

Publication List 2012

31.12.2012

* external Authors

CCG Antigen-specific Immunotherapy

Buchholz, V.R.* , Gräf, P.* & Busch, D.H.: The origin of diversity: Studying the evolution of multifaceted CD8⁺ T cell responses. *Cell. Mol. Life Sci.* **69**, 1585-1595 (2012)

Krönig, H. et al.: PD-1 expression on Melan-A-reactive T cells increases during progression to metastatic disease. *Int. J. Cancer* **130**, 2327-2336 (2012)

Schlitzer, A. et al.: Tissue-specific differentiation of a circulating CCR9⁺ pDC-like common dendritic cell precursor. *Blood* **119**, 6063-6071 (2012)

Stemberger, C. et al.: Novel serial positive enrichment technology enables clinical multiparameter cell sorting. *PLoS One* **7**:e35798 (2012)

Weigand, L.U. et al.: Isolation of human MHC class II-restricted T cell receptors from the autologous T-cell repertoire with potent anti-leukaemic reactivity. *Immunology* **137**, 226-238 (2012)

Publication List 2012

31.12.2012

* external Authors

CCG Hematopoetic Cell Transplants

Bonilla, W.V. et al.: The alarmin interleukin-33 drives protective antiviral CD8⁺ T cell responses.
Science **335**, 984-989 (2012)

Publication List 2012

31.12.2012

* external Authors

CCG Immunooncology

Martin, L.K., Schub, A., Dillinger, S. & Moosmann, A.: Specific CD8⁺ T cells recognize human herpesvirus 6B. *Eur. J. Immunol.* **42**, 2901-2912 (2012)

CCG Innate Immunity in Tumor Biology

Bayer, C. et al.: Monitoring PAI-1 and VEGF levels in 6 human squamous cell carcinoma xenografts during fractionated irradiation. *Int. J. Radiat. Oncol. Biol. Phys.* **84**, e409-e417 (2012)

Böttger, E.* , Multhoff, G., Kun, J.F.* & Esen, M.*: *Plasmodium falciparum*-infected erythrocytes induce granzyme B by NK cells through expression of host-Hsp70. *PLoS One* **7**:e33774 (2012)

Gehrmann, M. et al.: Immunotherapeutic targeting of membrane Hsp70-expressing tumors using recombinant human granzyme B. *PLoS One* **7**:e41341 (2012)

Härdtner, C.* , Multhoff, G., Falk, W.* & Radons, J.*: (-)-Epigallocatechin-3-gallate, a green tea-derived catechin, synergizes with celecoxib to inhibit IL-1-induced tumorigenic mediators by human pancreatic adenocarcinoma cells Colo357. *Eur. J. Pharmacol.* **684**, 36-43 (2012)

Multhoff, G., Gaipf, U.S.* & Niedermann, G.*: Die Rolle der Strahlentherapie bei der Induktion von Antitumor-Immunantworten. *Strahlenther. Onkol.* **188**, 312-315 (2012)

Multhoff, G., Pockley, A.G.* , Streffer, C.* & Gaipf, U.S.*: Dual role of Heat Shock Proteins (HSPs) in anti-tumor immunity. *Curr. Mol. Med.* **12**, 1174-1182 (2012)

Nagaraja, G.M. et al.: Silencing hsp25/hsp27 gene expression augments proteasome activity and increases CD8⁺ T-cell-mediated tumor killing and memory responses. *Cancer Prev. Res.* **5**, 122-137 (2012)

Schilling, D. et al.: Basal HIF-1 α expression levels are not predictive for radiosensitivity of human cancer cell lines. *Strahlenther. Onkol.* **188**, 353-358 (2012)

Schilling, D. et al.: Radiosensitization of normoxic and hypoxic h1339 lung tumor cells by heat shock protein 90 inhibition is independent of hypoxia inducible factor-1 α . *PLoS One* **7**:e31110 (2012)

Schilling, D., Düwel, M.* , Molls, M.* & Multhoff, G.: Radiosensitization of wildtype p53 cancer cells by the MDM2-inhibitor PXN727 is associated with altered Heat shock protein 70 (Hsp70) levels. *Cell Stress Chaperones* **18**, 183-191 (2013) [published online 2012]

Schmid, T.E.* , Zlobinskaya, O.* & Multhoff, G.: Differences in phosphorylated histone H2AX foci formation and removal of cells exposed to low and high linear energy transfer radiation. *Curr. Genomics* **13**, 418-425 (2012)

Schmid, T.E. et al.: Low LET protons focused to submicrometer shows enhanced radiobiological effectiveness. *Phys. Med. Biol.* **57**, 5889-5907 (2012)

Schmid, T.E.* & Multhoff, G.: Radiation-induced stress proteins - the role of heat shock proteins (HSP) in anti-tumor responses. *Curr. Med. Chem.* **19**, 1765-1770 (2012)

Schmieder, A.* , Multhoff, G. & Radons, J.*: Interleukin-33 acts as a pro-inflammatory cytokine and modulates its receptor gene expression in highly metastatic human pancreatic carcinoma cells. *Cytokine* **60**, 514-521 (2012)

Publication List 2012

31.12.2012

* external Authors

CCG Innate Immunity in Tumor Biology

Zlobinskaya, O. et al.: Reduced side effects by proton microchannel radiotherapy: Study in a human skin model. *Radiat. Environ. Biophys.* **52**, 123-133 (2013) [published online 2012]

Publication List 2012

31.12.2012

* external Authors

CCG Molecular Neurogenetics

Menke, A. et al.: Dexamethasone stimulated gene expression in peripheral blood is a sensitive marker for glucocorticoid receptor resistance in depressed patients. *Neuropsychopharmacology* **37**, 1455-1464 (2012)

CCG Osteosarcoma

Baumhoer, D. et al.: CRIP1 expression is correlated with a favorable outcome and less metastases in osteosarcoma patients. *Oncotarget* **2**, 970-975 (2011)

Dantonello, T.M. et al.: Malignant ectomesenchymoma in children and adolescents: Report from the Cooperative Weichteilsarkom Studiengruppe (CWS). *Pediatr. Blood Cancer* **60**, 224-229 (2013) [published online 2012]

Icheva, V. et al.: Adoptive transfer of Epstein-Barr Virus (EBV) nuclear antigen 1-specific T cells as treatment for EBV reactivation and lymphoproliferative disorders after allogeneic stem-cell transplantation. *J. Clin. Oncol.* **31**, 5-7 (2013) [published online 2012]

Ronceray, L. et al.: Pulmonary involvement in pediatric-onset multisystem Langerhans cell histiocytosis: Effect on course and outcome. *J. Pediatr.* **161**, 129-133 (2012)

CCG Pathogenesis of Acute Myeloid Leukemia

Dufour, A. et al.: Monoallelic *CEBPA* mutations in normal karyotype acute myeloid leukemia: Independent favorable prognostic factor within *NPM1* mutated patients. *Ann. Hematol.* **91**, 1051-1063 (2012)

Greif, P.A. et al.: *GATA2* zinc finger 1 mutations associated with biallelic *CEBPA* mutations define a unique genetic entity of acute myeloid leukemia. *Blood* **120**, 395-403 (2012)

Greif, P.A. et al.: *RUNX1* mutations in cytogenetically normal acute myeloid leukemia are associated with poor prognosis and up-regulation of lymphoid genes. *Haematol-Hematol. J.* **97**, 1909-1915 (2012)

Herold, T. et al.: High expression of *MZB1* predicts adverse prognosis in chronic lymphocytic leukemia, follicular lymphoma and diffuse large B-cell lymphoma and is associated with a unique gene expression signature. *Leuk. Lymphoma* **54**, 1652-1657 (2013) [published online 2012]

Hutter, G. et al.: Proteasome inhibition leads to dephosphorylation and downregulation of protein expression of members of the Akt/mTOR pathway in MCL. *Leukemia* **26**, 2442-2444 (2012)

Hutter, G. et al.: The proteasome inhibitor bortezomib targets cell cycle and apoptosis and acts synergistically in a sequence-dependent way with chemotherapeutic agents in mantle cell lymphoma. *Ann. Hematol.* **91**, 847-856 (2012)

Metzeler, K.H. et al.: High expression of Lymphoid Enhancer-binding Factor-1 (*LEF1*) is a novel favorable prognostic factor in cytogenetically normal acute myeloid leukemia. *Blood* **120**, 2118-2126 (2012)

Mulaw, M.A. et al.: *CALM/AF10*-positive leukemias show upregulation of genes involved in chromatin assembly and DNA repair processes and of genes adjacent to the breakpoint at 10p12. *Leukemia* **26**, 1012-1019 (2012)

Pietschmann, K. et al.: Breakdown of the FLT3-ITD/STAT5 axis and synergistic apoptosis induction by the histone deacetylase inhibitor panobinostat and FLT3-specific inhibitors. *Mol. Cancer Ther.* **11**, 2373-2383 (2012)

Polzer, H., Janke, H., Schmid, D., Hiddemann, W. & Spiekermann, K.: CBL mutants activate AKT to induce transformation in cooperation with class III receptor tyrosine kinases. *Exp. Hematol.* **41**, 271-280 (2013) [published online 2012]

Schneider, F. et al.: The *FLT3*ITD mRNA level has a high prognostic impact in *NPM1* mutated, but not in *NPM1* unmutated, AML with a normal karyotype. *Blood* **119**, 4383-4386 (2012)

Vogl, I. et al.: Diagnostic applications of next generation sequencing: Working towards quality standards. *LaboratoriumsMedizin* **36**, 227-239 (2012)

Publication List 2012

31.12.2012

* external Authors

CCG Pediatric Tumor Immunology

Fiebiger, B.M., Moosmann, A., Behrends, U. & Mautner, J.: Mature proteins derived from Epstein-Barr virus fail to feed into the MHC class I antigenic pool. *Eur. J. Immunol.* **42**, 3167-3173 (2012)

CCG Tumor Therapy with Hyperthermia

Desch, A. et al.: Highly invasive melanoma cells activate the vascular endothelium via an MMP-2/Integrin $\alpha\beta 5$ -induced secretion of VEGF-A. *Am. J. Pathol.* **181**, 693-705 (2012)

