. et al. [Eds.], Aachen : Shaker, 201-208 (2007)

Brüggemann, R.* , Voigt, K., Sorensen, P.B.* , De Baets, B.*: Partial order concepts in ranking environmental chemicals. Environmental Informatics and Systems Research. Vol. 2: Workshop and application papers. The 21. International Conference on "Informatics for Environment Protection", Hryniewicz, O. et al. [Eds.], Aachen : Shaker, 169-176 (2007)

Griebler, C., Steube, C., Lüders, T., Stein, H.* , Fuchs, A.* , Hahn, H.J.* , Richter, S.*: Development of a first concept for the ecological assessment of groundwater ecosystems. 35. IAH Congress on 'Groundwater and Ecosystems', 1-7 (2007)

Fuka, M.M., Engel, M., Munch, J.-C., Schlöter, M.: Characterization of proteolytic microbes and their activities in soils. Biology of the Nitrogen Cycle, Bothe, H. et al. (Eds.), : Elsevier, 303-309 (2007)

Schmid, M., Hartmann, A.: Molecular phylogeny and ecology of root associated diazotrophic alpha- and beta-proteobacteria. Associative and Endophytic Nitrogen-fixing Bacteria and Cyanobacterial Associations, Elmerich, C. ; Newton, W.E. [Eds.], Berlin : Springer, 21-40 (2007)

Anneser, B., Richters, L.* , Griebler, C.: Small scale distribution of biodegradation processes in a contaminated aquifer revealed by high-resolution sampling of sediments and groundwater. 35. IAH Congress on 'Groundwater and Ecosystems', 1-10 (2007)

Meisinger, D.B.* , Zimmermann, J.* , Ludwig, W.* , Schleifer, K.H.* , Wanner, G.* , Schmid, M., Bennett, P.C.* , Engel, A.S.* , Lee, N.M.*: In situ detection of novel Acidobacteria in microbial mats from a chemolithoautotrophically based cave ecosystem (Lower Kane Cave, WY, USA). Environ. Microbiol. 9 (6), 1523-1534 (2007)

Kovalenko, A.N.* , Ilyukhina, E.A.* , Perminova, I.V.* , Ponomarenko, S.A.* , Hertkorn, N., Petrosyan, V.S.*: Synthesis of cross-linked humic substances using phenol-formaldehyde polycondensation. Schriftenreihe des Lehrstuhls für Wasserchemie und der DVGW-Forschungsstelle am Engler-Bunte-Institut ; Band 45-1, Humic Substances - Linking Structure to Functions. Proceedings of the 13. Meeting of the International Humic Substances Society, Frimmel, F.H. ; Abbt-Braun, G. [Eds.], 273-276 (2006)

Scherb, H., Voigt, K.: Trends in the human sex odds at birth in Europe and the Chernobyl Nuclear Power Plant accident. Reprod. Toxicol. 23, 593-599 (2007)

Restrepo, G.* , Brüggemann, R.* , Voigt, K.: Partially Ordered Sets in the Analysis of Alkanes Fate in Rivers. Croatica Chemica Acta 80, 261-270 (2007)

Englmann, M., Fekete, A., Gebefügi, I., Schmitt-Kopplin, P.: The dosage of small volumes for chromatographic quantifications using a drop-on-demand dispenser system. Anal. Bioanal. Chem. 388, 1109-1116 (2007)

Perdue, E.M., Hertkorn, N., Kettrup, A.: Substitution patterns in aromatic rings by increment analysis : Model development and application to natural organic matter. Anal. Chem. 79, 1010-1021 (2007)

Penning, H., Elsner, M.: Intramolecular carbon and nitrogen isotope analysis by quantitative dry fragmentation of the phenylurea herbicide isoproturon in a combined injector/capillary reactor prior to GC separation. Anal. Chem. 79 (21), 8399-8405 (2007)

