

Publication List 2008

31.12.2008

(* external author)

Institute of Biochemical Plant Pathology

- Battke, F., Ernst, D., Fleischmann, F.*, Halbach, S.: Phyto-reduction and volatilization of mercury by ascorbate in *Arabidopsis thaliana*, European beech and Norway spruce. *Appl. Geochem.* 23 (3), 494-502 (2008)
- Battke, F., Leopold, K.*, Maier, M.*, Schmidhalter, U.*, Schuster, M.*: Palladium exposure of barley: uptake and effects. *Plant Biol. (Stuttg.)* 10 (2), 272-276 (2008)
- Gayler, S., Grams, T.E.E.*, Heller, W., Treutter, D.*, Priesack, E.: A dynamical model of environmental effects on allocation to carbon-based secondary compounds in juvenile trees. *Ann. Bot.* 101 (8), 1089-1098 (2008)
- Grundmann, S., Dörfler, U., Ruth, B., Loos, C., Wagner, T., Karl, H., Munch, J.-C., Schroll, R.: Mineralization and transfer processes of ¹⁴C-labeled pesticides in outdoor lysimeters. *Water Air Soil Pollut.: Focus* 8, 177-185 (2008)
- Lindermayr, C., Palmeri, C.M., Durner, J.: In silico search for nitric oxide sensitive promoter elements in *Arabidopsis thaliana*. *Plant Signal. Behav.* 3 (10), 827-828 (2008)
- Lindermayr, C., Sell, S., Durner, J.: Generation and Detection of S-Nitrosothiols. *Methods in Molecular Biology Volume 476, Redox-Mediated Signal Transduction*, Hancock, J.T. [Ed.], Totowa, NJ : Humana Press, 217-229 (2008)
- Livaja, M.*, Zeidler, D.*, von Rad, U., Durner, J.: Transcriptional responses of *Arabidopsis thaliana* to the bacteria-derived PAMPs harpin and lipopolysaccharide. *Immunobiology* 213 (3-4), 161-171 (2008)
- Livaja, M., Palmieri, M., von Rad, U., Durner, J.: The effect of the bacterial effector protein harpin on transcriptional profile and mitochondrial proteins of *Arabidopsis thaliana*. *J. Proteomics* 71 (2), 148-159 (2008)
- Martinez-Ballesta, M. del C.*, Bastías, E.*, Zhu, C., Schäffner, A.R., González-Moro, B.*, González-Murua, C.*, Carvajal, M.*: Boric acid and salinity effects on maize roots. Response of aquaporins ZmPIP1 and ZmPIP2, and plasma membrane H⁺-ATPase, in relation to water and nutrient uptake. *Physiol. Plant.* 132 (4), 479-490 (2008)
- Matyssek, R.*, Sandermann, H.*, Wieser, G.*, Booker, F.*, Cieslik, S.*, Musselman, R.*, Ernst, D.: The challenge of making ozone risk assessment for forest trees more mechanistic. *Environ. Pollut.* 156 (3), 567-582 (2008)
- Miracle, A.L.*, Evans, C.W.*, Ferguson, E.A.*, Greenberg, B.*, Kille, P.*, Schaeffner, A.R., Sprenger, M.*, van Aerle, R.*, Versteeg, D.J.*: Application of genomic technologies to ecological risk assessment at remediation and restoration sites. *Genomics in Regulatory Ecotoxicology: Applications and Challenges*, Ankley, G.T. et al. [Eds.], Boca Raton : Taylor & Francis, 123-150 (2008)
- Olbrich, M., Gerstner, E., Welzl, G.*, Fleischmann, F.*, Oßwald, W.*, Bahnweg, G., Ernst, D.: Quantification of mRNAs and housekeeping gene selection for quantitative real-time RT-PCR normalization in European beech (*Fagus sylvatica* L.) during abiotic and biotic stress. *Z. Naturforsch., C, J. Biosci.* 63 (7-8), 574-582 (2008)
- Overmyer, K.*, Kollist, H.*, Tuominen, H.*, Betz, C., Langebartels, C., Wingsle, G.*, Kangasjärvi, S.*, Brader, G.*, Mullineaux, P.*, Kangasjärvi, J.*: Complex phenotypic profiles leading to ozone sensitivity in *Arabidopsis thaliana* mutants. *Plant Cell Environ.* 31 (9), 1237-1249 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Biochemical Plant Pathology

Palmieri, M.C., Sell, S., Huang, X., Scherf, M.*, Werner, T.*, Durner, J., Lindermayr, C.: Nitric oxide-responsive genes and promoters in *Arabidopsis thaliana* : A bioinformatics approach. *J. Exp. Bot.* 59 (2), 177-186 (2008)

Pritsch, K. et al. (15 Coauthors): Plant and soil system responses to ozone after 3 years in a lysimeter study with Juvenile Beech (*Fagus sylvatica* L.). *Water Air Soil Pollut.: Focus* 8, 139-154 (2008)

Sander mann, H.: Ecotoxicology of narcosis: Stereoselectivity and potential target sites. *Chemosphere* 72 (9), 1256-1259 (2008)

Sander mann, H.: Ecotoxicology of ozone : Bioactivation of extracellular ascorbate. *Biochem. Biophys. Res. Commun.* 366 (2), 271-274 (2008)

Sell, S., Linder mayr, C., Durner, J.: Identification of S-nitrosylated proteins in plants. *Meth. Enzymol.* 440, 283-293 (2008)

Sommer, A.*, Geist, B., Da Ines, O., Gehwolf, R.*, Schäffner, A. R., Obermeyer, G.*: Ectopic expression of *Arabidopsis thaliana* plasma membrane intrinsic protein 2 aquaporins in lily pollen increases the plasma membrane water permeability of grain but not of tube protoplasts. *New Phytol.* 180 (4), 787-797 (2008)

von Rad, U., Klein, I., Dobrev, P. I.*, Kottova, J.*, Zazimalova, E.*, Fekete, A., Hartmann, A., Schmitt-Kopplin, P., Durner, J.: Response of *Arabidopsis thaliana* to N-hexanoyl-DL-homoserine-lactone, a bacterial quorum sensing molecule produced in the rhizosphere. *Planta* 229 (1), 73-85 (2008)

Wagner, T., Arango Isaza, L.M., Grundmann, S., Dörfler, U., Schroll, R., Schlöter, M., Hartmann, A., Sander mann, H., Ernst, D.: The probability of a horizontal gene transfer from Roundup Ready soybean to root symbiotic bacteria: A risk assessment study on the GSF lysimeter station. *Water Air Soil Pollut.: Focus* 8, 155-162 (2008)

Wendehenne, D.*, Gould, K.*, Lamotte, O.*, Durner, J., Vandelle, E.*, Lecourieux, D.*, Courtois, C.*, Barnavon, L.*, Bentejac, M.*, Pugin, A.*: NO signaling functions in the biotic and abiotic stress responses. *BMC Plant Biol.* 5:S35, 1-2 (2005)

Publication List 2008

31.12.2008

(* external author)

Institute of Bioinformatics and systems Biology

- Altmaier, E., Ramsay, S.L.*, Graber, A.*, Mewes, H.W., Weinberger, K.M.*, Suhre, K.: Bioinformatics analysis of targeted metabolomics - uncovering old and new tales of diabetic mice under medication. *Endocrinology* 149 (7), 3478-3489 (2008)
- Antonov, A.V., Dietmann, S., Mewes, H.W.: Consecutive KEGG pathway models for the interpretation of high-throughput genomics data. German Conference on Bioinformatics, GCB 2008; Lecture Notes in Informatics (LNI) Proceedings, Beyer, A.; Schroeder, M. [Eds.], Bonn : Köllen Druck + Verlag GmbH, 1-9 (2008)
- Antonov, A.V., Mewes, H.W.: Complex phylogenetic profiling reveals fundamental genotype-phenotype associations. *Comput. Biol. Chem.* 32 (6), 412-416 (2008)
- Antonov, A.V., Schmidt, T.*, Wang, Y., Mewes, H.W.: ProfCom : A web tool for profiling the complex functionality of gene groups identified from high-throughput data. *Nucleic Acids Res.* 36 (Web Server Issue), W347-W351 (2008)
- Antonov, V.A., Dietmann, S., Mewes, H.W.: KEGG spider: interpretation of genomics data in the context of the global gene metabolic network.. *Genome Biol.* 9 (12), R 179 (2008)
- Brockmann, D.*, Theis, F.: Money Circulation, Trackable Items, and the Emergence of Universal Human Mobility Patterns. *IEEE Pervasive Comput.* 7 (4), 28-35 (2008)
- Elstner, M., Andreoli, C.*, Ahting, U., Tetko, I., Klopstock, T.*, Meitinger, T., Prokisch, H.: MitoP2: An Integrative Tool for the Analysis of the Mitochondrial Proteome. *Mol. Biotechnol.* 40 (3), 306-315 (2008)
- Feldbrügge, M.*, Zarnack, K.*, Vollmeister, E.*, Baumann, S.*, Koepke, J.*, König, J.*, Münsterkötter, M., Mannhaupt, G.: The posttranscriptional machinery of *Ustilago maydis*. *Fungal Genet. Biol.* 45 (Suppl.1), 40-46 (2008)
- Fitzgerald, L.A.*, Boucher, P.T.*, Yanai-Balser, G.M.*, Suhre, K., Graves, M.V.*, Van Etten, J.L.*: Putative gene promoter sequences in the chlorella viruses. *Virology* 380 (2), 388-393 (2008)
- Gieger, C. et al. (11 Coauthors): Genetics meets metabolomics: a genome-wide association study of metabolite profiles in human serum. *PLoS Genet.* 4 (11):e1000282, 1-12 (2008)
- Greiner, S.*, Wang, X., Herrman, R.G.*, Rauwolf, U.*, Mayer, K., Haberer, G., Meurer, J.*: The complete nucleotide sequences of the 5 genetically distinct plastid genomes of *Oenothera*, subsection *Oenothera*: II. A microevolutionary view using bioinformatics and formal genetic data. *Mol. Biol. Evol.* 25 (9), 2019-2030 (2008)
- Greiner, S.*, Wang, X., Rauwolf, U.*, Silber, M.V.*, Mayer, K., Meurer, J.*, Haberer, G., Herrmann, R.G.*: The complete nucleotide sequences of the five genetically distinct plastid genomes of *Oenothera*, subsection *Oenothera* : I. Sequence evaluation and plastome evolution. *Nucleic Acids Res.* 36 (7), 2366-2378 (2008)
- Grimm, M.*, Stephan, R.*, Iversen, C.*, Manzardo, G.G.*, Rattei, T.*, Riedel, K.*, Ruepp, A., Frishman, D.*, Lehner, A.*: Cellulose as an extracellular matrix component present in *Enterobacter sakazakii* biofilms. *J. Food Prot.* 71 (1), 13-18 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Bioinformatics and systems Biology

Ishihama, Y.* , Schmidt, T.* , Rappsilber, J.* , Mann, M.* , Hartl, F.U.* , Kerner, M.J.* , Frishman, D.: Protein abundance profiling of the Escherichia coli cytosol. *BMC Genomics* 9:102, 1-17 (2008)

Karthikeyan, M.* , Krishnan, S.* , Pandey, A.K., Bender, A.* , Tropsha, A.* : Distributed chemical computing using ChemStar : An open source java remote method invocation architecture applied to large scale molecular data from PubChem. *J. Chem. Inf. Model.* 48 (4), 691-703 (2008)

Kastenmüller, G., Gasteiger, J.* , Mewes, H.W.: An environmental perspective on large-scale genome clustering based on metabolic capabilities. *Bioinformatics* 24 (16), i56-62 (2008)

Kuhn, K.A.* , Mewes, H.-W. et al. (31 Coauthors): Informatics and medicine--from molecules to populations. *Methods Inf. Med.* 47 (4), 283-295 (2008)

Loy, A.* , Arnold, R., Tischler, P., Rattei, T., Wagner, M.* , Horn, M.* : probeCheck - a central resource for evaluating oligonucleotide probe coverage and specificity. *Environ. Microbiol.* 10(10), 2894-2898 (2008)

Mannhold, R.* , Poda, G.I.* , Ostermann, C.* , Tetko, I.V.: Calculation of Molecular Lipophilicity: State-of-the-Art and Comparison of Log P Methods on More Than 96,000 Compounds. *J. Pharm. Sci.* (2008)

Marr, C., Geertz, M.* , Hütt, M.-T.* , Muskhelishvili, G.* : Dissecting the logical types of network control in gene expression profiles. *BMC Syst. Biol.* 2:18, 1-9 (2008)

Mewes, H.W. et al. (10 Coauthors): MIPS : analysis and annotation of genome information in 2007. *Nucleic Acids Res.* 36 (Database Issue), D196-D201 (2008)

Moes, D.* , Himmelbach, A.* , Korte, A.* , Haberer, G., Grill, E.* : Nuclear localization of the mutant protein phosphatase abi1 is required for insensitivity towards ABA responses in Arabidopsis. *Plant J.* 54 (5), 806-819 (2008)

Münsterkötter, M., Steinberg, G.* : The fungus *Ustilago maydis* and humans share disease-related proteins that are not found in *Saccharomyces cerevisiae*. *BMC Genomics* 8:473, 1-22 (2007)

Pagel, P., Oesterheld, M., Tovstukhina, O.* , Strack, N.* , Stümpflen, V., Frishman, D.: DIMA 2.0 - predicted and known domain interactions. *Nucleic Acids Res.* 36, D651-655 (2008)

Pagel, P., Strack, N.* , Oesterheld, M.* , Stümpflen, V., Frishman, D.: Computational prediction of domain interactions. *Methods in Molecular Biology ; Vol. 396: Comparative Genomics*, Bergman, N.H. [Ed.], Totowa, NJ : Humana Press, 3-16 (2007)

Pfeiffer, F.* , Schuster, S.C.* , Broicher, A.* , Falb, M.* , Palm, P.* , Rodewald, K.* , Ruepp, A., Soppa, J.* , Tittor, J.* , Oesterheld, D.* : Genome sequences of *Halobacterium salinarum* : A reply. *Genomics* 91 (6), 553-554 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Bioinformatics and systems Biology

Pfeiffer, F.* , Schuster, S.C.* , Broicher, A.* , Falb, M.* , Palm, P.* , Rodewald, K., Ruepp, A., Soppa, J.* , Tittor, J.* , Oesterhelt, D.*: Evolution in the laboratory: the genome of Halobacterium salinarum strain R1 compared to that of strain NRC-1. *Genomics* 91 (4), 335-346 (2008)

Port, M.* , Boltze, C.* , Wang, Y., Röper, B.* , Meineke, V.* , Abend, M.*: A radiation-induced gene signature distinguishes post-Chernobyl from sporadic papillary thyroid cancers. *Radiat. Res.* 168 (6), 639-649 (2007)

Rattei, T.* , Tischler, P.* , Arnold, R.* , Hamberger, F.* , Krebs, J.* , Krumsiek, J.* , Wachinger, B.* , Stümpflen, V., Mewes, W.: SIMAP-structuring the network of protein similarities. *Nucleic Acids Res.* 36 (Database Issue), D289-D292 (2008)

Rensing, S.A.* , Gundlach, H. et al. (69 Coauthors): The *Physcomitrella* genome reveals evolutionary insights into the conquest of land by plants. *Science* 319 (5859), 64-69 (2008)

Ruepp, A. et al. (10 Coauthors): CORUM : the comprehensive resource of mammalian protein complexes. *Nucleic Acids Res.* 36 (Database Issue), D646-D650 (2008)

Schachtner, R.* , Lutter, D., Knollmüller, P.* , Tomé, A.M., Theis, F.J., Schmitz, G.* , Stetter, M.* , Vilda, P.G.* , Lang, E.W.*: Knowledge-based gene expression classification via matrix factorization. *Bioinformatics* 24 (15), 1688-1697 (2008)

Schmidt, T.* , Frishman, D.: Assignment of isochores for all completely sequenced vertebrate genomes using a consensus. *Genome Biol.* 9(6):R104 (2008)

Seong, K.-Y.* , Zhao, X.* , Xu, J.-R.* , Güldener, U., Kistler, H.C.*: Conidial germination in the filamentous fungus *Fusarium graminearum*. *Fungal Genet. Biol.* 45 (4), 389-399 (2008)

Suhre, K., Schmitt-Kopplin, P.: MassTRIX : Mass translator into pathways. *Nucleic Acids Res.* 36 (Web Server Issue), W481-W484 (2008)

Surmeli, D.* , Ratmann, O.* , Mewes, H.W., Tetko, I.V.: FunCat Functional Inference with Belief Propagation and Feature Integration. *Comput. Biol. Chem.* 32 (5), 375-377 (2008)

Tanaka, T.* , Haberer, G. et al. (90 Coauthors): The Rice Annotation Project Database (RAP-DB): 2008 update. *Nucleic Acids Res.* 36 (Database Issue), D1028-D1033 (2008)

Tetko, I. V.: Internet in Drug Design and Discovery. *Open Appl. Informat.* J. 2, 18-21 (2008)

Tetko, I.V., Jaroszewicz, I.* , Platts, J.A.* , Kuduk-Jaworska, J.*: Calculation of lipophilicity for Pt(II) complexes : Experimental comparison of several methods. *J. Inorg. Biochem.* 102 (7), 1424-1437 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Bioinformatics and systems Biology

Tetko, I.V., Rodchenkov, I.V., Walter, M.C., Rattei, T.*, Mewes, H.W.: Beyond the 'best' match : Machine learning annotation of protein sequences by integration of different sources of information. *Bioinformatics* 24 (5), 621-628 (2008)

Tetko, I.V., Sushko, I., Pandey, A.K., Zhu, H., Tropsha, A.*, Papa, E.*, Öberg, T.*, Todeschini, R.*, Fourches, D.*, Varnek, A.*: Critical assessment of QSAR models of environmental toxicity against *Tetrahymena pyriformis*: Focusing on applicability domain and overfitting by variable selection. *J. Chem. Inf. Model.* 48 (9), 1733-1746 (2008)

Tetko, I.V.: Associative Neural Network. *Methods in Molecular Biology*, Vol. 458, Artificial Neural Networks: Methods and Applications, Livingstone, D.S. [Ed.], Totowa, NJ : Humana Press, 187-204 (2008)

Varnek, A.*, Fourches, D.*, Horvath, D.*, Klimchuk, O.*, Gaudin, C.*, Vayer, P.*, Solov'ev, V.*, Hoonakker, F.*, Tetko, I.V., Marcou, G.*: ISIDA - Platform for virtual screening based on fragment and pharmacophoric descriptors. *Current Computer-Aided Drug Design* 4 (3), 191-198 (2008)

Waegle, B., Dunger-Kaltenbach, I., Fobo, G., Montrone, C., Mewes, H.W., Ruepp, A.: CRONOS: the cross-reference navigation server. *Bioinformatics* 25 (1), 141-143 (2008)

Waegle, B., Schmidt, T.*, Mewes, H.W., Ruepp, A.: OREST : the online resource for EST analysis. *Nucleic Acids Res.* 36 (Web Server Issue), W140-W144 (2008)

Walter, M.C. et al. (13 Coauthors): Pedant covers all complete RefSeq genomes. *Nucleic Acids Res.* 37 (Sp. Iss. SI), 1-4 (2008)

Wang-Sattler, R. et al. (15 Coauthors): Metabolic profiling reveals distinct variations linked to nicotine consumption in humans--first results from the KORA study. *PLoS ONE* 3(12): e3863 (2008)

Wong, P. et al. (13 Coauthors): An evolutionary and structural characterization of mammalian protein complex organization. *BMC Genomics* 9 (1): 629 (2008)

Wong, P., Frishman, D.: Designability and Disease. *Methods in Molecular Biology*; Vol. 484: Functional Proteomics, Chen, E.H. [Ed.], Totowa, NJ : Humana Press, 491-504 (2008)

Zhu, H.*, Tropsha, A.*, Fourches, D.*, Varnek, A.*, Papa, E.*, Gramatica, P.*, Öberg, T.*, Dao, P., Cherkasov, A.*, Tetko, I.V.: Combinatorial QSAR modeling of chemical toxicants tested against *Tetrahymena pyriformis*. *J. Chem. Inf. Model.* 48 (4), 766-784 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Biomathematics and Biometry

Berschneider, G., Castell, W.: Conditionally Positive Definite Kernels and Pontryagin Spaces. , Brentwood : Nashboro Press, 27-37 (2008)

Bink, K. et al. (11 Coauthors): Primary extramedullary plasmacytoma : Similarities with and differences from multiple myeloma revealed by interphase cytogenetics. *Haematologica* 93 (4), 623-626 (2008)

Bockhorst, K.H.*, Hahn, K. et al. (10 Coauthors): Early postnatal development of rat brain: In vivo diffusion tensor imaging. *J. Neurosci. Res.* 86 (7), 1520-1528 (2008)

Brüggemann, R. *, Restrepo, G. *, Voigt, K.: Towards a New and Advanced Partial Order Program: Pyhasse. Multicriteria Ordering and Ranking: Partial orders, ambiguities and applied issues, Owsinski, J.W.; Brüggemann, R. [Eds.], Warsaw : Polish Academy of Sciences, 11-33 (2008)

Brüggemann, R. *, Voigt, K., Pudenz, S.*: Partial Ordering and Hasse Diagrams: Applications in Chemistry and Software. *Data Handling in Science and Technology; Vol. 27, Scientific Data Ranking Methods, Theory and Applications*, Pavan, M.; Todeschini, R. [Eds.], Amsterdam : Elsevier, 73-95 (2008)

Brüggemann, R. *, Voigt, K., Restrepo, G. *, Simon, U.*: The concept of stability fields and hot spots in ranking of environmental chemicals. *Environ. Modell. Softw.* 23 (8), 1000-1012 (2008)

Brüggemann, R. *, Voigt, K.: Basic principles of Hasse diagram technique in chemistry. *Comb. Chem. High Throughput Screen.* 11 (9), 756-769 (2008)

Ey, K., Pötzsche, C.*: Asymptotic behavior of recursions via fixed point theory. *J. Math. Anal. Appl.* 337 (2), 1125-1141 (2008)

Filbir, F., Schmid, D.: Stability results for approximation by positive definite functions on SO(3). *J. Approx. Theory* 153 (2), 170-183 (2008)

Filbir, F., Themistoclakis, W.*: Polynomial approximation on the sphere using scattered data. *Math. Nachr.* 281 (5), 650-668 (2008)

Friedrich, F.*, Kempe, A., Liebscher, V.*, Winkler, G.: Complexity Penalized M-Estimation : Fast Computation. *J. Comput. Graph. Stat.* 17 (1), 201-224 (2008)

Hense, B.A., Gais, P., Jütting, U., Scherb, H., Rodenacker, K.: Use of fluorescence information for automated phytoplankton investigation by image analysis. *J. Plankton Res.* 30 (5), 587-606 (2008)

Hense, B.A., Jaser, W., Welzl, G., Pfister, G., Wöhler-Moorhoff, G.F., Schramm, K.-W.: Impact of 17alpha-ethinylestradiol on the plankton in freshwater microcosms-II: Responses of phytoplankton and the interrelation within the ecosystem. *Ecotoxicol. Environ. Saf.* 69 (3), 453-465 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Biomathematics and Biometry

- Hense, B.A., Kuttler, C., Müller, J., Rothballer, M., Hartmann, A., Kreft, J.-U.*: Efficiency sensing - was messen Autoinduktoren wirklich? *BIOspektrum (Heidelb.)* 14, 18-21 (2008)
- Hielscher, R., Potts, D.*, Prestin, J.*, Schaeben, H.*, Schmalz, M.*: The Radon transform on $SO(3)$: a Fourier slice theorem and numerical inversion. *Inverse Probl.* 24 (2): 025011, pp (2008)
- Hielscher, R., Schaeben, H.*: Multi-scale texture modeling. *Math. Geosci.* 40 (1), 63-82 (2008)
- Hielscher, R., Schaeben, H.: A novel pole figure inversion method: specification of the MTEX algorithm. *J. Appl. Crystallogr.* 41 (6), 1024-1037 (2008)
- Kuttler, C., Hense, B.A.: Interplay of two quorum sensing regulation systems of *Vibrio fischeri*. *J. Theor. Biol.* 251 (1), 167-180 (2008)
- Lasser, R., Obermaier, J.: A new characterization of ultraspherical polynomials. *Proc. Amer. Math. Soc.* 136 (7), 2493-2498 (2008)
- Markoullis, K. et al. (13 Coauthors): Mycoplasma contamination of murine embryonic stem cells affects cell parameters, germline transmission and chimeric progeny. *Transgenic Res.* DOI:10.1007/s11248-008-9218-z (2008)
- Matiasek, K.*, Gais, P., Rodenacker, K., Jütting, U., Tanck, J.J.*, Schmahl, W.*: Stereological characteristics of the equine accessory nerve. *Anat. Histol. Embryol.* 37 (3), 205-213 (2008)
- Mueller, J.*, Kuttler, C., Hense, B. A., Zeiser, S., Liebscher, V.*: Transcription, intercellular variability and correlated random walk. *Math. Biosci.* 216 (1), 30-39 (2008)
- Müller, J.*, Kuttler, C., Hense, B.A.: Sensitivity of the quorum sensing system is achieved by low pass filtering. *BioSystems* 92 (1), 76-81 (2008)
- Müller, J., Brandt, S., Mayerhofer, K.*, Tjardes, T.*, Maegele, M.*: Tolerance and threshold in the extrinsic coagulation system. *Math. Biosci.* 211 (2), 226-254 (2008)
- Obermaier, J., Szwarc, R.*: Orthogonal polynomials of discrete variable and boundedness of dirichlet kernel. *Constr. Approx.* 27 (1), 1-13 (2008)
- Prigarin, S.M.*, Hahn, K., Winkler, G.: Comparative analysis of two numerical methods to measure Hausdorff dimension of the fractional Brownian motion. *Numer. Anal. Appl.* 1 (2), 163-178 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Biomathematics and Biometry

Pritsch, K. et al. (15 Coauthors): Plant and soil system responses to ozone after 3 years in a lysimeter study with Juvenile Beech (*Fagus sylvatica* L.). *Water Air Soil Pollut.: Focus* 8, 139-154 (2008)

Reiter, R.*, Gais, P. et al. (14 Coauthors): Centrosome abnormalities in head and neck squamous cell carcinoma (HNSCC). *Acta Otolaryngol.* DOI: 10.1080/00016480802165767 (2008)

Scherb, H., Voigt, K.: Analytical ecological epidemiology : Exposure-response relations in spatially stratified time series. *Environmetrics* DOI:10.1002/env.958 (2008)

Schlicht, R., Winkler, G.: A delay stochastic process with applications in molecular biology. *J. Math. Biol.* 57 (5), 613-648 (2008)

Schmid, D.: A trade-off principle in connection with the approximation by positive definite kernels. *Approximation Theory XII: San Antonio 2007*, Neamtu, M.; Schumaker, L.L. [Eds.], Brentwood, TN : Nashboro Press, 348-359 (2008)

Schmid, D.: Marcinkiewicz-Zygmund inequalities and polynomial approximation from scattered data on $SO(3)$. *Numer. Funct. Anal. Optim.* 29 (7-8), 855-882 (2008)

Schramm, K.-W., Jaser, W., Welzl, G., Pfister, G., Wöhler-Moorhoff, G.F., Hense, B.A.: Impact of 17alpha-ethinylestradiol on the plankton in freshwater microcosms-I: Response of zooplankton and abiotic variables. *Ecotoxicol. Environ. Saf.* 69 (3), 437-452 (2008)

Voigt, K., Brüggemann, R.*, Schramm, K.-W., Kirchner, M.: PYHASSE a new software for partially ordered sets: Ranking soil against needles. *Multicriteria Ordering and Ranking : Partial orders, ambiguities and applied issues*, Owsinski, J.W. ; Brüggemann, R. [Eds.], 35-45 (2008)

Voigt, K., Brüggemann, R.*, Schramm, K.-W., Kirchner, M.: PYHASSE a new software tool for partially ordered sets example : Ranking of contaminated regions in the Alps. *Environmental Informatics and Industrial Ecology. Proceedings of the 22. International Conference Environmental Informatics - Informatics of environmental protection, sustainable development and risk management*, Aachen : Shaker, 631-636 (2008)

Voigt, K., Brüggemann, R.*: Ranking of Pharmaceuticals Detected in the Environment: Aggregation and Weighting Procedures. *Comb. Chem. High Throughput Screen.* 11 (10), 770-782 (2008)

Voigt, K., Studzinski, J.*, Pillmann, W.*: *EnviroInfo 2007: Environmental informatics and systems research - Warsaw, Poland, September 12-14, 2007.* *Environ. Sci. Pollut. Res. Int.* 15 (2), 170-171 (2008)

Voigt, K.: Environmental informatics, environmetrics, chemoinformatics, chemometrics : Integration or separation? *International Congress on Environmental Modelling and Software iEMSs 2008. Vol.3: Integrating Sciences and Information Technology for Environmental Assessment and Decision Making*, Sanchez-Marre, M. et al. [Eds.], 1594-1601 (2008)

Voigt, K.: Environmental protection, sustainable development and risk management with emphasis on environmental chemicals. *International Congress on Environmental Modelling and Software iEMSs 2008. Vol.1: Integrating Sciences and Information Technology for Environmental Assessment and Decision Making*, Sanchez-Marre, M. et al. [Eds.], 7-11 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Biomathematics and Biometry

Wittich, O.* , Kempe, A., Winkler, G., Liebscher, V.*: Complexity penalized least squares estimators : Analytical results. *Math. Nachr.* 281 (4), 582-595 (2008)

Zeiser, S., Franz, U.* , Wittich, O.* , Liebscher, V.*: Simulation of genetic networks modelled by piecewise deterministic Markov processes. *IET Syst. Biol.* 2 (3), 113-135 (2008)

Zeiser, S., Rivera, O., Kuttler, C., Hense, B., Lasser, R., Winkler, G.: Oscillations of Hes7 caused by negative autoregulation and ubiquitination. *Comput. Biol. Chem.* 32 (1), 48-52 (2008)

zu Castell, W.: Generalized Bessel functions for p-radial functions. *Constr. Approx.* 27 (2), 217-235 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Clinical Molecular Biology and Tumor Genetics

Adhikary, D., Behrends, U., Feederle, R.* , Delecluse, H.J.* , Mautner, J.: Standardized and highly efficient expansion of Epstein-Barr virus-specific CD4+ T cells by using virus-like particles. *J. Virol.* 82 (8), 3903-3911 (2008)

Banjac, A. et al. (11 Coauthors): The cystine/cysteine cycle: a redox cycle regulating susceptibility versus resistance to cell death. *Oncogene* 27 (11), 1618-1628 (2008)

Bararia, D., Trivedi, A.K.* , Zada, A.A.* , Greif, P.A., Mulaw, M.A., Christopheit, M.* , Hiddemann, W., Bohlander, S.K., Behre, G.* : Proteomic identification of the MYST domain histone acetyltransferase TIP60 (HTATIP) as a co-activator of the myeloid transcription factor C/EBPalpha. *Leukemia* 22 (4), 800-807 (2008)

Chapman, R.D., Heidemann, M., Hintermair, C., Eick, D.: Molecular evolution of the RNA polymerase II CTD. *Trends Genet.* 24 (6), 289-296 (2008)

Delecluse, H.-J.* , Feederle, R.* , Behrends, U., Mautner, J.: Contribution of viral recombinants to the study of the immune response against the Epstein-Barr virus. *Semin. Cancer Biol.* 18 (6), 409-415 (2008)

Engels, K.* , Jungnickel, B., Tobollik, S., Hansmann, M.L.* , Kriener, S.* , Willenbrock, K.* : Expression of activation-induced cytidine deaminase in malignant lymphomas infiltrating the bone marrow. *Appl. Immunohistochem. Mol. Morphol.* 16 (6), 521-529 (2008)

Fedorova, E.* , Sadoni, N.* , Dahlsveen, I.K.* , Koch, J.* , Kremmer, E., Eick, D., Paro, R.* , Zink, D.* : The nuclear organization of Polycomb/Trithorax group response elements in larval tissues of *Drosophila melanogaster*. *Chromosome Res.* 16 (4), 649-673 (2008)

Fiegl, M.* , Lindner, L.H., Juergens, M.* , Eibl, H.* , Hiddemann, W., Braess, J.* : Erufosine, a novel alkylphosphocholine, in acute myeloid leukemia : Single activity and combination with other antileukemic drugs. *Cancer Chemother. Pharmacol.* 62 (2), 321-329 (2008)

Fröhlich Archangelo, L. et al. (11 Coauthors): The CALM and CALM/AF10 interactor CATS is a marker for proliferation. *Mol. Oncol.* 2, 356-367 (2008)

Geisler, F.* , Nagl, F.* , Mazur, P.K.* , Lee, M., Zimmer-Strobl, U., Strobl, L.J., Radtke, F.* , Schmid, R.M., Siveke, J.T.* : Liver-specific inactivation of Notch2, but not Notch1, compromises intrahepatic bile duct development in mice. *Hepatology* 48 (2), 607-616 (2008)

Greif, P.A., Tizazu, B.* , Krause, A., Kremmer, E., Bohlander, S.K.: The leukemogenic CALM/AF10 fusion protein alters the subcellular localization of the lymphoid regulator Ikaros. *Oncogene* 27 (20), 2886-2896 (2008)

Haindl, M.* , Harasim, T., Eick, D., Muller, S.* : The nucleolar SUMO-specific protease SENP3 reverses SUMO modification of nucleophosmin and is required for rRNA processing. *EMBO Rep.* 9 (3), 273-279 (2008)

Hömig-Hölzel, C. et al. (10 Coauthors): Constitutive CD40 signaling in B cells selectively activates the noncanonical NF-kappaB pathway and promotes lymphomagenesis. *J. Exp. Med.* 205 (6), 1317-1329 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Clinical Molecular Biology and Tumor Genetics

- Klibi, J.*, Riedel, A. et al. (12 Coauthors): Blood diffusion and Th1-suppressive effects of galectin-9-containing exosomes released by Epstein-Barr virus-infected nasopharyngeal carcinoma cells. *Blood* DOI:10.1182/blood-2008-02-142596 (2008)
- Klionsky, D.J.*, Mautner, J. et al (235 Coauthors): Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. *Autophagy* 4 (2), 151-175 (2008)
- Le Clorennec, C.*, Rastelli, J. et al. (10 coauthors): Molecular basis of cytotoxicity of Epstein-Barr virus (EBV) latent membrane protein 1 (LMP1) in EBV latency III B cells : LMP1 induces type II ligand-independent autoactivation of CD95/Fas with caspase 8-mediated apoptosis. *J. Virol.* 82(13), 6721-6733 (2008)
- Mages, J.*, Freimüller, K., Lang, R.*, Hatzopoulos, A.K., Guggemoos, S., Koszinowski, U.H.*, Adler, H.: Proteins of the secretory pathway govern virus productivity during lytic gammaherpesvirus infection. *J. Cell. Mol. Med.* 12 (5B), 1974-1989 (2008)
- Maier, K.L. et al. (15 Coauthors): Health effects of ambient particulate matter--biological mechanisms and inflammatory responses to in vitro and in vivo particle exposures. *Inhal. Toxicol.* 20 (3), 319-337 (2008)
- Metzeler, K.H.*, Spiekermann, K. et al. (19 Coauthors): An 86-probe-set gene-expression signature predicts survival in cytogenetically normal acute myeloid leukemia. *Blood* 112 (10), 4193-4201 (2008)
- Mierau, M., Drexler, G.A., Kutzera, A., Braunschmidt, K., Ellwart, J., Eckardt-Schupp, F., Fritz, E.*, Bachl, J.* , Jungnickel, B.: Non-conservative homologous recombination in human B lymphocytes is promoted by activation-induced cytidine deaminase and transcription. *Nucleic Acids Res.* 36 (17), 5591-5601 (2008)
- Müller-Hermelink, N.* , Mailhammer, R. et al. (16 Coauthors): TNFR1 signaling and IFN-gamma signaling determine whether T cells induce tumor dormancy or promote multistage carcinogenesis. *Cancer Cell* 13 (6), 507-518 (2008)
- Nakhai, H.* , Sievke, J. T.* , Klein, B.* , Mendoza-Torres, L* , Mazur, P. K.* , Algül, H.* , Radtke, F.* , Strobl, L., Zimmer-Strobl, U., Schmid, R. M.*: Conditional ablation of Notch signaling in pancreatic development. *Development* 135(16), 2757-2765 (2008)
- Petropoulos, K. et al. (11 Coauthors): A novel role for Lef-1, a central transcription mediator of Wnt signaling, in leukemogenesis. *J. Exp. Med.* 205 (3), 515-522 (2008)
- Rastelli, J., Hömig-Hölzel, C., Seagal, J.* , Müller, W.* , Hermann, A.C., Rajewsky, K.* , Zimmer-Strobl, U.: LMP1 signaling can replace CD40 signaling in B cells in vivo and has unique features of inducing class-switch recombination to IgG1. *Blood* 111 (3), 1448-1455 (2008)
- Rawat, V.P.S. et al. (13 Coauthors): Overexpression of CDX2 perturbs HOX gene expression in murine progenitors depending on its N-terminal domain and is closely correlated with deregulated HOX gene expression in human acute myeloid leukemia. *Blood* 111 (1), 309-319 (2008)
- Riccio, O.* , van Gijn, E.* , Bezdek, A. C.* , Pellegrinet, L.* , van Es, J. H.* , Zimmer-Strobl, U., Strobl, L. J., Honjo, T.* , Clevers, H.* , Radtke, F.*: Loss of intestinal crypt progenitor cells owing to inactivation of both Notch1 and Notch2 is accompanied by derepression of CDK inhibitors p27Kip1 and p57Kip2. *EMBO Rep.* 9 (4), 377-383 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Clinical Molecular Biology and Tumor Genetics