Hossann, M. et al.: Proteins and cholesterol lipid vesicles are mediators of drug release from thermosensitive liposomes. *J. Control. Release* **162**, 400-406 (2012)

Manzoor, A.A. et al.: Overcoming limitations in nanoparticle drug delivery: Triggered, intravascular release to improve drug penetration into tumors. *Cancer Res.* **72**, 5566-5575 (2012)

Cooperation Group Comprehensive Molecular Analytics

Adam, T.W. et al.: Real-time analysis of aromatics in combustion engine exhaust by Resonance-Enhanced Multiphoton Ionisation Time-Of-Flight Mass Spectrometry (REMPI-TOF-MS): A robust tool for chassis dynamometer testing. *Anal. Bioanal. Chem.* **404**, 273-276 (2012)

Busch, C.*, Streibel, T., Liu, C.*, McAdam, K.G.* & Zimmermann, R.: Pyrolysis and combustion of tobacco in a cigarette smoking simulator under air and nitrogen atmosphere. *Anal. Bioanal. Chem.* **403**, 419-430 (2012)

Clairotte, M. et al.: Online characterization of regulated and unregulated gaseous and particulate exhaust emissions from two-stroke mopeds: A chemometric approach. *Anal. Chim. Acta* **717**, 28-38 (2012)

Dresen, S.*, Kneisel, S.*, Weinmann, W.*, Zimmermann, R. & Auwärter, V.*: Development and validation of a liquid chromatography-tandem mass spectrometry method for the quantitation of synthetic cannabinoids of the aminoalkylindole type and methanandamide in serum and its application to forensic samples. *J. Mass Spectrom.* **46**, 163-171 (2011)

Eickner, T. et al.: Systematic studies on TiO₂-based phosphopeptide enrichment procedures upon in-solution and in-gel digestions of proteins. Are there readily applicable protocols suitable for matrix-assisted laser desorption/ionization mass spectrometry-based phosphopeptide stability estimations? *Eur. J. Mass Spectrom.* **17**, 507-523 (2011)

Elsasser, M. et al.: Organic molecular markers and signature from wood combustion particles in winter ambient aerosols: Aerosol Mass Spectrometer (AMS) and high time-resolved GC-MS measurements in Augsburg, Germany. *Atmos. Chem. Phys.* **12**, 6113-6128 (2012)

Fendt, A. et al.: On-line process analysis of biomass flash pyrolysis gases enabled by soft photoionization mass spectrometry. *Energy Fuels* **26**, 701-711 (2012)

Forbes, P.B.C.*, Karg, E.W., Zimmermann, R. & Rohwer, E.R.*: The use of multi-channel silicone rubber traps as denuders for polycyclic aromatic hydrocarbons. *Anal. Chim. Acta* **730**, 71-79 (2012)

Gröger, T. et al.: Real-time imaging of lipid domains and distinct coexisting membrane protein clusters. *Chem. Phys. Lipids* **165**, 216-224 (2012)

Hertz, R.*, Streibel, T., Liu, C.*, McAdam, K.* & Zimmermann, R.: Microprobe sampling - photo ionization-time-of-flight mass spectrometry for *in situ* chemical analysis of pyrolysis and combustion gases: Examination of the thermo-chemical processes within a burning cigarette. *Anal. Chim. Acta* **714**, 104-113 (2012)

Kiersch, K. et al.: Impact of grassland burning on soil organic matter as revealed by a synchrotron- and pyrolysis-mass spectrometry-based multi-methodological approach. *Org. Geochem.* **44**, 8-20 (2012)

Mohr, C. et al.: Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data. *Atmos. Chem. Phys.* **12**, 1649-1665 (2012)

Cooperation Group Comprehensive Molecular Analytics

Okay, O.S.* , Li, K.X.* , Yediler, A. & Karacik, B.*: Determination of selected antibiotics in the Istanbul strait sediments by solid-phase extraction and high performance liquid chromatography. *J. Environ. Sci. Health Part A-Toxic/Hazard. Subst. Environ. Eng.* **47**, 1372-1380 (2012)

Orasche, J. et al.: Comparison of emissions from wood combustion. Part 1: Emission factors and characteristics from different small-scale residential heating appliances considering particulate matter and Polycyclic Aromatic Hydrocarbon (PAH)-related toxicological potential of particle-bound organic species. *Energy Fuels* **26**, 6695-6704 (2012)

Pfab, F. et al.: Acupuncture compared with oral antihistamine for type I hypersensitivity itch and skin response in adults with atopic dermatitis - a patient- and examiner-blinded, randomized, placebo-controlled, crossover trial. *Allergy* **67**, 566-573 (2012)

Rittgen, J.* , Pütz, M.* & Zimmermann, R.: Identification of fentanyl derivatives at trace levels with nonaqueous capillary electrophoresis-electrospray-tandem mass spectrometry (MS^n , $n = 2, 3$): Analytical method and forensic applications. *Electrophoresis* **33**, 1595-1605 (2012)

Schäffer, M., Gröger, T., Pütz, M.* , Dieckmann, S.* & Zimmermann, R.: Comparative analysis of the chemical profiles of 3,4-methylenedioxymethamphetamine based on comprehensive two-dimensional Gas Chromatography-Time-of-Flight Mass Spectrometry (GC x GC-TOFMS). *J. Forensic Sci.* **57**, 1181-1189 (2012)

Schubert, R. et al.: Metabolic monitoring and assessment of anaerobic threshold by means of breath biomarkers. *Metabolomics* **8**, 1069-1080 (2012)

Walgraeve, C. et al.: Selective accurate-mass-based analysis of 11 oxy-PAHs on atmospheric particulate matter by pressurized liquid extraction followed by high-performance liquid chromatography and magnetic sector mass spectrometry. *Anal. Bioanal. Chem.* **402**, 1697-1711 (2012)

Weise, T. et al.: Volatile organic compounds produced by the phytopathogenic bacterium *Xanthomonas campestris* pv. *vesicatoria* 85-10. *Beilstein J. Org. Chem.* **8**, 579-596 (2012)

Yu, Z.* , Yediler, A., Yang, M.* & Schulte-Hostede, S.: Leaching behavior of enrofloxacin in three different soils and the influence of a surfactant on its mobility. *J. Environ. Sci.* **24**, 435-439 (2012)

Comprehensive Pneumology Center

Bieler, S. et al.: Low dose proteasome inhibition affects alternative splicing. *J. Proteome Res.* **11**, 3947-3954 (2012)

Dreger, H. et al.: Epigenetic regulation of cell adhesion and communication by enhancer of zeste homolog 2 in human endothelial cells. *Hypertension* **60**, 1176-1183 (2012)

Fernandez, I.E. & Eickelberg, O.: New cellular and molecular mechanisms of lung injury and fibrosis in idiopathic pulmonary fibrosis. *Lancet* **380**, 680-688 (2012)

Frankenberger, M. et al.: A defect of CD16-positive monocytes can occur without disease. *Immunobiology* **218**, 169-174 (2013) [published online 2012]

Frankenberger, M. et al.: Transcript profiling of CD16-positive monocytes reveals a unique molecular fingerprint. *Eur. J. Immunol.* **42**, 957-974 (2012)

Karo-Atar, D.*, Moshkovits, I.*, Eickelberg, O., Königshoff, M. & Munitz, A.*: Paired immunoglobulin-like receptor-B inhibits pulmonary fibrosis by suppressing profibrogenic properties of alveolar macrophages. *Am. J. Respir. Cell Mol. Biol.* **48**, 456-464 (2013) [published online 2012]

Krauss-Etschmann, S. et al.: Of flies, mice and men: A systematic approach to understanding the early life origins of chronic lung disease. *Thorax* **68**, 380-384 (2013) [published online 2012]

Kwapiszewska, G. et al.: BDNF/TrkB signaling augments smooth muscle cell proliferation in pulmonary hypertension. *Am. J. Pathol.* **181**, 2018-2029 (2012)

Mamidi, S., Hofer, T.P.J., Hoffmann, R.*, Ziegler-Heitbrock, L. & Frankenberger, M.: All-trans retinoic acid up-regulates Prostaglandin-E Synthase expression in human macrophages. *Immunobiology* **217**, 593-600 (2012)

Meiners, S. & Eickelberg, O.: Next-generation personalized drug discovery: The tripeptide GHK hits center stage in chronic obstructive pulmonary disease. *Genome Med.* **4**:70 (2012)

Meiners, S. & Eickelberg, O.: What shall we do with the damaged proteins in lung disease? Ask the proteasome! *Eur. Respir. J.* **40**, 1260-1268 (2012)

Mise, N. et al.: Zyxin is a Transforming Growth Factor- β (TGF- β)/Smad3 target gene that regulates lung cancer cell motility via integrin $\alpha 5 \beta 1$. *J. Biol. Chem.* **287**, 31393-31405 (2012)

Mittal, R.A. et al.: SFTA2 - a novel secretory peptide highly expressed in the lung - is modulated by lipopolysaccharide but not hyperoxia. *PLoS One* **7**:e40011 (2012)

Rock, J.* & Königshoff, M.: Endogenous lung regeneration: Potential and limitations. *Am. J. Respir. Crit. Care Med.* **186**, 1213-1219 (2012)

Schleede, S. et al.: Emphysema diagnosis using X-ray dark-field imaging at a laser-driven compact synchrotron light source. *Proc. Natl. Acad. Sci. U.S.A.* **109**, 17880-17885 (2012)

van Rijt, S.H. et al.: Acute cigarette smoke exposure impairs proteasome function in the lung. *Am. J. Physiol.-Lung Cell. Mol. Physiol.* **303**, L814-L823 (2012)

Publication List 2012

31.12.2012

* external Authors

Comprehensive Pneumology Center

Wilck, N. et al.: Attenuation of early atherogenesis in low-density lipoprotein receptor-deficient mice by proteasome inhibition. *Arterioscler. Thromb. Vasc. Biol.* **32**, 1418-1426 (2012)

Ziegler-Heitbrock, L. et al.: The EvA study: Aims and strategy. *Eur. Respir. J.* **40**, 823-829 (2012)

Institute for Allergy Research

Bousquet, J. et al.: Allergic Rhinitis and its Impact on Asthma (ARIA): Achievements in 10 years and future needs. *J. Allergy Clin. Immunol.* **130**, 1049-1062 (2012)