Harir, M., Frommberger, M., Gaspar, A., Martens, D.* , Kettrup, A., El Azzouzi, M.* , Schmitt-Kopplin, P.: Characterization of imazamox degradation by-products by using liquid chromatography mass spectrometry and high-resolution Fourier transform ion cyclotron resonance mass spectrometry. Anal. Bioanal. Chem. 389 (5), 1459-1467 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Li, X., Fekete, A., Englmann, M., Frommberger, M., Lv, S.*, Chen, G.*, Schmitt-Kopplin, P.: At-line coupling of UPLC to chip-electrospray-FTICR-MS. *Anal. Bioanal. Chem.* 389 (5), 1439-1446 (2007)

Klotz, D.: Bestimmung der Diffusionskoeffizienten in wasserungesättigten Lockersedimenten. *Hydrologie Wasserbewirtschaftung* 4, 184-188 (2006)

Klotz, D.: Einfluss des prognostizierten globalen Wandels auf die Sickerwasserparameter von Böden. *Hydrologie u. Wasserbewirtschaftung* 51, 170-179 (2007)

Stumpp, C., Maloszewski, P., Stichler, W., Maciejewski, S.*: Quantification of the heterogeneity of the unsaturated zone based on environmental deuterium observed in lysimeter experiments. *Hydrolog. Sci. J.* 52, 748-762 (2007)

Demlie, M.*, Wohnlich, S.*, Gizaw, B.*, Stichler, W.: Groundwater recharge in the Akaki catchment, central Ethiopia: evidence from environmental isotopes ($\delta^{18}\text{O}$, $\delta^2\text{H}$ and $\delta^3\text{H}$) and chloride mass balance. *Hydrolog. Process* 21 (6), 807-818 (2007)

Schmidt, S.I., Hahn, H.J.*, Hatton, T.J.*, Humphreys, W.F.*: Do faunal assemblages reflect the exchange intensity in groundwater zones? *Hydrobiologia* 583, 1-19 (2007)

Götz, C. et al. (11 Coauthors): Uptake, degradation and chiral discrimination of N -acyl-D /L -homoserine lactones by barley (*Hordeum vulgare*) and yam bean (*Pachyrhizus erosus*) plants. *Anal. Bioanal. Chem.* 389 (5), 1447-1457 (2007)

Büttner, G.*, Stichler, W., Scholz, M.*: Hydrogeochemische Untersuchungen in den Forschungsbohrungen Lindau 1 und Spitzeichen 1 (Fränkisches Bruchschollenland). *Geologica Bavarica* 109, 105-124 (2006)

Embacher, A., Zsolnay, A., Gattinger, A., Munch, J.C.: The dynamics of water extractable organic matter (WEOM) in common arable topsoils: I. Quantity, quality and function over a three year period. *Geoderma* 139, 11-22 (2007)

Mangalo, M., Meckenstock, R.U., Stichler, W., Einsiedl, F.: Stable isotope fractionation during bacterial sulfate reduction is controlled by reoxidation of intermediates. *Geochim. Cosmochim. Acta* 71, 4161-4171 (2007)

Einsiedl, F., Hertkorn, N., Wolf, M., Frommberger, M., Schmitt-Kopplin, P., Koch, B.P.*: Rapid biotic molecular transformation of fulvic acids in a karst aquifer. *Geochim. Cosmochim. Acta* 71 (22), 5474-5482 (2007)

Hertkorn, N., Ruecker, C.*, Meringer, M.*, Gugisch, R.*, Frommberger, M., Perdue, E.M., Witt, M., Schmitt-Kopplin, P.: High-precision frequency measurements : Indispensable tools at the core of the molecular-level analysis of complex systems. *Anal. Bioanal. Chem.* 389 (5), 1311-1327 (2007)

Heinisch, E.*, Kettrup, A., Bergheim, W., Wenzel, S.*: Persistent chlorinated hydrocarbons (PCHCS), source-oriented monitoring in aquatic media. 6. Strikingly high contaminated sites. *Fresen. Environ. Bull.* 16 (10), 1248-1273 (2007)