Riedel, A., Nimmerjahn, F.* , Burdach, S.* , Behrends, U., Bornkamm, G.W., Mautner, J.: Endogenous presentation of a nuclear antigen on MHC class II by autophagy in the absence of CRM1-mediated nuclear export. *Eur. J. Immunol.* 38 (8), 2090-2095 (2008)

Schwanbeck, R.* , Schroeder, T., Henning, K.* , Kohlhof, H., Rieber, N., Erfurth, M.L.* , Just, U.*: Notch signaling in embryonic and adult myelopoiesis. *Cells Tissues Organs (Print)* 188 (1-2), 91-102 (2008)

Seiler, A.: Glutathione peroxidase 4 senses and translates oxidative stress into 12/15-lipoxygenase dependent- and AIF-Mediated cell death. *Cell Metab.* 8 (3), 237-248 (2008)

Soerensen, J., Jakupoglu, C., Beck, H.* , Förster, H., Schmidt, J., Schmahl, W.* , Schweizer, U.* , Conrad, M.* , Brielmeier, M.: The role of thioredoxin reductases in brain development. *PLoS ONE* 3 (3):e1813, 1-10 (2008)

Unterberger, C. et al. (12 Coauthors): Role of STAT3 in glucocorticoid-induced expression of the human IL-10 gene. *Mol. Immunol.* 45 (11), 3230-3237 (2008)

Vempati, S., Reindl, C., Wolf, U., Kern, R., Petropoulos, K., Naidu, V.M., Buske, C., Hiddemann, W., Kohl, T.M., Spiekermann, K.: Transformation by oncogenic mutants and ligand-dependent activation of FLT3 wild-type requires the tyrosine residues 589 and 591. *Clin. Cancer Res.* 14 (14), 4437-4445 (2008)

Weinkauff, M., Christopeit, M., Hiddemann, W., Dreyling, M.: Proteome- and microarray-based expression analysis of lymphoma cell lines identifies a p53-centered cluster of differentially expressed proteins in mantle cell and follicular lymphoma. *Electrophoresis* 28 (23), 4416-4426 (2007)

Witter, K.* , Mautner, J., Volgger, A.* , Zahn, R.* , Kauke, T.*: A novel HLA-DRB1 allele, HLA-DRB1*0465, was identified in a Hodgkin's lymphoma cell line. *Tissue Antigens* 71 (3), 250-259 (2008)

Zychlinska, M., Herrmann, H., Zimmer-Strobl, U., Hammerschmidt, W.: Restricted expression of Epstein-Barr virus latent genes in murine B cells derived from embryonic stem cells. *PLoS ONE* 3 (4):e1996, 1-9 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Developmental Genetics

Ahting, U. et al. (14 Coauthors): Neurological phenotype and reduced lifespan in heterozygous Tim23 knockout mice, the first mouse model of defective mitochondrial import.. *Biochim. Biophys. Acta*
DOI:10.1016/j.bbabi.2008.12.001 (2008)

Andersson, E.R.* , Prakash, N., Cajanek, L.* , Minina, E., Bryja, V.* , Bryjova, L.* , Yamaguchi, T.P.* , Hall, A.C.* , Wurst, W., Arenas, E.*: Wnt5a regulates ventral midbrain morphogenesis and the development of A9-A10 dopaminergic cells in vivo. *PLoS ONE* 3 (10): e3517 (2008)

Blin, M.* , Norton, W., Bally-Cuif, L., Vernier, P.: NR4A2 controls the differentiation of selective dopaminergic nuclei in the zebrafish brain.. *Mol. Cell. Neurosci.* 39 (4), 592-604 (2008)

Böhm, J.* , Floss, T. et al. (10 Coauthors): Sall1, Sall2, and Sall4 Are Required for Neural Tube Closure in Mice. *Am. J. Pathol.* 173 (5), 1455-1463 (2008)

Chu, Y., Senghaas, N., Köster, R.W., Wurst, W., Kühn, R.: Novel caspase-suicide proteins for tamoxifen-inducible apoptosis. *Genesis* 46 (10), 530-536 (2008)

Coolen, M., Bally-Cuif, L.: A microRNA as a gatekeeper of the midbrain-hindbrain boundary. *Med. Sci. (Paris)* 24 (10), 787-789 (2008)

Delic, S., Streif, S., Deussing, J.M.* , Weber, P.* , Ueffing, M., Hölter, S.M., Wurst, W., Kühn, R.: Genetic mouse models for behavioral analysis through transgenic RNAi technology. *Genes Brain Behav.* 7 (7), 821-830 (2008)

Di Benedetto, B., Wefers, B., Wurst, W., Kühn, R.: Local Knockdown of ERK2 in the Adult Mouse Brain Via Adeno-Associated Virus-Mediated RNA Interference. *Mol. Biotechnol.* 41 (3), 263-269 (2008)

Faus-Kessler, T., Kirchner, M., Jakobi, G.: Modelling the decay of concentrations of nitrogenous compounds with distance from roads. *Atmos. Environ.* 42 (19), 4589-4600 (2008)

Floss, T., Schnütgen, F.*: Conditional gene trapping using the FLEEx system. *Methods Mol. Biol.* 435, 127-138 (2008)

Ganguly, K. et al. (10 Coauthors): Novel allele of Crybb2 in the mouse and its expression in the brain. *Invest. Ophthalmol. Vis. Sci.* 49 (4), 1533-1541 (2008)

Graw, J.: Cataract genetics. *Eye, retina and visual system of the mouse*, Chalupa, L.M.; Williams, R.W. [Eds.], Cambridge : Mitpress, 493-504 (2008)

Halbach, S., Vogt, S.* , Köhler, W.* , Felgenhauer, N.* , Welzl, G., Kremers, L.* , Zilker, T.* , Melchart, D.*: Blood and urine mercury levels in adult amalgam patients of a randomized controlled trial : Interaction of Hg species in erythrocytes. *Environ. Res.* 107 (1), 69-78 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Developmental Genetics

Hanstein, R.* , Lu, A.* , Wurst, W., Holsboer, F.* , Deussing, J.M.* , Clement, A.B.* , Behl, C.*: Transgenic overexpression of corticotropin releasing hormone provides partial protection against neurodegeneration in an in vivo model of acute excitotoxic stress. *Neuroscience* 156 (3), 712-721 (2008)

Haupt, C., Huber, A.B.: How axons see their way - axonal guidance in the visual system. *Front. Biosci.* 13, 3136-3149 (2008)

Hense, B.A., Jaser, W., Welzl, G., Pfister, G., Wöhler-Moorhoff, G.F., Schramm, K.-W.: Impact of 17alpha-ethinylestradiol on the plankton in freshwater microcosms-II: Responses of phytoplankton and the interrelation within the ecosystem. *Ecotoxicol. Environ. Saf.* 69 (3), 453-465 (2008)

Hölter, S.M. et al. (14 Coauthors): Sighted C3H' mice - a tool for analysing the influence of vision on mouse behaviour? *Front. Biosci.* 13, 5810-5823 (2008)

Jessberger, S.* , Aigner, S.* , Clemenson, G.D.* , Toni, N.* , Lie, D.C., Karalay, O.* , Overall, R.* , Kempermann, G.* , Gage, F.H.*: Cdk5 regulates accurate maturation of newborn granule cells in the adult hippocampus. *PLoS Biol.* 6 (11):e272, 1-11 (2008)

Kamprath, K.* , Plendl, W.* , Marsicano, G.* , Deussing, J. M.* , Wurst, W., Lutz, B.* , Wotjak, C. T.*: Endocannabinoids mediate acute fear adaptation via glutamatergic neurons independently of corticotropin-releasing hormone signaling. *Genes Brain Behav.* 8 (2), 203-211 (2008)

Klafke, R., Wurst, W., Prakash, N.: Genetic control of rodent midbrain dopaminergic neuron development in the light of human disease. *Pharmacopsychiatry* 41 (Suppl. 1), S44-S50 (2008)

Komisarczuk, A.Z.* , Topp, S., Stigloher, C., Kapsimali, M.* , Bally-Cuif, L., Becker, T.S.*: Enhancer detection and developmental expression of zebrafish sprouty1, a member of the fgf8 synexpression group. *Dev. Dyn.* 237(9), 2594-2603 (2008)

Kronsbein, H.C.* , Jastorff, A.M.* , Maccarrone, G.* , Stalla, G.* , Wurst, W., Holsboer, F.* , Turck, C.W.* , Deussing, J.M.*: CRHR1-dependent effects on protein expression and posttranslational modification in AtT-20 cells. *Mol. Cell. Endocrinol.* 292 (1-2), 1-10 (2008)

Leucht, C., Stigloher, C., Wizenmann, A., Klafke, R., Folchert, A., Bally-Cuif, L.: MicroRNA-9 directs late organizer activity of the midbrain-hindbrain boundary. *Nat. Neurosci.* 11 (6), 641-648 (2008)

Lu, A.* , Wurst, W. et al. (14 Coauthors): Conditional mouse mutants highlight mechanisms of corticotropin-releasing hormone effects on stress-coping behavior. *Mol. Psychiatry* 13 (11), 1028-1042 (2008)

Mandillo, S.* , Hölter, S.M. et al. (23 Coauthors): Reliability, robustness and reproducibility in mouse behavioral phenotyping: a cross-laboratory study. *Physiol. Genomics* 34 (3), 243-255 (2008)

Michaelidis, T.M., Lie, D.C.: Wnt signaling and neural stem cells : Caught in the Wnt web. *Cell Tissue Res.* 331 (1), 193-210 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Developmental Genetics

Ninkovic, J., Stigloher, C., LilleSaar, C., Bally-Cuif, L.: Gsk3 beta/PKA and Gli1 regulate the maintenance of neural progenitors at the midbrain-hindbrain boundary in concert with E(Spl) factor activity. *Development* 135 (18), 3137-3148 (2008)

Norton, W. H.J., Folchert, A., Bally-Cuif, L.: Comparative analysis of serotonin receptor (HTR1A/HTR1B families) and transporter (slc6a4a/b) gene expression in the zebrafish brain.. *J. Comp. Neurol.* 511 (4), 521-542 (2008)

Olbrich, M., Gerstner, E., Welzl, G.*, Fleischmann, F.*, Oßwald, W.*, Bahnweg, G., Ernst, D.: Quantification of mRNAs and housekeeping gene selection for quantitative real-time RT-PCR normalization in European beech (*Fagus sylvatica* L.) during abiotic and biotic stress. *Z. Naturforsch., C, J. Biosci.* 63 (7-8), 574-582 (2008)

Omodei, D.*, Acampora, D.*, Mancuso, P.*, Prakash, N., Di Giovannantonio, L.G.*, Wurst, W., Simeone, A.*: Anterior-posterior graded response to Otx2 controls proliferation and differentiation of dopaminergic progenitors in the ventral mesencephalon. *Development* 135 (20), 3459-3470 (2008)

Puk, O., Dalke, C., Hrabé de Angelis, M., Graw, J.: Variation of the response to the optokinetic drum among various strains of mice. *Front. Biosci.* 13, 6269-6275 (2008)

Puk, O., Löster, J., Dalke, C., Soewarto, D., Fuchs, H., Budde, B.*, Nürnberg, P.*, Wolf, E.*, Hrabé de Angelis, M., Graw, J.: Mutation in a Novel Connexin-like Gene (*Gjf1*) in the Mouse Affects Early Lens Development and Causes a Variable Small-Eye Phenotype. *Invest. Ophthalmol. Vis. Sci.* 49 (4), 1525-1532 (2008)

Rieger, S., Volkmann, K., Köster, R.W.: Polysialyltransferase expression is linked to neuronal migration in the developing and adult zebrafish. *Dev. Dyn.* 237 (1), 276-285 (2008)

Risbrough, V.B.*, Geyer, M.A.*, Hauger, R.L.*, Coste, S.*, Stenzel-Poore, M.*, Wurst, W., Holsboer, F.*: CRF1 and CRF2 Receptors are Required for Potentiated Startle to Contextual but not Discrete Cues. *Neuropsychopharmacology* DOI:10.1038/npp.2008.205 (2008)

Schmidt, S.*, Hölter, S.M. et al. (12 Coauthors): Deletion of glucose transporter GLUT8 in mice increases locomotor activity. *Behav. Genet.* 38 (4), 396-406 (2008)

Schmidt, W.*, Klopp, N., Illig, T., Graw, J.: A novel GJA8 mutation causing a recessive triangular cataract. *Mol. Vis.* 14, 851-856 (2008)

Schnütgen, F.*, Hansen, J., De-Zolt, S.*, Horn, C.*, Lutz, M.*, Floss, T., Wurst, W., Ruiz Noppinger, P.*, von Melchner, H.*: Enhanced gene trapping in mouse embryonic stem cells. *Nucleic Acids Res.* 36 (20):e133 (2008)

Schramm, K.-W., Jaser, W., Welzl, G., Pfister, G., Wöhler-Moorhoff, G.F., Hense, B.A.: Impact of 17alpha-ethinylestradiol on the plankton in freshwater microcosms-I: Response of zooplankton and abiotic variables. *Ecotoxicol. Environ. Saf.* 69 (3), 437-452 (2008)

Seiler, A.: Glutathione peroxidase 4 senses and translates oxidative stress into 12/15-lipoxygenase dependent- and AIF-Mediated cell death. *Cell Metab.* 8 (3), 237-248 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Developmental Genetics

Söker, T. et al. (27 Coauthors): Pleiotropic effects in Eya3 knockout mice. *BMC Dev. Biol.* 8 (1):118 (2008)

Steuber-Buchberger, P., Wurst, W., Kühn, R.: Simultaneous Cre-mediated conditional knockdown of two genes in mice. *Genesis* 46 (3), 144-151 (2008)

Stigloher, C., Chapouton, P., Adolf, B., Bally-Cuif, L.: Identification of neural progenitor pools by E(Spl) factors in the embryonic and adult brain. *Brain Res. Bull.* 75 (2-4), 266-273 (2008)

Topp, C., Stigloher, C., Komisarczuk, A.Z.*, Adolf, B., Becker, T.S.*, Bally-Cuif, L.: Fgf signaling in the zebrafish adult brain: Association of Fgf activity with ventricular zones but not cell proliferation. *J. Comp. Neurol.* 510 (4), 422-439 (2008)

Tripathi, P.P.*, Di Giovannantonio, L.G.*, Viegi, A.*, Wurst, W., Simeone, A.*, Bozzi, Y.*: Serotonin hyperinnervation abolishes seizure susceptibility in Otx2 conditional mutant mice. *J. Neurosci.* 28 (37), 9271-9276 (2008)

Trivedi, C. M.*, Floss, T. et al. (13 Coauthors): Hdac2 regulates the cardiac hypertrophic response by modulating Gsk3 beta activity. *Nat. Med.* 13 (3), 324-331 (2007)

Tsolakidou, A.*, Trümbach, D., Panhuysen, M.*, Pütz, B.*, Deussing, J.*, Wurst, W., Sillaber, I.*, Holsboer, F.*, Rein, T.*: Acute stress regulation of neuroplasticity genes in mouse hippocampus CA3 area - possible novel signalling pathways. *Mol. Cell. Neurosci.* 38 (3), 444-452 (2008)

Uez, N., Lickert, H., Kohlhase, J.*, Hrabe de Angelis, M., Kühn, R., Wurst, W., Floss, T.: Sall4 isoforms act during proximal-distal and anterior-posterior axis formation in the mouse embryo. *Genesis* 46 (9), 463-477 (2008)

Volkman, K., Rieger, S., Babaryka, A., Köster, R.W.: The zebrafish cerebellar rhombic lip is spatially patterned in producing granule cell populations of different functional compartments. *Dev. Biol.* 313 (1), 167-180 (2008)

Winner, B.*, Rockenstein, E.*, Lie, D.C., Aigner, R.*, Mante, M.*, Bogdahn, U.*, Couillard-Despres, S.*, Masliah, E.*, Winkler, J.*: Mutant alpha-synuclein exacerbates age-related decrease of neurogenesis. *Neurobiol. Aging* 29 (6), 913-925 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Ecological Chemistry

Adam, T., Zimmermann, R.: Determination of single photon ionization cross sections for quantitative analysis of complex organic mixtures. *Anal. Bioanal. Chem.* 389 (6), 1941-1951 (2007)

Aulakh, J.S.*, Fekete, A., Malik, A.K.*, Schmitt-Kopplin, P., Mahajan, R.K.*: Determination of quats in beverages and urine samples by capillary zone electrophoresis. *Ann. Chim.* 97, 1157-1167 (2007)

Bobu, M.*, Yediler, A., Siminiceanu, I.*, Schulte-Hostede, S.: Degradation studies of ciprofloxacin on a pillared iron catalyst. *Appl. Catal. B* 83 (1-2), 15-23 (2008)

Broding, H. C.*, Michalke, B., Göen, T.*, Drexler, H.*: Comparison between exhaled breath condensate analysis as a marker for cobalt and tungsten exposure and biomonitoring in workers of a hard metal alloy processing plant. *Int. Arch. Occup. Environ. Health* (2008)

Chen, J.*, Schmitt-Kopplin, P. et al. (10 Coauthors): Practical approach for the identification and isomer elucidation of biomarkers detected in a metabonomic study for the discovery of individuals at risk for diabetes by integrating the chromatographic and mass spectrometric information. *Anal. Chem.* 80 (4), 1280-1289 (2008)

Cok, I.*, Dönmez, M.K.*, Satiroglu, M.H.*, Aydinuraz, B.*, Henkelmann, B., Shen, H.*, Kotalik, J., Schramm, K.-W.: Concentrations of polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs), and dioxin-like PCBs in adipose tissue of infertile men. *Arch. Environ. Contam. Toxicol.* 55 (1), 143-152 (2008)

Coon, J.J.*, Frommberger, M. et al. (23 Coauthors): CE-MS analysis of the human urinary proteome for biomarker discovery and disease diagnostics. *Proteomics Clin. Appl.* 2 (7-8), 964-973 (2008)

Dellinger, B.*, Stoeger, T. et al. (18 Coauthors): Combustion Byproducts and Their Health Effects : Summary of the 10th International Congress. *Environ. Eng. Sci.* 25 (8), 1107-1114 (2008)

Dittmar, T.*, Koch, B.*, Hertkorn, N., Kattner, G.*: A simple and efficient method for the solid-phase extraction of dissolved organic matter (SPE-DOM) from seawater. *Limnol Oceanogr Methods* 6, 230-235 (2008)

Eissen, M.*, Lenoir, D.: Electrophilic bromination of alkenes: environmental, health and safety aspects of new alternative methods. *Chemistry* 14 (32), 9830-9841 (2008)

Faus-Kessler, T., Kirchner, M., Jakobi, G.: Modelling the decay of concentrations of nitrogenous compounds with distance from roads. *Atmos. Environ.* 42 (19), 4589-4600 (2008)

Fekete, A., Lahaniatis, M.*, Lintelmann, J., Schmitt-Kopplin, P.: Determination of aliphatic Low-Molecular-Weight and biogenic amines by capillary zone electrophoresis. *Methods in Molecular Biology ; Vol. 384, Capillary Electrophoresis: Methods and Protocols*, Schmitt-Kopplin, P. [Ed.], Totowa, NJ : Humana Press, 65-91 (2008)

Frommberger, M., Englmann, M., Schmitt-Kopplin, P.: Practical considerations for the analysis of ionic and neutral organic molecules with capillary electrophoresis/mass spectrometry. *Methods in Molecular Biology ; Vol. 384, Capillary Electrophoresis: Methods and Protocols*, Schmitt-Kopplin, P. [Ed.], Totowa, NJ : Humana Press, 135-156 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Ecological Chemistry

Garrison, A.W.*, Schmitt-Kopplin, P., Avants, J.K.*: Analysis of the enantiomers of chiral pesticides and other pollutants in environmental samples by capillary electrophoresis. *Methods in Molecular Biology*; Vol. 384, *Capillary Electrophoresis: Methods and Protocols*, Schmitt-Kopplin, P. [Ed.], Totowa, NJ: Humana Press, 157-170 (2008)

Gaspar, A., Harir, M., Lucio, M., Hertkorn, N., Schmitt-Kopplin, P.: Targeted borate complex formation as followed with electrospray ionization Fourier transform ion cyclotron mass spectrometry: monomolecular model system and polyborate formation.. *Rapid Commun. Mass Spectrom.* 22 (20), 3119-3129 (2008)

Gerstmann, U.C., Szymczak, W., Höllriegl, V., Li, W.B., Roth, P., Schramel, P., Takenaka, S., Oeh, U.: Investigations on the solubility of corrosion products on depleted uranium projectiles by simulated body fluids and the consequences on dose assessment. *Radiat. Environ. Biophys.* 47 (2), 205-212 (2008)

Gougeon, R.D.*, Lucio, M. et al. (11 Coauthors): Expressing forest origins in the chemical composition of cooperage oak woods and corresponding wines by using FTICR-MS. *Chemistry* 15 (3), 600-611 (2008)

Gröger, T., Schäffer, M., Pütz, M.*, Ahrens, B.*, Drew, K.*, Eschner, M.*, Zimmermann, R.: Application of two-dimensional gas chromatography combined with pixel-based chemometric processing for the chemical profiling of illicit drug samples. *J. Chromatogr. A* 1200 (1), 8-16 (2008)

Gröger, T., Welthagen, W.*, Mitschke, S.*, Schaeffer, M.*, Zimmermann, R.: Application of comprehensive two-dimensional gas chromatography mass spectrometry and different types of data analysis for the investigation of cigarette particulate matter. *J. Sep. Sci.* 31 (19), 3366-3374 (2008)

Haesler, F., Hagn, A., Frommberger, M., Hertkorn, N., Schmitt-Kopplin, P., Munch, J.C., Schloter, M.: In vitro antagonism of an actinobacterial *Kitasatospora* isolate against the plant pathogen *Phytophthora citricola* as elucidated with ultrahigh resolution mass spectrometry. *J. Microbiol. Methods* 75 (2), 188-195 (2008)

Harir, M., Gaspar, A., Kanawati, B., Fekete, A., Frommberger, M., Martens, D.*, Kettrup, A.*, El Azzouzi, M.*, Schmitt-Kopplin, P.: Photocatalytic reactions of imazamox at TiO₂, H₂O₂ and TiO₂/H₂O₂ in water interfaces: Kinetic and photoproducts study. *Appl. Catal. B* 84 (3-4), 524-532 (2008)

Hense, B.A., Jaser, W., Welzl, G., Pfister, G., Wöhler-Moorhoff, G.F., Schramm, K.-W.: Impact of 17 α -ethinylestradiol on the plankton in freshwater microcosms-II: Responses of phytoplankton and the interrelation within the ecosystem. *Ecotoxicol. Environ. Saf.* 69 (3), 453-465 (2008)

Hertkorn, N., Frommberger, M., Witt, M.*, Koch, B. P.*, Schmitt-Kopplin, P., Perdue, E. M.*: Natural Organic Matter and the Event Horizon of Mass Spectrometry. *Anal. Chem.* 80 (23), 8908-8919 (2008)

Krämer, P.M., Forster, S., Kremmer, E.: Enzyme-linked immunosorbent assays for the sensitive analysis of 2,4-dinitroaniline and 2,6-dinitroaniline in water and soil. *Anal. Bioanal. Chem.* 391 (5), 1821-1835 (2008)

Krämer, P.M., Gouzy, M.F., Keß, M., Kleinschmidt, U., Kremmer, E.: Development and characterization of new rat monoclonal antibodies for procalcitonin. *Anal. Bioanal. Chem.* 392 (4), 727-736 (2008)

Laali, K.K.*, Okazaki, T.*, Bunge, S.D.*, Lenoir, D.: Stable ion and electrophilic chemistry of the sterically crowded stilbene 1,1'-Bi(benzocyclobutenylidene) and its derivatives. *J. Org. Chem.* 73 (11), 4092-4100 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Ecological Chemistry

Li, K.*, Yediler, A., Yang, M.*, Schulte-Hostede, S., Wong, M.H.*: Ozonation of oxytetracycline and toxicological assessment of its oxidation by-products. *Chemosphere* 72 (3), 473-478 (2008)

Mehmetli, E.*, Özgür, D.*, Tiris, M.*, Kiran, N. C.*, Matuschek, G.: Thermolysis Product Distribution of Solid Waste Obtained From Olive Oil Production. *CLEAN - Soil, Air, Water* 36 (3), 315-319 (2008)

Nischwitz, V., Berthele, A.*, Michalke, B.: Speciation analysis of selected metals and determination of their total contents in paired serum and cerebrospinal fluid samples: An approach to investigate the permeability of the human blood-cerebrospinal fluid-barrier. *Anal. Chim. Acta* 627 (2), 258-269 (2008)

Pandelova, M., Henkelmann, B., Roots, O.*, Simm, M.*, Järv, L.*, Benfenati, E.*, Schramm, K.-W.: Levels of PCDD/F and dioxin-like PCB in Baltic fish of different age and gender. *Chemosphere* 71 (2), 369-378 (2008)

Ping, G.*, Schmitt-Kopplin, P., Zhang, Y.*, Baba, Y.*: Capillary electrochromatography and on-line concentration. *Methods in Molecular Biology*; Vol. 384, *Capillary Electrophoresis: Methods and Protocols*, Schmitt-Kopplin, P. [Ed.], Totowa, NJ : Humana Press, 751-769 (2008)

Pitz, M., Schmid, O., Heinrich, J., Birmili, W.*, Maguhn, J., Zimmermann, R., Wichmann, H.-E., Peters, A., Cyrys, J.: Seasonal and diurnal variation of PM_{2.5} apparent particle density in urban air in Augsburg, Germany. *Environ. Sci. Technol.* 42 (14), 5087-5093 (2008)

Riu, A.*, Pandelova, M. et al. (11 Coauthors): Characterisation of bioactive compounds in infant formulas using immobilised recombinant estrogen receptor-alpha affinity columns. *Food Chem. Toxicol.* 46 (10), 3268-3278 (2008)

Rosselló-Mora, R.*, Lucio, M., Peña, A.*, Brito-Echeverría, J.*, López-López, A.*, Valens-Vadell, M.*, Frommberger, M., Antón, J.*, Schmitt-Kopplin, P.: Metabolic evidence for biogeographic isolation of the extremophilic bacterium *Salinibacter ruber*. *ISME J.* 2 (3), 242-253 (2008)

Rothballer, M., Eckert, B., Schmid, M., Fekete, A., Schloter, M., Lehner, A.*, Pollmann, S.*, Hartmann, A.: Endophytic root colonization of gramineous plants by *Herbaspirillum frisingense*. *FEMS Microbiol. Ecol.* 66 (1), 85-95 (2008)

Rudnik, E.*, Milanov, N., Matuschek, G., Kettrup, A.: Ecotoxicity of biocomposites based on renewable feedstock - preliminary studies. *Chemosphere* 70 (2), 337-340 (2007)

Saraji-Bozorgzad, M., Geissler, R., Streibel, T., Mühlberger, F., Sklorz, M., Kaisersberger, E.*, Denner, T.*, Zimmermann, R.: Thermogravimetry coupled to single photon ionization quadrupole mass spectrometry : A tool to investigate the chemical signature of thermal decomposition of polymeric materials. *Anal. Chem.* 80 (9), 3393-3403 (2008)

Schmitt-Kopplin, P., Englmann, M., Rossello-Mora, R.*, Schiewek, R.*, Brockmann, K.J.*, Benter, T.*, Schmitz, O.J.*: Combining chip-ESI with APLI (cESILI) as a multimode source for analysis of complex mixtures with ultrahigh-resolution mass spectrometry. *Anal. Bioanal. Chem.* 391 (8), 2803-2809 (2008)

Schmitt-Kopplin, P., Fekete, A.: A semi-empirical approach for a rapid comprehensive evaluation of the electrophoretic behaviors of small molecules in free-zone electrophoresis. *Methods in Molecular Biology*; Vol. 384, *Capillary Electrophoresis: Methods and Protocols*, Schmitt-Kopplin, P. [Ed.], Totowa, NJ : Humana Press, 593-609 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Ecological Chemistry

Schmitt-Kopplin, P., Fekete, A.: The CE way of thinking "All is Relative!". *Methods in Molecular Biology* ; Vol. 384, Capillary Electrophoresis: Methods and Protocols, Schmitt-Kopplin, P. [Ed.], Totowa, NJ : Humana Press, 611-629 (2008)

Schramm, E., Mühlberger, F., Mitschke, S., Reichardt, G.*, Schulte-Ladbeck, R.*, Pütz, M.*, Zimmermann, R.: Determination of the ionization potentials of security-relevant substances with single photon ionization mass spectrometry using synchrotron radiation. *Appl. Spectrosc.* 62 (2), 238-247 (2008)

Schramm, K.-W., Jaser, W., Welzl, G., Pfister, G., Wöhler-Moorhoff, G.F., Hense, B.A.: Impact of 17alpha-ethinylestradiol on the plankton in freshwater microcosms-I: Response of zooplankton and abiotic variables. *Ecotoxicol. Environ. Saf.* 69 (3), 437-452 (2008)

Schramm, K.-W.: Hair-biomonitoring of organic pollutants. *Chemosphere* 72 (8), 1103-1111 (2008)

Shen, H.*, Main, K.M.*, Andersson, A.M.*, Damgaard, I.N.*, Virtanen, H.E.*, Skakkebaek, N.E.*, Toppari, J.*, Schramm, K.-W.: Concentrations of persistent organochlorine compounds in human milk and placenta are higher in Denmark than in Finland. *Hum. Reprod.* 23 (1), 201-210 (2008)

Suhre, K., Schmitt-Kopplin, P.: MassTRIX : Mass translator into pathways. *Nucleic Acids Res.* 36 (Web Server Issue), W481-W484 (2008)

Tolun, L.*, Telli-Karakoc, F.*, Henkelmann, B., Schramm, K.-W., Okay, O.S.*: PCB pollution of Izmit Bay (Marmara Sea) mussels after the earthquake. *NATO Science for Peace and Security Series C: Environmental Security, The Fate of Persistent Organic Pollutants in the Environment. Proceedings of the NATO Advanced Research Workshop*, Mehmetli, E; Koumanova, B. [Eds.], 127-139 (2008)

Ud-Daula, A., Pfister, G., Schramm, K.W.: Growth inhibition and biodegradation of catecholamines in the ciliated protozoan *Tetrahymena pyriformis*. *J. Environ. Sci. Health A Tox. Hazard. Subst. Environ. Eng.* 43 (14), 1610-1617 (2008)

Uslu, M.Ö.*, Yediler, A., Balcioglu, I.A.*, Schulte-Hostede, S.: Analysis and sorption behavior of fluoroquinolones in solid matrices. *Water Air Soil Pollut.* 190 (1-4), 55-63 (2008)

Voigt, K., Brüggemann, R.*, Schramm, K.-W., Kirchner, M.: PYHASSE a new software for partially ordered sets: Ranking soil against needles. *Multicriteria Ordering and Ranking : Partial orders, ambiguities and applied issues*, Owsinski, J.W. ; Brüggemann, R. [Eds.], 35-45 (2008)

Voigt, K., Brüggemann, R.*, Schramm, K.-W., Kirchner, M.: PYHASSE a new software tool for partially ordered sets example : Ranking of contaminated regions in the Alps. *Environmental Informatics and Industrial Ecology. Proceedings of the 22. International Conference Environmental Informatics - Informatics of environmental protection, sustainable development and risk management*, Aachen : Shaker, 631-636 (2008)

von Rad, U., Klein, I., Dobrev, P. I.*, Kottova, J.*, Zazimalova, E.*, Fekete, A., Hartmann, A., Schmitt-Kopplin, P., Durner, J.: Response of *Arabidopsis thaliana* to N-hexanoyl-DL-homoserine-lactone, a bacterial quorum sensing molecule produced in the rhizosphere. *Planta* 229 (1), 73-85 (2008)

Wang, Y.*, Schmitt-Kopplin, P. et al. (14 Coauthors): Metabonomics study on the effects of the ginsenoside Rg3 in a beta-cyclodextrin-based formulation on tumor-bearing rats by a fully automatic hydrophilic interaction/reversed-phase column-switching HPLC-ESI-MS approach. *Anal. Chem.* 80 (12), 4680-4688 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Ecological Chemistry

Zhu, X.*, Pfister, G., Henkelmann, B., Kotalik, J., Bernhöft, S., Fiedler, S., Schramm, K.-W.: Simultaneous monitoring of profiles of polycyclic aromatic hydrocarbons in contaminated air with semipermeable membrane devices and spruce needles. *Environ. Pollut.* 156 (2), 461-466 (2008)

Zimmermann, R., Mühlberger, F., Fuhrer, K.*, Gonin, M.*, Welthagen, W.: An ultracompact photo-ionization time-of-flight mass spectrometer with a novel vacuum ultraviolet light source for on-line detection of organic trace compounds and as a detector for gas chromatography. *J. Mater. Cycles Waste Manag.* 10 (1), 24-31 (2008)

Zimmermann, R., Welthagen, W., Gröger, T.: Photo-ionisation mass spectrometry as detection method for gas chromatography. Optical selectivity and multidimensional comprehensive separations. *J. Chromatogr. A* 1184 (1-2), 296-308 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Abe, K. et al. (10 Coauthors): Novel lymphocyte-independent mechanisms to initiate inflammatory arthritis via bone marrow-derived cells of Ali18 mutant mice. *Rheumatology* 47 (3), 292-300 (2008)

Alessandrini, F., Semmler-Behnke, M., Jakob, T.*, Schulz, H., Behrendt, H., Kreyling, W.: Total and regional deposition of ultrafine particles in a mouse model of allergic inflammation of the lung. *Inhal. Toxicol.* 20 (6), 585-593 (2008)

Amann, M.*, Heinrich, J. et al. (44 Coauthors): Health relevance of particulate matter from various sources. , 21 S. (2007)

Antova, T.*, Heinrich, J. et al. (14 Coauthors): Exposure to indoor mould and children's respiratory health in the PATY study. *J. Epidemiol. Community Health* 62 (8), 708-714 (2008)

Apfelbacher, C.J.*, Loerbroks, A.*, Cairns, J.*, Behrendt, H., Ring, J.*, Krämer, U.*: Predictors of overweight and obesity in five to seven-year-old children in Germany : Results from cross-sectional studies. *BMC Public Health* 8:171, 1-10 (2008)

Baur, M.P.*, Wichmann, H.-E. et al. (12 Coauthors): Aufwändige Erforschung komplexer Krankheiten : Die Genetisch-Epidemiologischen Methodenzentren im Nationalen Genomforschungsnetz. *GenomXPress* 2 (Sonderausgabe), 59-60 (2007)

Behrendt, H.: Klimawandel und Allergie. Schriftenreihe der Landeszentrale für Gesundheit in Bayern ; Band 19, Globaler Klimawandel und Gesundheit, Gostomzyk, J.G. ; Enke, M. [Hrsg.], München : Landeszentrale für Gesundheit in Bayern e.V., 75-85 (2008)

Belloni, B.*, Andres, C.*, Ollert, M.*, Ring, J.*, Mempel, M.: Novel immunological approaches in the treatment of atopic eczema. *Curr. Opin. Allergy Clin. Immunol.* 8 (5), 423-427 (2008)

Boes, E.*, Heid, I.M. et al. (11 Coauthors): INSIG2 polymorphism is neither associated with BMI nor with phenotypes of lipoprotein metabolism. *Obesity (Silver Spring)* 16 (4), 827-833 (2008)

Brandstätter, A.*, Heid, I.M. et al. (10 Coauthors): Sex-specific association of the putative fructose transporter SLC2A9 variants with uric acid levels is modified by BMI. *Diabetes Care* 31 (8), 1662-1667 (2008)

Braun-Falco, M.*, Rödl, D.: Recombinant adeno-associated virus vectors for somatic gene therapy in dermatology. *Expert Rev. Dermatol.* 2 (2), 167-177 (2007)

Brockow, I. et al. (12 Coauthors): Einfluss von Lebensbedingungen und Verhaltensweisen auf die Entwicklung von Immunsystem und Allergien im Ost-West-Vergleich (LISA) : Design und bisherige Ergebnisse einer prospektiven Geburtskohortenstudie in Deutschland. *Monatsschr. Kinderheilkd.* 156, 249-255 (2008)

Brockow, K., Jofer, C.*, Behrendt, H., Ring, J.*: Anaphylaxis in patients with mastocytosis: a study on history, clinical features and risk factors in 120 patients. *Allergy* 63 (2), 226-232 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Brüske-Hohlfeld, I., Peters, A.: Epidemiological studies on particulate air pollution. Nanotechnology. Vol.2: Environmental Aspects, Krug, H. [Ed.], Weinheim : Wiley, 267-290 (2008)

Brüske-Hohlfeld, I.: Environmental and occupational risk factors for lung cancer. Methods in Molecular Biology, Volume 472, Cancer Epidemiology, Verma, M. [Ed.], Totowa, NJ : Humana Press, 3-23 (2008)

Buchner, S.*, Döring, A. et al. (10 Coauthors): Left atrial size by planimetry is superior to M-mode diameter : Biochemical calibration by atrial and brain natriuretic peptide. J. Am. Soc. Echocardiogr. 21 (4), 380-385 (2008)