Brockow, K. & Bonadonna, P.*: Drug allergy in mast cell disease. *Curr. Opin. Allergy Clin. Immunol.* **12**, 354-360 (2012)

Buters, J.T.M. et al.: Release of Bet v 1 from birch pollen from 5 European countries. Results from the HIALINE study. *Atmos. Environ.* **55**, 496-505 (2012)

Gilles, S., Behrendt, H., Ring, J.* & Traidl-Hoffmann, C.: The pollen enigma: Modulation of the allergic immune response by non-allergenic, pollen-derived compounds. *Curr. Pharm. Des.* **18**, 2314-2319 (2012)

Herranz, F. et al.: Superparamagnetic iron oxide nanoparticles conjugated to a grass pollen allergen and an optical probe. *Contrast Media Mol. Imaging* **7**, 435-439 (2012)

Knüppel, S. et al.: Multi-locus stepwise regression: A haplotype-based algorithm for finding genetic associations applied to atopic dermatitis. *BMC Med. Genet.* **13:8** (2012)

Krause, K. et al.: How not to miss autoinflammatory diseases masquerading as urticaria. *Allergy* **67**, 1465-1474 (2012)

Metz, M. et al.: Evidence for non-allergic mast cell activation in pollen-associated inflammation. *J. Invest. Dermatol.* **131**, 987-990 (2011)

Oeder, S. et al.: Airborne indoor particles from schools are more toxic than outdoor particles. *Am. J. Respir. Cell Mol. Biol.* **47**, 575-582 (2012)

Peters, L.M. et al.: Equine cytochrome P450 2B6 - genomic identification, expression and functional characterization with ketamine. *Toxicol. Appl. Pharmacol.* **266**, 101-108 (2013) [published online 2012]

Ring, J. et al.: Guidelines for treatment of atopic eczema (atopic dermatitis) Part I. *J. Eur. Acad. Dermatol. Venereol.* **26**, 1045-1060 (2012)

Ring, J. et al.: Guidelines for treatment of atopic eczema (atopic dermatitis) Part II. *J. Eur. Acad. Dermatol. Venereol.* **26**, 1176-1193 (2012)

Zirbs, M. et al.: GSTM1, GSTT1 and GSTP1 gene polymorphism in polymorphous light eruption. *J. Eur. Acad. Dermatol. Venereol.* **27**, 157-162 (2013) [published online 2012]

Institute of Biochemical Plant Pathology

Astier, J. & Lindermayr, C.: Nitric oxide-dependent posttranslational modification in plants: An update. *Int. J. Mol. Sci.* **13**, 15193-15208 (2012)

Behnke, K. et al.: Isoprene emission-free poplars - a chance to reduce the impact from poplar plantations on the atmosphere. *New Phytol.* **194**, 70-82 (2012)

Comont, D. et al.: UV responses of *Lolium perenne* raised along a latitudinal gradient across Europe: A filtration study. *Physiol. Plant.* **145**, 604-618 (2012)

Faubert, P. et al.: The shift in plant species composition in a subarctic mountain birch forest floor due to climate change would modify the biogenic volatile organic compound emission profile. *Plant Soil* **352**, 199-215 (2012)

Fröhlich, A. et al.: Looking deep inside: Detection of low-abundance proteins in leaf extracts of arabidopsis and phloem exudates of pumpkin. *Plant Physiol.* **159**, 902-914 (2012)

Gaupels, F. et al.: Deciphering systemic wound responses of the pumpkin extrafascicular phloem by metabolomics and stable isotope-coded protein labeling. *Plant Physiol.* **160**, 2285-2299 (2012)

Ghirardo, A., Heller, W., Fladung, M.*, Schnitzler, J.-P. & Schroeder, H.*: Function of defensive volatiles in pedunculate oak (*Quercus robur*) is tricked by the moth *Tortrix viridana*. *Plant Cell Environ.* **35**, 2192-2207 (2012)

Hoffmann, T. et al.: Histochemical screening, metabolite profiling and expression analysis reveal *Rosaceae* roots as the site of flavan-3-ol biosynthesis. *Plant Biol.* **14**, 33-40 (2012)

Janz, D. et al.: Salt stress induces the formation of a novel type of 'pressure wood' in two *Populus* species. *New Phytol.* **194**, 129-141 (2012)

Khatabi, B. et al.: Ethylene supports colonization of plant roots by the mutualistic fungus *Piriformospora indica*. *PLoS One* **7**:e35502 (2012)

Kiendler-Scharr, A. et al.: Isoprene in poplar emissions: Effects on new particle formation and OH concentrations. *Atmos. Chem. Phys.* **12**, 1021-1030 (2012)

Kitao, M. et al.: How closely does stem growth of adult beech (*Fagus sylvatica*) relate to net carbon gain under experimentally enhanced ozone stress? *Environ. Pollut.* **166**, 108-115 (2012)

Kremb, S., Ernst, D., Heller, W. & Wiencke, C.*: Gene expression analysis in the green macroalga *Acrosiphonia arcta* (Dillw.) J. Ag.: Method optimization and influence of ultraviolet radiation. *Phycol. Res.* **60**, 151-160 (2012)

Lavoir, A.V. et al.: Scaling-up leaf monoterpene emissions from a water limited *Quercus ilex* woodland. *Atmos. Environ.* **45**, 2888-2897 (2011)

Löw, M. et al.: Multivariate analysis of physiological parameters reveals a consistent O₃ response pattern in leaves of adult European beech (*Fagus sylvatica*). *New Phytol.* **196**, 162-172 (2012)

Institute of Biochemical Plant Pathology

Matyssek, R. et al.: Forests under climate change and air pollution: Gaps in understanding and future directions for research. *Environ. Pollut.* **160**, 57-65 (2012)

Monson, R.K.* , Grote, R.* , Niinemets, U.* & Schnitzler, J.-P.: Modeling the isoprene emission rate from leaves. *New Phytol.* **195**, 541-559 (2012)

Monson, R.K.* , Jones, R.T.* , Rosenstiel, T.N.* & Schnitzler, J.-P.: Why only some plants emit isoprene. *Plant Cell Environ.* **36**, 503-516 (2013) [published online 2012]

Péret, B. et al.: Auxin regulates aquaporin function to facilitate lateral root emergence. *Nat. Cell Biol.* **14**, 991-998 (2012)

Schreiner, M. et al.: UV-B-induced secondary plant metabolites - potential benefits for plant and human health. *Crit. Rev. Plant Sci.* **31**, 229-240 (2012)

Trowbridge, A.M. et al.: Contribution of various carbon sources toward isoprene biosynthesis in poplar leaves mediated by altered atmospheric CO₂ concentrations. *PLoS One* **7**:e32387 (2012)

Way, D.A.* , Schnitzler, J.-P., Monson, R.K.* & Jackson, R.B.*: Enhanced isoprene-related tolerance of heat- and light-stressed photosynthesis at low, but not high, CO₂ concentrations. *Oecologia* **166**, 273-282 (2011)

Welter, S. et al.: The diversification of terpene emissions in Mediterranean oaks: Lessons from a study of *Quercus suber*, *Quercus canariensis* and its hybrid *Quercus afares*. *Tree Physiol.* **32**, 1082-1091 (2012)

Yin, R. et al.: Feedback inhibition of the general phenylpropanoid and flavonol biosynthetic pathways upon a compromised flavonol-3-O-glycosylation. *J. Exp. Bot.* **63**, 2465-2478 (2012)

Institute of Bioinformatics and Systems Biology

Arnold, B. et al.: Multimodale Therapie des Fibromyalgiesyndroms. Systematische Übersicht, Metaanalyse und Leitlinie. *Schmerz* **26**, 287-290 (2012)

Arnold, M., Ellwanger, D.C., Hartsperger, M.L., Pfeufer, A. & Stümpflen, V.: *Cis*-acting polymorphisms affect complex traits through modifications of microRNA regulation pathways. *PLoS One* **7**:e36694 (2012)

Arnold, M. et al.: Network-based SNP meta-analysis identifies joint and disjoint genetic features across common human diseases. *BMC Genomics* **13**:490 (2012)

Bao, C. et al.: Gold nanoprisms as optoacoustic signal nanoamplifiers for *in vivo* bioimaging of gastrointestinal cancers. *Small* **9**, 68-74 (2013) [published online 2012]

Brenchley, R. et al.: Analysis of the breadwheat genome using whole-genome shotgun sequencing. *Nature* **491**, 705-710 (2012)

Büttner, F. & Theis, F.J.: A novel approach for resolving differences in single-cell gene expression patterns from zygote to blastocyst. *Bioinformatics* **28**, i626-i632 (2012)

Chursov, A. et al.: Sequence-structure relationships in yeast mRNAs. *Nucleic Acids Res.* **40**, 956-962 (2012)

Chursov, A. et al.: Specific temperature-induced perturbations of secondary mRNA structures are associated with the cold-adapted temperature-sensitive phenotype of influenza A virus. *RNA Biol.* **9**, 1266-1274 (2012)

Feuillet, C. et al.: Integrating cereal genomics to support innovation in the Triticeae. *Funct. Integr. Genomics* **12**, 573-583 (2012)

Gutch, H.W.* & Theis, F.J.: Uniqueness of linear factorizations into independent subspaces. *J. Multivar. Anal.* **112**, 48-62 (2012)

Konrad, M. et al.: Social transfer of pathogenic fungus promotes active immunisation in ant colonies. *PLoS Biol.* **10**:e1001300 (2012)

Kreutz, C.*, Raue, A. & Timmer, J.*: Likelihood based observability analysis and confidence intervals for predictions of dynamic models. *BMC Syst. Biol.* **6**:120 (2012)

Krug, S. et al.: The dynamic range of the human metabolome revealed by challenges. *Faseb J.* **26**, 2607-2619 (2012)

Krumsiek, J., Suhre, K., Illig, T., Adamski, J. & Theis, F.J.: Bayesian independent component analysis recovers pathway signatures from blood metabolomics data. *J. Proteome Res.* **11**, 4120-4131 (2012)

Krumsiek, J. et al.: Mining the unknown: A systems approach to metabolite identification combining genetic and metabolic information. *PLoS Genet.* **8**:e1003005 (2012)