Binh, C.T.*, Heuer, H.*, Gomes, N.C.*, Kotzerke, A.*, Fulle, M.*, Wilke, B.M.*, Schloter, M., Smalla, K.*: Short-term effects of amoxicillin on bacterial communities in manured soil. *FEMS Microbiol. Ecol.* 62 (3), 290-302 (2007)

Esperschütz, J., Gattinger, A., Mäder, P.*, Schloter, M., Fließbach, A.*: Response of soil microbial biomass and community structures to conventional and organic farming systems under identical crop rotations. *FEMS Microbiol. Ecol.* 61, 26-37 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Maischak, H., Grigoriev, P.A.*, Vogel, H.*, Boland, W.*, Mithöfer, A.*: Oral secretions from herbivorous lepidopteran larvae exhibit ion channel-forming activities. *FEBS Lett.* 581 (5), 898-904 (2007)

Schmitt-Kopplin, P., Hertkorn, N.: Ultrahigh resolution mass spectrometry. *Anal. Bioanal. Chem.* 389 (5), 1309-1310 (2007)

Yevdokimov, I.*, Ruser, R., Buegger, F., Marx, M., Munch, J.C.: Interaction between rhizosphere microorganisms and plant roots : ¹³C fluxes in the rhizosphere after pulse labeling. *Eurasian Soil Sci.* 40, 766-774 (2007)

Levy, W., Radl, V., Ruth, B., Schmid, M., Munch, J.C., Schroll, R.: Harsh summer conditions caused structural and specific functional changes of microbial communities in an arable soil. *Eur. J. Soil Sci.* 58, 736-745 (2007)

Liebich, J.*, Schloter, M., Schäffer, A.*, Vereecken, H.*, Burauel, P.*: Degradation and humification of maize straw in soil microcosms inoculated with simple and complex microbial communities. *Eur. J. Soil Sci.* 58, 141-151 (2007)

Marx, M.*, Buegger, F., Gattinger, A., Zsolnay, A., Munch, J.C.: Determination of the fate of ¹³C labelled maize and wheat exudates in an agricultural soil during a short-term incubation. *Eur. J. Soil Sci.* 58, 1175-1185 (2007)

Lassmann, S.*, Shen, Y.*, Jütting, U., Wiehle, P.*, Walch, A., Gitsch, G.*, Hasenburg, A.*, Werner, M.*: Predictive value of aurora-A/STK15 expression for late stage epithelial ovarian cancer patients treated by adjuvant chemotherapy. *Clin. Cancer Res.* 13, 4083-4091 (2007)

Hartung, R., Lenoir, D., Henkelmann, B., Schulte-Hostede, S., Schramm, K.-W.: Reductive degradation of polychlorinated phenols by Pd/C-Formate : An ecoefficient remediation method for aqueous chlorinated phenols. *Clean* 35, 235-238 (2007)

Akagi, J., Zsolnay, A., Bastida, F.*: Quantity and spectroscopic properties of soil dissolved organic matter (DOM) as a function of soil sample treatments : Air-drying and pre-incubation. *Chemosphere* 69 (7), 1040-1046 (2007)

El-Kady, A.A.*, Abdel-Wahhab, M.A.*, Henkelmann, B., Belal, M. H.*, Morsi, K.S.*, Galal, S.M.*, Schramm, K.-W.: Polychlorinated biphenyl, polychlorinated dibenzo-p-dioxin and polychlorinated dibenzofuran residues in sediments and fish of the River Nile in the Cairo region. *Chemosphere* 68, 1660-1668 (2007)

Zhu, X.*, Pfister, G., Henkelmann, B., Kotalik, J., Fiedler, S., Schramm, K.-W.: Simultaneous monitoring of PCDD/Fs and PCBs in contaminated air with semipermeable membrane devices and fresh spruce needles. *Chemosphere* 68, 1623-1629 (2007)

Grundmann, S., Fuß, R., Schmid, M., Laschinger, M., Ruth, B., Schulin, R.*, Munch, J.-C., Schroll, R.: Application of microbial hot spots enhances pesticide degradation in soils. *Chemosphere* 68 (3), 511-517 (2007)