Buters, J.T., Kasche, A., Weichenmeier, I., Schober, W., Klaus, S., Traidl-Hoffmann, C., Menzel, A.*, Huss-Marp, J., Kramer, U.*, Behrendt, H.: Year-to-year variation in release of Bet v 1 allergen from birch pollen : Evidence for geographical differences between West and South Germany. Int. Arch. Allergy Immunol. 145 (2), 122-130 (2008)

Cerveri, I.*, Heinrich, J. et al. (16 Coauthors): Underestimation of airflow obstruction among young adults using FEV1/FVC <70% as a fixed cut-off : a longitudinal evaluation of clinical and functional outcomes. Thorax 63 (12), 1040-1045 (2008)

Chen, C.-M. et al. (12 Coauthors): Dog ownership and contact during childhood and later allergy development. Eur. Respir. J. 31 (5), 963-973 (2008)

Chen, C.-M. et al. (14 Coauthors): Domestic cat allergen and allergic sensitisation in young children. Int. J. Hyg. Environ. Health 211 (3-4), 337-344 (2008)

Chen, W.*, Mempel, M.*, Schober, W., Behrendt, H., Ring, J.*: Gender difference, sex hormones, and immediate type hypersensitivity reactions. Allergy 63 (11), 1418-1427 (2008)

Cyrys, J., Pitz, M.*, Heinrich, J., Wichmann, H.-E., Peters, A.: Spatial and temporal variation of particle number concentration in Augsburg, Germany. Sci. Total Environ. 401 (1-3), 168-175 (2008)

Daegelmann, C.*, Herberth, G.*, Röder, S.*, Herbarth, O.*, Giese, T.*, Krämer, U.*, Behrendt, H., Borte, M.*, Heinrich, J., Emmrich, F., Lehmann, I.*: Association between suppressors of cytokine signalling, T-helper type 1/T-helper type 2 balance and allergic sensitization in children. Clin. Exp. Allergy 38 (3), 438-448 (2008)

Darsow, U., Ring, J.*: Immunoglobulin E-mediated allergy plays a role in atopic eczema as shown in the atopy patch test. WAO J. 1 (3), 51-56 (2008)

Döring, A. et al. (17 Coauthors): SLC2A9 influences uric acid concentrations with pronounced sex-specific effects. Nat. Genet. 40 (4), 430-436 (2008)

Döring, A., Koenig, W.*, Meisinger, C., The Emerging Risk Factors Collaboration: Analysis of individual data on lipid, inflammatory and other markers in over 1.1 million participants in 104 prospective studies of cardiovascular diseases. Eur. J. Epidemiol. 22 (12), 839-869 (2007)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Eller, E.* , Chen, C.-M. et al. (27 Coauthors): Meta-analysis of determinants for pet ownership in 12 European birth cohorts on asthma and allergies: a GA2LEN initiative.. *Allergy* 63 (11), 1491-1498 (2008)

Eyerich, K., Foerster, S., Rombold, S.* , Seidl, H.P.* , Behrendt, H., Hofmann, H.* , Ring, J.* , Traidl-Hoffmann, C.: Patients with Chronic Mucocutaneous Candidiasis Exhibit Reduced Production of Th17-Associated Cytokines IL-17 and IL-22. *J. Invest. Dermatol.* 128, 2640–2645 (2008)

Eyerich, K., Huss-Marp, J., Darsow, U.* , Wollenberg, A., Foerster, S., Ring, J.* , Behrendt, H., Traidl-Hoffmann, C.: Pollen grains induce a rapid and biphasic eczematous immune response in atopic eczema patients. *Int. Arch. Allergy Immunol.* 145 (3), 213-223 (2008)

Eyerich, K., Traidl-Hoffmann, C., Albert, A.* , Kerzl, R.* , Rombold, S.* , Darsow, U.* , Eberlein, B.* , Jakob, T.* , Ring, J.* , Hein, R.* : Lipomatous metaplasia after severe and chronic cutaneous inflammation. *Dermatology (Basel)* 217 (1), 52-55 (2008)

Filipiak, B. et al. (10 Coauthors): Frühe Beikost Einführung und Auftreten von Ekzem innerhalb der ersten vier Lebensjahre : Ergebnisse der GINI-Geburtskohorte. *Allergo J.* 17 (1), 82-83 (2008)

Flohr, C.* , Rzehak, P. et al. (12 Coauthors): The role of atopic sensitization in flexural eczema: findings from the International Study of Asthma and Allergies in Childhood Phase Two. *J. Allergy Clin. Immunol.* 121 (1), 141-147 (2008)

Fromme, H.* , Diemer, J.* , Dietrich, S.* , Cyrus, J., Heinrich, J., Lang, W.* , Kiranoglu, M.* , Twardella, D.* : Chemical and morphological properties of particulate matter (PM10, PM2.5) in school classrooms and outdoor air. *Atmos. Environ.* 42 (27), 6597-6605 (2008)

Gapp, O., Schweikert, B., Meisinger, C., Holle, R.: Disease management programmes for patients with coronary heart disease--an empirical study of German programmes.. *Health Policy* 88(2-3), 176-815 (2008)

Gärtner, C.* , Walz, L.* , Bauernschmitt, E.* , Ladwig, K.H.: Patientenbezogene Determinanten der prähospitalen Verzögerung beim akuten Myokardinfarkt. *Dtsch. Arztebl.* 105(15), 286-91 (2008)

Gibson, J.* , Pfeufer, A. et al. (10 Coauthors): A multimetric approach to analysis of genome-wide association by single markers and composite likelihood. *Proc. Natl. Acad. Sci. U.S.A.* 105 (7), 2592-2597 (2008)

Gieger, C. et al. (11 Coauthors): Genetics meets metabolomics: a genome-wide association study of metabolite profiles in human serum. *PLoS Genet.* 4 (11):e1000282, 1-12 (2008)

Gohlke, H., Ferrari, U.* , Koczwara, K.* , Bonifacio, E.* , Illig, T., Ziegler A.G.* : SLC30A8 (ZnT8) Polymorphism is Associated with Young Age at Type 1 Diabetes Onset. *Rev. Diabet. Stud.* 5 (1), 25-27 (2008)

Götschi, T.* , Heinrich, J., Sunyer, J.* , Künzli, N.* : Long-term effects of ambient air pollution on lung function : a review. *Epidemiology* 19 (5), 690-701 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Grau, M.*, Peters, A. et al. (13 Coauthors): South-to-North gradient in lipid peroxidation in men with stable coronary artery disease in Europe. *Eur. Heart J.* 28 (23), 2841-2849 (2007)

Gretarsdottir, S.*, Gieger, Ch.: Risk Variants for Atrial Fibrillation on Chromosome 4q24 Associate with Ischemic Stroke. *Ann. Neurol.* 64, 402-409 (2008)

Grobe, T.G.*, Gerhardus, A.*, A'Walelu, O.*, Meisinger, C., Krauth, C.*: Hospitalisations for acute myocardial infarction - comparing data from three different sources. *Gesundheitswesen* 70 (8-9), e37-e46 (2008)

Gschwendtner, A.*, Ripke, S.*, Freilinger, T.*, Lichtner, P., Müller-Myhsok, B.*, Wichmann, H.-E., Meitinger, T., Dichgans, M.*: Genetic variation in soluble epoxide hydrolase (EPHX2) is associated with an increased risk of ischemic stroke in white Europeans. *Stroke* 39 (5), 1593-1596 (2008)

Heid, I. M. et al. (15 Coauthors): Genome-Wide Association Analysis of High-Density Lipoprotein Cholesterol in the Population-Based KORA Study Sheds New Light on Intergenic Regions. *Circ. Cardiovasc. Genet.* 1, 10-20 (2008)

Heid, I.M. et al. (11 Coauthors): Association of the MC4R V103I polymorphism with the metabolic syndrome: the KORA Study. *Obesity (Silver Spring)* 16 (9), 369-376 (2008)

Heid, I.M. et al. (17 Coauthors): Estimating the Single Nucleotide Polymorphism Genotype Misclassification From Routine Double Measurements in a Large Epidemiologic Sample. *Am. J. Epidemiol.* 168 (8), 878-889 (2008)

Heinrich, J., Koletzko, B.*: Kindergesundheit und Kinderbetreuung bei unter 3-Jährigen. *Monatsschr. Kinderheilkd.* 156 (6), 562-568 (2008)

Hense, H.W.*, Koesters, E.*, Wellmann, J.*, Meisinger, C., Völzke, H.*, Keil, U.*: Evaluation of a recalibrated Systematic Coronary Risk Evaluation cardiovascular risk chart : Results from Systematic Coronary Risk Evaluation Germany. *Eur. J. Cardiovasc. Prev. Rehabil.* 15 (4), 409-415 (2008)

Herder, C.*, Illig, T. et al. (10 Coauthors): RANTES/CCL5 gene polymorphisms, serum concentrations, and incident type 2 diabetes: results from the MONICA/KORA Augsburg case-cohort study, 1984-2002. *Eur. J. Endocrinol.* 158 (5), R1-R5 (2008)

Herder, C.*, Illig, T., Baumert, J., Mueller, M.*, Klopp, N.*, Khuseyinova, N.*, Meisinger, C., Martin, S.*, Thorand, B., Koenig, W.*: Macrophage migration inhibitory factor (MIF) and risk for coronary heart disease: Results from the MONICA/KORA Augsburg case-cohort study, 1984-2002. *Atherosclerosis* 200 (2), 380-388 (2008)

Herder, C.*, Klopp, N., Baumert, J., Müller, M., Khuseyinova, N.*, Meisinger, C., Martin, S.*, Illig, T., Koenig, W.*, Thorand, B.: Effect of macrophage migration inhibitory factor (MIF) gene variants and MIF serum concentrations on the risk of type 2 diabetes: Results from the MONICA/KORA Augsburg Case-Cohort Study, 1984-2002. *Diabetologia* 51 (2), 276-284 (2008)

Hinterseer, M.*, Thomsen, M.B.*, Beckmann, B.M.*, Pfeufer, A., Schimpf, R.*, Wichmann, H.-E., Steinbeck, G.*, Vos, M.A.*, Kaab, S.*: Beat-to-beat variability of QT intervals is increased in patients with drug-induced long-QT syndrome: a case control pilot study. *Eur. Heart J.* 29 (2), 185-190 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Holzapfel, C. et al. (11 Coauthors): Genetic variants in the USF1 gene are associated with lowdensity lipoprotein cholesterol levels and incident type 2 diabetes mellitus in women: results from the MONICA/KORA Augsburg case-cohort study, 1984-2002. *Eur. J. Endocrinol.* 159, 407-416 (2008)

Holzapfel, C., Gedrich, K.*, Karg, G.*, Lang, O., Döring, A.*: Selbsteinschätzung des Gesundheitszustands und Body Mass Index: Ergebnisse aus dem MONICA/KORA-Projekt Augsburg. *Ernährungs-Umschau* 10/08, 584-591 (2008)

Huth, C.: IL6 gene promoter polymorphisms, type 2 diabetes mellitus, and related quantitative traits : joint analysis of individual participants data from 18 international studies. *Materialien zur Epidemiologie*; Bd. 11, Wichmann, H.-E.; Heilmaier, H.E. [Eds.], Regensburg : Roderer, 133 S. (2008)

Jacquemin, B.*, Müller, M. et al. (12 Coauthors): Common genetic polymorphisms and haplotypes of fibrinogen alpha, beta, and gamma chains affect fibrinogen levels and the response to proinflammatory stimulation in myocardial infarction survivors : the AIRGENE study. *J. Am. Coll. Cardiol.* 52 (11), 941-952 (2008)

Jacquemin, B.*, Sunyer, J.*, Forsberg, B.*, Aguilera, I.*, Briggs, D.*, Götschi, T.*, Heinrich, J., Torén, K.*, Vienneau, D.*, Künzli, N.*: Association between annoyance and individuals' values of nitrogen dioxide in a European setting. *J. Epidemiol. Community Health* 62 (5):e12, 1-6 (2008)

Jakob, T. et al. (16 Coauthors): Novel mouse mutants with primary cellular immunodeficiencies generated by genome-wide mutagenesis. *J. Allergy Clin. Immunol.* 121 (1), 179-184 (2008)

John, U.*, Baumeister, S. E., Voelzke, H.*, Grabe, H.J.*, Freyberger, H.J.*, Alte, D.*: Estimation of psycholeptic and psychoanaleptic medicine use in an adult general population sample using the Anatomical Therapeutic Chemical classification. *Int. J. Methods Psychiatr. Res.* 17(4), 220-231 (2008)

Justenhoven, C.*, Vollmert, C. et al. (12 Coauthors): The CYP1B1_1358_GG genotype is associated with estrogen receptor-negative breast cancer. *Breast Cancer Res. Treat.* 111 (1), 171-177 (2008)

Justenhoven, C.*, Vollmert, C. et al. (19 Coauthors): Breast cancer : A candidate gene approach across the estrogen metabolic pathway. *Breast Cancer Res. Treat.* 108 (1), 137-149 (2008)

Kalali, B.N.*, Köllisch, G., Mages, J.*, Müller, T.*, Bauer, S.*, Wagner, H.*, Ring, J.*, Lang, R.*, Mempel, M.*, Ollert, M*: Double-stranded RNA induces an antiviral defense status in epidermal keratinocytes through TLR3-, PKR-, and MDA5/RIG-I-mediated differential signaling. *J. Immunol.* 181 (4), 2694-2704 (2008)

Kerzl, R.*, Eberlein, B. et al. (11 Coauthors): Parallel occurrence of Erdheim-Chester disease and eosinophilic granuloma in the same patient. *J. Eur. Acad. Dermatol. Venereol.* DOI:10.1111/j.1468-3083.2008.02810.x (2008)

Kerzl, R.*, Mempel, M., Ring, J.*: Allergen-specific immunotherapy in food anaphylaxis. *WAO J.* 1, 47-50 (2008)

Kessenbrock, K.*, Ring, J. et al. (10 Coauthors): Proteinase 3 and neutrophil elastase enhance inflammation in mice by inactivating antiinflammatory progranulin. *J. Clin. Invest.* 118 (7), 2438-2447 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

- Khuseyinova, N.*, Greven, S., Rückerl, R., Trischler, G.*, Löwel, H., Peters, A., König, W.*: Variability of serial lipoprotein-associated phospholipase A2 measurements in post myocardial infarction patients : results from the AIRGENE Study Center Augsburg. *Clin. Chem.* 54 (1), 124-130 (2008)
- Koenig, W.*, Khuseyinova, N.*, Baumert, J., Meisinger, C.: Prospective study of high-sensitivity C-reactive protein as a determinant of mortality: Results from the MONICA/KORA Augsburg Cohort Study, 1984-1998. *Clin. Chem.* 54 (2), 335-342 (2008)
- Koenig, W.*, Meisinger, C.: Uric acid, type 2 diabetes, and cardiovascular diseases : Fueling the common soil hypothesis? *Clin. Chem.* 54 (2), 231-233 (2008)
- Koletzko, B.*, Demmelmair, H.*, Schaeffer, L.*, Illig, T., Heinrich, J.: Genetically determined variation in polyunsaturated fatty acid metabolism may result in different dietary requirements. *Nestle Nutr. Workshop Ser. Pediatr. Program.* 62, 35-49 (2008)
- Kollerits, B.*, Heinrich, J., Pichler, M.*, Rantner, B.*, Klein-Weigel, P.*, Wölke, G., Brasche, S.*, Strube, G.*, Kronenberg, F.*: Intermittent claudication in the Erfurt Male Cohort (ERFORT) Study: its determinants and the impact on mortality. A population-based prospective cohort study with 30 years of follow-up. *Atherosclerosis* 198 (1), 214-222 (2008)
- Kolz, M. et al. (12 Coauthors): DNA variants, plasma levels and variability of C-reactive protein in myocardial infarction survivors : Results from the AIRGENE study. *Eur. Heart J.* 29 (10), 1250-1258 (2008)
- Kolz, M., Baumert, J., Müller, M., Khuseyinova, N.*, Klopp, N., Thorand, B., Meisinger, C., Herder, C.*, Koenig, W.*, Illig, T.: Association between variations in the TLR4 gene and incident type 2 diabetes is modified by the ratio of total cholesterol to HDL-cholesterol. *BMC Med. Genet.* 9:9, 1-12 (2008)
- Kompauer, I., Demmelmair, H.*, Koletzko, B.*, Bolte, G.*, Linseisen, J.*, Heinrich, J.: Association of fatty acids in serum phospholipids with lung function and bronchial hyperresponsiveness in adults. *Eur. J. Epidemiol.* 23 (3), 175-190 (2008)
- Kompauer, I., Heinrich, J., Wolfram, G.*, Linseisen, J.*: Association of carotenoids, tocopherols and vitamin C in plasma with allergic rhinitis and allergic sensitization in adults. *Allergo J.* 15, 133-135 (2006)
- Kormann, M.S.D.*, Depner, M.*, Hartl, D.*, Klopp, N., Illig, T., Adamski, J., Vogelberg, C.*, Weiland, S.K.*, von Mutius, E., Kabesch, M.*: Toll-like receptor heterodimer variants protect from childhood asthma. *J. Allergy Clin. Immunol.* 122 (1), 86-92 (2008)
- Krauss-Etschmann, S. et al. (12 Coauthors): Decreased cord blood IL-4, IL-13, and CCR4 and increased TGF-beta levels after fish oil supplementation of pregnant women. *J. Allergy Clin. Immunol.* 121 (2), 464-470 (2008)
- Kuch, B.*, Heier, M., von Scheidt, W.*, Kling, B.*, Hoermann, A., Meisinger, C.: 20-year trends in clinical characteristics, therapy and short-term prognosis in acute myocardial infarction according to presenting electrocardiogram: the MONICA/KORA AMI Registry (1985-2004). *Epub. J. Intern. Med.* 264(3), 254-264 (2008)
- Kuch, B.*, von Scheidt, W.*, Kling, B.*, Heier, M., Hoermann, A., Meisinger, C.: Differential Impact of Admission C-Reactive Protein Levels on 28-Day Mortality Risk in Patients With ST-Elevation Versus Non-ST-Elevation Myocardial Infarction (from the Monitoring Trends and Determinants on Cardiovascular Diseases [MONICA]/Cooperative HeAm. *J. Cardiol.* 102(9), 1125-1130 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Kuhn, K.A.*, Mewes, H.-W. et al. (31 Coauthors): Informatics and medicine--from molecules to populations. *Methods Inf. Med.* 47 (4), 283-295 (2008)

Kulathinal, S.*, Karvanen, J.*, Saarela, O.*, Kuulasmaa, K.*, Döring, A.: Case-cohort design in practice – experiences from the MORGAM Project. *Epidemiol. Perspect. Innov.* 4:15, 1-17 (2007)

Ladwig, K.H., Baumert, J., Marten-Mittag, B.*, Kolb, C.*, Zrenner, B.*, Schmitt, C.*: Posttraumatic Stress Symptoms and Predicted Mortality in Patients With Implantable Cardioverter-Defibrillators. *Arch. Gen. Psychiatry* 65 (11), 1324-1330 (2008)

Ladwig, K.H., Klupsch, D., Ruf, E., Meisinger, C., Baumert, J., Erazo, N.*, Wichmann, H.E.: Sex- and age-related increase in prevalence rates of death wishes and suicidal ideation in the community: Results from the KORA-F3 Augsburg Study with 3154 men and women, 35 to 84 years of age. *Psychiatry Res.* 161 (2), 248-252 (2008)

Ladwig, K.-H., Lederbogen, F.*: Positionspapier zur Bedeutung von psychosozialen Faktoren in der Kardiologie. *Der Kardiologe* 2, 274-287 (2008)

Lamina, C., Bongardt, F.*, Küchenhoff, H.*, Heid, I.M.: Haplotype reconstruction error as a classical misclassification problem: Introducing sensitivity and specificity as error measures. *PLoS ONE* 3 (3):e1853, 1-11 (2008)

Lanki, T.*, Hoek, G.*, Timonen, K. L.*, Peters, A., Tiittanen, P.*, Vanninen, E.*, Pekkanen, J.*: Hourly variation in fine particle exposure is associated with transiently increased risk of ST segment depression. *Occup. Environ. Med.* 65 (11), 782-786 (2008)

Lao, O.*, Gieger, C. et al. (31 Coauthors): Correlation between genetic and geographic structure in Europe. *Curr. Biol.* 18 (16), 1241-1248 (2008)

Lasky-Su, J.*, Heid, I.M. et al. (32 Coauthors): On the replication of genetic associations: timing can be everything! *Am. J. Hum. Genet.* 82 (4), 849-858 (2008)

Lette, G.*, Gieger, C. et al. (36 Coauthors): Identification of ten loci associated with height highlights new biological pathways in human growth. *Nat. Genet.* 40 (5), 584-591 (2008)

Lieb, W.*, Döring, A. et al. (15 Coauthors): Lack of association between the MEF2A gene and myocardial infarction. *Circulation* 117 (2), 185-191 (2008)

Lingenhel, A.*, Kollerits, B.*, Schwaiger, J.P.*, Hunt, S.C.*, Gress, R.*, Hopkins, P.N.*, Schoenborn, V.*, Heid, I.M., Kronenberg, F.*: Serum bilirubin levels, UGT1A1 polymorphisms and risk for coronary artery disease. *Exp. Gerontol.* 43 (12), 1102-1107 (2008)

Linsel-Nitschke, P.*, Lamina, C. et al. (32 Coauthors): Lifelong reduction of LDL-cholesterol related to a common variant in the LDL-receptor gene decreases the risk of coronary artery disease--a Mendelian Randomisation study. *PLoS ONE* 3 (8):e2986, 1-9 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Loos, R.J.F.* , Heid, I.M. et al. (108 Coauthors): Common variants near MC4R are associated with fat mass, weight and risk of obesity. *Nat. Genet.* 40 (6), 768-775 (2008)

Luca, D.* , Gieger, C. et al. (12 Coauthors): On the use of general control samples for genome-wide association studies : Genetic matching highlights causal variants. *Am. J. Hum. Genet.* 82 (2), 453-463 (2008)

Lücking, C.B.* , Lichtner, P., Dichgans, M.* , Illig, T., Gieger, C., Berg, D.* , Gasser, T.* : Polymorphisms in the proteasomal subunit alpha4 are not associated with Parkinson's disease. *J. Neurol.* 255 (3), 441-442 (2008)

Maier, K.L. et al. (15 Coauthors): Health effects of ambient particulate matter--biological mechanisms and inflammatory responses to in vitro and in vivo particle exposures. *Inhal. Toxicol.* 20 (3), 319-337 (2008)

Malerby, G.* , Schaeffer, L. et al. (15 Coauthors): SNPs of the FADS gene cluster are associated with polyunsaturated fatty acids in a cohort of patients with cardiovascular disease. *Lipids* 43 (4), 289-299 (2008)

Markus, M.R.P.* , Stritzke, J.* , Lieb, W.* , Mayer, B.* , Luchner, A.* , Döring, A., Keil, U.* , Hense, H.-W.* , Schunkert, H.* : Implications of persistent prehypertension for ageing-related changes in left ventricular geometry and function: The MONICA/KORA Augsburg study. *J. Hypertens.* 26 (10), 2040-2049 (2008)

Martinelli, N.* , Illig, T. et al. (13 Coauthors): FADS genotypes and desaturase activity estimated by the ratio of arachidonic acid to linoleic acid are associated with inflammation and coronary artery disease. *Am. J. Clin. Nutr.* 88 (4), 941-949 (2008)

Meisinger, C., Döring, A., Heier, M.: Blood pressure and risk of type 2 diabetes mellitus in men and women from the general population: the Monitoring Trends and Determinants on Cardiovascular Diseases/Cooperative Health Research in the Region of Augsburg Cohort Study. *J. Hypertens.* 26 (9), 1809-1815 (2008)

Meisinger, C., Heier, M., Landgraf, R.* , Happich, M.* , Wichmann, H.E., Piehlmeier, W.* : Albuminuria, cardiovascular risk factors and disease management in subjects with type 2 diabetes: a cross sectional study. *BMC Health Serv. Res.* 8:226, 1-7 (2008)

Meisinger, C., Koenig, W.* , Baumert, J., Döring, A: Uric acid levels are associated with all-cause and cardiovascular disease mortality independent of systemic inflammation in men from the general population: the MONICA/KORA cohort study. *Arterioscler. Thromb. Vasc. Biol.* 28 (6), 1186-1192 (2008)

Menzler, S.* , Piller, G.* , Gruson, M.* , Schaffrath-Rosario, A., Wichmann, H.-E., Kreienbrock, L.* : Population attributable fraction for lung cancer due to residential radon in Switzerland and Germany. *Health Phys.* 95 (2), 179-189 (2008)

Mittelstrass, K. et al. (26 Coauthors): Early onset lung cancer, cigarette smoking and the SNP309 of the murine double minute-2 (MDM2) gene. *BMC Cancer* 8:113, 1-9 (2008)

Morgenstern, V. et al. (13 Coauthors): Atopic diseases, allergic sensitization, and exposure to traffic-related air pollution in children. *Am. J. Respir. Crit. Care Med.* 177 (12), 1331-1337 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Müller, M. et al. (12 Coauthors): Quantifying the contribution of genetic variants for survival phenotypes. *Genet. Epidemiol.* 32 (6), 574-585 (2008)

Novak, N. et al. (10 Coauthors): Loss-of-function mutations in the filaggrin gene and allergic contact sensitization to nickel. *J. Invest. Dermatol.* 128, 1430-1435 (2008)

Pfab, F., Valet, M.*, Tölle, T.*, Behrendt, H., Ring, J.*, Darsow, U.: Recent progress in unraveling central nervous system processing of itch sensation. *WAO J.* 10, 168-173 (2008)

Pfaffenrath, V.*, Fendrich, K.*, Vennemann, M.*, Meisinger, C., Ladwig, K-H., Evers, S.*, Straube, A.*: Regional variations in the prevalence of migraine and tension-type headache applying the new IHS criteria: the German DMKG Headache Study. *Cephalalgia* 29 (1), 48-57 (2008)

Pichler, M.*, Kollerits, B.*, Heid, I.M., Hunt, S.C.*, Adams, T.D.*, Hopkins, P.N.*, Kronenberg, F.*: Association of the melanocortin-4 receptor V103I polymorphism with dietary intake in severely obese persons. *Am. J. Clin. Nutr.* 88 (3), 797-800 (2008)

Pitz, M., Birmili, W.*, Schmid, O., Peters, A., Wichmann, H.-E., Cyrys, J.: Quality control and quality assurance for particle size distribution measurements at an urban monitoring station in Augsburg, Germany. *J. Environ. Monit.* 10 (9), 1017-1024 (2008)

Pitz, M., Schmid, O., Heinrich, J., Birmili, W.*, Maguhn, J., Zimmermann, R., Wichmann, H.-E., Peters, A., Cyrys, J.: Seasonal and diurnal variation of PM_{2.5} apparent particle density in urban air in Augsburg, Germany. *Environ. Sci. Technol.* 42 (14), 5087-5093 (2008)

Rabstein, S.*, Illig, T. et al. (11 Coauthors): Lack of association of delta-aminolevulinic acid dehydratase polymorphisms with blood lead levels and hemoglobin in Romanian women from a lead-contaminated region. *J. Toxicol. Environ. Health Part A* 71 (11-12), 716-724 (2008)

Radon, K.*, Schulze, A. et al. (11 Coauthors): Occupation and adult onset of rhinitis in the general population. *Occup. Environ. Med.* 65 (1), 38-43 (2008)

Rathmann, W.*, Strassburger, K.*, Giani, G.*, Döring, A., Meisinger, C.: Differences in height explain gender differences in the response to the oral glucose tolerance test. *Diabet. Med.* 25 (11), 1374-1375 (2008)

Rauter, I.*, Huss-Marp, J. et al. (16 Coauthors): Mast cell-derived proteases control allergic inflammation through cleavage of IgE. *J. Allergy Clin. Immunol.* 121 (1), 197-202 (2008)

Reinhard, W.*, Meisinger, C. et al. (17 Coauthors): Association between PPAR alpha gene polymorphisms and myocardial infarction. *Clin. Sci.* 115 (9-10), 301-308 (2008)

Rodriguez, E., Illig, T., Weidinger, S.*: Filaggrin loss-of-function mutations and association with allergic diseases. *Pharmacogenomics* 9 (4), 399-413 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Roeber, S.*, Vollmert, C. et al. (11 Coauthors): Evidence for a pathogenic role of different mutations at codon 188 of PRNP. PLoS ONE 3 (5): e2147, 1-7 (2008)

Rosenberger, A.*, Illig, T. et al. (24 Coauthors): Do genetic factors protect for early onset lung cancer? A case control study before the age of 50 years. BMC Cancer 8:60, 1-12 (2008)

Rückert, I.M., Böcken, J., Mielck, A.: Are German patients burdened by the practice charge for physician visits ('Praxisgebuehr')? A cross sectional analysis of socio-economic and health related factors.. BMC Health Serv. Res. 8:232, 1-13 (2008)

Rzehak, P., Schoefer, Y., Wichmann, H.E., Heinrich, J.: A prospective study on the association between hay fever among children and incidence of asthma in East Germany. Eur. J. Epidemiol. 23 (1), 17-22 (2008)

Sauter, W. et al. (18 Coauthors): Matrix metalloproteinase 1 (MMP1) is associated with early-onset lung cancer. Cancer Epidemiol. Biomarkers Prev. 17 (5), 1127-1135 (2008)

Schedel, M.*, Klopp, N. et al. (12 Coauthors): IRF-1 gene variations influence IgE regulation and atopy. Am. J. Respir. Crit. Care Med. 177 (6), 613-621 (2008)

Scheurig, A.C., Thorand, B., Fischer, B., Heier, M., Koenig, W.*: Association between the intake of vitamins and trace elements from supplements and C-reactive protein : Results of the MONICA/KORA Augsburg study. Eur. J. Clin. Nutr. 62 (1), 127-131 (2008)

Schmidt, W.*, Klopp, N., Illig, T., Graw, J.: A novel GJA8 mutation causing a recessive triangular cataract. Mol. Vis. 14, 851-856 (2008)

Schneider, A. et al. (10 Coauthors): Air temperature and inflammatory responses in myocardial infarction survivors. Epidemiology 19 (3), 391-400 (2008)

Schneider, A. et al. (12 Coauthors): Endothelial Dysfunction: Associations with Exposure to Ambient Fine Particles in Diabetic Individuals. Environ. Health Perspect. 116 (12), 1666-1674 (2008)

Schneider, A., Schuh, A.*, Maetzel, F.-K.*, Rückerl, R., Breitner, S., Peters, A.: Weather-induced ischemia and arrhythmia in patients undergoing cardiac rehabilitation: another difference between men and women. Int. J. Biometeorol. 52 (6), 535-547 (2008)

Schneider, J.*, Illig, T., Rosenberger, A.*, Bickeböller, H.*, Wichmann, H.-E.: Detection of ATM gene mutations in young lung cancer patients : A population-based control study. Arch. Med. Res. 39 (2), 226-231 (2008)

Schnopp, C.*, Grosch, J.*, Ring, J.*, Ollert, M.*, Mempel, M.: Microbial allergen-specific IgE is not suitable to identify the intrinsic form of atopic eczema in children. J. Allergy Clin. Immunol. 121 (1), 267-268 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

- Schober, W., Behrendt, H.: Einfluss von Umweltfaktoren auf die Allergieentstehung. HNO 56 (8), 752-758 (2008)
- Schoefer, Y., Schäfer, T.*, Meisinger, C., Wichmann, H.-E., Heinrich, J., KORA study group: Predictivity of allergic sensitization (RAST) for the onset of allergic diseases in adults. Allergy 63 (1), 81-86 (2008)
- Schoefer, Y., Zutavern, A.*, Brockow, I.*, Schäfer, T.*, Krämer, U.*, Schaaf, B.*, Herbarth, O.*, von Berg, A.*, Wichmann, H.-E., Heinrich, J., LISA study group: Health risks of early swimming pool attendance. Int. J. Hyg. Environ. Health 211 (3-4), 367-373 (2008)
- Schormair, B. et al. (31 Coauthors): PTPRD (protein tyrosine phosphatase receptor type delta) is associated with restless legs syndrome. Nat. Genet. 40 (8), 946-948 (2008)
- Schorr, G.*, Ulbricht, S.*, Schmidt, C.O.*, Baumeister, S.E., Ruege, J.*, Schumann, A.*, Rumpf, H.J.*, John, U.*, Meyer, C.*: Does precontemplation represent a homogeneous stage category? A latent class analysis on German smokers.. J. Consult. Clin. Psychol. 76 (5), 840-851 (2008)
- Schreiber, S., Wahn, U., Wichmann, H.-E.: Gefährliche Wechselwirkung zwischen Genen und Lebensstil : Häufigkeit von umweltbedingten Erkrankungen steigt seit einigen Jahrzehnten. GenomXPress 2 (Sonderausgabe), 29-31 (2007)
- Schulze, A., van Strien, R.T.*, Praml, G.*, Nowak, D.*, Radon, K.*: Characterisation of asthma among adults with and without childhood farm contact. Eur. Respir. J. 29 (6), 1169-1173 (2007)
- Schunkert, H.*, Wichmann, H.-E. et al. (33 Coauthors): Repeated replication and a prospective meta-analysis of the association between chromosome 9p21.3 and coronary artery disease. Circulation 117 (13), 1675-1684 (2008)
- Sedlacek, K.*, Pfeufer, A. et al. (11 Coauthors): Common genetic variants in ANK2 modulate QT interval: Results from the KORA study. Circ. Cardiovasc. Genet. 1 (2), 93-99 (2008)
- Shaaban, R.*, Heinrich, J. et al. (13 Coauthors): Rhinitis and onset of asthma : a longitudinal population-based study. Lancet 372 (9643), 1049-1057 (2008)
- Sinner, M.F.*, Pfeufer, A. et al. (15 Coauthors): The non-synonymous coding IKr-channel variant KCNH2-K897T is associated with atrial fibrillation: Results from a systematic candidate gene-based analysis of KCNH2 (HERG). Eur. Heart J. 29 (7), 907-914 (2008)
- Slama, R. et al. (15 Coauthors): Meeting report : Atmospheric pollution and human reproduction. Environ. Health Perspect. 116 (6), 791-798 (2008)
- Smith, J.S.*, Bruske-Hohlfeld, I. et al. (13 Coauthors): Lack of association between serum antibodies of Chlamydia pneumoniae infection and the risk of lung cancer.. Int. J. Cancer 123(10), 2469-2471 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Sunyer, J.*, Pistelli, R.*, Plana, E.*, Andreani, M.*, Baldari, F.*, Kolz, M., Koenig, W.*, Pekkanen, J.*, Peters, A., Forastiere, F.*: Systemic inflammation, genetic susceptibility and lung function. *Eur. Respir. J.* 32 (1), 92-97 (2008)

Suttner, K.*, Adamski, J. et al. (10 Coauthors): HLX1 gene variants influence the development of childhood asthma. *J. Allergy Clin. Immunol.* 123 (1): e6, 82-88 (2008)

Svanes, C.*, Wjst, M. et al. (11 Coauthors): Long-term reliability in reporting of childhood pets by adults interviewed twice, 9 years apart. Results from the European Community Respiratory Health Survey I and II. *Indoor Air* 18 (2), 84-92 (2008)

Traidl-Hoffmann, C., Ring, J.*: Is there an in vitro test for type IV allergy discriminating between sensitization and allergic disease? *Clin. Exp. Allergy* 38 (9), 1412-1415 (2008)

Valet, M.*, Pfab, F., Sprenger, T.*, Wöller, A.*, Zimmer, C.*, Behrendt, H., Ring, J.*, Darsow, U., Tölle, T.R.*: Cerebral processing of histamine-induced itch using short-term alternating temperature modulation - an fMRI study. *J. Invest. Dermatol.* 128 (2), 426-433 (2008)

Viana, M.*, Heinrich, J. et al. (10 Coauthors): Source apportionment of ambient PM_{2.5} at five spanish centres of the european community respiratory health survey (ECRHS II). *Atmos. Environ.* 41 (7), 1395-1406 (2007)

von Berg, A.*, Brockow, I. et al. (13 Coauthors): Preventive effect of hydrolyzed infant formulas persists until age 6 years: long-term results from the German Infant Nutritional Intervention Study (GINI). *J. Allergy Clin. Immunol.* 121 (6), 1442-1447 (2008)

von Klot, S., Mittleman, M.A.*, Dockery, D.W.*, Heier, M., Meisinger, C., Hörmann, A., Wichmann, H.-E., Peters, A.: Intensity of physical exertion and triggering of myocardial infarction : A case-crossover study. *Eur. Heart J.* 29 (15), 1881-1888 (2008)

Wang-Sattler, R. et al. (15 Coauthors): Metabolic profiling reveals distinct variations linked to nicotine consumption in humans--first results from the KORA study. *PLoS ONE* 3(12): e3863 (2008)

Watanabe, H.*, Pfeufer, A. et al. (18 Coauthors): Sodium channel beta1 subunit mutations associated with Brugada syndrome and cardiac conduction disease in humans. *J. Clin. Invest.* 118 (6), 2260-2268 (2008)

Weidinger, S. et al. (13 Coauthors): Filaggrin mutations, atopic eczema, hay fever, and asthma in children. *J. Allergy Clin. Immunol.* 121 (5), 1203-1209 (2008)

Weidinger, S. et al. (29 Coauthors): Analysis of the individual and aggregate genetic contributions of previously identified serine peptidase inhibitor Kazal type 5 (SPINK5), kallikrein-related peptidase 7 (KLK7), and filaggrin (FLG) polymorphisms to eczema risk. *J. Allergy Clin. Immunol.* 122 (3), 560-568 (2008)