Institute of Bioinformatics and Systems Biology

Laurie, J.D. et al.: Genome comparison of barley and maize smut fungi reveals targeted loss of RNA silencing components and species-specific presence of transposable elements. *Plant Cell* **24**, 1733-1745 (2012)

Lechner, M. et al.: CIDeR: Multifactorial interaction networks in human diseases. *Genome Biol.* **13**:R62 (2012)

Makhnevych, T. et al.: Hsp110 is required for spindle length control. *J. Cell Biol.* **198**, 623-636 (2012)

Marr, C. & Hutt, M.-T.*: Cellular automata on graphs: Topological properties of ER graphs evolved towards low-entropy dynamics. *Entropy* **14**, 993-1010 (2012)

Marr, C., Strasser, M., Schwarzfischer, M., Schroeder, T. & Theis, F.J.: Multi-scale modeling of GMP differentiation based on single-cell genealogies. *FEBS J.* **279**, 3488-3500 (2012)

Martis, M.M. et al.: Selfish supernumerary chromosome reveals its origin as a mosaic of host genome and organellar sequences. *Proc. Natl. Acad. Sci. U.S.A.* **109**, 13343-13346 (2012)

Mayer, K.F.X. et al.: A physical, genetic and functional sequence assembly of the barley genome. *Nature* **491**, 711-716 (2012)

Menni, C. et al.: Targeted metabolomics profiles are strongly correlated with nutritional patterns in women. *Metabolomics* **9**, 506-514 (2013) [published online 2012]

Milosevic, J. et al.: Profibrotic role of miR-154 in pulmonary fibrosis. *Am. J. Respir. Cell Mol. Biol.* **47**, 879-887 (2012)

Nussbaumer, T. et al.: MIPS PlantsDB: A database framework for comparative plant genome research. *Nucleic Acids Res.* **41**, D1144-D1151 (2013) [published online 2012]

Orchard, S. et al.: Protein interaction data curation: The International Molecular Exchange (IMEx) consortium. *Nat. Methods* **9**, 345-350 (2012)

Paterson, A.H. et al.: Repeated polyploidization of *Gossypium* genomes and the evolution of spinnable cotton fibres. *Nature* **492**, 423-437 (2012)

Payne, S.H. et al.: Unexpected diversity of signal peptides in prokaryotes. *mBio* **3**:e00339-12 (2012)

Pfeifer, M. et al.: The Perennial Ryegrass GenomeZipper - targeted use of genome resources for comparative grass genomics. *Plant Physiol.* **161**, 571-582 (2012)

Piednoël, M. et al.: Next-generation sequencing reveals the impact of repetitive DNA across phylogenetically closely related genomes of orobanchaceae. *Mol. Biol. Evol.* **29**, 3601-3611 (2012)

Raue, A.*, Kreutz, C.*, Theis, F.J. & Timmer, J.*: Joining forces of Bayesian and frequentist methodology: A study for inference in the presence of non-identifiability. *Philos. Transact. R. Soc. A - Math. Phys. Eng. Sci.* **371**:20110544 (2012)

Institute of Bioinformatics and Systems Biology

Renner, S. et al.: Changing metabolic signatures of amino acids and lipids during the prediabetic period in a pig model with impaired incretin function and reduced β -cell mass. *Diabetes* **61**, 2166-2175 (2012)

Sato, S. et al.: The tomato genome sequence provides insights into fleshy fruit evolution. *Nature* **485**, 635-641 (2012)

Schmidl, D., Hug, S., Li, W.B., Greiter, M.B. & Theis, F.J.: Bayesian model selection validates a biokinetic model for zirconium processing in humans. *BMC Syst. Biol.* **6**:95 (2012)

Smialowski, P., Doose, G.*, Torkler, P.*, Kaufmann, S.* & Frishman, D.: PROSO II - a new method for protein solubility prediction. *FEBS J.* **279**, 2192-2200 (2012)

Sonnenschein, N.*, Marr, C. & Hütt, M.-T.*: A topological characterization of medium-dependent essential metabolic reactions. *Metabolomics* **2**, 632-647 (2012)

Sterz, K.*, Scherer, G.*, Krumsiek, J., Theis, F.J. & Ecker, J.*: Identification and quantification of 1-hydroxybutene-2-yl mercapturic acid in human urine by UPLC- HILIC-MS/MS as a novel biomarker for 1,3-butadiene exposure. *Chem. Res. Toxicol.* **25**, 1565-1567 (2012)

Strasser, M., Theis, F.J. & Marr, C.: Stability and multiattractor dynamics of a toggle switch based on a two-stage model of stochastic gene expression. *Biophys. J.* **102**, 19-29 (2012)

Studer, B. et al.: A transcriptome map of perennial ryegrass (*Lolium perenne* L.). *BMC Genomics* **13**:140 (2012)

Suhre, K. & Gieger, C.: Genetic variation in metabolic phenotypes: Study designs and applications. *Nat. Rev. Genet.* **13**, 759-769 (2012)

Vincent, E. et al.: The signal separation evaluation campaign (2007-2010): Achievements and remaining challenges. *Signal Process.* **92**, 1928-1936 (2011)

Wägele, B., Witting, M., Schmitt-Kopplin, P. & Suhre, K.: MassTRIX reloaded: Combined analysis and visualization of transcriptome and metabolome data. *PLoS One* **7**:e39860 (2012)

Institute of Biological and Medical Imaging

Abou-Elkacem, L. et al.: High accuracy of mesoscopic epi-fluorescence tomography for non-invasive quantitative volume determination of fluorescent protein-expressing tumours in mice. *Eur. Radiol.* **22**, 1955-1962 (2012)

Ale, A. et al.: FMT-XCT: *In vivo* animal studies with hybrid fluorescence molecular tomography-X-ray computed tomography. *Nat. Methods* **9**, 615-620 (2012)

Bayer, C. et al.: Monitoring PAI-1 and VEGF levels in 6 human squamous cell carcinoma xenografts during fractionated irradiation. *Int. J. Radiat. Oncol. Biol. Phys.* **84**, e409-e417 (2012)

Bednar, B.* & Ntziachristos, V.: Opto-acoustic imaging of drug discovery biomarkers. *Curr. Pharm. Biotechnol.* **13**, 2117-2127 (2012)

Böttger, E.*, Multhoff, G., Kun, J.F.* & Esen, M.*: *Plasmodium falciparum*-infected erythrocytes induce granzyme B by NK cells through expression of host-Hsp70. *PLoS One* **7**:e33774 (2012)

Bühler, A., Deán-Ben, X.L., Claussen, J., Ntziachristos, V. & Razansky, D.: Three-dimensional optoacoustic tomography at video rate. *Opt. Express* **20**, 22712-22719 (2012)

Burton, N.C. et al.: Multispectral Opto-Acoustic Tomography (MSOT) of the brain and glioblastoma characterization. *Neuroimage* **15**, 522-528 (2012)

Caballero, M.A.A., Rosenthal, A., Gateau, J., Razansky, D. & Ntziachristos, V.: Model-based optoacoustic imaging using focused detector scanning. *Opt. Lett.* **37**, 4080-4082 (2012)

Deán-Ben, X.L., Ntziachristos, V. & Razansky, D.: Acceleration of optoacoustic model-based reconstruction using angular image discretization. *IEEE Trans. Med. Imaging* **31**, 1154-1162 (2012)

Deán-Ben, X.L., Bühler, A., Ntziachristos, V. & Razansky, D.: Accurate model-based reconstruction algorithm for three-dimensional optoacoustic tomography. *IEEE Trans. Med. Imaging* **31**, 1922-1928 (2012)

Deán-Ben, X.L., Ntziachristos, V. & Razansky, D.: Artefact reduction in optoacoustic tomographic imaging by estimating the distribution of acoustic scatterers. *J. Biomed. Opt.* **17**:110504 (2012)

Dima, A. & Ntziachristos, V.: Non-invasive carotid imaging using optoacoustic tomography. *Opt. Express* **20**, 25044-25057 (2012)

Gehrmann, M. et al.: Immunotherapeutic targeting of membrane Hsp70-expressing tumors using recombinant human granzyme B. *PLoS One* **7**:e41341 (2012)

Härdtner, C.*, Multhoff, G., Falk, W.* & Radons, J.*: (-)-Epigallocatechin-3-gallate, a green tea-derived catechin, synergizes with celecoxib to inhibit IL-1-induced tumorigenic mediators by human pancreatic adenocarcinoma cells Colo357. *Eur. J. Pharmacol.* **684**, 36-43 (2012)

Herzog, E. et al.: Optical imaging of cancer heterogeneity with multispectral optoacoustic tomography. *Radiology* **263**, 461-468 (2012)