Wang, F., Grundmann, S., Schmid, M., Dörfler, U., Roherer, S., Munch, J.-C., Hartmann, A., Jiang, X.*, Schroll, R.: Isolation and characterization of 1,2,4-trichlorobenzene mineralizing *Bordetella* sp. and its bioremediation potential in soil. *Chemosphere* 67, 896-902 (2007)

Zhang, F.*, Yediler, A., Liang, X.*: Decomposition pathways and reaction intermediate formation of the purified, hydrolyzed azo reactive dye C.I. Reactive Red 120 during ozonation. *Chemosphere* 67, 712-717 (2007)

Shen, H. et al. (11 Coauthors): From mother to child: Investigation of prenatal and postnatal exposure to persistent bioaccumulating toxicants using breast milk and placenta biomonitoring. *Chemosphere* 67, 256-262 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Böttcher, T., Schroll, R.: The fate of isotoproturon in a freshwater microcosm with *Lemna minor* as a model organism. *Chemosphere* 66, 684-689 (2007)

Cok, I.*, Keski Dönmez, M.*, Satioglu, M.H.*, Aydinuraz, B.*, Henkelmann, B., Kotalik, J., Schramm, K.-W.: Concentration of polychlorinated dibenzo-p-dioxins, polychlorinated dibenzofurans and dioxin-like PCBs in human adipose tissue from Turkish men. *Chemosphere* 66, 1955-1961 (2007)

Fried, K.W. et al. (11 Coauthors): From Dioxin to Drug Lead - The Development of 2,3,7,8-Tetrachlorophenothiazine. *ChemMedChem*. 2 (6), 890-897 (2007)

Einsiedl, F., Schäfer, T.*, Northrup, P.*: Combined sulfur K-edge XANES spectroscopy and stable isotope analyses of fulvic acids and groundwater sulfate identify sulfur cycling in a karstic catchment area. *Chem. Geol.* 238, 268-276 (2007)

Klotz, D.: Quellstärkeergebnisse optimierter Laborverfahren im Vergleich mit Lysimeteruntersuchungen. *alllasten spektrum* 5, 214-221 (2007)

Philippot, L.*, Hallin, S.*, Schloter, M.: Ecology of denitrifying prokaryotes in agricultural soil. *Adv. Agron.* 96, 135-191 (2007)

Krämer, P.M., Weber, C.M., Kremmer, E., Räuber, C., Martens, D.*, Forster, S., Stanker, L.H.*, Rauch, P.*, Shiundu, P.M.*, Mulaa, F.J.*: Optical immunosensor and ELISA for the analysis of pyrethroids and DDT in environmental samples. *ACS Symposium Series* ; 966, Rational Environmental Management of Agrochemicals: Risk Assessment, Monitoring and Remedial Action, Kennedy I.R. et al. [Eds.], Washington, DC : American Chemical Society, 186- 202 (2007)

Held, T.*, Mahro, B.*, Meckenstock, R., Michels, J.*, Pfeifer, F.*, Richnow, H.-H.*, Schenk, T.*, Tebbe, C.*, Tiehm, A.*, Wiesner, J.*: Mikrobiologische NA-Untersuchungsmethoden : Fachliche Grundlagen für die Anwendung von Methoden zur Erfassung des natürlichen mikrobiellen Schadstoffabbaus im Aquifer. Stand März 2007. , Frankfurt a.M. : DECHEMA e.V., 73 S. (2007)

Hoffmann, H.*, Schloter, M., Wilke, B.-M.*: Microscale-scale measurement of potential nitrification rates of soil aggregates. *Biol. Fert. Soils* 44 (2), 411-413 (2007)

Kalbitz, K.*, Meyer, A., Yang, R.*, Gerstberger, P.*: Response of dissolved organic matter in the forest floor to long-term manipulation of litter and throughfall inputs. *Biogeochemistry* 86 (3), 301-318 (2007)