Weidinger, S. et al. (30 Coauthors): Genome-wide scan on total serum IgE levels identifies FCER1A as novel susceptibility locus. *PLoS Genet.* 4 (8):e1000166, 1-9 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Epidemiology

Weinmayr, G.* , Rzehak, P. et al. (11 Coauthors): International variation in prevalence of rhinitis and its relationship with sensitisation to perennial and seasonal allergens.. *Eur. Respir. J.* 32 (5), 1250-1261 (2008)

Weinmeister, P.* , Lukowski, R.* , Linder, S.* , Traidl-Hoffmann, C., Hengst, L.* , Hofmann, F.* , Feil, R.*: Cyclic guanosine monophosphate-dependent protein kinase I promotes adhesion of primary vascular smooth muscle cells. *Mol. Biol. Cell* 19 (10), 4434-4441 (2008)

Wichmann, H.-E.: Schützen Umweltzonen unsere Gesundheit oder sind sie unwirksam? *Umweltmed. Forsch. Prax.* 13 (1), 7-10 (2008)

Wiedmann, S.* , Fischer, M.* , Koehler, M.* , Neureuther, K.* , Riegger, G.* , Döring, A., Schunkert, H.* , Hengstenberg, C.* , Baessler, A.*: Genetic variants within the LPIN1 gene, encoding lipin, are influencing phenotypes of the metabolic syndrome in humans. *Diabetes* 57 (1), 209-217 (2008)

Winkelmann, J. et al. (18 Coauthors): Variants in the neuronal nitric oxide synthase (nNOS, NOS1) gene are associated with restless legs syndrome. *Mov. Disord.* 23 (3), 350-358 (2008)

Yue, W., Stölzel, M., Cyrus, J., Pitz, M., Heinrich, J., Kreyling, W.G., Wichmann, H.-E., Peters, A., Wang, S.* , Hopke, P.K.*: Source apportionment of ambient fine particle size distribution using positive matrix factorization in Erfurt, Germany. *Sci. Total Environ.* 398 (1-3), 133-144 (2008)

Yuille, M.* , Wichmann, H.-E. et al. (11 Coauthors): Biobanking for Europe. *Brief. Bioinformatics* 9 (1), 14-24 (2008)

Zeggini, E.* , Grallert, H. et al. (100 Coauthors): Meta-analysis of genome-wide association data and large-scale replication identifies additional susceptibility loci for type 2 diabetes. *Nat. Genet.* 40 (5), 638-645 (2008)

Ziegler, D.* , Rathmann, W.* , Dickhaus, T.* , Meisinger, C., Mielck, A., KORA Study Group: Prevalence of polyneuropathy in pre-diabetes and diabetes is associated with abdominal obesity and macroangiopathy : the MONICA/KORA Augsburg Surveys S2 and S3. *Diabetes Care* 31 (3), 464-469 (2008)

Ziegler, D.* , Zentai, C.P.* , Perz, S., Rathmann, W.* , Haastert, B.* , Döring, A., Meisinger, C., KORA Study Group: Prediction of mortality using measures of cardiac autonomic dysfunction in the diabetic and nondiabetic population: the MONICA/KORA Augsburg Cohort Study. *Diabetes Care* 31 (3), 556-561 (2008)

Zutavern, A. et al. (10 Coauthors): Timing of solid food introduction in relation to eczema, asthma, allergic rhinitis, and food and inhalant sensitization at the age of 6 years : Results from the prospective birth cohort study LISA. *Pediatrics* 121 (1), e44-e52 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Experimental Genetics

Abe, K. et al. (10 Coauthors): Novel lymphocyte-independent mechanisms to initiate inflammatory arthritis via bone marrow-derived cells of Ali18 mutant mice. *Rheumatology* 47 (3), 292-300 (2008)

Ahting, U. et al. (14 Coauthors): Neurological phenotype and reduced lifespan in heterozygous Tim23 knockout mice, the first mouse model of defective mitochondrial import.. *Biochim. Biophys. Acta*
DOI:10.1016/j.bbabi.2008.12.001 (2008)

Aigner, B.*, Rathkolb, B.*, Herbach, N.*, Hrabé de Angelis, M., Wanke, R.*, Wolf, E.*: Diabetes models by screen for hyperglycemia in phenotype-driven ENU mouse mutagenesis projects. *Am. J. Physiol. Endocrinol. Metab.* 294 (2), 232-240 (2008)

Attia, S.M.*, Badary, O.A.*, Hamada, F.M.*, Hrabé de Angelis, M., Adler, I.D.: The chemotherapeutic agents nocodazole and amsacrine cause meiotic delay and non-disjunction in spermatocytes of mice. *Mutat. Res.* 651 (1-2), 105-113 (2008)

Bender, A.*, Beckers, J. et al. (19 Coauthors): Creatine improves health and survival of mice. *Neurobiol. Aging* 29 (9), 1404-1411 (2008)

Bode, M.*, Irmeler, M. et al. (12 Coauthors): Interlocking transcriptomics, proteomics and topomics technologies for brain tissue analysis in murine hippocampus. *Proteomics* 8 (6), 1170-1178 (2008)

Brozic, P.*, Kocbek, P.*, Sova, M.*, Kristl, J.*, Martens, S.*, Adamski, J., Gobec, S.*, Rizner, T.L.*: Flavonoids and cinnamic acid derivatives as inhibitors of 17beta-hydroxysteroid dehydrogenase type 1. *Mol. Cell. Endocrinol.* 10.1016/j.mce.2008.09.004, S. (2008)

Fröhlich Archangelo, L. et al. (11 Coauthors): The CALM and CALM/AF10 interactor CATS is a marker for proliferation. *Mol. Oncol.* 2, 356-367 (2008)

Fuchs, H., Lisse, T., Hans, W., Abe, K., Thiele, F., Gailus-Durner, V., Hrabé de Angelis, M.: Phenotypic characterization of mouse models for bone-related diseases in the German Mouse Clinic. *J. Musculoskelet. Neuronal. Interact.* 8 (1), 13-14 (2008)

Ganguly, K. et al. (10 Coauthors): Novel allele of Crybb2 in the mouse and its expression in the brain. *Invest. Ophthalmol. Vis. Sci.* 49 (4), 1533-1541 (2008)

Gieger, C. et al. (11 Coauthors): Genetics meets metabolomics: a genome-wide association study of metabolite profiles in human serum. *PLoS Genet.* 4 (11):e1000282, 1-12 (2008)

Hartl, D.*, Irmeler, M., Römer, I.*, Mader, M.T., Mao, L.*, Zabel, C.*, Hrabé de Angelis, M., Beckers, J., Klose, J.*: Transcriptome and proteome analysis of early embryonic mouse brain development. *Proteomics* 8 (6), 1257-1265 (2008)

Hertzano, R.*, Fuchs, H. et al. (14 Coauthors): A Myo6 mutation destroys coordination between the myosin heads, revealing new functions of myosin VI in the stereocilia of mammalian inner ear hair cells. *PLoS Genet.* 4 (10):e1000207, 1-14 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Experimental Genetics

Hölter, S.M. et al. (14 Coauthors): Sighted C3H' mice - a tool for analysing the influence of vision on mouse behaviour? *Front. Biosci.* 13, 5810-5823 (2008)

Horsch, M., Schädler, S., Gailus-Durner, V., Fuchs, H., Meyer, H.*, Hrabé de Angelis, M., Beckers, J.: Systematic gene expression profiling of mouse model series reveals coexpressed genes. *Proteomics* 8 (6), 1248-1256 (2008)

Irmeler, M., Hartl, D.*, Schmidt, T.*, Schuchhardt, J.*, Lach, C., Meyer, H.E.*, Hrabé de Angelis, M., Klose, J.*, Beckers, J.: An approach to handling and interpretation of ambiguous data in transcriptome and proteome comparisons. *Proteomics* 8 (6), 1165-1169 (2008)

Jakob, T. et al. (16 Coauthors): Novel mouse mutants with primary cellular immunodeficiencies generated by genome-wide mutagenesis. *J. Allergy Clin. Immunol.* 121 (1), 179-184 (2008)

Kormann, M.S.D.*, Depner, M.*, Hartl, D.*, Klopp, N., Illig, T., Adamski, J., Vogelberg, C.*, Weiland, S.K.*, von Mutius, E., Kabesch, M.*: Toll-like receptor heterodimer variants protect from childhood asthma. *J. Allergy Clin. Immunol.* 122 (1), 86-92 (2008)

Lisse, T.S. et al. (12 Coauthors): ER Stress-Mediated Apoptosis in a New Mouse Model of Osteogenesis imperfecta. *PLoS Genet.* 4 (2):e7, 1-11 (2008)

Maier, H., Lengger, C., Simic, B.*, Fuchs, H., Gailus-Durner, V., Hrabé de Angelis, M.: MausDB: an open source application for phenotype data and mouse colony management in large-scale mouse phenotyping projects. *BMC Bioinformatics* 9:169, 1-15 (2008)

Maier, K.L. et al. (15 Coauthors): Health effects of ambient particulate matter--biological mechanisms and inflammatory responses to in vitro and in vivo particle exposures. *Inhal. Toxicol.* 20 (3), 319-337 (2008)

McGowan, K.A.*, Fuchs, H. et al. (11 Coauthors): Ribosomal mutations cause p53-mediated dark skin and pleiotropic effects. *Nat. Genet.* 40 (8), 963-970 (2008)

Meier, M., Tokarz, J., Haller, F., Mindnich, R.*, Adamski, J.: Human and zebrafish hydroxysteroid dehydrogenase like 1 (HSDL1) proteins are inactive enzymes but conserved among species. *Chem. Biol. Interact.* DOI:10.1016/j.cbi.2008.10.036 (2008)

Pawlak, C.R.*, Sanchis-Segura, C., Soewarto, D., Wagner, S., Hrabé de Angelis, M., Spanagel, R.*: A phenotype-driven ENU mutagenesis screen for the identification of dominant mutations involved in alcohol consumption. *Mamm. Genome* 19 (2), 77-84 (2008)

Persson, B.*, Adamski, J. et al. (17 Coauthors): The SDR (short-chain dehydrogenase/reductase and related enzymes) nomenclature initiative. *Chem. Biol. Interact.* DOI:10.1016/j.cbi.2008.10.040 (2008)

Pinto, L. et al. (11 Coauthors): Prospective isolation of functionally distinct radial glial subtypes--lineage and transcriptome analysis. *Mol. Cell. Neurosci.* 38 (1), 15-42 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Experimental Genetics

Puk, O., Dalke, C., Hrabé de Angelis, M., Graw, J.: Variation of the response to the optokinetic drum among various strains of mice. *Front. Biosci.* 13, 6269-6275 (2008)

Puk, O., Löster, J., Dalke, C., Soewarto, D., Fuchs, H., Budde, B.*, Nürnberg, P.*, Wolf, E.*, Hrabé de Angelis, M., Graw, J.: Mutation in a Novel Connexin-like Gene (Gjf1) in the Mouse Affects Early Lens Development and Causes a Variable Small-Eye Phenotype. *Invest. Ophthalmol. Vis. Sci.* 49 (4), 1525-1532 (2008)

Schmidt, S.*, Hölter, S.M. et al. (12 Coauthors): Deletion of glucose transporter GLUT8 in mice increases locomotor activity. *Behav. Genet.* 38 (4), 396-406 (2008)

Schuchhardt, J.*, Glintschert, A.*, Hartl, D.*, Irmeler, M., Beckers, J., Stephan, C.*, Marcus, K.*, Klose, J.*, Meyer, H.E.*, Malik, A.*: BrainProfileDB - a platform for integration of functional genomics data. *Proteomics* 8 (6), 1162-1164 (2008)

Söker, T. et al. (27 Coauthors): Pleiotropic effects in Eya3 knockout mice. *BMC Dev. Biol.* 8 (1):118 (2008)

Spiden, S.L.*, Hrabé de Angelis, M. et al. (11 Coauthors): The novel mouse mutation Oblivion inactivates the PMCA2 pump and causes progressive hearing loss. *PLoS Genet.* 4 (10):e1000238, 1-12 (2008)

Suttner, K.*, Adamski, J. et al. (10 Coauthors): HLX1 gene variants influence the development of childhood asthma. *J. Allergy Clin. Immunol.* 123 (1): e6, 82-88 (2008)

Tarrant, A.M.*, Reitzel, A.M.*, Blomquist, C.H.*, Haller, F., Tokarz, J., Adamski, J.: Steroid metabolism in cnidarians: Insights from *Nematostella vectensis*. *Mol. Cell. Endocrinol.* doi:10.1016/j.mce.2008.09.037 (2008)

Uez, N., Lickert, H., Kohlhase, J.*, Hrabé de Angelis, M., Kühn, R., Wurst, W., Floss, T.: Sall4 isoforms act during proximal-distal and anterior-posterior axis formation in the mouse embryo. *Genesis* 46 (9), 463-477 (2008)

Wang-Sattler, R. et al. (15 Coauthors): Metabolic profiling reveals distinct variations linked to nicotine consumption in humans--first results from the KORA study. *PLoS ONE* 3(12): e3863 (2008)

Zolotukhin, A.S.*, Schneider, R., Uranishi, H.*, Bear, J.*, Tretyakova, I.*, Michalowski, D.*, Smulevitch, S.*, O'Keeffe, S., Pavlakis, G.N., Felber, B.K.*: The RNA transport element RTE is essential for IAP LTR-retrotransposon mobility. *Virology* 377 (1), 88-99 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Groundwater Ecology

Anneser, B., Einsiedl, F., Meckenstock, R.U., Richters, L.* , Wisotzky, F.* , Griebler, C.: High-resolution monitoring of biogeochemical gradients in a tar oil-contaminated aquifer. *Appl. Geochem.* 23 (6), 1715-1730 (2008)

Anneser, B., Richters, L.*: Application of high-resolution groundwater sampling in a tar oil-contaminated sandy aquifer. *Studies on small-scale abiotic gradients. Advances in Subsurface Pollution of Porous Media: Indicators, Processes and Modelling*, Candela, L.; Vadillo, I.; Elorza, F.J. [Eds.], Leiden, NL : CRC Press, 107-122 (2008)

Bauer, R.D., Maloszewski, P., Zhang, Y.* , Meckenstock, R.U., Griebler, C.: Mixing-controlled biodegradation in a toluene plume - Results from two-dimensional laboratory experiments. *J. Contam. Hydrol.* 96 (1-4), 150-168 (2008)

Bernstein, A.* , Ronen, Z.* , Adar, E.* , Nativ, R.* , Lowag, H., Stichler, W., Meckenstock, R.U.: Compound-specific Isotope analysis of RDX and stable isotope fractionation during aerobic and anaerobic Bbiodegradation. *Environ. Sci. Technol.* 42 (21), 7772-7771 (2008)

Danielopol, D.L.* , Griebler, C., Gunatilaka, A.* , Hahn, H.J.* , Gibert, J.* , Mermillod-Blondin, F.* , Messana, G.* , Notenboom, J.* , Sket, B.*: Incorporation of groundwater ecology in Environmental policy. *Groundwater Science and Policy: An International Overview*, Quevauvieller, P. [Ed.], Cambridge, UK : RSC Publ., 671-689 (2008)

Danielopol, D.L.* , Griebler, C.: Changing Paradigms in Groundwater Ecology - from the 'Living Fossils' Tradition to the 'New Groundwater Ecology'. *Int. Rev. Hydrobiol.* 93 (4-5), 565-577 (2008)

Einsiedl, F., Mayer, B.* , Schäfer, T.*: Evidence for incorporation of H₂S in groundwater fulvic acids from stable isotope ratios and sulfur K-edge X-ray absorption near edge structure spectroscopy. *Environ. Sci. Technol.* 42 (1), 2439-2444 (2008)

Elsner, M., Chartrand, M.* , Van Stone, N.* , Lacrampe-Couloume, G.* , Sherwood Lollar, B.*: Identifying Abiotic Chlorinated Ethene Degradation : Characteristic Isotope Patterns in Reaction Products with Nanoscale Zero-Valent Iron. *Environ. Sci. Technol.* 42 (16), 5963-5970 (2008)

Elsner, M., Hunkeler, D.*: Evaluating chlorine isotope effects from isotope ratios and mass spectra of polychlorinated molecules. *Anal. Chem.* 80 (12), 4731-4740 (2008)

Euringer, K., Lueders, T.: An optimised PCR/T-RFLP fingerprinting approach for the investigation of protistan communities in groundwater environments. *J. Microbiol. Methods* 75 (2), 262-268 (2008)

Froehlich, K.* , Kralik, M.* , Papesch, W.* , Rank, D.* , Scheifinger, H.* , Stichler, W.: Deuterium excess in precipitation of Alpine regions - moisture recycling. *Isotopes Environ. Health Stud.* 44(1), 61-70 (2008)

Gibert, J.* , Culver, D.C.* , Gunatilaka, A.*: Groundwater ecosystems : Human impacts and future management. *Aquatic ecosystems*, Polunin, N.V.C. [Ed.], Cambridge : University Press, 30-44 (2008)

Goldhammer, T.* , Einsiedl, F., Blodau, C.*: In situ determination of sulfate turnover in peatlands : A down-scaled push-pull tracer technique. *J. Plant Nutr. Soil Sci.* 171, 740-750 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Groundwater Ecology

Johannes, J., Bluschke, A.*, Jehmlich, N.*, von Bergen, M.*, Boll, M.*: Purification and characterization of active-site components of the putative p-cresol methylhydroxylase membrane complex from *Geobacter metallireducens*. *J. Bacteriol.* 190 (19), 6493-6500 (2008)

Klotz, D.: Auswirkungen des Extremjahres 2003 auf den Wasserhaushalt von Böden. *Wasserwirtschaft* 5, 16-20 (2008)

Koeniger, P.*, Schwientek, M., Uhlenbrook, S.*, Leibundgut, Ch.*, Krause, W.J.*: Tritium balance in macro-scale river basins analysed through distributed hydrological modelling. *Hydrol. Process.* 22 (5), 567-576 (2008)

Kunapuli, U., Griebler, C., Beller, H.R.*, Meckenstock, R.U.: Identification of intermediates formed during anaerobic benzene degradation by an iron-reducing enrichment culture. *Environ. Microbiol.* 10 (7), 1703-1712 (2008)

Mancini, S.A.*, Devine, C.E.*, Elsner M., Nandi M.E.*, Ulrich A.C.*, Edwards E.A.*, Lollar B.S.*: Isotopic evidence suggests different initial reaction mechanisms for anaerobic benzene biodegradation.. *Environ. Sci. Technol.* 42 (22), 8290-8296 (2008)

Mangalo, M., Einsiedl, F., Meckenstock, R.U., Stichler, W.: Influence of the enzyme dissimilatory sulfite reductase on stable isotope fractionation during sulfate reduction. *Geochim. Cosmochim. Acta* 72 (6), 1513-1520 (2008)

Meyer, A.H., Penning, H., Lowag, H., Elsner, M.: Precise and accurate compound specific carbon and nitrogen isotope analysis of atrazine : Critical role of combustion oven conditions. *Environ. Sci. Technol.* 42 (21), 7757-7763 (2008)

Ogrinc, N.*, Kanduc, T.*, Stichler, W., Vreca, P.*: Spatial and seasonal variations in delta18O and deltaD values in the River Sava in Slovenia. *J. Hydrol.* 359 (3-4), 303-312 (2008)

Penning, H., Cramer, C.J., Elsner, M.: Rate-dependent carbon and nitrogen kinetic Isotope fractionation in hydrolysis of isoproturon. *Environ. Sci. Technol.* 42 (21), 7764-7771 (2008)

Rolle, M.*, Bauer, R., Griebler, C., Meckenstock, R., Bauer, S.*, Kolditz, O.*, Grathwohl, P*: Aerobic degradation of a toluene plume in homogeneous and heterogeneous porous media. GQ07: Securing Groundwater Quality in Urban and Industrial Enviroments. Proc. 6th International Groundwater Quality Conference, Trefry, M.G., CSIRO [Ed.], Wallingford : IAHS Press, 356-363 (2008)

Schmidt, S.I., Haybach, A.*, König, B.*, Schöll, F.X.*, Koop, J.H.E.*: Makrozoobenthosbesiedlung und Sedimentumlagerung in Bundeswasserstraßen. *Hydrol. Wasserbewirtsch.* 51 (6), 266-272 (2007)

Schwientek, M., Einsiedl, F., Stichler, W., Stögbauer, A.*, Strauss, H.*, Maloszewski, P.: Evidence for denitrification regulated by pyrite oxidation in a heterogeneous porous groundwater system. *Chem. Geol.* 255 (1-2), 60-67 (2008)

Stichler, W., Maloszewski, P., Bertleff, B.*, Watzel, R.*: Use of environmental isotopes to define the capture zone of a drinking water supply situated near a dredge lake. *J. Hydrol.* 362 (3-4), 220-233 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Groundwater Ecology

Stögbauer, A.* , Strauss, H.* , Arndt, J.* , Marek, V.* , Einsiedl, F., Geldern, R.V.*: Rivers of North Rhine Westphalia revisited. *Appl. Geochem.* 23(12), 3290-3304 (2008)

Stumpp, C., Fank, J.* , Stichler, W., Fank, J.; Lanthaler, C. [Eds.]: Hydrologische Modellierung auf der Lysimeterskala: 4.1. Identifizierung von Heterogenitäten des Wassertransports in der ungesättigten Zone von Lysimetern. Internationale MMM-Konferenz: Beiträge zur Hydrogeologie, Volume 56, Graz, Österreich : Johanneum Research Forschungsgesellschaft mbH, 109-114 (2008)

Stumpp, C.: Quantification of heterogeneity in the unsaturated flow using environmental isotopes. *Freiburger Schriften zur Hydrologie* ; Bd. 26, Freiburg i. Br. : Universität Freiburg, 112 S. (2008)

Stupp, H.D.* , Gass, M.* , Bakenhus, A.* , Anneser, B., Richters, L.* , Griebler, C.: Ausbreitung von BTEX im Grundwasser : neue Aspekte zur zukünftigen Beurteilung von Natural Attenuation. *altlasten spektrum* 1, 16-23 (2008)

Van Stone, N.* , Elsner, M., Lacrampe-Couloume, G.* , Mabury, S.* , Sherwood Lollar, B.*: Potential for identifying abiotic chloroalkane degradation mechanisms using carbon isotopic fractionation. *Environ. Sci. Technol.* 42, 126-132 (2008)

Winderl, C., Anneser, B., Griebler, C., Meckenstock, R.U., Lueders, T.: Depth-resolved quantification of anaerobic toluene degraders and aquifer microbial community patterns in distinct redox zones of a tar oil contaminant plume. *Appl. Environ. Microbiol.* 74 (3), 792-801 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Health Economics and Health Care Management

Arnold-Wörner, N., Holle, R., Rathmann, W.*, Mielck, A.: The importance of specialist treatment, treatment satisfaction and diabetes education for the compliance of subjects with type 2 diabetes - results from a population-based survey. *Exp. Clin. Endocrinol. Diabetes* 116 (2), 123-128 (2008)

Donath, C.*, Graeßel, E.*, Großfeld-Schmitz, M.*, Haag, C.*, Kornhuber, J.*, Neubauer, S.: Diagnostik und Therapie von Demenzerkrankungen in der hausärztlichen Praxis: ein Stadt-Land-Vergleich. *Psychiatr. Prax.* 35, 142-145 (2008)

Eickholz, P.*, Kaltschmitt, J.*, Berbig, J.*, Reitmeir, P., Pretzl, B.*: Tooth loss after active periodontal therapy. 1: patient-related factors for risk, prognosis, and quality of outcome. *J. Clin. Periodontol.* 35 (2), 165-174 (2008)

Eller, M., Holle, R., Landgraf, R.*, Mielck, A.: Social network effect on self-rated health in type 2 diabetic patients - results from a longitudinal population-based study. *Int. J. Public Health* 53 (4), 188-194 (2008)

Gapp, O., Schweikert, B., Meisinger, C., Holle, R.: Disease management programmes for patients with coronary heart disease--an empirical study of German programmes.. *Health Policy* 88(2-3), 176-815 (2008)

Gapp, O.: Die Balanced Scorecard in gesetzlichen Krankenkassen : eine empirische Studie zum Stand der Anwendung und deren Ausgestaltung. *Z. öffentl. gemeinwirt. Unternehmen* 31 (2), 107-132 (2008)

Grässel, E.*, Donath, C.*, Lauterberg, J.*, Haag, C.*, Neubauer, S.: Demenzkranke und Pflegestufen: Wirken sich Krankheitssymptome auf die Einstufung aus? *Gesundheitswesen* 70 (3), 129-136 (2008)

Happich, M.*, John, J., Stamenitis, S.*, Clouth, J.*, Polnau, D.*: The quality of life and economic burden of neuropathy in diabetic patients in Germany in 2002--Results from the Diabetic Microvascular Complications (DIMICO) study. *Diabetes Res. Clin. Pract.* 81 (2), 223-230 (2008)

Hartz, S.*, John, J.: Contribution of economic evaluation to decision making in early phases of product development : A methodological and empirical review. *Int. J. Technol. Assess. Health Care* 24 (4), 465-472 (2008)

Icks, A.*, Moebus, S.*, Feuersenger, A.*, Haastert, B.*, Jöckel, K.H.*, Mielck, A., Giani, G.*: Widening of a social gradient in obesity risk? German national health surveys 1990 and 1998. *Eur. J. Epidemiol.* 22 (10), 685-690 (2007)

Kemptner, D.*, Wildner, M.*, Abu-Omar, K.*, Caselmann, W.H.*, Kerscher, G.*, Reitmeir, P., Mielck, A., Rütten, A.*: Regionale Unterschiede des Gesundheitsverhaltens in Bayern - Mehrebenenanalyse einer bevölkerungsrepräsentativen Befragung in Verbindung mit sozioökonomischen Strukturdaten. *Gesundheitswesen* 70 (1), 28-37 (2008)

Krauth, C.*, John, J. et al. (11 Coauthors): Stellungnahme der AG Methoden der gesundheitsökonomischen Evaluation (AG MEG) in der Deutschen Gesellschaft für Sozialmedizin und Prävention. (DGSMPP) zum 1. Entwurf des IQWiG Methodenpapiers zur Kosten-Nutzen-Bewertung von Arzneimitteln. *Gesundheitsökon. Qualitätsmanag.* 13, 171-173 (2008)

Krauth, C.*, John, J. et al. (11 Coauthors): Stellungnahme der AG Methoden der gesundheitsökonomischen Evaluation (AG MEG) zu dem Methodenpapier "Methodik für die Bewertung von Verhältnissen zwischen Nutzen und Kosten im System der deutschen gesetzlichen Krankenversicherung" des Instituts für QualitätGesundheitswesen 70 (6), e1-e16 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Health Economics and Health Care Management

Kreck, S.*, Klaus, J.*, Leidl, R., von Tirpitz, C.*, Konnopka, A.*, Matschinger, H.*, König, H.H.*: Cost effectiveness of ibandronate for the prevention of fractures in inflammatory bowel disease-related osteoporosis : Cost-utility analysis using a Markov model.. *Pharmacoeconomics* 26 (4), 311-328 (2008)

Kuch, B.*, Heier, M., von Scheidt, W.*, Kling, B.*, Hoermann, A., Meisinger, C.: 20-year trends in clinical characteristics, therapy and short-term prognosis in acute myocardial infarction according to presenting electrocardiogram: the MONICA/KORA AMI Registry (1985-2004). *Epub. J. Intern. Med.* 264(3), 254-264 (2008)

Kuch, B.*, von Scheidt, W.*, Kling, B.*, Heier, M., Hoermann, A., Meisinger, C.: Differential Impact of Admission C-Reactive Protein Levels on 28-Day Mortality Risk in Patients With ST-Elevation Versus Non-ST-Elevation Myocardial Infarction (from the Monitoring Trends and Determinants on Cardiovascular Diseases [MONICA]/Cooperative HeAm. *J. Cardiol.* 102(9), 1125-1130 (2008)

Kuhn, K.A.*, Mewes, H.-W. et al. (31 Coauthors): Informatics and medicine--from molecules to populations. *Methods Inf. Med.* 47 (4), 283-295 (2008)

Lampert, T.*, Mielck, A.: Gesundheit und soziale Ungleichheit : eine Herausforderung für Forschung und Politik. *G+G Wissenschaft* 8 (2), 7-16 (2008)

Lehrke, M.*, Konrad, A.*, Schachinger, V.*, Tillack, C.*, Seibold, F.*, Stark, R., Parhofer, K.G.*, Broedl, U.C.*: CXCL16 is a surrogate marker of inflammatory bowel disease. *Scand. J. Gastroenterol.* 43 (3), 283-288 (2008)

Leidl R.: A model to decompose the performance of supplementary private health insurance markets. *Int. J. Health Care Finance Econ.* 8 (3), 193-208 (2008)

Leidl, R.: Orientierungspunkte für die Beurteilung der Wirtschaftlichkeit von Gesundheitsleistungen in Deutschland. *Z. Evid. Fortbild. Qual. Gesundheitswes.* 102(2), 110-111 (2008)

Leidl, R.: Promoting economic value in public health. *Eur. J. Public Health* 18 (3), S. 216 (2008)

Lindert, J.*, Brähler, E.*, Wittig, U., Mielck, A., Priebe, S.*: Depressivität, Angst und posttraumatische Belastungsstörung bei Arbeitsmigranten, Asylbewerbern und Flüchtlingen: Systematische Übersichtsarbeit zu Originalstudien. *Psychother. Psychosom. Med. Psychol.* 58 (3-4), 109-122 (2008)

Mielck, A., Altgeld, T.*, Reisig, V.*, Kümpers, S.*: Quantitative Zielvorgaben zur Verringerung der gesundheitlichen Ungleichheit. Erfahrungen aus England und Umsetzungsmöglichkeiten in Deutschland. Dokumentation 13. bundesweiter Kongress 'Armut und Gesundheit', CD-ROM (2008)

Mielck, A., Helmert, U.: Das Arzt-Patienten-Verhältnis in der ambulanten Versorgung : Unterschiede zwischen GKV- und PKV-Versicherten. *Gesundheitsmonitor 2007: Gesundheitsversorgung und Gestaltungsoptionen aus der Perspektive von Bevölkerung und Ärzten*, Böcken, J.; Braun, B.; Amhof, R. [Hrsg.], Gütersloh : BertelsmannStiftung, 114-132 (2007)

Mielck, A., Janßen, C.*: Ein Modell zur Erklärung der gesundheitlichen Ungleichheit. *Public Health Forum* 16 (59), 4-5 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Health Economics and Health Care Management

Mielck, A.: Armut macht krank - Krankheit macht arm. Vermeidung von Scham und Stigmatisierung bei Maßnahmen zur Verringerung der gesundheitlichen Ungleichheit. Schande Armut. Stigmatisierung und Beschämung. 7.Armutskonferenz, Wien : Die Armutskonferenz. Österreichisches Netzwerk gegen Armut und soziale Ausgrenzung, 41-44 (2008)

Mielck, A.: Die Ärzte sind die natürlichen Anwälte der Armen' : Der Beitrag von Ärzten zur Verringerung der gesundheitlichen Ungleichheit. Dtsch. Med. Wochenschr. 133 (27), 1457-1460 (2008)

Mielck, A.: Regionale Unterschiede bei Gesundheit und gesundheitlicher Versorgung : Weiterentwicklung der theoretischen und methodischen Ansätze. Health Inequalities : Determinanten und Mechanismen gesundheitlicher Ungleichheit, Bauer, U.; Bittlingmayer, U.H.; Richter, M. [Hrsg.], Wiesbaden : VS Verl. für Sozialwissenschaften, 167-187 (2008)

Mielck, A.: Soziale Ungleichheit und Gesundheit in Deutschland : Die internationale Perspektive. Bundesgesundheitsbl. Gesundheitsforsch. Gesundheitsschutz 51 (3), 345-352 (2008)

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 (2008)

Neubauer, S., Holle, R., Menn, P., Grossfeld-Schmitz, M.*, Graesel, E.*: Measurement of informal care time in a study of patients with dementia. Int. Psychogeriatr. 20 (6), 1160-76 (2008)

Perz, S., Kufner, R., Holle, R.: Monitoring der Qualität von EKG-Registrierungen in Bevölkerungsbasierten Untersuchungen. Biosignalverarbeitung: Innovationen bei der Erfassung und Analyse bioelektrischer und biomagnetischer Signale. Beiträge zum Workshop 'Biosignalverarbeitung 2008', Malberg, H. et al. [Hrsg.], 168-171 (2008)

Pretzl, B.*, Kaltschmitt, J.*, Kim, T.S.*, Reitmeir, P., Eickholz, P.*: Tooth loss after active periodontal therapy. 2: tooth-related factors. J. Clin. Periodontol. 35 (2), 175-182 (2008)

Pretzl, B.*, Kim, T.S.*, Holle, H., Eickholz, P.*: Long-term results of guided tissue regeneration therapy with non-resorbable and bioabsorbable barriers. IV. A case series of infrabony defects after 10 years.. J. Periodontol. 79(8), 1491-1499 (2008)

Raible, C., Amann, S.*, Querbach, C.*: Unit-Dose-Versorgung: Auswirkungen auf Patienten- und Mitarbeiterzufriedenheit innerhalb eines Universitätsklinikum. Krankenhauspharmazie 29 (6), 207-217 (2008)

Rogowski, W.H., Hartz, S.C., John, J.H.: Clearing up the hazy road from bench to bedside : A framework for integrating the fourth hurdle into translational medicine. BMC Health Serv. Res. 8:194, 1-12 (2008)

Rückert, I.M., Böcken, J., Mielck, A.: Are German patients burdened by the practice charge for physician visits ('Praxisgebuehr')? A cross sectional analysis of socio-economic and health related factors.. BMC Health Serv. Res. 8:232, 1-13 (2008)

Rückert, I.-M., Mielck, A.: Soziale Ungleichheit beim Stillen in Deutschland : Stand der empirischen Forschung und Handlungsempfehlungen. Präw. Gesundheitsf. 3 (2), 56-66 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Health Economics and Health Care Management

Rückinger, S.* , von Kries, R.* , Pauli, S.* , Munte, A.* , Mielck, A.: Die Krebsfrüherkennungsuntersuchung für Frauen wird in Regionen mit niedrigerem Haushaltseinkommen seltener in Anspruch genommen - Analyse von Daten der Kassenärztlichen Vereinigung Bayerns. *Gesundheitswesen* 70 (7), 393-397 (2008)

Schweikert, B., Hahmann, H.* , Leidl, R.: Development and first assessment of a questionnaire for health care utilization and costs for cardiac patients. *BMC Health Serv. Res.* 8:187, 1-11 (2008)

Upadhyay, S. et al. (12 Coauthors): Exposure to ultrafine carbon particles at levels below detectable pulmonary inflammation affects cardiovascular performance in spontaneously hypertensive rats. *Part. Fibre Toxicol.* 5 (19) (2008)

von der Schulenburg, J.M.G* , Leidl, R. et al. (13 Coauthors): German recommendations on health economic evaluation: Third and updated version of the Hanover Consensus. *Value Health* 11 (4), 539-544 (2008)

von Klot, S., Mittleman, M.A.* , Dockery, D.W.* , Heier, M., Meisinger, C., Hörmann, A., Wichmann, H.-E., Peters, A.: Intensity of physical exertion and triggering of myocardial infarction : A case-crossover study. *Eur. Heart J.* 29 (15), 1881-1888 (2008)

von Lengerke, T., Wolfenstetter, S.B., John, J.: Adipositasassoziierte Versorgungsinanspruchnahme und Krankheitskosten in Deutschland. *Psychologie Forschung, Gewichtige Gene: Adipositas zwischen Prädisposition und Eigenverantwortung*, Hilbert, A.; Rief, W.; Dabrock, P. [Hrsg.], Bern : Huber, 83-101 (2008)

Ziegler, D.* , Rathmann, W.* , Dickhaus, T.* , Meisinger, C., Mielck, A., KORA Study Group: Prevalence of polyneuropathy in pre-diabetes and diabetes is associated with abdominal obesity and macroangiopathy : the MONICA/KORA Augsburg Surveys S2 and S3. *Diabetes Care* 31 (3), 464-469 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Human Genetics

Ahting, U. et al. (14 Coauthors): Neurological phenotype and reduced lifespan in heterozygous Tim23 knockout mice, the first mouse model of defective mitochondrial import.. *Biochim. Biophys. Acta*
DOI:10.1016/j.bbabi.2008.12.001 (2008)

Benussi, L.* , Binetti, G.* , Sina, E.* , Gigola, L.* , Bettecken, T.* , Meitinger, T., Ghidoni, R.*: A novel deletion in progranulin gene is associated with FTDP-17 and CBS. *Neurobiol. Aging* 29 (3), 427-435 (2008)

Bevan, S.* , Dichgans, M.* , Wiechmann, H.E., Gschwendtner, A.* , Meitinger, T., Markus, H.S.*: Genetic variation in members of the leukotriene biosynthesis pathway confer an increased risk of ischemic stroke - A replication study in two independent populations. *Stroke* 39 (4), 1109-1114 (2008)

Bouatia-Naji, N.* , Lichtner, P. et al. (13 Coauthors): INS VNTR is not associated with childhood obesity in 1,023 families: a family-based study. *Obesity (Silver Spring)* 16 (6), 1471-1475 (2008)