Institute of Biological and Medical Imaging

- Jin, A.* , Yazici, B.* , Ale, A. & Ntziachristos, V.: Preconditioning of the fluorescence diffuse optical tomography sensing matrix based on compressive sensing. *Opt. Lett.* **37**, 4326-4328 (2012)
- Kellnberger, S., Deliolanis, N.C., Queiros, D., Sergiadis, G.* & Ntziachristos, V.: *In vivo* frequency domain optoacoustic tomography. *Opt. Lett.* **37**, 3423-3425 (2012)
- Lozano, N. et al.: Liposome-gold nanorod hybrids for high-resolution visualization deep in tissues. *J. Am. Chem. Soc.* **134**, 13256-13258 (2012)
- Ma, R., Söntges, S., Shoham, S., Ntziachristos, V. & Razansky, D.: Fast scanning coaxial optoacoustic microscopy. *Biomed. Opt. Express* **3**, 1724-1731 (2012)
- Ma, R., Distel, M., Deán-Ben, X.L., Ntziachristos, V. & Razansky, D.: Non-invasive whole-body imaging of adult zebrafish with optoacoustic tomography. *Phys. Med. Biol.* **57**, 7227-7237 (2012)
- Mallas, G. et al.: Improving quantification of intravascular fluorescence imaging using structural information. *Phys. Med. Biol.* **57**, 6395-6406 (2012)
- Multhoff, G., Gaipf, U.S.* & Niedermann, G.*: Die Rolle der Strahlentherapie bei der Induktion von Antitumor-Immunantworten. *Strahlenther. Onkol.* **188**, 312-315 (2012)
- Multhoff, G., Pockley, A.G.* , Streffer, C.* & Gaipf, U.S.*: Dual role of Heat Shock Proteins (HSPs) in anti-tumor immunity. *Curr. Mol. Med.* **12**, 1174-1182 (2012)
- Nagaraja, G.M. et al.: Silencing hsp25/hsp27 gene expression augments proteasome activity and increases CD8⁺ T-cell-mediated tumor killing and memory responses. *Cancer Prev. Res.* **5**, 122-137 (2012)
- Omar, M., Kellnberger, S., Sergiadis, G.* , Razansky, D. & Ntziachristos, V.: Near-field thermoacoustic imaging with transmission line pulsers. *Med. Phys.* **39**, 4460-4466 (2012)
- Radrich, K., Ale, A., Ermolayev, V. & Ntziachristos, V.: Improving limited-projection-angle fluorescence molecular tomography using a co-registered X-ray computed tomography scan. *J. Biomed. Opt.* **17**:126011 (2012)
- Razansky, D., Deliolanis, N., Vinegoni, C.* & Ntziachristos, V.: Deep tissue optical and optoacoustic molecular imaging technologies for small animal research and drug discovery. *Curr. Pharm. Biotechnol.* **13**, 504-522 (2012)
- Razansky, D.: Multispectral optoacoustic tomography - volumetric color hearing in real time. *IEEE J. Sel. Top. Quantum Electron.* **18**, 1234-1243 (2012)
- Rodriguez-Cobo, L.* , García-Allende, P.B., Cobo, A.* , Lopez-Higuera, J.M.* & Conde, O.M.*: Raw material classification by means of hyperspectral imaging and hierarchical temporal memories. *IEEE Sens. J.* **12**, 2767-2775 (2012)
- Rosenthal, A., Jetzfellner, T., Razansky, D. & Ntziachristos, V.: Efficient framework for model-based tomographic image reconstruction using wavelet packets. *IEEE Trans. Med. Imaging* **31**, 1346-1357 (2012)

Institute of Biological and Medical Imaging

Rosenthal, A., Caballero, M.A.A., Kellnberger, S., Razansky, D. & Ntziachristos, V.: Spatial characterization of the response of a silica optical fiber to wideband ultrasound. *Opt. Lett.* **37**, 3174-3176 (2012)

Rosenthal, A., Kellnberger, S., Sergiadis, G.* & Ntziachristos, V.: Wideband fiber-interferometer stabilization with variable phase. *IEEE Photonics Technol. Lett.* **24**, (2012)

Rosenthal, A., Razansky, D. & Ntziachristos, V.: Wideband optical sensing using pulse interferometry. *Opt. Express* **20**, 19016-19029 (2012)

Sarantopoulos, A., Beziere, N. & Ntziachristos, V.: Optical and opto-acoustic interventional imaging. *Ann. Biomed. Eng.* **40**, 346-366 (2012)

Scheuer, W.*, van Dam, G.M.*, Dobosz, M.*, Schwaiger, M.* & Ntziachristos, V.: Drug-based optical agents: Infiltrating clinics at lower risk. *Sci. Transl. Med.* **4**:134ps11 (2012)

Schilling, D. et al.: Basal HIF-1 α expression levels are not predictive for radiosensitivity of human cancer cell lines. *Strahlenther. Onkol.* **188**, 353-358 (2012)

Schilling, D. et al.: Radiosensitization of normoxic and hypoxic h1339 lung tumor cells by heat shock protein 90 inhibition is independent of hypoxia inducible factor-1 α . *PLoS One* **7**:e31110 (2012)

Schilling, D., Düwel, M.*, Molls, M.* & Multhoff, G.: Radiosensitization of wildtype p53 cancer cells by the MDM2-inhibitor PXN727 is associated with altered Heat shock protein 70 (Hsp70) levels. *Cell Stress Chaperones* **18**, 183-191 (2013) [published online 2012]

Schmid, T.E.*, Zlobinskaya, O.* & Multhoff, G.: Differences in phosphorylated histone H2AX foci formation and removal of cells exposed to low and high linear energy transfer radiation. *Curr. Genomics* **13**, 418-425 (2012)

Schmid, T.E. et al.: Low LET protons focused to submicrometer shows enhanced radiobiological effectiveness. *Phys. Med. Biol.* **57**, 5889-5907 (2012)

Schmid, T.E.* & Multhoff, G.: Radiation-induced stress proteins - the role of heat shock proteins (HSP) in anti-tumor responses. *Curr. Med. Chem.* **19**, 1765-1770 (2012)

Schmieder, A.*, Multhoff, G. & Radons, J.*: Interleukin-33 acts as a pro-inflammatory cytokine and modulates its receptor gene expression in highly metastatic human pancreatic carcinoma cells. *Cytokine* **60**, 514-521 (2012)

Taruttis, A., Morscher, S., Burton, N.C., Razansky, D. & Ntziachristos, V.: Fast multispectral optoacoustic tomography (MSOT) for dynamic imaging of pharmacokinetics and biodistribution in multiple organs. *PLoS One* **7**:e30491 (2012)

Taruttis, A., Claussen, J., Razansky, D. & Ntziachristos, V.: Motion clustering for deblurring multispectral optoacoustic tomography images of the mouse heart. *J. Biomed. Opt.* **17**:016009 (2012)

Institute of Biological and Medical Imaging

Taruttis, A. & Ntziachristos, V.: Translational optical imaging. *Am. J. Roentgenol.* **199**, 263-271 (2012)

van Dam, G.M.* & Ntziachristos, V.: Current concepts and future perspectives on intraoperative fluorescence imaging in cancer: Clinical need. *Curr. Med. Imaging Rev.* **8**, 233-243 (2012)

Vinegoni, C. et al.: Mapping molecular agents distributions in whole mice hearts using Born-normalized optical projection tomography. *PLoS One* **7**:e34427 (2012)

Wildgruber, M. et al.: Evaluation of phase-sensitive versus magnitude reconstructed inversion recovery imaging for the assessment of myocardial infarction in mice with a clinical magnetic resonance scanner. *J. Magn. Reson. Imaging* **36**, 1372-1382 (2012)

Zlobinskaya, O. et al.: Reduced side effects by proton microchannel radiotherapy: Study in a human skin model. *Radiat. Environ. Biophys.* **52**, 123-133 (2013) [published online 2012]

Institute of Biomathematics and Biometry

Ansorg, M.* , Filbir, F., Madych, W.R.* & Seyfried, R.: Summability kernels for circular and spherical mean data. *Inverse Probl.* **29**:015002 (2013) [published online 2012]

Berschneider, G.* , zu Castell, W. & Schrödl, J.S.: Function spaces for conditionally positive definite operator-valued kernels. *Math. Comput.* **81**, 1551-1569 (2012)

Brüggemann, R.* & Voigt, K.: Antichains in partial order, example: Pollution in a German region by lead, cadmium, zinc and sulfur in the herb layer. *Match-Commun. Math. Comput. Chem.* **67**, 731-744 (2012)

Christensen, O.* & Massopust, P.: Exponential B-splines and the partition of unity property. *Adv. Comput. Math.* **37**, 301-318 (2012)

Cresson, J.* , Efendiyev, M. & Sonner, S.: On the positivity of solutions of systems of stochastic PDEs. *Z. Angew. Math. Mech.* **93**, 414-422 (2013) [published online 2012]

Efendiyev, M.: Infinite dimensional attractors for porous medium equations in heterogeneous medium. *Math. Meth. Appl. Sci.* **35**, 1987-1996 (2012)

Ehler, M., Filbir, F. & Mhaskar, H.N.*: Locally learning biomedical data using diffusion frames. *J. Comput. Biol.* **19**, 1251-1264 (2012)

Filbir, F., Mhaskar, N.* & Prestin, J.*: On the problem of parameter estimation in exponential sums. *Constr. Approx.* **35**, 323-343 (2012)

Forster, B., Massopust, P. & Übelacker, T.*: Periodic splines of complex order. *Numer. Funct. Anal. Optim.* **33**, 989-1004 (2012)

Friel, J.: Sparse regularization in limited angle tomography. *Appl. Comput. Harmon. Anal.* **34**, 117-141 (2013) [published online 2012]

Gallenberger, M., zu Castell, W., Hense, B.A. & Kuttler, C.*: Dynamics of glucose and insulin concentration connected to the β -cell cycle: Model development and analysis. *Theor. Biol. Med. Model.* **9**:46 (2012)

Görner, T.* , Hielscher, R.* & Kunis, S.: Efficient and accurate computation of spherical mean values at scattered center points. *Inverse Probl. Imaging* **6**, 645-661 (2012)

Hahn, K., Prigarin, S.* & Hasan, K.M.*: Fitting of two-tensor models without ad hoc assumptions to detect crossing fibers using clinical DWI data. *Magn. Reson. Imaging* **31**, 585-595 (2013) [published online 2012]

Hense, B.A., Müller, J.* , Kuttler, C.* & Hartmann, A.: Spatial heterogeneity of autoinducer regulation systems. *Sensors* **12**, 4156-4171 (2012)

Jooste, A.* , Jordaan, K.* & Toókos, F.: On the zeros of Meixner polynomials. *Numer. Math.* **124**, 57-71 (2013) [published online 2012]

Institute of Biomathematics and Biometry

Kämmerer, L.* , Kunis, S. & Potts, D.*: Interpolation lattices for hyperbolic cross trigonometric polynomials. *J. Complex.* **28**, 76-92 (2012)

Kunis, S. & Melzer, I.*: A stable and accurate butterfly sparse fourier transform. *SIAM J. Numer. Anal.* **50**, 1777-1800 (2012)

Meyer, A. et al.: Dynamics of AHL mediated quorum sensing under flow and non-flow conditions. *Phys. Biol.* **9**:026007 (2012)

Perez-Velazquez, J. et al.: Stochastic modeling of *Pseudomonas syringae* growth in the phyllosphere. *Math. Biosci.* **239**, 106-116 (2012)

Plate, A. et al.: Three-dimensional sonographic examination of the midbrain for computer-aided diagnosis of movement disorders. *Ultrasound Med. Biol.* **38**, 2041-2050 (2012)