Lalah, J.O.*, Severin, G.F., Schramm, K.-W., Lenoir, D., Behecti, A., Guenther, K.*, Kettrup, A.: Effects of a branched p-nonylphenol isomer (4(3',6'-dimethyl-3'-heptyl)-phenol) on embryogenesis in *Lymnaea stagnalis* L.. *Arch. Environ. Contam. Toxicol.* 52, 104-112 (2007)

Bernhardt-Römermann, B.*, Kudernatsch, N.*, Pfadenhauer, J.*, Kirchner, M., Jakobi, G., Fischer, A.*: Long-term effects of nitrogen deposition on vegetation in a deciduous forest near Munich, Germany. *Appl. Veg. Sci.* 10, 399-406 (2007)

Perdue, E.M., Hertkorn, N., Kettrup, A.: The application of ¹¹³Cd NMR spectrometry to the study of cadmium complexation by natural organic matter. *Appl. Geochem.* 22, 1612-1623 (2007)

Hoque, E., Pflugmacher, S.*, Fritscher, J., Wolf, M.: Induction of Glutathione S-Transferase in Biofilms and Germinating Spores of *Mucor hiemalis* Strain EH5 from Cold Sulfidic Spring Waters. *Appl. Environ. Microbiol.* 73, 2697-2707 (2007)

HMGU Publication List 2007

31.12.2007

Biogeosystems: Dynamics, Adaptation and Adjustment

(* external author)

Fekete, A., Frommberger, M., Rothballer, M., Li, X., Englmann, M., Fekete, J.*, Hartmann, A., Eberl, L.*, Schmitt-Kopplin, P.: Identification of bacterial N -acylhomoserine lactones (AHLs) with a combination of ultra-performance liquid chromatography (UPLC), ultra-high-resolution mass spectrometry, and in-situ biosensors. *Anal. Bioanal. Chem.* 387, 455-465 (2007)

Krämer, P.M., Martens, D.*, Forster, S., Ipolyi, I.*, Brunori, C.*, Morabito, R.*: How can immunochemical methods contribute to the implementation of the water framework directive? *Anal. Bioanal. Chem.* 387, 1435-1448 (2007)

Dazzo, F.B., Schmid, M., Hartmann, A.: Immunofluorescence microscopy and fluorescence in situ hybridization combined with CMEIAS and other image analysis tools for soil- and plant-associated microbial autecology. *Manual of Environmental Microbiology*, Hurst, C.J. et al. [Eds.], Washington DC : ASM Press, 713-733 (2007)

Fekete, A., Schmitt-Kopplin, P.: Capillary electrophoresis. *Food Toxicants Analysis : Techniques, Strategies and Developments*, Pico, Y. [Ed.], Amsterdam : Elsevier, 561-595 (2007)

Aneja, M.K., Sharma, S., Fleischmann, F.*, Stich, S., Heller, W., Bahnweg, G., Munch, J.C., Schloter, M.: Influence of ozone on litter quality and its subsequent effects on the initial structure of colonizing microbial communities. *Microb. Ecol.* 54, 151-160 (2007)

Artz, R.R.*, Anderson, I.C.*, Chapman, S.J.*, Hagn, A., Schloter, M., Potts, J.M.*, Campbell, C.D.*: Changes in fungal community composition in response to vegetational succession during the natural regeneration of cutover peatlands. *Microb. Ecol.* 54 (3), 508-522 (2007)

Chowdhury, S.P.*, Schmid, M., Hartmann, A., Tripathi, A.K.*: Identification of diazotrophs in the culturable bacterial community associated with roots of *Lasiurus sindicus*, a perennial grass of Thar Desert, India. *Microb. Ecol.* 54 (1), 82-90 (2007)

Pages, D.*, Sanchez, L.*, Conrod, S.*, Gidrol, X.*, Fekete, A., Schmitt-Kopplin, P., Heulin, T.*, Achouak, W.*: Exploration of intracolonial adaptation mechanisms of *Pseudomonas brassicacearum* facing cadmium toxicity. *Environ. Microbiol.* 9 (11), 2820-2835 (2007)