Collin, R.W.* , Strom, T.M.* et al. (10 Coauthors): Identification of a 2 Mb human ortholog of *Drosophila* eyes shut/spacemaker that is mutated in patients with retinitis pigmentosa.. *Am. J. Hum. Genet.* 83(5), 594-603 (2008)

Collin, R.W.J.* , Strom, T.M. et al. (10 Coauthors): Mid-frequency DFNA8/12 hearing loss caused by a synonymous TECTA mutation that affects an exonic splice enhancer. *Eur. J. Hum. Genet.* 16 (12), 1430-1436 (2008)

Döring, A. et al. (17 Coauthors): SLC2A9 influences uric acid concentrations with pronounced sex-specific effects. *Nat. Genet.* 40 (4), 430-436 (2008)

Elstner, M., Andreoli, C.* , Ahting, U., Tetko, I., Klopstock, T.* , Meitinger, T., Prokisch, H.: MitoP2: An Integrative Tool for the Analysis of the Mitochondrial Proteome. *Mol. Biotechnol.* 40 (3), 306-315 (2008)

Fatar, M.* , Lichtner, P. et al. (12 Coauthors): Single-nucleotide polymorphisms of MMP-2 gene in stroke subtypes. *Cerebrovasc. Dis.* 26 (2), 113-119 (2008)

Favor, J., Gloeckner, C.J., Neuhäuser-Klaus, A., Pretsch, W., Sandulache, R., Saule, S.* , Zaus, I.: Relationship of Pax6 activity levels to the extent of eye development in the mouse, *Mus musculus*. *Genetics* 179 (3), 1345-1355 (2008)

Ganguly, K. et al. (10 Coauthors): Novel allele of Crybb2 in the mouse and its expression in the brain. *Invest. Ophthalmol. Vis. Sci.* 49 (4), 1533-1541 (2008)

Gibson, J.* , Pfeufer, A. et al. (10 Coauthors): A multimetric approach to analysis of genome-wide association by single markers and composite likelihood. *Proc. Natl. Acad. Sci. U.S.A.* 105 (7), 2592-2597 (2008)

Gieger, C. et al. (11 Coauthors): Genetics meets metabolomics: a genome-wide association study of metabolite profiles in human serum. *PLoS Genet.* 4 (11):e1000282, 1-12 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Human Genetics

Gschwendtner, A.* , Ripke, S.* , Freilinger, T.* , Lichtner, P., Müller-Myhsok, B.* , Wichmann, H.-E., Meitinger, T., Dichgans, M.*: Genetic variation in soluble epoxide hydrolase (EPHX2) is associated with an increased risk of ischemic stroke in white Europeans. *Stroke* 39 (5), 1593-1596 (2008)

Hinterseer, M.* , Thomsen, M.B.* , Beckmann, B.M.* , Pfeufer, A., Schimpf, R.* , Wichmann, H.-E., Steinbeck, G.* , Vos, M.A.* , Kaab, S.*: Beat-to-beat variability of QT intervals is increased in patients with drug-induced long-QT syndrome: a case control pilot study. *Eur. Heart J.* 29 (2), 185-190 (2008)

Hölter, S.M. et al. (14 Coauthors): Sighted C3H' mice - a tool for analysing the influence of vision on mouse behaviour? *Front. Biosci.* 13, 5810-5823 (2008)

Kemlink, D. et al. (17 Coauthors): Suggestive evidence for linkage for restless legs syndrome on chromosome 19p13. *Neurogenetics* 9 (2), 75-82 (2008)

Koolen, D.A.* , Strom, T.M. et al. (47 Coauthors): Clinical and molecular delineation of the 17q21.31 microdeletion syndrome. *J. Med. Genet.* DOI:10.1136/jmg.2008.058701 (2008)

Kuhn, K.A.* , Mewes, H.-W. et al. (31 Coauthors): Informatics and medicine--from molecules to populations. *Methods Inf. Med.* 47 (4), 283-295 (2008)

Lieb, W.* , Döring, A. et al. (15 Coauthors): Lack of association between the MEF2A gene and myocardial infarction. *Circulation* 117 (2), 185-191 (2008)

Linsel-Nitschke, P.* , Lamina, C. et al. (32 Coauthors): Lifelong reduction of LDL-cholesterol related to a common variant in the LDL-receptor gene decreases the risk of coronary artery disease--a Mendelian Randomisation study. *PLoS ONE* 3 (8):e2986, 1-9 (2008)

Loos, R.J.F.* , Heid, I.M. et al. (108 Coauthors): Common variants near MC4R are associated with fat mass, weight and risk of obesity. *Nat. Genet.* 40 (6), 768-775 (2008)

Lücking, C.B.* , Lichtner, P., Dichgans, M.* , Illig, T., Gieger, C., Berg, D.* , Gasser, T.*: Polymorphisms in the proteasomal subunit alpha4 are not associated with Parkinson's disease. *J. Neurol.* 255 (3), 441-442 (2008)

Lyoo, C.H.* , Prokisch, H., Meitinger, T., Lee, S.Y.* , Kim, do H.* , Lee, M.S.*: Anticholinergic-responsive gait freezing in a patient with pantothenate kinase-associated neurodegeneration. *Mov. Disord.* 23 (2), 283-284 (2008)

Müller, T.D.* , Lichtner, P. et al. (13 Coauthors): Lack of association of genetic variants in genes of the endocannabinoid system with anorexia nervosa. *Child Adolesc. Psychiatry Ment. Health* 2 (33) (2008)

Prestel, J.* , Prokisch, H. et al. (11 Coauthors): Clinical and molecular characterisation of a Parkinson family with a novel PINK1 mutation. *J. Neurol.* 255 (5), 643-648 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Human Genetics

Ramser, J.* , Lichtner, P. et al. (11 Coauthors): Rare missense and synonymous variants in UBE1 are associated with X-linked infantile spinal muscular atrophy. *Am. J. Hum. Genet.* 82 (1), 188-193 (2008)

Sarioglu, H., Brandner, S., Habegger, M., Jacobsen, C., Lichtmanegger, J., Wormke, M., Andrae, U.: Analysis of 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced proteome changes in 5L rat hepatoma cells reveals novel targets of dioxin action including the mitochondrial apoptosis regulator VDAC2. *Mol. Cell. Proteomics* 7 (2), 394-410 (2008)

Schormair, B. et al. (31 Coauthors): PTPRD (protein tyrosine phosphatase receptor type delta) is associated with restless legs syndrome. *Nat. Genet.* 40 (8), 946-948 (2008)

Schunkert, H.* , Wichmann, H.-E. et al. (33 Coauthors): Repeated replication and a prospective meta-analysis of the association between chromosome 9p21.3 and coronary artery disease. *Circulation* 117 (13), 1675-1684 (2008)

Sedlacek, K.* , Pfeufer, A. et al. (11 Coauthors): Common genetic variants in ANK2 modulate QT interval: Results from the KORA study. *Circ. Cardiovasc. Genet.* 1 (2), 93-99 (2008)

Sinner, M.F.* , Pfeufer, A. et al. (15 Coauthors): The non-synonymous coding IKr-channel variant KCNH2-K897T is associated with atrial fibrillation: Results from a systematic candidate gene-based analysis of KCNH2 (HERG). *Eur. Heart J.* 29 (7), 907-914 (2008)

Stogmann, E.* , Wagenstaller, J. et al. (12 Coauthors): A novel mutation in the MFSD8 gene in late infantile neuronal ceroid lipofuscinosis. *Neurogenetics* 10 (1), 73-77 (2008)

Strom, T.M., Jüppner, H.* : PHEX, FGF23, DMP1 and beyond. *Curr. Opin. Nephrol. Hypertens.* 17 (4), 357-362 (2008)

Watanabe, H.* , Pfeufer, A. et al. (18 Coauthors): Sodium channel beta1 subunit mutations associated with Brugada syndrome and cardiac conduction disease in humans. *J. Clin. Invest.* 118 (6), 2260-2268 (2008)

Weidinger, S. et al. (30 Coauthors): Genome-wide scan on total serum IgE levels identifies FCER1A as novel susceptibility locus. *PLoS Genet.* 4 (8):e1000166, 1-9 (2008)

Wermter, A.-K.* , Lichtner, P. et al. (13 Coauthors): Preferential reciprocal transfer of paternal/maternal DLK1 alleles to obese children : first evidence of polar overdominance in humans. *Eur. J. Hum. Genet.* 16 (9), 1126-1134 (2008)

Winkelmann, J. et al. (18 Coauthors): Variants in the neuronal nitric oxide synthase (nNOS, NOS1) gene are associated with restless legs syndrome. *Mov. Disord.* 23 (3), 350-358 (2008)

Wjst, M., Lichtner, P., Meitinger, T., Grimbacher, B.* : STAT3 single-nucleotide polymorphisms and STAT3 mutations associated with hyper-IgE syndrome are not responsible for increased serum IgE serum levels in asthma familie. *Eur. J. Hum. Genet.* DOI:10.1038/ejhg.2008.169 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Human Genetics

Yang, P.*, Koopmann, T.T.*, Pfeufer, A., Jalilzadeh, S., Schulze-Bahr, E.*, Kääh, S.*, Wilde, A.A.*, Roden, D.M.*, Bezzina, C.R.*: Polymorphisms in the cardiac sodium channel promoter displaying variant in vitro expression activity. *Eur. J. Hum. Genet.* 16 (3), 350-357 (2008)

Zimprich, F.*, Stogmann, E.*, Bonelli, S.*, Baumgartner, C.*, Mueller, J.C.*, Meitinger, T., Zimprich, A.*, Strom, T.M.: A functional polymorphism in the SCN1A gene is not associated with carbamazepine dosages in Austrian patients with epilepsy. *Epilepsia* 49 (6), 1108-1109 (2008)

Zirn, B.*, Hempel, M.*, Hahn, A.*, Neubauer, B.*, Wagenstaller, J., Rivera-Brugues, N., Strom, T. M., Koehler, A.*: Polyneuropathy, Scoliosis, Tall Stature, and Oligodontia Represent Novel Features of the interstitial 6p Deletion Phenotype. *Am. J. Med. Genet. A* 146A, 2960-2965 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Inhalation Biology

Albrecht, V., Hofer, T.P.J., Foxwell, B.*, Frankenberger, M., Ziegler-Heitbrock, L.: Tolerance induced via TLR2 and TLR4 in human dendritic cells: role of IRAK-1. *BMC Immunol.* 9:69 (2008)

Alessandrini, F., Semmler-Behnke, M., Jakob, T.*, Schulz, H., Behrendt, H., Kreyling, W.: Total and regional deposition of ultrafine particles in a mouse model of allergic inflammation of the lung. *Inhal. Toxicol.* 20 (6), 585-593 (2008)

Andreae, M.O.*, Schmid, O., Yang, H.*, Chand, D.*, Yu, J.Z.*, Zeng, L.-M.*, Zhang, Y.-H.*: Optical properties and chemical composition of the atmospheric aerosol in urban Guangzhou, China. *Atmos. Environ.* 42 (25), 6335-6350 (2008)

Bolle, I., Eder, G., Takenaka, S., Ganguly, K., Karrasch, S., Zeller, C., Neuner, M., Kreyling, W.G., Tsuda, A.*, Schulz, H.: Postnatal lung function in the developing rat. *J. Appl. Physiol.* 104 (4), 1167-1176 (2008)

Burke, B.*, Ahmad, R.*, Staples, K.J.*, Snowden, R.*, Kadioglu, A.*, Frankenberger, M., Hume, D.A.*, Ziegler-Heitbrock, L.: Increased TNF expression in CD43(++) murine blood monocytes. *Immunol. Lett.* 118 (2), 142-147 (2008)

Cerveri, I.*, Heinrich, J. et al. (16 Coauthors): Underestimation of airflow obstruction among young adults using FEV1/FVC <70% as a fixed cut-off : a longitudinal evaluation of clinical and functional outcomes. *Thorax* 63 (12), 1040-1045 (2008)

Dellinger, B.*, Stoeger, T. et al. (18 Coauthors): Combustion Byproducts and Their Health Effects : Summary of the 10th International Congress. *Environ. Eng. Sci.* 25 (8), 1107-1114 (2008)

Denham, S.*, Koppelman, G.H.*, Blakey, J.*, Wjst, M., Ferreira, M.A.*, Hall, I.P.*, Sayers, I.*: Meta-analysis of genome-wide linkage studies of asthma and related traits. *Respir. Res.* 9:38, 1-12 (2008)

Fertl, A.*, Menzel, M.*, Hofer, T.P., Morresi-Hauf, A.*, Ziegler-Heitbrock, L., Frankenberger, M.: Monitoring of glucocorticoid therapy by assessment of CD14(+)/CD16(+) monocytes : A case report. *Immunobiology* 213 (9-10), 909-916 (2008)

Frankenberger, M., Schwaeble, W.*, Ziegler-Heitbrock, L.: Expression of M-Ficolin in human monocytes and macrophages. *Mol. Immunol.* 45 (5), 1424-1430 (2008)

Ganguly, K., Schulz, H.: Association studies of lung function in mice. *Dtsch. Tierarztl. Wochenschr.* 115 (7), 276-284 (2008)

Garland, R.M.*, Schmid, O. et al. (16 Coauthors): Aerosol optical properties in a rural environment near the mega-city Guangzhou, China : Implications for regional air pollution, radiative forcing and remote sensing. *Atmos. Chem. Phys.* 8 (17), 5161-5186 (2008)

Geiser, M.*, Casaulta, M.*, Kupferschmid, B.*, Schulz, H., Semmler-Behnke, M., Kreyling, W.: The role of macrophages in the clearance of inhaled ultrafine titanium dioxide particles. *Am. J. Respir. Cell Mol. Biol.* 38 (3), 371-376 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Inhalation Biology

Gerstmann, U.C., Szymczak, W., Höllriegl, V., Li, W.B., Roth, P., Schramel, P., Takenaka, S., Oeh, U.: Investigations on the solubility of corrosion products on depleted uranium projectiles by simulated body fluids and the consequences on dose assessment. *Radiat. Environ. Biophys.* 47 (2), 205-212 (2008)

Hofer, T.P.J., Frankenberger, M., Mages, J.*, Lang, R.*, Hoffmann, R.*, Colige, A.*, Ziegler-Heitbrock, L.: Tissue-specific induction of ADAMTS2 in monocytes and macrophages by glucocorticoids. *J. Mol. Med.* 86 (3), 323-332 (2008)

Hungerschofer, K.*, Zeromskiene, K.*, Iinuma, Y.*, Helas, G.*, Trentmann, J.*, Trautmann, T.*, Parmar, R.S.*, Wiedensohler, A.*, Andrae, 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.* 8 (13), 3427-3439 (2008)

Karrasch, S., Holz, C.*, Jörres, R.A.*: Aging and induced senescence as factors in the pathogenesis of lung emphysema. *Respir. Med.* 102 (9), 1215-1230 (2008)

Maier, K.L. et al. (15 Coauthors): Health effects of ambient particulate matter--biological mechanisms and inflammatory responses to in vitro and in vivo particle exposures. *Inhal. Toxicol.* 20 (3), 319-337 (2008)

Mascalzoni, D.*, Hicks, A.*, Pramstaller, P.*, Wjst, M.: Informed consent in the genomics era. *PLoS Med.* 5 (9):e192, 1-4 (2008)

Möller, W., Felten, K., Sommerer, K.*, Scheuch, G.*, Meyer, G.*, Meyer, P., Häussinger, K.*, Kreyling, W.G.: Deposition, retention, and translocation of ultrafine particles from the central airways and lung periphery. *Am. J. Respir. Crit. Care Med.* 177 (4), 426-432 (2008)

Möller, W., Meyer, G.*, Kreyling, W.G.: Advances in lung imaging techniques for the treatment of respiratory disease. *Drug Discov. Today* 5 (2), 87-92 (2008)

Möller, W., Meyer, G.*, Seitz, J.*, Kreyling, W.G.: Corrections of Planar Gamma Camera Dose Assessment of 99mTc Radiolabelled Aerosol Particles Targeted to Central Human Airways. *Respiratory Drug Delivery 2008*, Dalby, R.N. et al. [Eds.], 549-552 (2008)

Möller, W., Schuschnig, U.*, Meyer, G.*, Mentzel, H.*, Keller M.*: Human Nasal DTPA Clearance and Systemic Absorption after Pulsating Aerosol Delivery using the Pari Sinus. *Respiratory Drug Delivery 2008*, Dalby, R.N. et al. [Eds.], 553-556 (2008)

Möller, W., Schuschnig, U.*, Meyer, G.*, Mentzel, H.*, Keller, M.*: Ventilation and drug delivery to the paranasal sinuses : Studies in a nasal cast using pulsating airflow. *Rhinology* 46 (3), 213-220 (2008)

Pitz, M., Birmili, W.*, Schmid, O., Peters, A., Wichmann, H.-E., Cyrys, J.: Quality control and quality assurance for particle size distribution measurements at an urban monitoring station in Augsburg, Germany. *J. Environ. Monit.* 10 (9), 1017-1024 (2008)

Pitz, M., Schmid, O., Heinrich, J., Birmili, W.*, Maguhn, J., Zimmermann, R., Wichmann, H.-E., Peters, A., Cyrys, J.: Seasonal and diurnal variation of PM2.5 apparent particle density in urban air in Augsburg, Germany. *Environ. Sci. Technol.* 42 (14), 5087-5093 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Inhalation Biology

Real, F.G.*, Wjst, M. et al. (13 Coauthors): Lung function, respiratory symptoms, and the menopausal transition. *J. Allergy Clin. Immunol.* 121 (1), 72-80 (2008)

Scheuch, G., Kohlhäufel, M.*, Möller, W., Brand, P., Meyer, T., Häussinger, K.*, Sommerer, K., Heyder, J.: Particle clearance from the airways of subjects with bronchial hyperresponsiveness and with chronic obstructive pulmonary disease. *Exp. Lung Res.* 34(9), 531-549 (2008)

Schmid, O., Bolle, I., Harder, V., Karg, E., Takenaka, S., Schulz, H., Ferron, G.A.: Model for the deposition of aerosol particles in the respiratory tract of the rat. I. Nonhygroscopic particle deposition. *J. Aerosol Med. Pulm. Drug Deliv.* 21 (3), 291-307 (2008)

Semmler-Behnke, M., Kreyling, W.G., Lipka, J.*, Fertsch, S., Wenk, A., Takenaka, S., Schmid, G.*, Brandau, W.*: Biodistribution of 1.4- and 18nm Gold Particles in Rats. *Small* 4 (12), 2108-2111 (2008)

Shaaban, R.*, Heinrich, J. et al. (13 Coauthors): Rhinitis and onset of asthma : a longitudinal population-based study. *Lancet* 372 (9643), 1049-1057 (2008)

Söker, T. et al. (27 Coauthors): Pleiotropic effects in Eya3 knockout mice. *BMC Dev. Biol.* 8 (1):118 (2008)

Svanes, C.*, Wjst, M. et al. (11 Coauthors): Long-term reliability in reporting of childhood pets by adults interviewed twice, 9 years apart. Results from the European Community Respiratory Health Survey I and II. *Indoor Air* 18 (2), 84-92 (2008)

Tian, F., Hosseinkhani, H.*, Hosseinkhani, M.*, Khademhosseini, A.*, Yokoyama, Y.*, Estrada, G.G.*, Kobayashi, H.*: Quantitative analysis of cell adhesion on aligned micro- and nanofibers. *J. Biomed. Mater. Res. A* 84 (2), 291-299 (2008)

Tian, F., Prina-Mello, A.*, Estrada, G., Beyerle, A., Möller, W., Schulz, H., Kreyling, W., Stoeger, T.: A novel assay for the quantification of internalized nanoparticles in macrophages. *Nanotoxicology* 2(4), 232-242 (2008)

Unterberger, C. et al. (12 Coauthors): Role of STAT3 in glucocorticoid-induced expression of the human IL-10 gene. *Mol. Immunol.* 45 (11), 3230-3237 (2008)

Upadhyay, S. et al. (12 Coauthors): Exposure to ultrafine carbon particles at levels below detectable pulmonary inflammation affects cardiovascular performance in spontaneously hypertensive rats. Part. *Fibre Toxicol.* 5 (19) (2008)

Wjst, M., Lichtner, P., Meitinger, T., Grimbacher, B.*: STAT3 single-nucleotide polymorphisms and STAT3 mutations associated with hyper-IgE syndrome are not responsible for increased serum IgE serum levels in asthma familie. *Eur. J. Hum. Genet.* DOI:10.1038/ejhg.2008.169 (2008)

Wjst, M.: Allergy risk of vitamin D supplements has been described in various settings. *J. Allergy Clin. Immunol.* 121 (4), 1065-1066 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Inhalation Biology

Wjst, M.: Margarine : a supplement may be decisive. Thorax 63 (5), S. 474 (2008)

Wjst, M.: ORMDL3 - guilt by association? Clin. Exp. Allergy 38 (10), 1579-1581 (2008)

Yue, W., Stölzel, M., Cyrus, J., Pitz, M., Heinrich, J., Kreyling, W.G., Wichmann, H.-E., Peters, A., Wang, S.*, Hopke, PK.*: Source apportionment of ambient fine particle size distribution using positive matrix factorization in Erfurt, Germany. Sci. Total Environ. 398 (1-3), 133-144 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Biological and Medical Imaging

Deliolanis, N.C.*, Kasmieh, R.*, Wurdinger, T.*, Tannous, B.A.*, Shah, K.*, Ntziachristos, V.: Performance of the red-shifted fluorescent proteins in deep-tissue molecular imaging applications. *J. Biomed. Opt.* 13 (4), 0440081-0440089 (2008)

Demski, H., Waegemann, P.*, Engelbrecht, R.: Der amerikanische CCR Standard - Impulse für Kontinuität in der medizinischen Dokumentation. Brückenschlag von Medizinischer Informatik, Biometrie und Epidemiologie zur Medizintechnik. 53. Jahrestagung der Deutschen Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie e. V. (GMDS), Düsseldorf : German Medical Science, 93-94 (2008)

Engelbrecht, R. et al. (11 Coauthors): Electronic Health Record - Quality Labelling, Certification and Beyond. *eHealth Conference 2007*, : Nanos-Verl., 47-48 (2008)

Engelbrecht, R.: Die Gesundheitsakte: eine Basis für die gute Behandlung von Patienten. *Koch-Metschnikow-Journal* 3/2008, 12-14 (2008)

Englmeier, K.-H., Seemann, M.D.*: Multimodal virtual bronchoscopy using PET/CT images. *Comput. Aided Surg.* 13 (2), 106-113 (2008)

Haller, J.*, Hyde, D.*, Deliolanis, N.*, de Kleine, R.*, Niedre, M.*, Ntziachristos, V.: Visualization of pulmonary inflammation using noninvasive fluorescence molecular imaging. *J. Appl. Physiol.* 104 (3), 795-802 (2008)

Hildebrand, C., Demski, H., Pharow, P.*: The need for security and identity management standards in eHealth. *Hospital Healthcare Europe* ; 8 (2007)

Hildebrand, C., Demski, H., Pharow, P., Hovsto, A.*, Engelbrecht, R.: Sicherheitsstandards und innovative Technologien in eHealth – das EU-Projekt BioHealth. Brückenschlag von Medizinischer Informatik, Biometrie und Epidemiologie zur Medizintechnik. 53. Jahrestagung der Deutschen Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie e. V. (GMDS), Düsseldorf : German Medical Science, 235-237 (2008)

Hildebrand, C., Pharow, P.*, Blobel, B.*: The role of patients and their health cards in integrated eHealth environments. *Stud. Health Technol. Inform.* 136, 629-634 (2008)

Jaffer, F.A.*, Vinegoni, C.*, John, M.C.*, Aikawa, E.*, Gold, H.K.*, Finn, A.V.*, Ntziachristos, V., Libby, P.*, Weissleder, R.*: Real-time catheter molecular sensing of inflammation in proteolytically active atherosclerosis. *Circulation* 118 (18), 1802-1809 (2008)

Kalivyanskaya, T.A.*, Kamalynova, E.*, Sizov, E.*, Deev, I.A.*, Astrelina, J.I.*, Salnikov, V.A.*, Engelbrecht, R., Ogorodova, L.M.*: DISPAN - eHealth-Unterstützung bei der Gesundheitsversorgung der Region Tomsk. *Koch-Metschnikow-Journal* 3/2008, 15-17 (2008)

Niedre, M.*, Ntziachristos, V.: Elucidating structure and function in vivo with hybrid fluorescence and magnetic resonance imaging. *Proc. IEEE Inst. Electr. Electron. Eng.* 96 (3), 382-392 (2008)

Niedre, M.J.*, de Kleine, R.H.*, Aikawa, E.*, Kirsch, D.G.*, Weissleder, R.*, Ntziachristos, V.: Early photon tomography allows fluorescence detection of lung carcinomas and disease progression in mice in vivo. *Proc. Natl. Acad. Sci. U.S.A.* 105 (49), 19126-19131 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Biological and Medical Imaging

Perz, S., Kufner, R., Holle, R.: Monitoring der Qualität von EKG-Registrierungen in Bevölkerungsbasierten Untersuchungen. Biosignalverarbeitung: Innovationen bei der Erfassung und Analyse bioelektrischer und biomagnetscher Signale. Beiträge zum Workshop 'Biosignalverarbeitung 2008', Malberg, H. et al. [Hrsg.], 168-171 (2008)

Pharow, P.*, Blobel, B.*, Hildebrand, C.: How can the German Electronic Health Card support patient's role in care management. Studies in health technology and informatics, Medical and care compunetics 5, Bos, L. et al. (Ed.), Amsterdam : IOS Press, 386-401 (2008)

Pharow, P.*, Cheshire, P.*, Hildebrand, C., Trpisovsky, T.*: Personalization in eHealth: The Transition from Cards to Portable Devices for Personalized Health Services. eHealth Beyond the Horizon - Get IT There; Proceedings of MIE 2008, The XXIst International Congress of the European Federation for Medical Informatics, Andersen, S.K. et al. [Eds.], Amsterdam, Netherlands : IOS Press (2008)

Razansky, D., Einziger, P.D.*, Adam, D.*: Cavity plasmon resonance biosensing. IEEE Trans. Nanotechnol. 7 (5), 580-585 (2008)

Razansky, D., Ntziachristos, V.: Fluorescence Molecular Tomography using a-priori Photoacoustic data. Photons Plus Ultrasound: Imaging and Sensing 2008: The Ninth Conference on Biomedical Thermoacoustics, Optoacoustics, and Acousto-optics; Proc. SPIE, Oraevsky, A.A.; Wang, L.V. [Eds.], Bellingham, WA : International Society for Optical Engineering, 68561

Razansky, D., Vinegoni, C.*, Ntziachristos, V.: Multi-spectral photo-acoustic molecular tomography resolves fluorochrome distribution with high resolution and sensitivity in small animals. Photons Plus Ultrasound: Imaging and Sensing 2008: The Ninth Conference on Biomedical Thermoacoustics, Optoacoustics, and Acousto-optics; Proc. SPIE, Oraevsky, A.A.; Wang, L.V. [Eds.], Bellingham, WA : International Society for Optical Engineering, 68561

Razansky, D., Vinegoni, C.*, Ntziachristos, V.: Polarization-sensitive optoacoustic tomography of optically diffuse tissues. Opt. Lett. 33 (20), 2308-2310 (2008)

Ripoll, J.*, Ntziachristos, V., Cannet, C.*, Babin, A.L.*, Kneuer, R.*, Gremlich, H.U.*, Beckmann, N.*: Investigating pharmacology in vivo using magnetic resonance and optical imaging. Drugs R D 9 (5), 277-306 (2008)

Schulz, R.B., Semmler, W.*: Fundamentals of Optical Imaging. Handbook of Experimental Pharmacology, Volume 185/1, Molecular Imaging I, Semmler, W.; Schwaiger, M. [Eds.], Berlin; Heidelberg : Springer, 3-22 (2008)

Sedlacek, K.*, Pfeufer, A. et al. (11 Coauthors): Common genetic variants in ANK2 modulate QT interval: Results from the KORA study. Circ. Cardiovasc. Genet. 1 (2), 93-99 (2008)

Sinner, M.F.*, Pfeufer, A. et al. (15 Coauthors): The non-synonymous coding IKr-channel variant KCNH2-K897T is associated with atrial fibrillation: Results from a systematic candidate gene-based analysis of KCNH2 (HERG). Eur. Heart J. 29 (7), 907-914 (2008)

Soloviev, V.Y.*, D'Andrea, C.*, Brambilla, M.*, Valentini, G.*, Schulz, R.B., Cubeddu, R.*, Arridge, S.R.*: Adjoint time domain method for fluorescent imaging in turbid media. Appl. Opt. 47 (13), 2303-2311 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Biological and Medical Imaging

Themelis, G., Yoo, J.S., Ntziachristos, V.: Multispectral imaging using multiple-bandpass filters. *Opt. Lett.* 33 (9), 1023-1025 (2008)

Vinegoni, C.* , Pitsouli, C.* , Razansky, D., Perrimon, N.* , Ntziachristos, V.: In vivo imaging of *Drosophila melanogaster* pupae with mesoscopic fluorescence tomography. *Nat. Methods* 5 (1), 45-47 (2008)

von Eisenhart-Rothe, R.* , Müller-Gerbl, M.* , Wiedemann, E.* , Englmeier, K.-H., Graichen, H.*: Functional malcentering of the humeral head and asymmetric long-term stress on the glenoid: potential reasons for glenoid loosening in total shoulder arthroplasty. *J. Shoulder Elbow Surg.* 17 (5), 695-702 (2008)

Ziegler, D.* , Zentai, C.P.* , Perz, S., Rathmann, W.* , Haastert, B.* , Döring, A., Meisinger, C., KORA Study Group: Prediction of mortality using measures of cardiac autonomic dysfunction in the diabetic and nondiabetic population: the MONICA/KORA Augsburg Cohort Study. *Diabetes Care* 31 (3), 556-561 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Molecular Immunology

Ansel, K.M.*, Glasmacher, E. et al. (14 Coauthors): Mouse Eri1 interacts with the ribosome and catalyzes 5.8S rRNA processing. *Nat. Struct. Mol. Biol.* 15 (5), 523-530 (2008)

Arakawa, H., Kudo, H., Batrak, V., Caldwell, R.B., Rieger, M.A., Ellwart, J.W., Buerstedde J.M.: Protein evolution by hypermutation and selection in the B cell line DT40. *Nucleic Acids Res.* 36 (1):e1, 1-11 (2008)

Banjac, A. et al. (11 Coauthors): The cystine/cysteine cycle: a redox cycle regulating susceptibility versus resistance to cell death. *Oncogene* 27 (11), 1618-1628 (2008)

Barth, S.*, Pfuhl, T.*, Mamiani, A.*, Ehses, C.*, Roemer, K.*, Kremmer, E., Jäker, C.*, Höck, J.*, Meister, G.*, Grässer, F.A.*: Epstein-Barr virus-encoded microRNA miR-BART2 down-regulates the viral DNA polymerase BALF5. *Nucleic Acids Res.* 36 (2), 666-675 (2008)

Bauer, M., Kinkl, N., Meixner, A., Kremmer, E., Riemenschneider, M.*, Förstl, H.*, Gasser, T.*, Ueffing, M.: Prevention of interferon-stimulated gene expression using microRNA-designed hairpins. *Gene Ther.* DOI: 10.1038/gt.2008.123 (2008)

Bendz, H., Marincek, B.C.*, Momburg, F.*, Ellwart, J.W., Issels, R.D., Nelson, P.J.*, Noessner, E.: Calcium signaling in dendritic cells by human or mycobacterial Hsp70 is caused by contamination and is not required for Hsp70-mediated enhancement of cross-presentation. *J. Biol. Chem.* 283 (39), 26477-26483 (2008)

Berberich, S.*, Dähne, S.*, Schippers, A.*, Peters, T.*, Müller, W.*, Kremmer, E., Förster, R.*, Pabst, O.*: Differential molecular and anatomical basis for B cell migration into the peritoneal cavity and omental milky spots. *J. Immunol.* 180 (4), 2196-2203 (2008)

Bigalke, B.*, Geisler, T.*, Stellos, K.*, Langer, H.*, Daub, K.*, Kremmer, E., Seizer, P.*, May, A.E.*, Lindemann, S.*, Gawaz, M.*: Platelet collagen receptor glycoprotein VI as a possible novel indicator for the acute coronary syndrome. *Am. Heart J.* 156(1), 193-200 (2008)

Bleifuss, E. et al. (11 Coauthors): Differential capacity of chaperone-rich lysates in cross-presenting human endogenous and exogenous melanoma differentiation antigens. *Int. J. Hyperthermia* 24 (8), 623-637 (2008)

Boeck, S.*, Wilkowski, R.*, Bruns, C.J.*, Issels, R.D., Schulz, C.*, Moosmann, N.*, Laessig, D.*, Haas, M.*, Golf, A.*, Heinemann, V.*: Oral capecitabine in gemcitabine-pretreated patients with advanced pancreatic cancer. *Oncology* 73 (3-4), 221-227 (2007)

Butterfield, L.H.*, Schendel, D. et al. (36 Coauthors): A systematic approach to biomarker discovery; preamble to "the iSBTc-FDA taskforce on immunotherapy biomarkers". *J. Transl. Med.* 6 (81) (2008)

Cho, C.H.*, Wust, P.*, Hildebrandt, B.*, Issels, R.D., Sehoul, J.*, Kerner, T.*, Deja, M.*, Budach, V.*, Gellermann, J.*: Regional hyperthermia of the abdomen in conjunction with chemotherapy for peritoneal carcinomatosis : Evaluation of two annular-phased-array applicators. *Int. J. Hyperthermia* 24 (5), 399-408 (2008)

Du, T.G.*, Jellbauer, S.*, Müller, M., Schmid, M.*, Niessing, D., Jansen, R.P.*: Nuclear transit of the RNA-binding protein She2 is required for translational control of localized ASH1 mRNA. *EMBO Rep.* 9 (8), 781-787 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Molecular Immunology

Ebelt, K., Babaryka, G.*, Figel, A.M., Pohla, H., Buchner, A.*, Stief, C.G.*, Eisenmenger, W.*, Kirchner, T.*, Schendel, D.J., Noessner, E.: Dominance of CD4+ lymphocytic infiltrates with disturbed effector cell characteristics in the tumor microenvironment of prostate carcinoma. *Prostate* 68 (1), 1-10 (2008)

Ege, M. J.*, Krauss-Etschmann, S. et al. (14 Coauthors): Specific IgE to allergens in cord blood is associated with maternal immunity to *Toxoplasma gondii* and rubella virus. *Allergy* 63(11), 1505-1511 (2008)

Ege, M.J.*, Krauss-Etschmann, S. et al. (14 Coauthors): Prenatal exposure to a farm environment modifies atopic sensitization at birth. *J. Allergy Clin. Immunol.* 122 (2), 407-412 (2008)

El-Gogo, S.*, Flach, B.*, Staib, C.*, Sutter, G.*, Adler, H.: In vivo attenuation of recombinant murine gammaherpesvirus 68 (MHV-68) is due to the expression and immunogenicity but not to the insertion of foreign sequences. *Virology* 380, 322-327 (2008)

El-Gogo, S.*, Staib, C., Lasarte, J.J.*, Sutter, G.*, Adler H.: Protective vaccination with hepatitis C virus NS3 but not core antigen in a novel mouse challenge model. *J. Gene Med.* 10 (2), 177-186 (2008)

Fedorova, E.*, Sadoni, N.*, Dahlsveen, I.K.*, Koch, J.*, Kremmer, E., Eick, D., Paro, R.*, Zink, D.*: The nuclear organization of Polycomb/Trithorax group response elements in larval tissues of *Drosophila melanogaster*. *Chromosome Res.* 16 (4), 649-673 (2008)

Fiegl, M.*, Lindner, L.H., Juergens, M.*, Eibl, H.*, Hiddemann, W., Braess, J.*: Erufosine, a novel alkylphosphocholine, in acute myeloid leukemia : Single activity and combination with other antileukemic drugs. *Cancer Chemother. Pharmacol.* 62 (2), 321-329 (2008)

Fluher, R.*, Kremmer, E. et al. (11 Coauthors): Intramembrane proteolysis of GXGD-type aspartyl proteases is slowed by a familial Alzheimer disease-like mutation. *J. Biol. Chem.* 283 (44), 30121-30128 (2008)

Fröhlich Archangelo, L. et al. (11 Coauthors): The CALM and CALM/AF10 interactor CATS is a marker for proliferation. *Mol. Oncol.* 2, 356-367 (2008)

Greif, P.A., Tizazu, B.*, Krause, A., Kremmer, E., Bohlander, S.K.: The leukemogenic CALM/AF10 fusion protein alters the subcellular localization of the lymphoid regulator Ikaros. *Oncogene* 27 (20), 2886-2896 (2008)

Guggemoos, S., Hangel, D.*, Hamm, S.*, Heit, A.*, Bauer, S., Adler, H.: TLR9 contributes to antiviral immunity during gammaherpesvirus infection. *J. Immunol.* 180 (1), 438-443 (2008)

Hammerschmidt, S.I.*, Ahrendt, M.*, Bode, U.*, Wahl, B.*, Kremmer, E., Förster, R.*, Pabst, O.*: Stromal mesenteric lymph node cells are essential for the generation of gut-homing T cells in vivo. *J. Exp. Med.* 205 (11), 2483-2490 (2008)

Härtl, B.*, Zeller, T.*, Blanchette, P.*, Kremmer, E., Dobner, T.*: Adenovirus type 5 early region 1B 55-kDa oncoprotein can promote cell transformation by a mechanism independent from blocking p53-activated transcription. *Oncogene* 27 (26), 3673-3684 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Molecular Immunology