Sperling, K.* , Neitzel, H.* & Scherb, H.: Evidence for an increase in trisomy 21 (Down syndrome) in Europe after the Chernobyl reactor accident. *Genet. Epidemiol.* **36**, 48-55 (2012)

Voigt, K., Scherb, H., Brüggemann, R.* & Schramm, K.-W.: Discrete mathematical data analysis method in support of sustainable chemistry. *Fresenius Environ. Bull.* **21**, 2510-2515 (2012)

Weinmann, A.: Interpolatory multiscale representation for functions between manifolds. *SIAM J. Math. Anal.* **44**, 162-191 (2012)

zu Castell, W. & Ernst, D.: Experimental 'omics' data in tree research: Facing complexity. *Trees-Struct. Funct.* **26**, 1723-1735 (2012)

Institute of Clinical Molecular Biology and Tumor Genetics

Brookes, E. et al.: Polycomb associates genome-wide with a specific RNA polymerase II variant, and regulates metabolic genes in ESCs. *Cell Stem Cell* **10**, 157-170 (2012)

Dufour, A. et al.: Monoallelic *CEBPA* mutations in normal karyotype acute myeloid leukemia: Independent favorable prognostic factor within *NPM1* mutated patients. *Ann. Hematol.* **91**, 1051-1063 (2012)

Gerbitz, A. et al.: Stromal interferon- γ signaling and cross-presentation are required to eliminate antigen-loss variants of B cell lymphomas in mice. *PLoS One* **7**:e34552 (2012)

Greif, P.A. et al.: *GATA2* zinc finger 1 mutations associated with biallelic *CEBPA* mutations define a unique genetic entity of acute myeloid leukemia. *Blood* **120**, 395-403 (2012)

Greif, P.A. et al.: *RUNX1* mutations in cytogenetically normal acute myeloid leukemia are associated with poor prognosis and up-regulation of lymphoid genes. *Haematol-Hematol. J.* **97**, 1909-1915 (2012)

Grömminger, S., Mautner, J. & Bornkamm, G.W.: Burkitt lymphoma: The role of Epstein-Barr virus revisited. *Br. J. Haematol.* **156**, 719-729 (2012)

Heidemann, M., Hintermair, C., Voß, K. & Eick, D.: Dynamic phosphorylation patterns of RNA polymerase II CTD during transcription. *Biochim. Biophys. Acta-Gene Regul. Mech.* **1829**, 55-62 (2013) [published online 2012]

Heidemann, M. & Eick, D.: Tyrosine-1 and threonine-4 phosphorylation marks complete the RNA polymerase II CTD phospho-code. *RNA Biol.* **9**, 1144-1146 (2012)

Herold, T. et al.: High expression of *MZB1* predicts adverse prognosis in chronic lymphocytic leukemia, follicular lymphoma and diffuse large B-cell lymphoma and is associated with a unique gene expression signature. *Leuk. Lymphoma* **54**, 1652-1657 (2013) [published online 2012]

Hintermair, C. et al.: Threonine-4 of mammalian RNA polymerase II CTD is targeted by Polo-like kinase 3 and required for transcriptional elongation. *Embo J.* **31**, 2784-2797 (2012)

Hochstatter, J. et al.: Myb-binding protein 1a (Mybbp1a) regulates levels and processing of pre-ribosomal RNA. *J. Biol. Chem.* **287**, 24365-24377 (2012)

Hutter, G. et al.: Proteasome inhibition leads to dephosphorylation and downregulation of protein expression of members of the Akt/mTOR pathway in MCL. *Leukemia* **26**, 2442-2444 (2012)

Hutter, G. et al.: The proteasome inhibitor bortezomib targets cell cycle and apoptosis and acts synergistically in a sequence-dependent way with chemotherapeutic agents in mantle cell lymphoma. *Ann. Hematol.* **91**, 847-856 (2012)

Mayer, A. et al.: CTD tyrosine phosphorylation impairs termination factor recruitment to RNA polymerase II. *Science* **336**, 1723-1725 (2012)

Institute of Clinical Molecular Biology and Tumor Genetics

Metzeler, K.H. et al.: High expression of Lymphoid Enhancer-binding Factor-1 (*LEF1*) is a novel favorable prognostic factor in cytogenetically normal acute myeloid leukemia. *Blood* **120**, 2118-2126 (2012)

Mulaw, M.A. et al.: *CALM/AF10*-positive leukemias show upregulation of genes involved in chromatin assembly and DNA repair processes and of genes adjacent to the breakpoint at 10p12. *Leukemia* **26**, 1012-1019 (2012)

Pietschmann, K. et al.: Breakdown of the FLT3-ITD/STAT5 axis and synergistic apoptosis induction by the histone deacetylase inhibitor panobinostat and FLT3-specific inhibitors. *Mol. Cancer Ther.* **11**, 2373-2383 (2012)

Polzer, H., Janke, H., Schmid, D., Hiddemann, W. & Spiekermann, K.: CBL mutants activate AKT to induce transformation in cooperation with class III receptor tyrosine kinases. *Exp. Hematol.* **41**, 271-280 (2013) [published online 2012]

Schneider, F. et al.: The *FLT3*ITD mRNA level has a high prognostic impact in *NPM1* mutated, but not in *NPM1* unmutated, AML with a normal karyotype. *Blood* **119**, 4383-4386 (2012)

Shchebet, A.*, Karpiuk, O.*, Kremmer, E., Eick, D. & Johnsen, S.A.*: Phosphorylation by cyclin-dependent kinase-9 controls ubiquitin-conjugating enzyme-2A function. *Cell Cycle* **11**, 2122-2127 (2012)

Stadhouders, R. et al.: Dynamic long-range chromatin interactions control *Myb* proto-oncogene transcription during erythroid development. *Embo J.* **31**, 986-999 (2012)

Vogl, I. et al.: Diagnostic applications of next generation sequencing: Working towards quality standards. *LaboratoriumsMedizin* **36**, 227-239 (2012)

Windhager, L. et al.: Ultrashort and progressive 4sU-tagging reveals key characteristics of RNA processing at nucleotide resolution. *Genome Res.* **22**, 2031-2042 (2012)

Institute of Developmental Genetics

Agoston, Z.* , Li, N.* , Haslinger, A., Wizenmann, A.* & Schulte, D.*: Genetic and physical interaction of Meis2, Pax3 and Pax7 during dorsal midbrain development. *BMC Dev. Biol.* **12**:10 (2012)

Aslam, M.* , Ahmad, N., Srivastava, R.* & Hemmer, B.*: TNF-alpha induced NFkB signaling and p65 (RelA) overexpression repress Cldn5 promoter in mouse brain endothelial cells. *Cytokine* **57**, 269-275 (2012)

Audouard, E. et al.: The onecut transcription factor HNF-6 regulates in motor neurons the formation of the neuromuscular junctions. *PLoS One* **7**:e50509 (2012)

Augustin, R. et al.: Computational identification and experimental validation of microRNAs binding to the Alzheimer-related gene ADAM10. *BMC Med. Genet.* **13**:35 (2012)

Bradley, A. et al.: The mammalian gene function resource: The International Knockout Mouse Consortium. *Mamm. Genome* **23**, 580-586 (2012)

Breu, J. et al.: Urocortin 2 modulates aspects of social behaviour in mice. *Behav. Brain Res.* **233**, 331-336 (2012)

Coolen, M., Thieffry, D.* , Drivenes, O.* , Becker, T.S.* & Bally-Cuif, L.: MiR-9 controls the timing of neurogenesis through the direct inhibition of antagonistic factors. *Dev. Cell* **22**, 1052-1064 (2012)

Delogu, A. et al.: Subcortical visual shell nuclei targeted by ipRGCs develop from a Sox14+-GABAergic progenitor and require Sox14 to regulate daily activity rhythms. *Neuron* **75**, 648-662 (2012)

Di Giovannantonio, L.G. et al.: Otx2 selectively controls the neurogenesis of specific neuronal subtypes of the ventral tegmental area and compensates En1-dependent neuronal loss and MPTP vulnerability. *Dev. Biol.* **373**, 176-183 (2012)

Garrett, L., Lie, D.C., Hrabé de Angelis, M., Wurst, W. & Höfler, S.M.: Voluntary wheel running in mice increases the rate of neurogenesis without affecting anxiety-related behaviour in single tests. *BMC Neurosci.* **13**:61 (2012)

Gasl, L. et al.: Pink1-deficiency in mice impairs gait, olfaction and serotonergic innervation of the olfactory bulb. *Exp. Neurol.* **235**, 214-227 (2012)

Graf, C. et al.: Corticotropin-releasing hormone regulates common target genes with divergent functions in corticotrope and neuronal cells. *Mol. Cell. Endocrinol.* **362**, 29-38 (2012)

Hämmerle, B. et al.: Transient expression of *Mnb/Dyrk1a* couples cell cycle exit and differentiation of neuronal precursors by inducing *p27^{KIP1}* expression and suppressing NOTCH signaling. *Development* **138**, 2543-2554 (2011)

Hüttl, R.E., Haehl, T. & Huber, A.B.: Fasciculation and guidance of spinal motor axons in the absence of FGFR2 signaling. *PLoS One* **7**:e41095 (2012)

Institute of Developmental Genetics

Kühne, C. et al.: Visualizing corticotropin-releasing hormone receptor type 1 expression and neuronal connectivities in the mouse using a novel multifunctional allele. *J. Comp. Neurol.* **520**, 3150-3180 (2012)

Mellett, M. et al.: Orphan receptor IL-17RD tunes IL-17A signalling and is required for neutrophilia. *Nat. Commun.* **3**:1119 (2012)

Menke, A. et al.: Dexamethasone stimulated gene expression in peripheral blood is a sensitive marker for glucocorticoid receptor resistance in depressed patients. *Neuropsychopharmacology* **37**, 1455-1464 (2012)

Meyer, M., Ortiz, O., Hrabé de Angelis, M., Wurst, W. & Kühn, R.: Modeling disease mutations by gene targeting in one-cell mouse embryos. *Proc. Natl. Acad. Sci. U.S.A.* **109**, 9354-9359 (2012)

Mu, L. et al.: SoxC transcription factors are required for neuronal differentiation in adult hippocampal neurogenesis. *J. Neurosci.* **32**, 3067-3080 (2012)