Hartl, D. et al. (12 Coauthors): Infiltrated Neutrophils Acquire Novel Chemokine Receptor Expression and Chemokine Responsiveness in Chronic Inflammatory Lung Diseases. *J. Immunol.* 181 (11), 8053-8067 (2008)

Harzheim, D.*, Pfeiffer, K.H.*, Fabritz, L.*, Kremmer, E., Buch, T.*, Waisman, A.*, Kirchhof, P.*, Kaupp, U.B.*, Seifert, R.*: Cardiac pacemaker function of HCN4 channels in mice is confined to embryonic development and requires cyclic AMP. *EMBO J.* 27 (4), 692-703 (2008)

Heissmeyer, V., Rao, A.: Itching to end NF- κ B. *Nat. Immunol.* 9 (3), 227-229 (2008)

Hoefig, K.P., Heissmeyer, V.: MicroRNAs grow up in the immune system. *Curr. Opin. Immunol.* 20 (3), 281-287 (2008)

Hoffmann, D.*, Seebach, J.*, Cosma, A., Goebel, F.D.*, Strimmer, K.*, Schätzl, H.M.*, Erfle, V.: Therapeutic vaccination reduces HIV sequence variability. *FASEB J.* 22 (2), 437-444 (2008)

Issels, R. D.: Hyperthermia adds to chemotherapy. *Eur. J. Cancer* 44 (17), 2546-2554 (2008)

Issels, R. D.: Regional hyperthermia in high-risk soft tissue sarcomas. *Curr. Opin. Oncol.* 20 (4), 438-443 (2008)

Izzo, A.*, Regnard, C.*, Morales, V.*, Kremmer, E., Becker, P.B.*: Structure-function analysis of the RNA helicase maleless. *Nucleic Acids Res.* 36 (3), 950-962 (2008)

Jakob, T. et al. (16 Coauthors): Novel mouse mutants with primary cellular immunodeficiencies generated by genome-wide mutagenesis. *J. Allergy Clin. Immunol.* 121 (1), 179-184 (2008)

Jasiak, A.J.*, Hartmann, H.*, Karakasili, E.*, Kalocsay, M.*, Flatley, A., Kremmer, E., Strässer, K.*, Martin, D.E.*, Söding, J.*, Cramer, P.*: Genome-associated RNA polymerase II includes the dissociable Rpb4/7 subcomplex. *J. Biol. Chem.* 283 (39), 26423-26427 (2008)

Javorovic, M., Wilde, S., Zobywalski, A., Noessner, E., Lennerz, V.*, Wölfel, T.*, Schendel, D.J.: Inhibitory effect of RNA pool complexity on stimulatory capacity of RNA-pulsed dendritic cells. *J. Immunother.* 31 (1), 52-62 (2008)

Krämer, P.M., Forster, S., Kremmer, E.: Enzyme-linked immunosorbent assays for the sensitive analysis of 2,4-dinitroaniline and 2,6-dinitroaniline in water and soil. *Anal. Bioanal. Chem.* 391 (5), 1821-1835 (2008)

Krämer, P.M., Gouzy, M.F., Keß, M., Kleinschmidt, U., Kremmer, E.: Development and characterization of new rat monoclonal antibodies for procalcitonin. *Anal. Bioanal. Chem.* 392 (4), 727-736 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Molecular Immunology

Krammer, C.* , Suhre, M.H.* , Kremmer, E., Diemer, C.* , Hess, S.* , Schätzl, H.M.* , Scheibel, T.* , Vorberg, I.* : Prion protein/protein interactions: fusion with yeast Sup35p-NM modulates cytosolic PrP aggregation in mammalian cells. *FASEB J.* 22 (3), 762-773 (2008)

Krauss-Etschmann, S. et al. (12 Coauthors): Decreased cord blood IL-4, IL-13, and CCR4 and increased TGF-beta levels after fish oil supplementation of pregnant women. *J. Allergy Clin. Immunol.* 121 (2), 464-470 (2008)

Kronenberger, K., Nössner, E., Frankenberger, B., Wahl, U.* , Dreyling, M.* , Hallek, M.* , Mocikat, R.: A polyvalent cellular vaccine induces T-cell responses against specific self-antigens overexpressed in chronic lymphocytic B-cell leukemia. *J. Immunother.* 31 (8), 723-730 (2008)

Kufer, T.A.* , Kremmer, E., Adam, A.C.* , Philpott, D.J.* , Sansonetti, P.J.* : The pattern-recognition molecule Nod1 is localized at the plasma membrane at sites of bacterial interaction. *Cell. Microbiol.* 10 (2), 477-486 (2008)

Kuppner, M.C.* , Bleifuß, E., Noessner, E., Mocikat, R., Hesler, C.V.* , Mayerhofer, C.* , Issels, R.D.: Differential effects of ifosfamide on dendritic cell-mediated stimulation of T cell interleukin-2 production, natural killer cell cytotoxicity and interferon-gamma production. *Clin. Exp. Immunol.* 153, 429-438 (2008)

Lindner, L.H.* , Hossann, M.* , Vogeser, M.* , Teichert, N.* , Wachholz, K.* , Eibl, H.* , Hiddemann, W.* , Issels, R.D.: Dual role of hexadecylphosphocholine (miltefosine) in thermosensitive liposomes: active ingredient and mediator of drug release. *J. Control. Release* 125 (2), 112-120 (2008)

Lindner, L.H., Eibl, H.* , Hossann, M., Vogeser, M.* : Quantification of erufosine, the first intravenously applicable alkylphosphocholine, in human plasma by isotope dilution liquid chromatography-tandem mass spectrometry using a deuterated internal standard. *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.* 869 (1-2), 16-19 (2008)

Löer, B.* , Bauer, R.* , Bornheim, R.* , Grell, J.* , Kremmer, E., Kolanus, W.* , Hoch, M.* : The NHL-domain protein Wech is crucial for the integrin-cytoskeleton link. *Nat. Cell Biol.* 10 (4), 422-428 (2008)

Lüking, C., Kronenberger, K., Frankenberger, B., Nössner, E., Röcken, M.* , Mocikat, R.: Antitumor effector functions of T cells are dependent on in vivo priming and restricted T-cell receptor expression. *Int. J. Cancer* 122 (10), 2280-2285 (2008)

Lüscher-Firzlaff, J.* , Kremmer, E. et al. (13 Coauthors): The human trithorax protein hASH2 functions as an oncoprotein. *Cancer Res.* 68 (3), 749-758 (2008)

Lutz-Bonengel, S.* , Sängler, T.* , Parson, W.* , Müller, H.* , Ellwart, J.W., Follo, M.* , Bonengel, B.* , Niederstätter, H.* , Heinrich, M.* , Schmidt, U.* : Single lymphocytes from two healthy individuals with mitochondrial point heteroplasmy are mainly homoplasmic. *Int. J. Legal Med.* 122 (3), 189-197 (2008)

Mages, J.* , Freimüller, K., Lang, R.* , Hatzopoulos, A.K., Guggemoos, S., Koszinowski, U.H.* , Adler, H.: Proteins of the secretory pathway govern virus productivity during lytic gammaherpesvirus infection. *J. Cell. Mol. Med.* 12 (5B), 1974-1989 (2008)

Maier, K.L. et al. (15 Coauthors): Health effects of ambient particulate matter--biological mechanisms and inflammatory responses to in vitro and in vivo particle exposures. *Inhal. Toxicol.* 20 (3), 319-337 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Molecular Immunology

Mamani-Matsuda, M.*, Cosma, A. et al. (20 Coauthors): The human spleen is a major reservoir for long-lived vaccinia virus-specific memory B cells. *Blood* 111 (9), 4653-4659 (2008)

Markoullis, K. et al. (13 Coauthors): Mycoplasma contamination of murine embryonic stem cells affects cell parameters, germline transmission and chimeric progeny. *Transgenic Res.* DOI:10.1007/s11248-008-9218-z (2008)

Martin, L.*, Fluhrer, R.*, Reiss, K.*, Kremmer, E., Saftig, P.*, Haass, C.*: Regulated intramembrane proteolysis of Bri2 (Itm2b) by ADAM10 and SPPL2a/SPPL2b. *J. Biol. Chem.* 283 (3), 1644-1652 (2008)

Mierau, M., Drexler, G.A., Kutzera, A., Braunschmidt, K., Ellwart, J., Eckardt-Schupp, F., Fritz, E.*, Bachl, J.*, Jungnickel, B.: Non-conservative homologous recombination in human B lymphocytes is promoted by activation-induced cytidine deaminase and transcription. *Nucleic Acids Res.* 36 (17), 5591-5601 (2008)

Milani, V.*, Pazos, M.*, Issels, R.D., Buecklein, V.*, Rahman, S.*, Tschoep, K.*, Schaffer, P.*, Wilkowski, R.*, Duehmke, E.*, Schaffer, M.*: Radiochemotherapy in Combination with Regional Hyperthermia in Preirradiated Patients with Recurrent Rectal Cancer. *Strahlenther. Onkol.* 184 (3), 163-168 (2008)

Müller-Hermelink, N.*, Mailhammer, R. et al. (16 Coauthors): TNFR1 signaling and IFN-gamma signaling determine whether T cells induce tumor dormancy or promote multistage carcinogenesis. *Cancer Cell* 13 (6), 507-518 (2008)

Murawska M.*, Kunert, N.*, van Vugt, J.*, Längst, G.*, Kremmer, E., Logie, C.*, Brehm, A.*: dCHD3, a novel ATP-dependent chromatin remodeler associated with sites of active transcription. *Mol. Cell. Biol.* 28 (8), 2745-2757 (2008)

Naarmann, I.S.*, Harnisch, C.*, Flach, N.*, Kremmer, E., Kühn, H.*, Ostareck, D.H.*, Ostareck-Lederer, A.*: mRNA silencing in human erythroid cell maturation : Heterogeneous nuclear ribonucleoprotein K controls the expression of its regulator c-Src. *J. Biol. Chem.* 283 (26), 18461-18472 (2008)

Naschberger, E.*, Kremmer, E. et al. (11 Coauthors): Angiostatic immune reaction in colorectal carcinoma : Impact on survival and perspectives for antiangiogenic therapy. *Int. J. Cancer* 123 (9), 2120-2129 (2008)

Noessner, E., Schleypen, J.S.*: The complexity of natural killer cells. *Clin. Cancer Res.* 13 (5), S. 1621 (2007)

Ostronoff, L.K.*, Kremmer, E., Fermín, M.L.*, Fragío, C.*, Mysliwicz, J., Kolb, H.J.*, Tejero, C.*: Canine stem cell factor augments expression of matrix metalloproteinase-9 by CD34 cells. *Cytotherapy* 10 (2), 193-202 (2008)

Pandithage, R.*, Kremmer, E. et al. (10 Coauthors): The regulation of SIRT2 function by cyclin-dependent kinases affects cell motility. *J. Cell Biol.* 180 (5), 915-929 (2008)

Peller, M.*, Schwerdt, A.*, Hossann, M.*, Reinl, H. M.*, Wang, T., Sourbron, S.*, Ogris, M.*, Lindner, L. H.: MR Characterization of Mild Hyperthermia-Induced Gadodiamide Release From Thermosensitive Liposomes in Solid Tumors. *Invest. Radiol.* 43 (12), 877-892 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Molecular Immunology

Pfefferle, P.I.*, Krauss-Etschmann, S. et al. (18 Coauthors): Cord blood allergen-specific IgE is associated with reduced IFN-gamma production by cord blood cells: The Protection against Allergy-Study in Rural Environments (PASTURE) study. *J. Allergy Clin. Immunol.* 122 (4), 711-716 (2008)

Pfuhl, T.*, Kremmer, E. et al. (13 Coauthors): The LARK/RBM4a protein is highly expressed in cerebellum as compared to cerebrum.. *Neurosci. Lett.* 444(1), 11-15 (2008)

Poeck, H.*, Kremmer, E. et al. (30 Coauthors): 5'-Triphosphate-siRNA : turning gene silencing and Rig-I activation against melanoma. *Nat. Med.* 14 (11), 1256-1263 (2008)

Rothenaigner, I., Kramer, S., Meggendorfer, M., Rethwilm, A.*, Brack-Werner, R.: Transduction of human neural progenitor cells with foamy virus vectors for differentiation-dependent gene expression. *Gene Ther.* doi:10.1038/gt.2008.173 (2008)

Rottach, A.*, Kremmer, E., Nowak, D.*, Boisguerin, P.*, Volkmer, R.*, Cardoso, M.C.*, Leonhardt, H.*, Rothbauer, U.*: Generation and characterization of a rat monoclonal antibody specific for PCNA. *Hybridoma (Larchmt)* 27 (2), 91-98 (2008)

Rottach, A.*, Kremmer, E., Nowak, D.*, Leonhardt, H.*, Cardoso, M.C.*: Generation and characterization of a rat monoclonal antibody specific for multiple red fluorescent proteins. *Hybridoma (Larchmt)* 27 (5), 337-343 (2008)

Rüdel, S.*, Flatley, A., Weinmann, L.*, Kremmer, E., Meister, G.*: A multifunctional human Argonaute2-specific monoclonal antibody. *RNA* 14 (6), 1244-1253 (2008)

Sander, G.*, Konrad, A.*, Thureau, M.*, Wies, E.*, Leubert, R.*, Kremmer, E., Dinkel, H.*, Schulz, T.*, Neipel, F.*, Stürzl, M.*: Intracellular localization map of human herpesvirus 8 proteins. *J. Virol.* 82 (4), 1908-1922 (2008)

Schendel, D.J., Frankenberger, B.: Cell-Based Vaccines for Renal Cell Carcinoma. *Renal Cell Cancer: Diagnosis and Therapy*, de la Rosette, J.J.M.C.H.; Sternberg, C.N., van Poppel H.P.A. [Eds.], Berlin : Springer, 475-488 (2008)

Schlosser, E.*, Mueller, M.*, Fischer, S.*, Basta, S.*, Busch, D.H., Gander, B.*, Groettrup, M.*: TLR ligands and antigen need to be coencapsulated into the same biodegradable microsphere for the generation of potent cytotoxic T lymphocyte responses. *Vaccine* 26 (13), 1626-1637 (2008)

Schneider, M.R.*, Wolf, E.*, Braun, J.*, Kolb, H.J., Adler, H.: Canine embryo-derived stem cells and models for human diseases. *Hum. Mol. Genet.* 17 (R1), 42-47 (2008)

Schöbel, S.*, Neumann, S.*, Hertweck, M.*, Dislich, B.*, Kuhn, P.H.*, Kremmer, E., Seed, B.*, Baumeister, R.*, Haass, C.*, Lichtenthaler, S.F.*: A novel sorting nexin modulates endocytic trafficking and alpha-secretase cleavage of the amyloid precursor protein. *J. Biol. Chem.* 283 (21), 14257-14268 (2008)

Schulz, C.*, Kremmer, E. et al. (14 Coauthors): Platelet GPVI binds to collagenous structures in the core region of human atheromatous plaque and is critical for atheroprogession in vivo.. *Basic Res. Cardiol.* 103(4), 356-367 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Molecular Immunology

Schwerdt, A.* , Zintchenko, A.* , Concia, M.* , Roesen, N.* , Fisher, K.* , Lindner, L.H., Issels, R., Wagner, E.* , Ogris, M.*: Hyperthermia-induced targeting of thermosensitive gene carriers to tumors. *Hum. Gene Ther.* 19 (11), 1283-1292 (2008)

Segeer, S.* , Nössner, E. et al. (12 Coauthors): Compartment specific expression of dendritic cell markers in human glomerulonephritis. *Kidney Int.* 74 (1), 37-46 (2008)

Seiler, A.: Glutathione peroxidase 4 senses and translates oxidative stress into 12/15-lipoxygenase dependent- and AIF-Mediated cell death. *Cell Metab.* 8 (3), 237-248 (2008)

Seth, S.* , Maier, M.K.* , Qiu, Q.* , Ravens, I.* , Kremmer, E., Förster, R.* , Bernhardt, G.*: The murine pan T cell marker CD96 is an adhesion receptor for CD155 and nectin-1. *Biochem. Biophys. Res. Commun.* 364 (4), 959-965 (2007)

Tschoep, K.E.* , Noessner, E.: Understand tolerogenic dendritic cells. *Blood* 109 (9), S. 3616 (2007)

Wang, T.* , Hossann, M.* , Reinl, H.M., Peller, M.* , Eibl, H.* , Reiser, M.* , Issels, R.D., Lindner, L.H.: In vitro characterization of phosphatidylglyceroglycerol-based thermosensitive liposomes with encapsulated 1H MR T1-shortening gadodiamide. *Contrast Media Mol. Imaging* 3 (1), 19-26 (2008)

Wies, E.* , Mori, Y.* , Hahn, A.* , Kremmer, E., Stürzl, M.* , Fleckenstein, B.* , Neipel, F.*: The viral interferon-regulatory factor-3 is required for the survival of KSHV-infected primary effusion lymphoma cells. *Blood* 111 (1), 320-327 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Molecular Radiation Biology

- Arakawa, H., Buerstedde, J.-M.: Activation-induced cytidine deaminase-mediated hypermutation in the DT40 cell line. *Philos. Trans. R. Soc. Lond., B, Biol. Sci.* 364(Number 1517), 639-644 (2008)
- Arakawa, H., Kudo, H., Batrak, V., Caldwell, R.B., Rieger, M.A., Ellwart, J.W., Buerstedde J.M.: Protein evolution by hypermutation and selection in the B cell line DT40. *Nucleic Acids Res.* 36 (1):e1, 1-11 (2008)
- Aubele, M., Walch, A.K., Ludyga, N., Braselmann, H., Atkinson M.J., Lubber, B.*, Auer, G.*, Tapio, S., Cooke, T.*, Bartlett, J.M.*: Prognostic value of protein tyrosine kinase 6 (PTK6) for long-term survival of breast cancer patients. *Br. J. Cancer* 99 (7), 1089-1095 (2008)
- Bauer, V.L. et al. (11 Coauthors): Chromosomal changes characterize head and neck cancer with poor prognosis. *J. Mol. Med.* 86 (12), 1353-1365 (2008)
- Caldwell, R.B., Fiedler, P., Schoetz, U., Buerstedde, J.-M.: Gene Function Analysis Using the Chicken B-Cell Line DT40. *Methods in Molecular Biology*; Vol. 408, Gene Function Analysis, Ochs, M. [Ed.], Clifton, N.J. : Humana Press, 193-210 (2007)
- Manti, L.*, Braselmann, H., Calabrese, M.L.*, Massa, R.*, Pugliese, M.*, Scampoli, P.*, Sicignano, G.*, Grossi, G.*: Effects of modulated microwave radiation at cellular telephone frequency (1.95 GHz) on X-Ray-induced chromosome aberrations in human lymphocytes in vitro. *Radiat. Res.* 169 (5), 575-583 (2008)
- Markoullis, K. et al. (13 Coauthors): Mycoplasma contamination of murine embryonic stem cells affects cell parameters, germline transmission and chimeric progeny. *Transgenic Res.* DOI:10.1007/s11248-008-9218-z (2008)
- Saberi, A.*, Nakahara, M.*, Sale, J.E.*, Kikuchi, K.*, Arakawa, H., Buerstedde, J.M., Yamamoto, K.*, Takeda, S.*, Sonoda, E.*: The 9-1-1 DNA clamp is required for immunoglobulin gene conversion.. *Mol. Cell. Biol.* 28 (19), 6113-6122 (2008)
- Scherthan, H.*, Hieber, L., Braselmann, H., Meineke, V.*, Zitzelsberger, H.: Accumulation of DSBs in gamma-H2AX domains fuel chromosomal aberrations. *Biochem. Biophys. Res. Commun.* 371 (4), 694-697 (2008)
- Steininger, S., Gomez-Paramio, I., Braselmann, H., Fellerhoff, B., Dittberner, D., Eckardt-Schupp, F., Moertl, S.: Xrs2 facilitates crossovers during DNA double-strand gap repair in yeast. *DNA Repair (Amst.)* 7 (9), 1563-1577 (2008)
- Unger, K. et al. (10 Coauthors): Array CGH demonstrates characteristic aberration signatures in human papillary thyroid carcinomas governed by RET/PTC. *Oncogene* 27 (33), 4592-4602 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Virology

Bernhard, H., Neudorfer, J.*, Gebhard, K., Conrad, H.*, Hermann, C.*, Nährig, J.*, Fend, F.*, Weber, W.*, Busch, D.H., Peschel, C.*: Adoptive transfer of autologous, HER2-specific, cytotoxic T lymphocytes for the treatment of HER2-overexpressing breast cancer. *Cancer Immunol. Immunother.* 57 (2), 271-280 (2008)

Bleifuss, E. et al. (11 Coauthors): Differential capacity of chaperone-rich lysates in cross-presenting human endogenous and exogenous melanoma differentiation antigens. *Int. J. Hyperthermia* 24 (8), 623-637 (2008)

Bohne, F.*, Chmielewski, M.*, Ebert, G.*, Wiegmann, K.*, Kürschner, T.*, Schulze, A.*, Urban, S.*, Krönke, M.*, Abken, H.*, Protzer, U.: T cells redirected against hepatitis B virus surface proteins eliminate infected hepatocytes. *Gastroenterology* 134 (1), 239-247 (2008)

Bohne, F.*, Protzer, U.: Adoptive T-cell therapy as a therapeutic option for chronic hepatitis B. *J. Viral Hepat.* 14 (Suppl. 1), 45-50 (2007)

Conrad, H., Gebhard, K., Krönig, H.*, Neudorfer, J.*, Busch, D.H., Peschel, C.*, Bernhard, H.: CTLs directed against HER2 specifically cross-react with HER3 and HER4. *J. Immunol.* 180 (12), 8135-8145 (2008)

Cornberg, M.*, Protzer, U. et al. (11 Coauthors): The German guideline for the management of hepatitis B virus infection : Short version. *J. Viral Hepat.* 15 (Suppl. 1), 1-20 (2008)

El-Gogo, S.*, Staib, C., Lasarte, J.J.*, Sutter, G.*, Adler H.: Protective vaccination with hepatitis C virus NS3 but not core antigen in a novel mouse challenge model. *J. Gene Med.* 10 (2), 177-186 (2008)

Flockerzi, A.*, Leib-Mösch, C. et al. (11 Coauthors): Expression patterns of transcribed human endogenous retrovirus HERV-K(HML-2) loci in human tissues and the need for a HERV Transcriptome Project. *BMC Genomics* 9:354, 1-17 (2008)

Frank, O.*, Verbeke, C.*, Schwarz, N.*, Mayer, J., Fabarius, A.*, Hehlmann, R.*, Leib-Mösch, C., Seifarth, W.*: Variable transcriptional activity of endogenous retroviruses in human breast cancer. *J. Virol.* 82 (4), 1808-1818 (2008)

Frenzel, L.P.*, Abdullah, Z.*, Kriegeskorte, A.K.*, Dieterich, R.*, Lange, N.*, Busch, D.H., Krönke, M.*, Utermöhlen, O.*, Hescheler, J.*, Saric, T.*: Role of NKG2D-ligands and ICAM-1 in NK cell-mediated Lysis of Murine Embryonic Stem Cells and Embryonic Stem Cell-derived Cardiomyocytes. *Stem Cells*
DOI:10.1634/stemcells.2008-0528 (2008)

Heit, A.*, Gebhardt, F.*, Lahl, K.*, Neuenhahn, M.*, Schmitz, F.*, Anderl, F.*, Wagner, H.*, Sparwasser, T.*, Busch, D.H., Kastenmüller, K.: Circumvention of regulatory CD4(+) T cell activity during cross-priming strongly enhances T cell-mediated immunity. *Eur. J. Immunol.* 38 (6), 1585-1597 (2008)

Jakob, T. et al. (16 Coauthors): Novel mouse mutants with primary cellular immunodeficiencies generated by genome-wide mutagenesis. *J. Allergy Clin. Immunol.* 121 (1), 179-184 (2008)

Jenke, A.C.*, Wilhelm, A.D.*, Orth, V.*, Lipps, H.J.*, Protzer, U., Wirth, S.*: Long-term suppression of hepatitis B virus replication by short hairpin RNA expression using the scaffold/matrix attachment region-based replicating vector system pEPI-1. *Antimicrob. Agents Chemother.* 52 (7), 2355-2359 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Virology

- Kraus, B.*, Ziegler, M., Wolff, H.: Linear fluorescence unmixing in cell biological research. *Modern Research and Educational Topics in Microscopy, Volume 2*, Méndez-Vilas, A.; Díaz, J. [Eds.], Badajoz, Spain : Formatex, 863-872 (2007)
- Lochner, M.*, Kastenmüller, K., Neuenhahn, M.*, Weighardt, H.*, Busch, D.H., Reindl, W.*, Förster, I.*: Decreased susceptibility of mice to infection with *Listeria monocytogenes* in the absence of interleukin-18. *Infect. Immun.* 76 (9), 3881-3890 (2008)
- Meyer, V.S.*, Kastenmüller, W., Gasteiger, G., Franz-Wachtel, M.*, Lamkemeyer, T.*, Rammensee, H.-G.*, Stevanovic, S.*, Siguardardottir, D.*, Drexler, I.: Long-Term Immunity against Actual Poxviral HLA Ligands as Identified by Differential Stable Isotope Labeling. *J. Immunol.* 181 (9), 6371-6383 (2008)
- Oostendorp, R.A.J.*, Schiemann, M. et al. (10 Coauthors): Oncostatin M-mediated regulation of KIT-ligand-induced extracellular signal-regulated kinase signaling maintains hematopoietic repopulating activity of Lin(-) CD34(+) CD133(+) cord blood cells. *Stem Cells* 26 (8), 2164-2172 (2008)
- Op den Brouw, M.L.*, Binda, R.S.*, van Roosmalen, M.H.*, Protzer, U., Janssen, H.L.*, van der Molen, R.G.*, Woltman, A.M.*: Hepatitis B virus surface antigen impairs myeloid dendritic cell function : a possible immune escape mechanism of hepatitis B virus. *Immunology* DOI:10.1111/j.1365-2567.2008.02896 (2008)
- Quasdorff, M.*, Protzer, U. et al. (10 Coauthors): A concerted action of HNF4alpha and HNF1alpha links hepatitis B virus replication to hepatocyte differentiation. *Cell. Microbiol.* 10 (7), 1478-1490 (2008)
- Rollier, C.S.*, Staib, C. et al. (25 Coauthors): Vaccine-induced early control of hepatitis C virus infection in chimpanzees fails to impact on hepatic PD-1 and chronicity. *Hepatology* 45 (3), 602-613 (2007)
- Rothenaigner, I., Kramer, S., Meggendorfer, M., Rethwilm, A.*, Brack-Werner, R.: Transduction of human neural progenitor cells with foamy virus vectors for differentiation-dependent gene expression. *Gene Ther.* doi:10.1038/gt.2008.173 (2008)
- Sander, G.*, Konrad, A.*, Thurau, M.*, Wies, E.*, Leubert, R.*, Kremmer, E., Dinkel, H.*, Schulz, T.*, Neipel, F.*, Stürzl, M.*: Intracellular localization map of human herpesvirus 8 proteins. *J. Virol.* 82 (4), 1908-1922 (2008)
- Schulze, K.*, Staib, C., Schätzl, H.M.*, Ebensen, T.*, Erfle, V., Guzman, C.A.*: A prime-boost vaccination protocol optimizes immune responses against the nucleocapsid protein of the SARS coronavirus. *Vaccine* 26 (51), 6678-6684 (2008)
- Urban, S.*, Protzer, U.: Hepatitis B virus : Lessons learned from the virus life cycle. *Comparative Hepatitis*, Weber, O.; Protzer, U. [Eds.], Basel : Birkhäuser, 75-93 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Pathology

Anastasov, N., Klier, M., Koch, I.*, Angermeier, D., Höfler, H., Fend, F.*, Quintanilla-Martinez, L.: Efficient shRNA delivery into B and T lymphoma cells using lentiviral vector-mediated transfer. *J. Hematop.* DOI:10.1007/s12308-008-0020-x (2008)

Aubele, M., Walch, A.K., Ludyga, N., Braselmann, H., Atkinson M.J., Lubber, B.*, Auer, G.*, Tapio, S., Cooke, T.*, Bartlett, J.M.*: Prognostic value of protein tyrosine kinase 6 (PTK6) for long-term survival of breast cancer patients. *Br. J. Cancer* 99 (7), 1089-1095 (2008)

Bauer, V.L. et al. (11 Coauthors): Chromosomal changes characterize head and neck cancer with poor prognosis. *J. Mol. Med.* 86 (12), 1353-1365 (2008)

Bedke, J.*, Buse, S.*, Esposito, I., Schirmacher, P.*, Haferkamp, A.*, Hohenfellner, M.*: Evaluation and management of a patient with a bladder mass of uncertain etiology. *Nat. Clin. Pract. Urol.* 5 (9), 509-514 (2008)

Bender, A.*, Beckers, J. et al. (19 Coauthors): Creatine improves health and survival of mice. *Neurobiol. Aging* 29 (9), 1404-1411 (2008)

Bink, K. et al. (11 Coauthors): Primary extramedullary plasmacytoma : Similarities with and differences from multiple myeloma revealed by interphase cytogenetics. *Haematologica* 93 (4), 623-626 (2008)

Blehschmidt, K.*, Sassen, S.*, Schmalfeldt, B.*, Schuster, T.*, Höfler, H., Becker, K.F.*: The E-cadherin repressor Snail is associated with lower overall survival of ovarian cancer patients. *Br. J. Cancer* 98 (2), 489-495 (2008)

Bremm, A.*, Walch, A. et al. (12 Coauthors): Enhanced activation of epidermal growth factor receptor caused by tumor-derived E-cadherin mutations. *Cancer Res.* 68 (3), 707-714 (2008)

Ejegod, D.*, Sørensen, K.D.*, Moßbrugger, I., Quintanilla-Martinez, L., Schmidt, J., Pedersen, F.S.*: Control of pathogenicity and disease specificity of a T-lymphomagenic gammaretrovirus by E-box motifs but not by an overlapping glucocorticoid response element. *J. Virol.* DOI:10.1128/JVI.01368-08 (2008)

Esposito, I., Born, D.*, Bergmann, F.*, Longrich, T.*, Welsch, T.*, Giese, N.A.*, Büchler, M.W.*, Kleeff, J.*, Friess, H.*, Schirmacher, P.*: Autoimmune pancreatocholangitis, non-autoimmune pancreatitis and primary sclerosing cholangitis : A comparative morphological and immunological analysis. *PLoS ONE* 3 (7):e2539, 1-11 (2008)

Esposito, I., Kubisova, A.*, Stiehl, A.*, Kulaksiz, H.*, Schirmacher, P.*: Secondary sclerosing cholangitis after intensive care unit treatment : Clues to the histopathological differential diagnosis. *Virchows Arch.* 453 (4), 339-345 (2008)

Fend, F.*, Tzankov, A.*, Bink, C., Seidl, S.*, Quintanilla-Martinez, L., Kremer, M.*, Dirnhofer, S.*: Modern techniques for the diagnostic evaluation of the trephine bone marrow biopsy: Methodological aspects and applications. *Prog. Histochem. Cytochem.* 42 (4), 203-252 (2008)

Fuchs, M.*, Hermannstädter, C.*, Hutzler, P., Häcker, G.*, Haller, F.*, Höfler, H., Lubber, B.*: Deletion of exon 8 increases cisplatin-induced E-cadherin cleavage. *Exp. Cell Res.* 314 (1), 153-163 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Pathology

Gehrmann, M.*, Liebisch, G.*, Schmitz, G.*, Anderson, R.*, Steinem, C.*, De Maio, A.*, Pockley, G.*, Multhoff, G.: Tumor-specific Hsp70 plasma membrane localization is enabled by the glycosphingolipid Gb3. *PLoS ONE* 3 (4):e1925, 1-9 (2008)

Gehrmann, M.*, Radons, J.*, Molls, M.*, Multhoff, G.: The therapeutic implications of clinically applied modifiers of heat shock protein 70 (Hsp70) expression by tumor cells. *Cell Stress Chaperones* 13 (1), 1-10 (2008)

Gross, C.*, Holler, E.*, Stangl, S., Dickinson, A.*, Pockley, A.G., Asea, A.A.*, Mallappa, N.*, Multhoff, G.: An Hsp70 peptide initiates NK cell killing of leukemic blasts after stem cell transplantation. *Leuk. Res.* 32 (4), 527-537 (2008)

Hennig, R.*, Esposito, I. et al. (10 Coauthors): BLT2 is expressed in PanINs, IPMNs, pancreatic cancer and stimulates tumour cell proliferation. *Br. J. Cancer* 99 (7), 1064-1073 (2008)

Henopp, T.*, Pellegata, N.S. et al. (14 Coauthors): Glucagon cell adenomatosis : a newly recognized disease of the endocrine pancreas. *J. Clin. Endocrinol. Metab.* DOI:10.1210/jc.2008-1300 (2008)

Hense, B.A., Gais, P., Jütting, U., Scherb, H., Rodenacker, K.: Use of fluorescence information for automated phytoplankton investigation by image analysis. *J. Plankton Res.* 30 (5), 587-606 (2008)

Herens, C.*, Lambert, F.*, Quintanilla-Martinez, L., Bisig, B.*, Deusings, C.*, de Leval, L.*: Cyclin D1-negative mantle cell lymphoma with cryptic t(12;14)(p13;q32) and cyclin D2 overexpression. *Blood* 111 (3), 1745-1746 (2008)

Hipp, S.*, Walch, A., Schuster, T.*, Höfler, H., Becker, K.-F.*: Precise measurement of the E-cadherin repressor Snail in formalin-fixed endometrial carcinoma using protein lysate microarrays. *Clin. Exp. Metastasis* 25 (6), 679-683 (2008)

Hoffmann, M.*, Rath, E.*, Hölzlwimmer, G., Quintanilla-Martinez, L., Loach, D.*, Tannock, G.*, Haller, D.*: *Lactobacillus reuteri* 100-23 transiently activates intestinal epithelial cells of mice that have a complex microbiota during early stages of colonization. *J. Nutr.* 138 (9), 1684-1691 (2008)

Hömig-Hölzel, C. et al. (10 Coauthors): Constitutive CD40 signaling in B cells selectively activates the noncanonical NF-kappaB pathway and promotes lymphomagenesis. *J. Exp. Med.* 205 (6), 1317-1329 (2008)

Horváth, I.*, Multhoff, G., Sonnleitner, A.*, Vígh, L.*: Membrane-associated stress proteins : More than simply chaperones. *BBA - Biomembranes* 1778 (7-8), 1653-1664 (2008)

Klier, M., Anastasov, N., Hermann, A., Meindl, T., Angermeier, D., Raffeld, M.*, Fend, F.*, Quintanilla-Martinez, L.: Specific lentiviral shRNA-mediated knockdown of cyclin D1 in mantle cell lymphoma has minimal effects on cell survival and reveals a regulatory circuit with cyclin D2. *Leukemia* 22 (11), 2097-2105 (2008)

Kraetzel, K.*, Stoelcker, B.*, Eissner, G.*, Multhoff, G., Pfeifer, M.*, Holler, E.*, Schulz, C.*: NKG2D-dependent effector function of bronchial epithelium activated alloreactive T cells. *Eur. Respir. J.* 32 (3), 1-8 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Pathology

Kremer, M.* , Horn, T.* , Koch, I.* , Dechow, T.* , Gattenloehner, S.* , Pfeiffer, W.* , Quintanilla-Martínez, L., Fend, F.*: Quantitation of the JAK2V617F mutation in microdissected bone marrow trephines : Equal mutational load in myeloid lineages and rare involvement of lymphoid cells. *Am. J. Surg. Pathol.* 32 (6), 928-935 (2008)

Langer, R.* , Feith, M.* , Siewert, J.R.* , Wester, H.-J.* , Höfler, H.: Expression and clinical significance of glucose regulated proteins GRP78 (BiP) and GRP94 (GP96) in human adenocarcinomas of the esophagus. *BMC Cancer* 8:70, 1-9 (2008)

Lisse, T.S. et al. (12 Coauthors): ER Stress-Mediated Apoptosis in a New Mouse Model of Osteogenesis imperfecta. *PLoS Genet.* 4 (2):e7, 1-11 (2008)

Markoullis, K. et al. (13 Coauthors): Mycoplasma contamination of murine embryonic stem cells affects cell parameters, germline transmission and chimeric progeny. *Transgenic Res.* DOI:10.1007/s11248-008-9218-z (2008)

Matiasek, K.* , Gais, P., Rodenacker, K., Jütting, U., Tanck, J.J.* , Schmahl, W.*: Stereological characteristics of the equine accessory nerve. *Anat. Histol. Embryol.* 37 (3), 205-213 (2008)

May, F.* , Gais, P. et al. (14 Coauthors): GDNF-transduced Schwann cell grafts enhance regeneration of erectile nerves. *Eur. Urol.* 54 (5), 1179-1187 (2008)

Miederer, M.* , Henriksen, G.* , Alke, A.* , Mossbrugger, I., Quintanilla-Martinez, L., Senekowitsch-Schmidtke, R.* , Essler, M.*: Preclinical evaluation of the alpha-particle generator nuclide ²²⁵Ac for somatostatin receptor radiotherapy of neuroendocrine tumors. *Clin. Cancer Res.* 14 (11), 3555-3561 (2008)

Paschen, S.A.* , Christian, J.G., Vier, J.* , Schmidt, F., Walch, A., Ojcius, D.M.* , Häcker, G.*: Cytopathicity of Chlamydia is largely reproduced by expression of a single chlamydial protease. *J. Cell Biol.* 182 (1), 117-127 (2008)

Petropoulos, K. et al. (11 Coauthors): A novel role for Lef-1, a central transcription mediator of Wnt signaling, in leukemogenesis. *J. Exp. Med.* 205 (3), 515-522 (2008)

Pockley, A.G.* , Multhoff, G.: Cell stress proteins in extracellular fluids : friend or foe ? *Novartis Found. Symp.* 291, 86-100 (2008)

Rahemtullah, A.* , Longtine, J.A.* , Harris, N.L.* , Dorn, M.* , Zembowicz, A.* , Quintanilla-Fend, L., Preffer, F.I., Ferry, J.A.*: CD20+ T-cell lymphoma: clinicopathologic analysis of 9 cases and a review of the literature. *Am. J. Surg. Pathol.* 32 (1), 1593-1607 (2008)

Rawat, V.P.S. et al. (13 Coauthors): Overexpression of CDX2 perturbs HOX gene expression in murine progenitors depending on its N-terminal domain and is closely correlated with deregulated HOX gene expression in human acute myeloid leukemia. *Blood* 111 (1), 309-319 (2008)

Reiter, R.* , Gais, P. et al. (14 Coauthors): Centrosome abnormalities in head and neck squamous cell carcinoma (HNSCC). *Acta Otolaryngol.* DOI: 10.1080/00016480802165767 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Pathology

Riener, M.O.* , Nikolopoulos, E.* , Herr, A.* , Wild, P.J.* , Hausmann, M.* , Wiech, T.* , Orłowska-Volk, M.* , Lassmann, S.* , Walch, A., Werner, M.*: Microarray comparative genomic hybridization analysis of tubular breast carcinoma shows recurrent loss of the CDH13 locus on 16q. *Hum. Pathol.* 39 (11), 1621-1629 (2008)

Salaverria, I.* , Quintanilla-Martinez, L. et al. (13 Coauthors): Multiple recurrent chromosomal breakpoints in mantle cell lymphoma revealed by a combination of molecular cytogenetic techniques. *Genes Chromosomes Cancer* 47 (12), 1086-1097 (2008)

Schaefer, K.-L.* , Nathrath, M. et al. (18 Coauthors): Microarray analysis of Ewing's sarcoma family of tumours reveals characteristic gene expression signatures associated with metastasis and resistance to chemotherapy. *Eur. J. Cancer* 44 (5), 699-709 (2008)

Schillinger, U.* , Walch, A. et al. (14 Coauthors): A fibrin glue composition as carrier for nucleic acid vectors. *Pharm. Res.* 25 (12), 2946-2962 (2008)

Schmidt, R.* , Walch, A. et al. (12 Coauthors): Extracellular matrix metalloproteinase inducer (CD147) is a novel receptor on platelets, activates platelets, and augments nuclear factor kappaB-dependent inflammation in monocytes. *Circ. Res.* 102 (3), 302-309 (2008)

Slota-Huspenina, J.* , Koch, I.* , Richter, M., Bink, K., Kremer, M.* , Specht, K.* , Krugmann, J., Quintanilla-Martinez, L., Fend, F.*: Cyclin D1 positive multiple myeloma: predominance of the short, 3'UTR-deficient transcript is associated with high cyclin D1 mRNA levels in cases with t(11;14) translocation, but does not correlate with proliferation rate or genomic deletions. *Leuk. Res.* 32 (1), 79-88 (2008)

Specht, K.* , Smida, J. et al. (13 Coauthors): Expression profiling identifies genes that predict recurrence of breast cancer after adjuvant CMF-based chemotherapy. *Breast Cancer Res. Treat.* DOI:10.1007/s10549-008-0207-y (2008)

Stangl, S.* , Gross, C.* , Asea, A.A.* , Pockley, A.G.* , Multhoff, G.: Influence of Hsp70 and HLA-E on the killing of leukemic blasts by cytokine/Hsp70 peptide-activated human natural killer (NK) cells. *Cell Stress Chaperones* 13 (2), 221-230 (2008)

Steinborn, M.* , Wörtler, K.* , Nathrath, M., Schöniger, M.* , Hahn, H., Rummeny, E.J.*: Whole-body MRI in children with langerhans cell histiocytosis for the evaluation of the skeletal system. *Rofo* 180 (7), 646-653 (2008)

Tapio, S. et al. (16 Coauthors): Progress in updating the European Radiobiology Archives. *Int. J. Radiat. Biol.* 84 (11), 930-936 (2008)

Unger, K. et al. (10 Coauthors): Array CGH demonstrates characteristic aberration signatures in human papillary thyroid carcinomas governed by RET/PTC. *Oncogene* 27 (33), 4592-4602 (2008)

Vega, V.L.* , Rodríguez-Silva, M.* , Frey, T.* , Gehrman, M., Diaz, J.C.* , Steinem, C.* , Multhoff, G., Arispe, N.* , De Maio, A.*: Hsp70 translocates into the plasma membrane after stress and is released into the extracellular environment in a membrane-associated form that activates macrophages. *J. Immunol.* 180 (6), 4299-4307 (2008)

Villmann, T.* , Schleif, F.M.* , Kostrzewa, M.* , Walch, A., Hammer, B.*: Classification of mass-spectrometric data in clinical proteomics using learning vector quantization methods. *Brief. Bioinformatics* 9 (2), 129-143 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Pathology

von Luetlichau, I.*, Nathrath, M. et al. (10 Coauthors): A complex pattern of chemokine receptor expression is seen in osteosarcoma. *BMC Cancer* 8:23, 1-10 (2008)

Walch, A. et al. (12 Coauthors): Combined analysis of Rac1, IQGAP1, Tiam1 and E-cadherin expression in gastric cancer. *Mod. Pathol.* 21 (5), 544-552 (2008)

Walch, A., Rauser, S., Deininger, S.O.*, Höfler, H.: MALDI imaging mass spectrometry for direct tissue analysis : A new frontier for molecular histology. *Histochem. Cell Biol.* 130 (3), 421-434 (2008)

Warren, M.V.*, Quintanilla-Martinez, L. et al. (11 Coauthors): An impending crisis in the provision of histopathology expertise for mouse functional genomics. *J. Pathol.* 217 (1), 4-13 (2008)

Wiech, T.*, Nikolopoulos, E.*, Hausmann, M.*, Walch, A., Werner, M.*, Fisch, P.*: A Case of Heterogeneous Breast Cancer with Clonally Expanded T-Cells in the HER2+ and Metastasis of the HER2- Tumor Cells. *Breast J.* 14 (5), 487-491 (2008)

Wiech, T.*, Nikolopoulos, E.*, Weis, R.*, Langer, R.*, Bartholomé, K.*, Timmer, J.*, Walch, A.K., Höfler, H.*, Werner, M.*: Genome-wide analysis of genetic alterations in Barrett's adenocarcinoma using single nucleotide polymorphism arrays. *Lab. Invest.* DOI:10.1038/labinvest.2008.67 (2008)

Winkelheide, U.*, Engelhard, K.*, Kaepfel, B.*, Winkler, J.*, Hutzler, P., Werner, C.*, Kochs, E.*: Cerebral Ischemia and Neurogenesis : A Two-time Comparison. *Neurocrit. Care* 9 (3), 387-393 (2008)

Ying, S.*, Pettengill, M.*, Latham, E.R.*, Walch, A., Ojcius, D.M.*, Häcker, G.*: Premature apoptosis of Chlamydia-infected cells disrupts chlamydial development. *J. Infect. Dis.* 198 (10), 1536-1544 (2008)

Zischka, H. et al. (11 Coauthors): Electrophoretic analysis of the mitochondrial outer membrane rupture induced by permeability transition. *Anal. Chem.* 80 (13), 5051-5058 (2008)

Zischka, H., Lichtmannegger, J., Jaegemann, N., Jennen, L., Hamöller, D., Huber, E., Walch, A., Summer, K.H., Göttlicher, M.: Isolation of highly pure rat liver mitochondria with the aid of zone-electrophoresis in a free flow device (ZE-FFE). *Methods in Molecular Biology ; Vol. 424: 2D PAGE: Sample Preparation and Fractionation, Vol. 1, Posch, A. [Ed.], Totowa, NJ : Human Press, 333-348 (2008)*

Publication List 2008

31.12.2008

(* external author)

Institute of Radiation Biology

Anastasov, N., Klier, M., Koch, I.*, Angermeier, D., Höfler, H., Fend, F.*, Quintanilla-Martinez, L.: Efficient shRNA delivery into B and T lymphoma cells using lentiviral vector-mediated transfer. *J. Hematop.* DOI:10.1007/s12308-008-0020-x (2008)

Aubele, M., Walch, A.K., Ludyga, N., Braselmann, H., Atkinson M.J., Lubber, B.*, Auer, G.*, Tapio, S., Cooke, T.*, Bartlett, J.M.*: Prognostic value of protein tyrosine kinase 6 (PTK6) for long-term survival of breast cancer patients. *Br. J. Cancer* 99 (7), 1089-1095 (2008)

Eichhorn, M.E.*, Strieth, S.*, Luedemann, S.*, Kleespies, A.*, Nöth, U., Passon, A.*, Brix, G.*, Jauch, K.W.*, Bruns, C.J.*, Dellian, M.*: Contrast enhanced MRI and intravital fluorescence microscopy indicate improved tumor microcirculation in highly vascularized melanomas upon short-term anti-VEGFR treatment. *Cancer Biol. Ther.* 7 (7), 1006-1013 (2008)

Hematulin, A., Sagan, D., Eckardt-Schupp, F., Moertl, S.: NBS1 is required for IGF-1 induced cellular proliferation through the Ras/Raf/MEK/ERK cascade. *Cell. Signal.* 20 (2), 2276-2285 (2008)

Mierau, M., Drexler, G.A., Kutzera, A., Braunschmidt, K., Ellwart, J., Eckardt-Schupp, F., Fritz, E.*, Bachl, J.*, Jungnickel, B.: Non-conservative homologous recombination in human B lymphocytes is promoted by activation-induced cytidine deaminase and transcription. *Nucleic Acids Res.* 36 (17), 5591-5601 (2008)

Moertl, S., Karras, G.I.*, Wismüller, T., Ahne, F., Eckardt-Schupp, F.: Regulation of double-stranded DNA gap repair by the RAD6 pathway. *DNA Repair (Amst.)* 7 (11), 1893-1906 (2008)

Nöth, U., Kotajima, F.*, Deichmann, R.*, Turner, R.*, Corfield, D.R.*: Mapping of the cerebral vascular response to hypoxia and hypercapnia using quantitative perfusion MRI at 3 T. *NMR Biomed.* 21 (5), 464-472 (2008)

Sagan, D., Eckardt-Schupp, F., Eicholtz-Wirth, H.: Reduced expression of SRC family kinases decreases PI3K activity in NBS1-/- lymphoblasts. *Biochem. Biophys. Res. Commun.* 377 (1), 181-186 (2008)

Sigurdson, A.J.*, Bauchinger, M. et al. (31 Coauthors): International study of factors affecting human chromosome translocations. *Mutat. Res.* 652 (2), 112-121 (2008)

Steininger, S., Gomez-Paramio, I., Braselmann, H., Fellerhoff, B., Dittberner, D., Eckardt-Schupp, F., Moertl, S.: Xrs2 facilitates crossovers during DNA double-strand gap repair in yeast. *DNA Repair (Amst.)* 7 (9), 1563-1577 (2008)

Tapio, S. et al. (16 Coauthors): Progress in updating the European Radiobiology Archives. *Int. J. Radiat. Biol.* 84 (11), 930-936 (2008)

Unger, K. et al. (10 Coauthors): Array CGH demonstrates characteristic aberration signatures in human papillary thyroid carcinomas governed by RET/PTC. *Oncogene* 27 (33), 4592-4602 (2008)

Wick, R.R., Nekolla, E.A.*, Gaubitz, M.*, Schulte, T.L.*: Increased risk of myeloid leukaemia in patients with ankylosing spondylitis following treatment with radium-224. *Rheumatology* 47 (6), 855-859 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Radiation Protection

- Al-Jundi, J.*, Al-Ahmad, N.*, Shehadeh, H.*, Afaneh, F.*, Maghrabi, M.*, Gerstmann, U., Hoellriegl, V., Oeh, U.: Investigations on the activity concentrations of U-238, Ra-226, Ra-228, Pb-210 and K-40 in Jordan phosphogypsum and fertilizers. *Radiat. Prot. Dosimetry* 131 (4), 449-454 (2008)
- Alloni, D.*, Friedland, W. et al. (31 Coauthors): Charged particle effects : Experimental and theoretical studies on the mechanisms underlying the induction of molecular and cellular damage and the modulation of intracellular signalling. *Nuovo Cimento C* 31 (N.1), 21-38 (2008)
- Andersson, K.G.*, Brown, J.*, Mortimer, K.*, Jones, J.A.*, Charnock, T.*, Thykier-Nielsen, S.*, Kaiser, J.C., Pröhl, G., Nielsen, S.P.*: New developments to support decision-making in contaminated inhabited areas following incidents involving a release of radioactivity to the environment. *J. Environ. Radioact.* 99 (3), 439-454 (2008)
- Andrasi, A.*, Höllriegl, V. et al. (14 Coauthors): Practical implications of procedures developed in IDEA project—comparison with traditional methods. *Radiat. Prot. Dosimetry* 125 (1-4), 456-459 (2007)
- Beck, P.*, Rühm, W. et al. (12 Coauthors): Validation of modelling the radiation exposure due to solar particle events at aircraft altitudes. *Radiat. Prot. Dosimetry* 131 (1), 51-58 (2008)
- Becker, J., Zankl, M., Fill, U., Hoeschen, C.: About Katja, a virtual human phantom of a 24-week pregnant woman. *Scientific Reports: J. Univ. Appl. Sci. Mittweida Nr. 3 (Medizintechnik)*, 5-7 (2007)
- Bolch, W.E.*, Shah, A.P.*, Watchman, C.J.*, Jokisch, D.W.*, Patton, P.W.*, Rajon, D.A.*, Zankl, M., Petoussi-Henss, N., Eckerman, K.F.*: Skeletal absorbed fractions for electrons in the adult male : Considerations of a revised 50- μm definition of the bone endosteum. *Radiat. Prot. Dosimetry* 127 (1-4), 169-173 (2007)
- Brown, J.E.*, Alfonso, B.*, Avila, R.*, Beresford, N.A.*, Copplestone, D.*, Pröhl, G., Ulanovsky, A.: The ERICA Tool. *J. Environ. Radioact.* 99 (9), 1371-1383 (2008)
- de la Heras, H., Tischenko, O., Xu, Y.*, Hoeschen, C.: Comparison of interpolation functions to improve a rebinning-free CT-reconstruction algorithm. *Z. Med. Phys.* 18 (1), 7-16 (2008)
- de las Heras, H., Tischenko, O., Renger, B.*, Xu, Y.*, Hoeschen, C.: Experimental proof of an idea for a CT-scanner with dose reduction potential. *Proceedings of SPIE ; Vol. 6913, Medical Imaging 2008: Physics of Medical Imaging*, Hsieh, J. ; Samei, E. [Eds.], S. 691307 (2008)
- Deak, P.*, van Straten, M.*, Shrimpton, P.C.*, Zankl, M., Kalender, W.A.*: Validation of a Monte Carlo tool for patient-specific dose simulations in multi-slice computed tomography.. *Eur. Radiol.* 18 (4), 759-772 (2008)
- Degteva, M.O.*, Bougrov, N.G.*, Vorobiova, M.I., Jacob, P., Göksu, H.Y.: Evaluation of anthropogenic dose distribution amongst building walls at the Metlino area of the upper Techa River region. *Radiat. Environ. Biophys.* 47 (4), 469-479 (2008)
- Dingfelder, M.*, Ritchie, R.H.*, Turner, J.E.*, Friedland, W., Paretzke, H.G., Hamm, R.N.*: Comparisons of calculations with PARTRAC and NOREC : Transport of electrons in liquid water. *Radiat. Res.* 169 (5), 584-594 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Radiation Protection

Eckerman, K.F.*, Bolch, W.E.*, Zankl, M., Petoussi-Henss, N.: Response functions for computing absorbed dose to skeletal tissues from photon irradiation. *Radiat. Prot. Dosimetry* 127 (1-4), 187-191 (2007)

Eidemüller, M., Ostroumova, E.*, Krestinina, L.*, Akleyev, A.*, Jacob, P.: Analysis of solid cancer mortality in the techa river cohort using the two-step clonal expansion model. *Radiat. Res.* 169 (2), 138-148 (2008)

Friedland, W., Paretzke, H.G., Ballarini, F.*, Ottolenghi, A.*, Kreth, G.*, Cremer, C.*: First steps towards systems radiation biology studies concerned with DNA and chromosome structure within living cells. *Radiat. Environ. Biophys.* 47 (1), 49-61 (2008)

Gerstmann, U.: Comment on "Sequential determination of Pu and Am radioisotopes in environmental samples; a comparison of two separation procedures" by R. Jakopic, P. Tavcar and L. Benedik, *Appl. Radiat. Isot.* 65 (2007) 504-511. *Appl. Radiat. Isot.* 66 (3), 332-333 (2008)

Gerstmann, U.C., Szymczak, W., Höllriegl, V., Li, W.B., Roth, P., Schramel, P., Takenaka, S., Oeh, U.: Investigations on the solubility of corrosion products on depleted uranium projectiles by simulated body fluids and the consequences on dose assessment. *Radiat. Environ. Biophys.* 47 (2), 205-212 (2008)

Giussani, A., Cantone, M.C.*, Gerstmann, U., Greiter, M., Hertenberger, R.*, Höllriegl, V., Leopold, K., Veronese, I.*, Oeh, U.: Biokinetics of ruthenium isotopes in humans and its dependence on chemical speciation. 12th International Congress of the International Radiation Protection Association, CD-ROM (2008)

Giussani, A., Cantone, M.C.*, Höllriegl, V., Oeh, U., Tavola, F.*, Veronese, I.*: Modelling urinary excretion of molybdenum after oral and intravenous administration of stable tracers. *Radiat. Prot. Dosimetry* 127 (1-4), 136-139 (2007)

Giussani, A., Gerstmann, U., Guzzi, G.*, La Porta, C.*, Cantone, M.C.*, Veronese, I.*: Natural radioactivity in zirconia-based dental ceramics. 12th International Congress of the International Radiation Protection Association, CD-ROM (2008)

Giussani, A., Nosske, D.*, Birchall, A.*, Blanchardon, E.*, Breustedt, B.*, Luciani, A.*, Marsh, J.*, Oeh, U., Ratia, G.*, Lopez, M.A.*: Characterisation, implementation and quality assurance of biokinetic models. The experience of the CONRAD Task Group 5.2. 12th International Congress of the International Radiation Protection Association, CD-ROM (2008)

Giussani, A.: A recycling systemic model for the biokinetics of molybdenum radionuclides. *Sci. Total Environ.* 404 (1), 44-55 (2008)

Gómez-Ros, J.M.*, de Carlan, L.*, Franck, D.*, Gualdrini, G.*, Lis, M.*, López, M.A.*, Moraleda, M.*, Zankl, M.: Analysis of a computational problem involving complex voxel geometries. *Radiat. Prot. Dosimetry* 131 (1), 24-27 (2008)

Gómez-Ros, J.M.*, de Carlan, L.*, Franck, D.*, Gualdrini, G.*, Lis, M.*, López, M.A.*, Moraleda, M.*, Zankl, M.: Monte Carlo modelling for in vivo measurements of americium in a knee voxel phantom: general criteria for an international comparison. *Radiat. Prot. Dosimetry* 127 (1-4), 245-248 (2007)

Gómez-Ros, J.M.*, Pröhl, G., Ulanovsky, A., Lis, M.*: Uncertainties of internal dose assessment for animals and plants due to non-homogeneously distributed radionuclides. *J. Environ. Radioact.* 99 (9), 1449-1455 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Radiation Protection

Gomez-Ros, J.M.*, Zankl, M. et al. (26 Coauthors): Monte Carlo modelling of Germanium detectors for the measurement of low energy photons in internal dosimetry : Results of an international comparison. *Radiat. Meas.* 43 (2-6), 510-515 (2008)

Greiter, M. et al. (13 Coauthors): Measurement techniques for tracer kinetic studies with stable isotopes of zirconium. *Radiat. Prot. Dosimetry* 127 (1-4), 266-269 (2007)

Gualdrini, G.*, Zankl, M. et al. (18 Coauthors): Analysis of the CONRAD computational problems expressing only stochastic uncertainties : Neutrons and protons. *Radiat. Prot. Dosimetry* 131 (1), 7-14 (2008)

Güttler, A., Wieser, A.: EPR-dosimetry with tooth enamel for low doses. *Radiat. Meas.* 43 (2-6), 819-822 (2008)

Heidenreich, W.F., Paretzke, H.G.: Promotion of initiated cells by radiation-induced cell inactivation. *Radiat. Res.* 170 (5), 613-617 (2008)

Höllriegel, V., Li, W.B., Greiter, M., Oeh, U.: Plasma clearance and urinary excretion after intravenous injection of stable ⁸⁴Sr in humans. *Radiat. Prot. Dosimetry* 127 (1-4), 144-147 (2007)

Jacob, P., Walsh, L., Eidemüller, M.: Modeling of cell inactivation and carcinogenesis in the atomic bomb survivors with applications to the mortality from all solid, stomach and liver cancer. *Radiat. Environ. Biophys.* 47 (3), 375-388 (2008)

Jacob, P.: Promoting action of radiation in the atomic bomb survivor cancer incidence data. *Radiat. Res.* 169, 602-604 (2008)

Karinda, F.L., Haider, B., Rühm, W.: A new electronic personal exposure meter for radon gas. *Radiat. Meas.* 43 (2-6), 1170-1174 (2008)

Keck, L., Hoeschen, C., Oeh, U.: Effects of carbon dioxide in breath gas on proton transfer reaction-mass spectrometry (PTR-MS) measurements. *Int. J. Mass Spectrom.* 270 (3), 156-165 (2008)

Leuthold, G., Mares, V., Rühm, W., Weitzenegger, E., Paretzke, H.G.: Long-term measurements of cosmic ray neutrons by means of a Bonner spectrometer at mountain altitudes - first results. *Radiat. Prot. Dosimetry* 126 (1-4), 506-511 (2007)

Li, W.B., Gerstmann, U., Giussani, A.*, Oeh, U., Paretzke, H.G.: Internal dose assessment of (²¹⁰Po) using biokinetic modeling and urinary excretion measurement. *Radiat. Environ. Biophys.* 47 (1), 101-110 (2008)

Li, W.B., Höllriegel, V., Roth, P., Oeh, U.: Influence of human biokinetics of strontium on internal ingestion dose of ⁹⁰Sr and absorbed dose of ⁸⁹Sr to organs and metastases. *Radiat. Environ. Biophys.* 47 (2), 225-239 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Radiation Protection

Li, W.B., Oeh, U., Paretzke, H.G.: Comparisons of ²³⁹Pu inhalation doses calculated with ICRP 67 and proposed systemic models. *Radiat. Prot. Dosimetry* 127 (1-4), 148-152 (2007)

Li, W.B., Tschiersch, J., Oeh, U., Hoeschen, C.: Lung Dosimetry of Inhaled Thoron Decay Products. 12th International Congress of the International Radiation Protection Association, CD-ROM (2008)

Li, W.B., Wahl, W., Oeh, U., Höllriegl, V., Roth, P.: Biokinetic modelling of natural thorium in humans by ingestion. *Radiat. Prot. Dosimetry* 125 (1-4), 500-505 (2007)

Little, M.P.*, Heidenreich, W.F., Moolgavkar, S.H.*, Schöllnberger, H.*, Thomas, D.C.*: Systems biological and mechanistic modelling of radiation-induced cancer. *Radiat. Environ. Biophys.* 47 (1), 39-47 (2008)

Lopez, M.A.*, Giussani, A. et al. (33 Coauthors): Internal dosimetry : Towards harmonisation and coordination of research. *Radiat. Prot. Dosimetry* 131 (1), 28-33 (2008)

Lopez, M.A.*, Oeh, U. et al. (37 Coauthors): Coordination of research on internal dosimetry in Europe: the CONRAD project. *Radiat. Prot. Dosimetry* 127 (1-4), 311-316 (2007)

Mares, V., Leuthold, G.: Altitude-dependent dose conversion coefficients in EPCARD. *Radiat. Prot. Dosimetry* 126 (1-4), 581-584 (2007)

Noßke, D.*, Birchall, A.*, Blanchardon, E.*, Breustedt, B.*, Giussani, A., Luciani, A.*, Oeh, U., Lopez, M.A.*: Development, implementation and quality assurance of biokinetic models within CONRAD. *Radiat. Prot. Dosimetry* 131 (1), 40-45 (2008)

Noßke, D.*, Giussani, A. et al. (11 Coauthors): The work of the CONRAD task group 5.2: research studies on biokinetic models. *Radiat. Prot. Dosimetry* 127 (1-4), 93-96 (2007)

Oeh, U. et al. (12 Coauthors): Implementation of bioassay methods to improve assessment of incorporated radionuclides. *Radiat. Prot. Dosimetry* 125 (1-4), 444-448 (2007)

Oeh, U., Li, W.B., Höllriegl, V., Giussani, A., Schramel, P., Roth, P., Paretzke, H.G.: Daily uranium excretion in German peacekeeping personnel serving on the Balkans compared to ICRP model prediction. *Radiat. Prot. Dosimetry* 127 (1-4), 329-332 (2007)

Petoussi-Henss, N., Bolch, W.E.*, Zankl, M., Sgouros, G.*, Wessels, B.*: Patient-specific scaling of reference S-values for cross-organ radionuclide S-values : What is appropriate? *Radiat. Prot. Dosimetry* 127 (1-4), 192-196 (2007)

Petoussi-Henss, N., Li, W.B., Zankl, M., Eckerman, K.F.*: SEECAL utilizing voxel-based SAFs. *Radiat. Prot. Dosimetry* 127 (1-4), 214-219 (2007)

Publication List 2008

31.12.2008

(* external author)

Institute of Radiation Protection

Picano, E.* , Vano, E.* , Semelka, R.* , Regulla, D.: The American College of Radiology white paper on radiation dose in medicine: deep impact on the practice of cardiovascular imaging. *Cardiovasc. Ultrasound* 5:37, 1-7 (2007)

Regulla, D., Harder, D.*: Strahlenexposition des Patienten in der Radiologie und Fragen zur Dosis-Risiko-Relation bei niedrigen Dosen. *Scientific Reports: J. Univ. Appl. Sci. Mittweida Nr. 3 (Medizintechnik)*, 1-4 (2007)

Rühm, W., Walsh, L.: Current risk estimates based on the A-bomb survivors data - A discussion in terms of the ICRP recommendations on the neutron weighting factor. *Radiat. Prot. Dosimetry* 126 (1), 423-431 (2007)

Schlattl, H., Hoeschen, C.: The built-in capacity of CT D'OR's static ring for scatter correction. *Proceedings of SPIE ; Vol. 6913, Medical Imaging 2008: Physics of Medical Imaging*, Hsieh, J. ; Samei, E. [Eds.], S. 691352 (2008)

Schmitzer, C.* , Höllriegl, V. et al. (12 Coauthors): Improvements in routine internal monitoring— an overview of the IDEA project. *Radiat. Prot. Dosimetry* 125 (1-4), 472-476 (2007)

Schneider, K., Kuznetsov, V.K.* , Sanzharova, N.I.* , Kanter, U., Telikh, K.M.* , Khlopuk, M.S.*: Soil-to-plant and soil-to-grain transfer of (137)Cs in field-grown maize hybrids during two contrasting seasons : Assessing the phenotypic variability and its genetic component. *Radiat. Environ. Biophys.* 47 (2), 241-252 (2008)

Seidenbusch, M.C.* , Regulla, D., Schneider, K.*: Zur Strahlenexposition von Kindern in der pädiatrischen Radiologie. Teil 2: Der PÄDOS-Algorithmus zur rechnergestützten Dosisrekonstruktion in der Kinderradiologie am Beispiel der Röntgenuntersuchung des Schädels. *Rofo* 180 (6), 522-539 (2008)

Shang, B.* , Tschiersch, J., Cui, H.* , Xia, Y.*: Radon survey in dwellings of Gansu, China : the influence of thoron and an attempt for correction. *Radiat. Environ. Biophys.* 47 (3), 367-373 (2008)

Steppich, D.M.* , Angerer, J.I.* , Sritharan, K.* , Schneider, S.W.* , Thalhammer, S., Wixforth, A.* , Alexander-Katz, A.* , Schneider, M.F.*: Relaxation of ultralarge VWF bundles in a microfluidic-AFM hybrid reactor. *Biochem. Biophys. Res. Commun.* 369 (2), 507-512 (2008)

Steppich, D.M.* , Thalhammer, S., Wixforth, A.*: Nanomechanics and Microfluidics as a Tool for Unraveling Blood Clotting Disease. *NanoScience and Technology, Applied Scanning Probe Methods XIII: Biomimetics and Industrial Applications*, Bhushan B.; Fuchs H. [Eds.], Heidelberg : Springer, 105-135 (2008)

Thiessen, K.M.* , Kaiser, J.C. et al. (16 Coauthors): Improvement of modelling capabilities for assessing urban contamination : the EMRAS Urban Remediation Working Group. *Appl. Radiat. Isot.* 66 (11), 1741-1744 (2008)

Tschiersch, J., Li, W.B., Meisenberg, O.: Increased indoor thoron concentrations and implication to inhalation dosimetry. *Radiat. Prot. Dosimetry* 127 (1-4), 73-78 (2007)

Ulanovsky, A., Pröhl, G., Gómez-Ros, J.M.*: Methods for calculating dose conversion coefficients for terrestrial and aquatic biota. *J. Environ. Radioact.* 99 (9), 1440-1448 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Radiation Protection

Ulanovsky, A., Pröhl, G.: Tables of dose conversion coefficients for estimating internal and external radiation exposures to terrestrial and aquatic biota. *Radiat. Environ. Biophys.* 47 (2), 195-203 (2008)

Veronese, I.*, Fattibene, P.*, Cantone, M.C.*, de Coste, V.*, Giussani, A., Onori, S.*, Shishkina, E.A.*: EPR and TL-based beta dosimetry measurements in various tooth components contaminated by ⁹⁰Sr. *Radiat. Meas.* 43 (2-6), 813-818 (2008)

Veronese, I.*, Göksu, H.Y., Schwenk, P.*, Herzig, F.*: Thermoluminescence dating of a mikveh in Ichenhausen, Germany. *J. Environ. Radioact.* 99 (4), 621-630 (2008)

Wershofen, H.*, Bieringer, J.*, Frenzel, S.*, Kanisch, G.*, Katzlberger, C.*, Steinkopff, T*, Tschiersch, J., Völkle, H.*: An inter-laboratory comparison of low-level measurements in ground-level aerosol monitoring. *Appl. Radiat. Isot.* 66 (6-7), 737-741 (2008)

Wielunski, M., Wahl, W., El-Faramawy, N., Rühm, W., Luszik-Bhadra, M.*, Roos, H.*: Intercomparison exercise with MeV neutrons using various electronic personal dosimeters. *Radiat. Meas.* 43 (2-6), 1063-1067 (2008)

Wieser, A., Fattibene, P.*, Shishkina, E.A.*, Ivanov, D.V.*, de Coste, V.*, Güttler, A., Onori, S.*: Assessment of performance parameters for EPR dosimetry with tooth enamel. *Radiat. Meas.* 43 (2-6), 731-736 (2008)

Woda, C., Fuchs, M.*: On the applicability of the leading edge method to obtain equivalent doses in OSL dating and dosimetry. *Radiat. Meas.* 43 (1), 26-37 (2008)

Woide, D., Mayer, V., Thalhammer, S.: Non-contact manipulation of single cells. 11. International Conference on New Actuators and 5. International Exhibition on Smart Actuators and Drive Systems. Conference Proceedings, Borgmann, H. [Ed.], Bremen : HVG Hanseatische Veranstaltungs-GmbH, 79-85 (2008)

Woide, D., Schlentner, V., Neumaier, T., Wachtmeister, T., Paretzke, H.G., von Guttenberg, Z.*, Wixforth, A.*, Thalhammer, S.: Programmable cytogenetic submicrolitre lab-on-a-chip for molecular diagnostic applications. *Biodevices 2008. Proceedings of the first international conference on biomedical electronics and devices*, 265-271 (2008)

Zankl, M., Eckerman, K.F.*, Bolch, W.E.*: Voxel-based models representing the male and female ICRP reference adult--the skeleton. *Radiat. Prot. Dosimetry* 127 (1-4), 174-186 (2007)

Zankl, M., Schlattl, H., Becker, J., Petoussi-Hens, N., Hoeschen, C.: Voxel models representing the male and female ICRP reference adult: a dosimetric tool for medical imaging. *Proceedings of SPIE ; Vol. 6913, Medical Imaging 2008: Physics of Medical Imaging*, Hsieh, J. ; Samei, E. [Eds.], S. 69130X (2008)

Zankl, M.: State of the art of voxel phantom development. *Uncertainty Assessment in Computational Dosimetry: A comparison of approaches*, Gualdrini, G.; Ferrari, P. [Eds.], CD-ROM (2007)

Publication List 2008

31.12.2008

(* external author)

Institute of Soil Ecology

Akagi, J., Zsolnay, A.: Effects of long-term de-vegetation on the quantity and quality of water extractable organic matter (WEOM): Biogeochemical implications. *Chemosphere* 72 (10), 1462-1466 (2008)

Bastida, F.*, Zsolnay, A., Hernández, T., Garcia, C.*: Past, present and future of soil quality indices : A biological perspective. *Geoderma* 147 (3-4), 159-171 (2008)

Bausenwein, U., Gattinger, A., Langer, U.*, Embacher, A., Hartmann, H.-P., Sommer, M.*, Munch, J.C., Schloter, M.: Exploring soil microbial communities and soil organic matter: Variability and interactions in arable soils under minimum tillage practice. *Agric., Ecosyst. Environ., Appl. Soil Ecol.* 40 (1), 67-77 (2008)

Don, A.*, Steinberg, B.*, Schöning, I.*, Pritsch, K., Joschko, M.*, Gleixner, G.*, Schulze, E.-D.*: Organic carbon sequestration in earthworm burrows. *Soil Biol. Biochem.* 40 (7), 1803-1812 (2008)

Embacher, A., Zsolnay, A., Gattinger, A., Munch, J.C.: The dynamics of water extractable organic matter (WEOM) in common arable topsoils : II. Influence of mineral and combined mineral and manure fertilization in a Haplic Chernozem. *Geoderma* 148 (1), 63-69 (2008)

Fiedler, S.*, Höll, B.S.*, Freibauer, A.*, Stahr, K.*, Drösler, M.*, Schloter, M., Jungkunst, H.F.*: The relevance of particulate organic carbon (POC) for carbon composition in the pore water of drained and rewetted fens of the 'Donauried' (South-Germany). *Biogeosci. Discuss.* 5, 2049-2073 (2008)

Fiedler, S.*, Höll, S.*, Freibauer, A.*, Stahr, K.*, Drösler, M.*, Schloter, M., Jungkunst, H.F.*: Particulate organic carbon (POC) in relation to other pore water carbon fractions in drained and rewetted fens in Southern Germany. *Biogeosciences* 5, 1615-1623 (2008)

Fuka, M. M., Engel, M., Haesler, F., Welzl, G., Munch, J. C., Schloter, M.: Diversity of proteolytic community encoding for subtilisin in an arable field: spatial and temporal variability. *Biol. Fertil. Soils* 45 (2), 185-191 (2008)

Fuka, M.M., Engel, M., Gattinger, A., Bausenwein, U., Sommer, M.*, Munch, J.C., Schloter, M.: Factors influencing variability of proteolytic genes and activities in arable soils. *Soil Biol. Biochem.* 40 (7), 1646-1653 (2008)

Gayler, S., Grams, T.E.E.*, Heller, W., Treutter, D.*, Priesack, E.: A dynamical model of environmental effects on allocation to carbon-based secondary compounds in juvenile trees. *Ann. Bot.* 101 (8), 1089-1098 (2008)

Gayler, S., Priesack, E.: PLATHO - a dynamic plant growth model considering competition between individuals and allocation to carbon-based secondary compounds. *Second International Symposium on Plant Growth Modeling, Simulation, Visualization and Applications*, Fourcaud, T. ; Zhang, X.P. [Eds.], Los Alamitos, CA : IEEE Computer Society, 85-92 (2008)

Grundmann, S., Dörfler, U., Ruth, B., Loos, C., Wagner, T., Karl, H., Munch, J.-C., Schroll, R.: Mineralization and transfer processes of ¹⁴C-labeled pesticides in outdoor lysimeters. *Water Air Soil Pollut.: Focus* 8, 177-185 (2008)

Haesler, F., Hagn, A., Frommberger, M., Hertkorn, N., Schmitt-Kopplin, P., Munch, J.C., Schloter, M.: In vitro antagonism of an actinobacterial *Kitasatospora* isolate against the plant pathogen *Phytophthora citricola* as elucidated with ultrahigh resolution mass spectrometry. *J. Microbiol. Methods* 75 (2), 188-195 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Soil Ecology