Niv, F. et al.: Aberrant neurogenesis after stroke: A retroviral cell labeling study. *Stroke* **43**, 2468-2475 (2012)

Noblanc, A. et al.: Epididymis response partly compensates for spermatozoa oxidative defects in snGPx4 and GPx5 double mutant mice. *PLoS One* **7**:e38565 (2012)

Peng, C. et al.: A unilateral negative feedback loop between *miR-200* microRNAs and Sox2/E2F3 controls neural progenitor cell-cycle exit and differentiation. *J. Neurosci.* **32**, 13292-13308 (2012)

Pombero, A. et al.: Pallial origin of basal forebrain cholinergic neurons in the nucleus basalis of Meynert and horizontal limb of the diagonal band nucleus. *Development* **138**, 4315-4326 (2011)

Rehklau, K. et al.: ADF/cofilin proteins translocate to mitochondria during apoptosis but are not generally required for cell death signaling. *Cell Death Differ.* **19**, 958-967 (2012)

Rein, M.L.* & Deussing, J.M.: The optogenetic (r)evolution. *Mol. Genet. Genomics* **287**, 95-109 (2012)

Roshan, M. et al.: Analysis of mitochondrial DNA variations in Indian patients with congenital cataract. *Mol. Vis.* **18**, 181-193 (2012)

Roy, A. et al.: Onecut transcription factors act upstream of *Isl1* to regulate spinal motoneuron diversification. *Development* **139**, 3109-3119 (2012)

Schwarz, T.J., Ebert, B. & Lie, D.C.: Stem cell maintenance in the adult mammalian hippocampus: A matter of signal integration? *Dev. Neurobiol.* **72**, 1006-1015 (2012)

Steinhart, M.R. et al.: Mice with an induced mutation in collagen 8A2 develop larger eyes and are resistant to retinal ganglion cell damage in an experimental glaucoma model. *Mol. Vis.* **18**, 1093-1106 (2012)

Publication List 2012

31.12.2012

* external Authors

Institute of Developmental Genetics

Walker, S.L. et al.: Automated reporter quantification *in vivo*: High-throughput screening method for reporter-based assays in zebrafish. *PLoS One* **7**:e29916 (2012)

Waltereit, R. et al.: *Srgap3*^{-/-} mice present a neurodevelopmental disorder with schizophrenia-related intermediate phenotypes. *Faseb J.* **26**, 4418-4428 (2012)

Wang, X.D. et al.: Early-life stress-induced anxiety-related behavior in adult mice partially requires forebrain corticotropin-releasing hormone receptor 1. *Eur. J. Neurosci.* **36**, 2360-2367 (2012)

Wefers, B. et al.: MAPK signaling determines anxiety in the juvenile mouse brain but depression-like behavior in adults. *PLoS One* **7**:e35035 (2012)

Xie, X. et al.: Silencer-delimited transgenesis: NRSE/RE1 sequences promote neural-specific transgene expression in a NRSF/REST-dependent manner. *BMC Biol.* **10**:93 (2012)

Yeritsyan, N.*, Lehmann, K.*, Puk, O., Graw, J. & Löwel, S.*: Visual capabilities and cortical maps in BALB/c mice. *Eur. J. Neurosci.* **36**, 2801-2811 (2012)

Institute of Diabetes and Obesity

Alkemade, A. et al.: AgRP and NPY expression in the human hypothalamic infundibular nucleus correlate with body mass index, whereas changes in α MSH are related to type 2 diabetes. *J. Clin. Endocrinol. Metab.* **97**, E925-E933 (2012)

Betz, M.J. et al.: Isoenergetic feeding of low carbohydrate-high fat diets does not increase brown adipose tissue thermogenic capacity in rats. *PLoS One* **7**:e38997 (2012)

Castañeda, T.R. et al.: Metabolic control by S6 kinases depends on dietary lipids. *PLoS One* **7**:e32631 (2012)

Chambers, A.P. et al.: The effects of vertical sleeve gastrectomy in rodents are ghrelin independent. *Gastroenterology* **144**, 50-52 (2013) [published online 2012]

Finan, B. et al.: Targeted estrogen delivery reverses the metabolic syndrome. *Nat. Med.* **18**, 1847-1856 (2012)

Heppner, K.M. et al.: Acylation type determines ghrelin's effects on energy homeostasis in rodents. *Endocrinology* **153**, 4687-4695 (2012)

Heppner, K.M.*, Müller, T.D., Tong, J.* & Tschöp, M.H.: Ghrelin in the control of energy, lipid, and glucose metabolism. *Methods Enzymol.* **514**, 249-260 (2012)

Heppner, K.M. et al.: The role of ghrelin-octanoyl-acyl-transferase in thermoregulation. *J. Endocrinol. Invest.* **36**, 180-184 (2013) [published online 2012]

Jastroch, M., Hirschberg, V.* & Klingenspor, M.*: Functional characterization of UCP1 in mammalian HEK293 cells excludes mitochondrial uncoupling artefacts and reveals no contribution to basal proton leak. *Biochim. Biophys. Acta-Bioenerg.* **1817**, 1660-1670 (2012)

Müller, T.D. et al.: Restoration of leptin responsiveness in diet-induced obese mice using an optimized leptin analog in combination with exendin-4 or FGF21. *J. Pept. Sci.* **18**, 383-393 (2012)

Nogueiras, R. et al.: Sirtuin 1 and sirtuin 3: Physiological modulators of metabolism. *Physiol. Rev.* **92**, 1479-1514 (2012)

Okle, O.*, Stemmer, K., Deschl, U.* & Dietrich, D.R.*: L -BMAA induced ER stress and enhanced caspase 12 cleavage in human neuroblastoma SH-SY5Y cells at low nonexcitotoxic concentrations. *Toxicol. Sci.* **131**, 217-224 (2013) [published online 2012]

Riepl, R.L. et al.: Influence of acute exposure to high altitude on basal and postprandial plasma levels of gastroenteropancreatic peptides. *PLoS One* **7**:e44445 (2012)

Rodgers, R.J.*, Tschöp, M.H. & Wilding, J.P.H.*: Anti-obesity drugs: Past, present and future. *Dis. Model. Mech.* **5**, 621-626 (2012)

Stemmer, K. et al.: High-fat-diet-induced obesity causes an inflammatory and tumor-promoting microenvironment in the rat kidney. *Dis. Model. Mech.* **5**, 627-635 (2012)

Institute of Diabetes and Obesity

Tine, M.* , Kuhl, H.* , Jastroch, M. & Reinhardt, R.*: Genomic characterization of the European sea bass *Dicentrarchus labrax* reveals the presence of a novel Uncoupling Protein (UCP) gene family member in the teleost fish lineage. *BMC Evol. Biol.* **12**:62 (2012)

Tong, J. et al.: Ghrelin stimulation of growth hormone isoforms: Parallel secretion of total and 20-kDa growth hormone and relation to insulin sensitivity in healthy humans. *J. Clin. Endocrinol. Metab.* **97**, 3366-3374 (2012)

Tschöp, M.H. et al.: A guide to analysis of mouse energy metabolism. *Nat. Methods* **9**, 57-63 (2012)

Yi, C.-X. et al.: Glucocorticoid signaling in the arcuate nucleus modulates hepatic insulin sensitivity. *Diabetes* **61**, 339-345 (2012)

Yi, C.-X. et al.: The GOAT-ghrelin system is not essential for hypoglycemia prevention during prolonged calorie restriction. *PLoS One* **7**:e32100 (2012)

Zeltser, L.M.* , Seeley, R.J.* & Tschöp, M.H.: Synaptic plasticity in neuronal circuits regulating energy balance. *Nat. Neurosci.* **15**, 1336-1342 (2012)

Institute of Diabetes Research and Metabolic Diseases

Böhm, A. et al.: Common genetic variation in the *SERPINF1* locus determines overall adiposity, obesity-related insulin resistance, and circulating leptin levels. *PLoS One* **7**:e34035 (2012)

Bühler, T.* , Ramseier, N.* , Machann, J., Schwenzer, N.F.* & Boesch, C.*: Magnetic resonance imaging based determination of body compartments with the Versatile, Interactive Sparse Sampling (VISS) method. *J. Magn. Reson. Imaging* **36**, 951-960 (2012)

Hatzigelaki, E. et al.: Insulin resistant phenotype of polycystic ovary syndrome does not seem to be caused by variation in *FTO*. *Horm. Metab. Res.* **44**, 810-813 (2012)

Heni, M. et al.: Nasal insulin changes peripheral insulin sensitivity simultaneously with altered activity in homeostatic and reward-related human brain regions. *Diabetologia* **55**, 1773-1782 (2012)

Herzberg-Schäfer, S.* , Heni, M.* , Stefan, N., Häring, H.-U. & Fritsche, A.: Impairment of GLP1-induced insulin secretion: Role of genetic background, insulin resistance and hyperglycaemia. *Diabetes Obes. Metab.* **14**, 85-90 (2012)

Kullmann, S. et al.: Functional network connectivity underlying food processing: Disturbed salience and visual processing in overweight and obese adults. *Cereb. Cortex* **23**, 1247-1256 (2013) [published online 2012]

Kullmann, S. et al.: Intranasal insulin modulates intrinsic reward and prefrontal circuitry of the human brain in lean women. *Neuroendocrinology* **97**, 176-182 (2013) [published online 2012]

Machann, J. et al.: Fraction of unsaturated fatty acids in Visceral Adipose Tissue (VAT) is lower in subjects with high total VAT volume - a combined ¹H MRS and volumetric MRI study in male subjects. *NMR Biomed.* **26**, 232-236 (2013) [published online 2012]

Montonen, J. et al.: Body iron stores and risk of type 2 diabetes: Results from the European Prospective Investigation into Cancer and Nutrition (EPIC)-Potsdam study. *Diabetologia* **55**, 2613-2621 (2012)

Neukamm, S.S. et al.: Identification of the amino acids 300-600 of IRS-2 as 14-3-3 binding region with the importance of IGF-1/insulin-regulated phosphorylation of Ser-573. *PLoS One* **7**:e43296 (2012)