Hagn, A., Engel, M., Kleikamp, B.*, Munch, J.C., Schloter, M., Bruns, C.*: Microbial community shifts in *Pythium ultimum* -inoculated suppressive substrates. *Biol. Fertil. Soils* 44 (3), 481-490 (2008)

Huic Babic, K., Schauss, K., Hai, B., Sikora, S.*, Redzepovic, S.*, Radl, V., Schloter, M.: Influence of different *Sinorhizobium meliloti* inocula on abundance of genes involved in nitrogen transformations in the rhizosphere of alfalfa (*Medicago sativa* L.). *Environ. Microbiol.* 10 (11), 2922-2930 (2008)

Kämpfer, P.*, Sessitsch, A.*, Schloter, M., Huber, B.*, Busse, H.J.*, Scholz, H.C.*: *Ochrobactrum rhizosphaerae* sp. nov. and *Ochrobactrum thiophenivorans* sp. nov., isolated from the environment. *Int. J. Syst. Evol. Microbiol.* 58 (6), 1426-1431 (2008)

Khan, K.S.*, Gattinger, A., Buegger, F., Schloter, M., Joergensen, R.G.*: Microbial use of organic amendments in saline soils monitored by changes in the ¹³C/¹²C ratio. *Soil Biol. Biochem.* 40 (5), 1217-1224 (2008)

Klier, C., Grundmann, S., Gayler, S., Priesack, E.: Modelling the environmental fate of the herbicide glyphosate in soil lysimeters. *Water Air Soil Pollut.: Focus* 8 (2), 187-207 (2008)

Kotzerke, A.*, Sharma, S., Schauss, K., Heuer, H.*, Thiele-Bruhn, S.*, Smalla, K.*, Wilke, B.M.*, Schloter, M.: Alterations in soil microbial activity and N-transformation processes due to sulfadiazine loads in pig-manure. *Environ. Pollut.* 153 (2), 315-322 (2008)

Kreyling, J.*, Beierkuhnlein, C.*, Elmer, M.*, Pritsch, K., Radovski, M.*, Schloter, M., Wöllecke, J.*, Jentsch, A.*: Soil biotic processes remain remarkably stable after 100-year extreme weather events in experimental grassland and heath. *Plant Soil* 308 (1-2), 175-188 (2008)

Kreyling, J.*, Beierkuhnlein, C.*, Pritsch, K., Schloter, M., Jentsch, A.*: Recurrent soil freeze-thaw cycles enhance grassland productivity. *New Phytol.* 177 (4), 938-945 (2008)

Le Roux, X.*, Poly, F.*, Currey, P.*, Commeaux, C.*, Hai, B., Nicol, G.W.*, Prosser, J.I.*, Schloter, M., Attard, E.*, Klumpp, K.*: Effects of aboveground grazing on coupling among nitrifier activity, abundance and community structure. *ISME J.* 2 (2), 221-232 (2008)

Pérez-de-Mora, A., Madejón E.*, Cabrera, F.*, Buegger, F., Fuß, R., Pritsch, K., Schloter, M.: Long-term impact of acid resin waste deposits on soil quality of forest areas I. Contaminants and abiotic properties. *Sci. Total Environ.* 406 (1-2), 88-98 (2008)

Pérez-de-Mora, A., Madejón E.*, Cabrera, F.*, Buegger, F., Fuß, R., Pritsch, K., Schloter, M.: Long-term impact of acid resin waste deposits on soil quality of forest areas II. Biological indicators. *Sci. Total Environ.* 406 (1-2), 99-107 (2008)

Priesack, E., Berkenkamp, A., Gaylor, S., Hartmann, H.P., Loos, C.: Development and application of agroecosystem models. *Perspectives for Agroecosystem Management : Balancing Environmental and Socio-Economic Demands*, Schröder, P.; Pfadenhauer, J.; Munch, J.C., Amsterdam : Elsevier, 329-349 (2008)

Pritsch, K. et al. (15 Coauthors): Plant and soil system responses to ozone after 3 years in a lysimeter study with Juvenile Beech (*Fagus sylvatica* L.). *Water Air Soil Pollut.: Focus* 8, 139-154 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Soil Ecology

- Rothballer, M., Eckert, B., Schmid, M., Fekete, A., Schlöter, M., Lehner, A.*, Pollmann, S.*, Hartmann, A.: Endophytic root colonization of gramineous plants by *Herbaspirillum frisingense*. *FEMS Microbiol. Ecol.* 66 (1), 85-95 (2008)
- Ruth, B., Grundmann, S., Schroll, R.: Simulation of Exterior Conditions in Permanently Closed Soil Chambers by Controlling Air Flow, Soil Water Content, and Temperature. *Water Air Soil Pollut.: Focus* 8 (2), 243-250 (2008)
- Scheel, T.*, Pritsch, K., Schlöter, M., Kalbitz, K.*: Precipitation of enzymes and organic matter by aluminum - Impacts on carbon mineralization. *J. Plant Nutr. Soil Sci.* 171 (6), 900-907 (2008)
- Schlöter, M., Schauss, K., Munch, J.C., Radl, V.*, Hai, B., Gättinger, A.*: Emission von Treibhausgasen aus landwirtschaftlich genutzten Böden. *BIOspektrum (Heidelb.)* 14 (2), 2-3 (2008)
- Scholz, H.C.*, Al Dahouk, S.*, Tomaso, H.*, Neubauer, H.*, Witte, A.*, Schlöter, M., Kämpfer, P.*, Falsen, E.*, Pfeffer, M.*, Engel, M.: Genetic diversity and phylogenetic relationships of bacteria belonging to the *Ochrobactrum-Brucella* group by *recA* and 16S rRNA gene-based comparative sequence analysis. *Syst. Appl. Microbiol.* 31 (1), 1-16 (2008)
- Schroll, R., Grundmann, S., Dörfler, U., Ruth, B., Munch, J.C.: Lysimeter experiments to investigate the fate of chemicals in soils – Comparison of five different lysimeter systems. *Water Air Soil Pollut.: Focus* 8 (2), 209-216 (2008)
- Wagner, T., Arango Isaza, L.M., Grundmann, S., Dörfler, U., Schroll, R., Schlöter, M., Hartmann, A., Sandermann, H., Ernst, D.: The probability of a horizontal gene transfer from Roundup Ready soybean to root symbiotic bacteria: A risk assessment study on the GSF lysimeter station. *Water Air Soil Pollut.: Focus* 8, 155-162 (2008)
- Yevdokimov, I.*, Gättinger, A.*, Buegger, F., Munch, J.C., Schlöter, M.: Changes in microbial community structure in soil as a result of different amounts of nitrogen fertilization. *Biol. Fertil. Soils* 44 (8), 1103-1106 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Stem Cell Research

- Arakawa, H., Kudo, H., Batrak, V., Caldwell, R.B., Rieger, M.A., Ellwart, J.W., Buerstedde J.M.: Protein evolution by hypermutation and selection in the B cell line DT40. *Nucleic Acids Res.* 36 (1):e1, 1-11 (2008)
- Bender, A.*, Beckers, J. et al. (19 Coauthors): Creatine improves health and survival of mice. *Neurobiol. Aging* 29 (9), 1404-1411 (2008)
- Bergami, M.*, Rimondini, R.*, Santi, S.*, Blum, R.*, Götz, M., Canossa, M.*: Deletion of TrkB in adult progenitors alters newborn neuron integration into hippocampal circuits and increases anxiety-like behavior. *Proc. Natl. Acad. Sci. U.S.A.* 105 (40), 15570-15575 (2008)
- Bonilla, S.*, Hall, A.C.*, Pinto, L., Attardo, A., Götz, M., Huttner, W.B., Arenas, E.*: Identification of midbrain floor plate radial glia-like cells as dopaminergic progenitors. *Glia* 56 (8), 809-820 (2008)
- Brill, M.S., Snappyan, M.*, Wohlfrom, H., Ninkovic, J., Jawerka, M., Mastick, G.S.*, Ashery-Padan, R.*, Saghatelian, A.*, Berninger, B., Götz, M.: A Dlx2- and Pax6-dependent transcriptional code for periglomerular neuron specification in the adult olfactory bulb. *J. Neurosci.* 28 (25), 6439-6452 (2008)
- Buffo, A., Rite, I., Tripathi, P., Lepier, A.*, Colak, D., Horn, A.P., Mori, T., Götz, M.: Origin and progeny of reactive gliosis : A source of multipotent cells in the injured brain. *Proc. Natl. Acad. Sci. U.S.A.* 105 (9), 3581-3586 (2008)
- Colak, D., Mori, T., Brill, M.S., Pfeifer, A.*, Falk, S.*, Deng, C.*, Monteiro, R.*, Mummery, C.*, Sommer, L.*, Götz, M.: Adult neurogenesis requires Smad4-mediated bone morphogenetic protein signaling in stem cells. *J. Neurosci.* 28 (2), 434-445 (2008)
- Costa, M.R., Wen, G., Lepier, A.*, Schroeder, T., Götz, M.: Par-complex proteins promote proliferative progenitor divisions in the developing mouse cerebral cortex. *Development* 135 (1), 11-28 (2008)
- David, R.*, Lickert, H. et al. (11 Coauthors): MesP1 drives vertebrate cardiovascular differentiation through Dkk-1-mediated blockade of Wnt-signalling. *Nat. Cell Biol.* 10 (3), 338-345 (2008)
- Dimou, L.*, Simon, C.*, Kirchhoff, F.*, Takebayashi, H.*, Goetz, M.: Progeny of Olig2-expressing progenitors in the gray and white matter of the adult mouse cerebral cortex.. *J. Neurosci.* 28 (41), 10434-10442 (2008)
- Drew, E., Schroeder, T.: The Big Brother of Blood: The Need for Constant Video Surveillance of Individual Cells. *New Cell Differentiation Research Topics*, Saitama, H. [Ed.], Hauppauge, NY : Nova Science Publishers, 229-246 (2008)
- Egea, J.*, Burtscher, I. et al. (12 Coauthors): Genetic ablation of FLRT3 reveals a novel morphogenetic function for the anterior visceral endoderm in suppressing mesoderm differentiation. *Genes Dev.* 22 (23), 3349-3362 (2008)
- Falk, S.*, Schmid, M.-T. et al. (15 Coauthors): Brain area-specific effect of TGF-beta signaling on Wnt-dependent neural stem cell expansion. *Cell Stem Cell* 2 (5), 472-483 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Stem Cell Research

Hartl, D.* , Irmeler, M., Römer, I.* , Mader, M.T., Mao, L.* , Zabel, C.* , Hrabé de Angelis, M., Beckers, J., Klose, J.* : Transcriptome and proteome analysis of early embryonic mouse brain development. *Proteomics* 8 (6), 1257-1265 (2008)

Henning, K.* , Heering, J.* , Schwanbeck, R.* , Schroeder, T., Helmbold, H.* , Schäfer, H.* , Deppert, W.* , Kim, E.* , Just, U.* : Notch1 activation reduces proliferation in the multipotent hematopoietic progenitor cell line FDCP-mix through a p53-dependent pathway but Notch1 effects on myeloid and erythroid differentiation are independent of p53. *Cell Death Differ.* 15 (2), 398-407 (2008)

Klier, M., Anastasov, N., Hermann, A., Meindl, T., Angermeier, D., Raffeld, M.* , Fend, F.* , Quintanilla-Martinez, L.: Specific lentiviral shRNA-mediated knockdown of cyclin D1 in mantle cell lymphoma has minimal effects on cell survival and reveals a regulatory circuit with cyclin D2. *Leukemia* 22 (11), 2097-2105 (2008)

Leucht, C., Stigloher, C., Wizenmann, A., Klafke, R., Folchert, A., Bally-Cuif, L.: MicroRNA-9 directs late organizer activity of the midbrain-hindbrain boundary. *Nat. Neurosci.* 11 (6), 641-648 (2008)

Pinto, L. et al. (11 Coauthors): Prospective isolation of functionally distinct radial glial subtypes--lineage and transcriptome analysis. *Mol. Cell. Neurosci.* 38 (1), 15-42 (2008)

Rastelli, J., Hömig-Hölzel, C., Seagal, J.* , Müller, W.* , Hermann, A.C., Rajewsky, K.* , Zimmer-Strobl, U.: LMP1 signaling can replace CD40 signaling in B cells in vivo and has unique features of inducing class-switch recombination to IgG1. *Blood* 111 (3), 1448-1455 (2008)

Rieger, M.A., Schroeder, T.: Exploring hematopoiesis at single cell resolution. *Cells Tissues Organs (Print)* 188 (1-2), 139-149 (2008)

Schroeder, T.: Imaging stem-cell-driven regeneration in mammals. *Nature* 453 (7153), 345-351 (2008)

Schwanbeck, R.* , Schroeder, T., Henning, K.* , Kohlhof, H., Rieber, N., Erfurth, M.L.* , Just, U.* : Notch signaling in embryonic and adult myelopoiesis. *Cells Tissues Organs (Print)* 188 (1-2), 91-102 (2008)

Tamplin, O.J.* , Kinzel, D., Cox, B.J., Bell, C.E., Rossant, J., Lickert, H.: Microarray analysis of Foxa2 mutant mouse embryos reveals novel gene expression and inductive roles for the gastrula organizer and its derivatives.. *BMC Genomics* 9:511, 1-42 (2008)

Uetzmann, L., Burtscher, I., Lickert, H.: A mouse line expressing Foxa2-driven Cre recombinase in node, notochord, floorplate, and endoderm. *Genesis* 46 (10), 515-522 (2008)

Uez, N., Lickert, H., Kohlhase, J.* , Hrabé de Angelis, M., Kühn, R., Wurst, W., Floss, T.: Sall4 isoforms act during proximal-distal and anterior-posterior axis formation in the mouse embryo. *Genesis* 46 (9), 463-477 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Structural Biology

Black, S.L.*, Stanley, W.A.*, Filipp, F.V.*, Bhairo, M.*, Verma, A.*, Wichmann, O.*, Sattler, M., Wilmanns, M.*, Schultz, C.*: Probing lipid- and drug-binding domains with fluorescent dyes. *Bioorg. Med. Chem.* 16 (3), 1162-1173 (2008)

Corsini, L.*, Hothorn, M.*, Scheffzek, K.*, Sattler, M., Stier, G.*: Thioredoxin as a fusion tag for carrier-driven crystallization. *Protein Sci.* 17 (12), 2070-2079 (2008)

Corsini, L.*, Sattler, M.: Backbone assignment of the UHM domain of Puf60 free and bound to five ligands. *Biomol. NMR Assign.* 2 (2), 211-214 (2008)

Du, T.G.*, Jellbauer, S.*, Müller, M., Schmid, M.*, Niessing, D., Jansen, R.P.*: Nuclear transit of the RNA-binding protein She2 is required for translational control of localized ASH1 mRNA. *EMBO Rep.* 9 (8), 781-787 (2008)

Duszczuk, M.M., Zanier, K.*, Sattler, M.: A NMR strategy to unambiguously distinguish nucleic acid hairpin and duplex conformations applied to a Xist RNA A-repeat. *Nucleic Acids Res.* 36 (22), 7068-7077 (2008)

Gabel, F.*, Simon, B.*, Nilges, M.*, Petoukhov, M.*, Svergun, D.*, Sattler, M.: A structure refinement protocol combining NMR residual dipolar couplings and small angle scattering restraints. *J. Biomol. NMR* 41 (4), 199-208 (2008)

Radzimanowski, J.*, Simon, B.*, Sattler, M., Beyreuther, K.*, Sinning, I.*, Wild, K.*: Structure of the intracellular domain of the amyloid precursor protein in complex with Fe65-PTB2. *EMBO Rep.* 9 (11), 1134-1140 (2008)

Rumpf, J.*, Simon, B.*, Groemping, Y.*, Sattler, M.: H-1, C-13, and N-15 chemical shift assignments for the Eps15-EH2-stonin 2 complex. *Biomol. NMR Assign.* 2 (1), 55-58 (2008)

Rumpf, J.*, Simon, B.*, Jung, N.*, Maritzen, T.*, Haucke, V.*, Sattler, M., Groemping Y.*: Structure of the Eps15-stonin2 complex provides a molecular explanation for EH-domain ligand specificity. *EMBO J.* 27 (3), 558-569 (2008)

Publication List 2008

31.12.2008

(* external author)

Institute of Toxicology

Andrae, U., Speit, G.*: In vitro tests for genotoxicity. *Toxicology and Risk Assessment : A Comprehensive Introduction*, Greim, H. ; Snyder, R. [Eds.], Hoboken : John Wiley & Sons, 385-406 (2008)

Battke, F., Ernst, D., Fleischmann, F.*, Halbach, S.: Phytoreduction and volatilization of mercury by ascorbate in *Arabidopsis thaliana*, European beech and Norway spruce. *Appl. Geochem.* 23 (3), 494-502 (2008)

Braun, R.J., Zischka, H.: Mechanisms of Cdc48/VCP-mediated cell death: from yeast apoptosis to human disease. *BBA - Molecular Cell Research* 1783 (7), 1418-1435 (2008)

Filser, J.G., Hutzler, C.*, Rampf, F., Kessler, W., Faller, T.H., Leibold, E.*, Pütz, C., Halbach, S., Csanády, G.A.: Concentrations of the propylene metabolite propylene oxide in blood of propylene-exposed rats and humans--a basis for risk assessment. *Toxicol. Sci.* 102 (2), 219-231 (2008)

Halbach, S., Vogt, S.*, Köhler, W.*, Felgenhauer, N.*, Welzl, G., Kremers, L.*, Zilker, T.*, Melchart, D.*: Blood and urine mercury levels in adult amalgam patients of a randomized controlled trial : Interaction of Hg species in erythrocytes. *Environ. Res.* 107 (1), 69-78 (2008)

Klier, M., Anastasov, N., Hermann, A., Meindl, T., Angermeier, D., Raffeld, M.*, Fend, F.*, Quintanilla-Martinez, L.: Specific lentiviral shRNA-mediated knockdown of cyclin D1 in mantle cell lymphoma has minimal effects on cell survival and reveals a regulatory circuit with cyclin D2. *Leukemia* 22 (11), 2097-2105 (2008)

Kümmel, D.*, Oeckinghaus, A., Wang, C.*, Krappmann, D., Heinemann, U.*: Distinct isocomplexes of the TRAPP trafficking factor coexist inside human cells. *FEBS Lett.* 582 (27), 3729-3733 (2008)

Melchart, D.*, Halbach, S. et al. (10 Coauthors): Treatment of health complaints attributed to amalgam. *J. Dent. Res.* 87 (4), 349-353 (2008)

Melchart, D.*, Köhler, W.*, Linde, K.*, Zilker, T.*, Kremers, L.*, Saller, R.*, Halbach, S.: Biomonitoring of mercury in patients with complaints attributed to dental amalgam, healthy amalgam bearers, and amalgam-free subjects : a diagnostic study. *Clin. Toxicol. (Phila)* 46 (2), 133-140 (2008)

Moerth, C. et al. (21 Coauthors): Evaluation of polymerase chain reaction methods for detection of murine *Helicobacter* in nine diagnostic laboratories. *Lab Anim. (NY)* 37 (11), 521-527 (2008)

Sarioglu, H., Brandner, S., Habegger, M., Jacobsen, C., Lichtmannegger, J., Wormke, M., Andrae, U.: Analysis of 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced proteome changes in 5L rat hepatoma cells reveals novel targets of dioxin action including the mitochondrial apoptosis regulator VDAC2. *Mol. Cell. Proteomics* 7 (2), 394-410 (2008)

Summer, K.H., Halbach, S., Kappus, H.*: Toxicity of selected chemicals : Metals. *Toxicology and Risk Assessment: A Comprehensive Introduction*, Greim, H.; Snyder, R. [Eds.], New York [u.a.] : John Wiley & Sons, 534-564 (2008)

Trivedi, C. M.*, Floss, T. et al. (13 Coauthors): Hdac2 regulates the cardiac hypertrophic response by modulating Gsk3 beta activity. *Nat. Med.* 13 (3), 324-331 (2007)

Publication List 2008

31.12.2008

(* external author)

Institute of Toxicology

Upadhyay, S. et al. (12 Coauthors): Exposure to ultrafine carbon particles at levels below detectable pulmonary inflammation affects cardiovascular performance in spontaneously hypertensive rats. Part. Fibre Toxicol. 5 (19) (2008)

Upadhyay, S., Carstens, J., Klein, D. *, Faller, T.H., Halbach, S., Kirchinger, W., Kessler, W., Csanády, G.A., Filser J.G.: Inhalation and epidermal exposure of volunteers to ethylene glycol: Kinetics of absorption, urinary excretion, and metabolism to glycolate and oxalate. Toxicol. Lett. 178 (2), 131-141 (2008)

Wegener, E., Krappmann, D.: Dynamic protein complexes regulate NF-kB signaling. Handbook of Experimental Pharmacology ; Vol. 186, Protein-Protein Interactions as New Drug Targets, Klussmann, E. ; Scott, J. [Eds.], Berlin : Springer, 237-259 (2008)

Winkelmann, I. *, Diehl, D. *, Oesterle, D., Daniel, H. *, Wenzel, U. *: The suppression of aberrant crypt multiplicity in colonic tissue of 1,2-dimethylhydrazine-treated C57BL/6J mice by dietary flavone is associated with an increased expression of Krebs cycle enzymes. Carcinogenesis 28 (7), 1446-1454 (2007)

Zischka, H. et al. (11 Coauthors): Electrophoretic analysis of the mitochondrial outer membrane rupture induced by permeability transition. Anal. Chem. 80 (13), 5051-5058 (2008)

Zischka, H., Kinkl, N., Braun, R.J., Ueffing, M.: Purification of *Saccharomyces cerevisiae* mitochondria by zone electrophoresis in a free flow device. Methods Mol. Biol. 432, 51-64 (2008)

Zischka, H., Lichtmanegger, J., Jaegemann, N., Jennen, L., Hamöller, D., Huber, E., Walch, A., Summer, K.H., Göttlicher, M.: Isolation of highly pure rat liver mitochondria with the aid of zone-electrophoresis in a free flow device (ZE-FFE). Methods in Molecular Biology ; Vol. 424: 2D PAGE: Sample Preparation and Fractionation, Vol. 1, Posch, A. [Ed.], Totowa, NJ : Human Press, 333-348 (2008)

Publication List 2008

31.12.2008

(* external author)

Department of Comparative Medicine

Bender, A.* , Beckers, J. et al. (19 Coauthors): Creatine improves health and survival of mice. *Neurobiol. Aging* 29 (9), 1404-1411 (2008)

Ejegod, D.* , Sørensen, K.D.* , Moßbrugger, I., Quintanilla-Martinez, L., Schmidt, J., Pedersen, F.S.*: Control of pathogenicity and disease specificity of a T-lymphomagenic gammaretrovirus by E-box motifs but not by an overlapping glucocorticoid response element. *J. Virol.* DOI:10.1128/JVI.01368-08 (2008)

Mahabir, E., Bauer, B.* , Schmidt, J.: Rodent and germplasm trafficking: Risks of microbial contamination in a high-tech biomedical world. *ILAR J.* 49 (3), 347-355 (2008)

Mahabir, E., Bulian, D., Schmöller, R., Needham, J.* , Schmidt, J.: Production of virus-free seronegative pups from murine embryos arising from in vitro fertilization with mouse minute virus-exposed spermatozoa. *Biol. Reprod.* 78 (1), 53-58 (2008)

Markoullis, K. et al. (13 Coauthors): Mycoplasma contamination of murine embryonic stem cells affects cell parameters, germline transmission and chimeric progeny. *Transgenic Res.* DOI:10.1007/s11248-008-9218-z (2008)

Moerth, C. et al. (21 Coauthors): Evaluation of polymerase chain reaction methods for detection of murine *Helicobacter* in nine diagnostic laboratories. *Lab Anim. (NY)* 37 (11), 521-527 (2008)

Soerensen, J., Jakupoglu, C., Beck, H.* , Förster, H., Schmidt, J., Schmahl, W.* , Schweizer, U.* , Conrad, M.* , Brielmeier, M.: The role of thioredoxin reductases in brain development. *PLoS ONE* 3 (3):e1813, 1-10 (2008)

Publication List 2008

31.12.2008

(* external author)

Department of Environmental Engineering

Meissner, D.*, Albert, A.*, Boettcher, C.*, Strack, D.*, Milkowski, C.*: The role of UDP-glucose : hydroxycinnamate glucosyltransferases in phenylpropanoid metabolism and the response to UV-B radiation in *Arabidopsis thaliana*. *Planta* 228 (4), 663-674 (2008)

Reth, S., Graf, W., Gefke, O., Schilling, R., Seidlitz, H.K., Munch, J.C.: Whole-year-round observation of N₂O profiles in soil : A lysimeter study. *Water Air Soil Pollut.: Focus* 8 (2), 129-137 (2008)

Seyfarth, M.*, Reth, S.: Lysimeter soil retriever (LSR)— An application of a new technique for retrieving soils from lysimeters. *Water Air Soil Pollut.: Focus* 8 (2), 227-231 (2008)

Publication List 2008

31.12.2008

(* external author)

Department of Gene Vectors

Ehrhardt, A.*, Haase, R.*, Schepers, A., Deutsch, M.J., Lipps, H.J.*, Baiker, A.*: Episomal vectors for gene therapy. *Curr. Gene Ther.* 8 (3), 147-161 (2008)

Ehrhardt, H.*, Häcker, S.*, Wittmann, S.*, Maurer, M.*, Borkhardt, A.*, Toloczko, A., Debatin, K.M.*, Fulda, S.*, Jeremias, I.: Cytotoxic drug-induced, p53-mediated upregulation of caspase-8 in tumor cells. *Oncogene* 27 (6), 783-793 (2008)

Kieser, A.: Pursuing different 'TRADDes': TRADD signaling induced by TNF-receptor 1 and the Epstein-Barr virus oncoprotein LMP1. *Biol. Chem.* 389 (10), 1261-1271 (2008)

Kutz, H., Reisbach, G., Schultheiss, U., Kieser, A.: The c-Jun N-terminal kinase pathway is critical for cell transformation by the latent membrane protein 1 of Epstein-Barr virus. *Virology* 371 (2), 246-256 (2008)

Lindner, S.E.*, Zeller, K., Schepers, A., Sugden, B.*: The affinity of EBNA1 for its origin of DNA synthesis is a determinant of the origin's replicative efficiency. *J. Virol.* 82 (12), 5693-5702 (2008)

Mack, B.*, Gires, O.: CD44s and CD44v6 expression in head and neck epithelia.. *PLoS ONE* 3 (10), 1-8 (2008)

Matthias, C.*, Mack, B.*, Berghaus, A.*, Gires, O.: Keratin 8 expression in head and neck epithelia.. *BMC Cancer* 8:267, 1-10 (2008)

Munz, M.*, Fellingner, K.*, Hofmann, T.*, Schmitt, B.*, Gires, O.: Glycosylation is crucial for stability of tumour and cancer stem cell antigen EpCAM. *Front. Biosci.* 13, 5195-5201 (2008)

Norseen, J.*, Thomae, A., Sridharan, V.*, Aiyar, A.*, Schepers, A., Lieberman, P.M.*: RNA-dependent recruitment of the origin recognition complex. *EMBO J.* 27 (22), 3024-3035 (2008)

Pich, D., Hummer, S., Spindler, M.-P., Schepers, A., Hammerschmidt, W.: Conditional gene vectors regulated in cis. *Nucleic Acids Res.* 36(13):e83, 1-11 (2008)

Rothbauer, U.*, Zolghadr, K.*, Muyldermans, S.*, Schepers, A., Cardoso, M.C.*, Leonhardt, H.*: A versatile nanotrap for biochemical and functional studies with fluorescent fusion proteins. *Mol. Cell. Proteomics* 7 (2), 282-289 (2008)

Schneider, F., Neugebauer, J., Griese, J., Liefold, N., Kutz, H., Briseño, C., Kieser, A.: The viral oncoprotein LMP1 exploits TRADD for signaling by masking its apoptotic activity. *PLoS Biol.* 6(1):e8, 1-13 (2008)

Schyschka, L.*, Rudy, A.*, Jeremias, I., Barth, N.*, Pettit, G.R.*, Vollmar, A.M.*: Spongistatin 1: a new chemosensitizing marine compound that degrades XIAP. *Leukemia* 22 (9), 1737-1745 (2008)

Publication List 2008

31.12.2008

(* external author)

Department of Gene Vectors

Thomae, A.W., Pich, D., Brocher, J.*, Spindler, M.P.*, Berens, C.*, Hock, R.*, Hammerschmidt, W., Schepers, A.: Interaction between HMGA1a and the origin recognition complex creates site-specific replication origins. Proc. Natl. Acad. Sci. U.S.A. 105 (5), 1692-1697 (2008)

Wiesner, M., Zentz, C., Mayr, C.*, Wimmer, R.*, Hammerschmidt, W., Zeidler, R.*, Moosmann, A.: Conditional immortalization of human B cells by CD40 ligation. PLoS ONE 3 (1):e1464, 1-13 (2008)

Zychlinska, M., Herrmann, H., Zimmer-Strobl, U., Hammerschmidt, W.: Restricted expression of Epstein-Barr virus latent genes in murine B cells derived from embryonic stem cells. PLoS ONE 3 (4):e1996, 1-9 (2008)

Publication List 2008

31.12.2008

(* external author)

Department of Plant-Microbes-Interaction

Aly, M.A.*, Schröder, P.: Effect of herbicides on glutathione S-transferases in the earthworm, *Eisenia fetida*. *Environ. Sci. Pollut. Res. Int.* 15 (2), 143-149 (2008)

Barriuso, J.*, Ramos Solano, B.*, Fray, R.G.*, Cámara, M.*, Hartmann, A., Gutiérrez Manero, F.J.*: Transgenic tomato plants alter quorum sensing in plant growth-promoting rhizobacteria. *Plant Biotechnol. J.* 6 (5), 442-452 (2008)

Forczek, S.T.*, Schröder, P., Weissflog, L.*, Krüger, G.*, Rohlenova, J.*, Matucha, M.*: Trichloroacetic acid of different origin in Norway spruce needles and chloroplasts. *Biol. Plant.* 52 (1), 177-180 (2008)

Hartmann, A., Rothballer, M., Schmid, M.: Lorenz Hiltner, a pioneer in rhizosphere microbial ecology and soil bacteriology research. *Plant Soil* 312 (1-2), 7-14 (2008)

Hense, B.A., Kuttler, C., Müller, J., Rothballer, M., Hartmann, A., Kreft, J.-U.*: Efficiency sensing - was messen Autoinduktoren wirklich? *BIOspektrum (Heidelb.)* 14, 18-21 (2008)

Rothballer, M., Eckert, B., Schmid, M., Fekete, A., Schloter, M., Lehner, A.*, Pollmann, S.*, Hartmann, A.: Endophytic root colonization of gramineous plants by *Herbaspirillum frisingense*. *FEMS Microbiol. Ecol.* 66 (1), 85-95 (2008)

Schröder, P., Daubner, D., Maier, H., Neustifter, J., Debus, R.*: Phytoremediation of organic xenobiotics - Glutathione dependent detoxification in *Phragmites* plants from European treatment sites. *Bioresour. Technol.* 99 (15), 7183-7191 (2008)

Schröder, P., Herzig, R.*, Bojinov, B.*, Ruttens, A.*, Nehnevajova, E.*, Stamatiadis, S.*, Memon, A.*, Vassilev, A.*, Caviezel, M.*, Vangronsveld, J.*: Bioenergy to save the world. Producing novel energy plants for growth on abandoned land. *Environ. Sci. Pollut. Res. Int.* 15 (3), 196-204 (2008)

Sharma, M.*, Schmid, M. et al. (10 Coauthors): Detection and identification of bacteria intimately associated with fungi of the order *Sebacinales*. *Cell. Microbiol.* 10 (11), 2235-2246 (2008)

von Rad, U., Klein, I., Dobrev, P. I.*, Kottova, J.*, Zazimalova, E.*, Fekete, A., Hartmann, A., Schmitt-Kopplin, P., Durner, J.: Response of *Arabidopsis thaliana* to N-hexanoyl-DL-homoserine-lactone, a bacterial quorum sensing molecule produced in the rhizosphere. *Planta* 229 (1), 73-85 (2008)

Wagner, T., Arango Isaza, L.M., Grundmann, S., Dörfler, U., Schroll, R., Schloter, M., Hartmann, A., Sandermann, H., Ernst, D.: The probability of a horizontal gene transfer from Roundup Ready soybean to root symbiotic bacteria: A risk assessment study on the GSF lysimeter station. *Water Air Soil Pollut.: Focus* 8, 155-162 (2008)

Publication List 2008

31.12.2008

(* external author)

Department of Proteomic Analysis

Bauer, M., Kinkl, N., Meixner, A., Kremmer, E., Riemenschneider, M.*, Förstl, H.*, Gasser, T.*, Ueffing, M.: Prevention of interferon-stimulated gene expression using microRNA-designed hairpins. *Gene Ther.* DOI: 10.1038/gt.2008.123 (2008)

Bauer, M., Szulc, J.*, Meyer, M.*, Jensen, C.H.*, Terki, T.A.*, Meixner, A., Kinkl, N., Gasser, T.*, Aebischer, P.*, Ueffing, M.: Delta-like 1 participates in the specification of ventral midbrain progenitor derived dopaminergic neurons. *J. Neurochem.* 104 (4), 1101-1115 (2008)

Braun, R.J., Zischka, H.: Mechanisms of Cdc48/VCP-mediated cell death: from yeast apoptosis to human disease. *BBA - Molecular Cell Research* 1783 (7), 1418-1435 (2008)

Braus, B.K.*, Hauck, S.M., Amann, B.*, Heinrich, C.*, Fritsche, J.*, Koestlin, R.*, Deeg, C.A.*: Neuron-specific enolase antibodies in patients with sudden acquired retinal degeneration syndrome. *Vet. Immunol. Immunopathol.* 124 (1-2), 177-183 (2008)

Buse, C.*, Altmann, F.*, Amann, B.*, Hauck, S. M., Nautrup, C. P.*, Ueffing, M., Stangassinger, M.*, Deeg, C. A.*: Discovering novel targets for autoantibodies in dilated cardiomyopathy. *Electrophoresis* 29 (6), 1325-1332 (2008)

Deeg, C. A.*, Hauck, S.M., Amann, B.*, Pompetzki, D.*, Altmann, F.*, Raith, A.*, Schmalzl, T.*, Stangassinger, M.*, Ueffing, M.: Equine recurrent uveitis : a spontaneous horse model of uveitis. *Ophthalmic Res.* 40(3-4), 151-153 (2008)

Delic, S., Streif, S., Deussing, J.M.*, Weber, P.*, Ueffing, M., Hölter, S.M., Wurst, W., Kühn, R.: Genetic mouse models for behavioral analysis through transgenic RNAi technology. *Genes Brain Behav.* 7 (7), 821-830 (2008)

Favor, J., Gloeckner, C.J., Neuhäuser-Klaus, A., Pretsch, W., Sandulache, R., Saule, S.*, Zaus, I.: Relationship of Pax6 activity levels to the extent of eye development in the mouse, *Mus musculus*. *Genetics* 179 (3), 1345-1355 (2008)

Hamacher, M., Herberg, F., Ueffing, M., Meyer, H.E.: Seven successful years of Omics research : the Human Brain Proteome Project within the National German Research Network (NGFN). *Proteomics* 8 (6), 1116-1117 (2008)

Hauck, S.M., Gloeckner, C.J., Harley, M.E., Schoeffmann, S. *, Boldt, K., Ekstrom, P.A. *, Ueffing, M.: Identification of paracrine neuroprotective candidate proteins by a functional assay-driven proteomics approach. *Mol. Cell. Proteomics* 7 (7), 1349-1361 (2008)

Swiatek-de Lange, M.*, Müller, B.*, Ueffing, M.: Native Fractionation : Isolation of Native Membrane-Bound Protein Complexes from Porcine Rod Outer Segments Using Isopycnic Density Gradient Centrifugation. *Methods in Molecular Biology* ; Vol. 484, *Functional Proteomics: Methods and Protocols*, Thompson, J.D.; Schaeffer-Reiss, C.; Ueffing, M. [Eds.], Totowa : Humana Press, 161-175 (2008)

Zischka, H., Kinkl, N., Braun, R.J., Ueffing, M.: Purification of *Saccharomyces cerevisiae* mitochondria by zone electrophoresis in a free flow device. *Methods Mol. Biol.* 432, 51-64 (2008)

Publication List 2008

31.12.2008

(* external author)

Grundmann, S., Dörfler, U., Ruth, B., Loos, C., Wagner, T., Karl, H., Munch, J.-C., Schroll, R.: Mineralization and transfer processes of ¹⁴C-labeled pesticides in outdoor lysimeters. *Water Air Soil Pollut.: Focus* 8, 177-185 (2008)

von Rad, U., Klein, I., Dobrev, P. I.*, Kottova, J.*, Zazimalova, E.*, Fekete, A., Hartmann, A., Schmitt-Kopplin, P., Durner, J.: Response of *Arabidopsis thaliana* to N-hexanoyl-DL-homoserine-lactone, a bacterial quorum sensing molecule produced in the rhizosphere. *Planta* 229 (1), 73-85 (2008)

Wagner, T., Arango Isaza, L.M., Grundmann, S., Dörfler, U., Schroll, R., Schloter, M., Hartmann, A., Sandermann, H., Ernst, D.: The probability of a horizontal gene transfer from Roundup Ready soybean to root symbiotic bacteria: A risk assessment study on the GSF lysimeter station. *Water Air Soil Pollut.: Focus* 8, 155-162 (2008)