Rittig, K. et al.: The secretion pattern of perivascular fat cells is different from that of subcutaneous and visceral fat cells. *Diabetologia* **55**, 1514-1525 (2012)

Sartorius, T. et al.: Association of common genetic variants in the *MAP4K4* locus with prediabetic traits in humans. *PLoS One* **7**:e47647 (2012)

Sartorius, T. et al.: Leptin affects insulin action in astrocytes and impairs insulin-mediated physical activity. *Cell. Physiol. Biochem.* **30**, 238-246 (2012)

Stefan, N., Fritsche, A. & Häring, H.-U.: Diabetes und Krebsrisiko. *Dtsch. Med. Wochenschr.* **137**, 1003-1006 (2012)

Publication List 2012

31.12.2012

* external Authors

Institute of Diabetes Research and Metabolic Diseases

Wagner, R. et al.: Exercise-induced albuminuria is associated with perivascular renal sinus fat in individuals at increased risk of type 2 diabetes. *Diabetologia* **55**, 2054-2058 (2012)

Institute of Diabetes Research Type 1

Adler, K. et al.: The effect of gestation and fetal mismatching on the development of autoimmune diabetes in non-obese diabetic mice. *Clin. Exp. Immunol.* **168**, 274-278 (2012)

Gerlach, K. et al.: Transcription factor NFATc2 controls the emergence of colon cancer associated with IL-6-dependent colitis. *Cancer Res.* **72**, 4340-4350 (2012)

Howson, J.M.M. et al.: Genetic association of zinc transporter 8 (ZnT8) autoantibodies in type 1 diabetes cases. *Diabetologia* **55**, 1978-1984 (2012)

Krause, S. et al.: IA-2 autoantibody affinity in children at risk for type 1 diabetes. *Clin. Immunol.* **145**, 224-229 (2012)

Krause, S. & Achenbach, P.: Neue Immunplattform zur Messung von Autoantikörpern bei Diabetes mellitus. *Diabetes Stoffwech. Herz* **21**, 171-173 (2012)

Weigmann, B.* & Daniel, C.: Treg vaccination with a strong-agonistic insulin mimetope. *Curr. Diab. Rep.* **12**, 463-470 (2012)

Winkler, C. et al.: A strategy for combining minor genetic susceptibility genes to improve prediction of disease in type 1 diabetes. *Genes Immun.* **13**, 549-555 (2012)

Ziegler, A.-G., Bonifacio, E.* & BABYDIAB-BABYDIET Study Group*: Age-related islet autoantibody incidence in offspring of patients with type 1 diabetes. *Diabetologia* **55**, 1937-1943 (2012)

Ziegler, A.-G. et al.: Long-term protective effect of lactation on the development of type 2 diabetes in women with recent gestational diabetes mellitus. *Diabetes* **61**, 3167-3171 (2012)

Publication List 2012

31.12.2012

* external Authors

Institute of Ecological Chemistry

Colín-García, M. et al.: Detection of peptidic sequences in the ancient acidic sediments of Río Tinto, Spain. *Orig. Life Evol. Biosph.* **41**, 523-527 (2011)

Institute of Epidemiology I

Antó, J.M. et al.: Understanding the complexity of IgE-related phenotypes from childhood to young adulthood: A Mechanisms of the Development of Allergy (MeDALL) seminar. *J. Allergy Clin. Immunol.* **129**, 943-954 (2012)

Attar, H. et al.: Extensive natural variation for cellular hydrogen peroxide release is genetically controlled. *PLoS One* **7**:e43566 (2012)

Bakolis, I. et al.: Respiratory health and endotoxin: Associations and modification by *CD14*-260 genotype. *Eur. Respir. J.* **39**, 573-581 (2012)

Barbir, A. et al.: Effects of phenotypes in Heterocyclic Aromatic Amine (HCA) metabolism-related genes on the association of HCA intake with the risk of colorectal adenomas. *Cancer Causes Control* **23**, 1429-1442 (2012)

Beyerlein, A. et al.: Gestational weight gain and body mass index in children: Results from three German cohort studies. *PLoS One* **7**:e33205 (2012)

Bradfield, J.P. et al.: A genome-wide association meta-analysis identifies new childhood obesity loci. *Nat. Genet.* **44**, 526-531 (2012)

Brenner, D.R. et al.: Previous lung diseases and lung cancer risk: A pooled analysis from the International Lung Cancer Consortium. *Am. J. Epidemiol.* **176**, 573-585 (2012)

Casas, L. et al.: Association of gas cooking with children's respiratory health: Results from GINplus and LISApplus birth cohort studies. *Indoor Air* **22**, 476-482 (2012)

Chajès, V. et al.: Ecological-level associations between highly processed food intakes and plasma phospholipid elaidic acid concentrations: Results from a cross-sectional study within the European Prospective Investigation into Cancer and Nutrition (EPIC). *Nutr. Cancer* **63**, 1235-1250 (2011)

Chen, C.-M. et al.: Geographical variation and the determinants of domestic endotoxin levels in mattress dust in Europe. *Indoor Air* **22**, 24-32 (2012)

Coté, M.L. et al.: Increased risk of lung cancer in individuals with a family history of the disease: A pooled analysis from the International Lung Cancer Consortium. *Eur. J. Cancer* **48**, 1957-1968 (2012)

Eeftens, M. et al.: Development of land use regression models for $PM_{2.5}$, $PM_{2.5}$ absorbance, PM_{10} and PM_{coarse} in 20 European study areas: Results of the ESCAPE project. *Environ. Sci. Technol.* **46**, 11195-11205 (2012)

Eichholzer, M. et al.: Effects of selenium status, dietary glucosinolate intake and serum glutathione S-transferase α activity on the risk of benign prostatic hyperplasia. *BJU Int.* **110**, 879-885 (2012)

Fahey, M.T. et al.: Identifying dietary patterns using a normal mixture model: Application to the EPIC study. *J. Epidemiol. Community Health* **66**, 89-94 (2012)

Fehring, G. et al.: Comparison of pathway analysis approaches using lung cancer GWAS data sets. *PLoS One* **7**:e31816 (2012)

Institute of Epidemiology I

- Flexeder, C. et al.: Growth velocity during infancy and onset of asthma in school-aged children. *Allergy* **67**, 257-264 (2012)
- Flohrs, K. et al.: Temporal changes in total serum immunoglobulin E levels in East German children and the effect of potential predictors. *Int. Arch. Allergy Immunol.* **158**, 27-34 (2012)
- Ghosh, D.*, Rzehak, P., Elliott, M.W.* & Windisch, W.*: Validation of the English severe respiratory insufficiency questionnaire. *Eur. Respir. J.* **40**, 408-415 (2012)
- Gläser, S. et al.: Airflow limitation, lung volumes and systemic inflammation in a general population. *Eur. Respir. J.* **39**, 29-37 (2012)
- Gorzelnjak, L. et al.: Comparison of recording positions of physical activity in patients with severe COPD undergoing LTOT. *COPD-J. Chronic Obstr. Pulm. Dis.* **9**, 528-537 (2012)
- Hancock, D.B. et al.: Genome-wide joint meta-analysis of SNP and SNP-by-smoking interaction identifies novel loci for pulmonary function. *PLoS Genet.* **8**:e1003098 (2013) [published online 2012]
- Hauner, H. et al.: Evidence-based guideline of the German Nutrition Society: Carbohydrate intake and prevention of nutrition-related diseases. *Ann. Nutr. Metab.* **60**, 1-58 (2012)
- Hauner, H. et al.: Kohlenhydratzufuhr und Prävention ausgewählter ernährungsmitbedingter Krankheiten: Evidenzbasierte Leitlinie der Deutschen Gesellschaft für Ernährung e. V. *Dtsch. Med. Wochenschr.* **137**, 389-393 (2012)
- Haverinen-Shaughnessy, U. et al.: Occurrence of moisture problems in schools in three countries from different climatic regions of Europe based on questionnaires and building inspections - the HITEA study. *Indoor Air* **22**, 457-466 (2012)
- Heinrich, J. et al.: Die zwei deutschen Geburtskohorten GINIplus and LISAPlus. *Bundesgesundheitsblatt-Gesund.* **55**, 864-874 (2012)
- Heinrich, J. & Wölke, G.: Erfurter Männer-Kohorten-Studie (ERFORT-Studie): Studiendesign und ausgewählte Ergebnisse. *Bundesgesundheitsblatt-Gesund.* **55**, 801-808 (2012)
- Heinrich, J. et al.: GINIplus und LISAPlus. Design und ausgewählte Ergebnisse zweier deutscher Geburtskohorten zum natürlichen Verlauf atopischer Erkrankungen sowie deren Determinanten. *Allergologie* **35**, 20-31 (2012)
- Heinrich-Weltzien, R.*, Monse, B.*, Benzan, H.*, Heinrich, J. & Kromeyer-Hauschild, K.*: Association of dental caries and weight status in 6- to 7-year-old Filipino children. *Clin. Oral Investig.* **17**, 1515-1523 (2013) [published online 2012]
- Heitmüller, D. et al.: Is there a positive relationship between molar incisor hypomineralisations and the presence of dental caries? *Int. J. Paediatr. Dent.* **23**, 116-124 (2013) [published online 2012]
- Hobbs, A.*, Starkbaum, J.*, Gottweis, U.*, Wichmann, H.-E. & Gottweis, H.*: The privacy-reciprocity connection in biobanking: Comparing German with UK strategies. *Public Health Genomics* **15**, 272-284 (2012)

Institute of Epidemiology I

Hoek, G. et al.: PM10 and children's respiratory symptoms and lung function in the PATY study. *Eur. Respir. J.* **40**, 538-547 (2012)

Hohmann, C. et al.: Health effects of chronic noise exposure in pregnancy and childhood: A systematic review initiated by ENRIECO. *Int. J. Hyg. Environ. Health.* **216**, 217-229 (2013) [published online 2012]

Ikram, M.A. et al.: Common variants at 6q22 and 17q21 are associated with intracranial volume. *Nat. Genet.* **44**, 539-544 (2012)

Jarick, I. et al.: Genome-wide analysis of rare copy number variations reveals *PARK2* as a candidate gene for attention-deficit/hyperactivity disorder. *Mol. Psychiatr.*, DOI:10.1038/mp.2012.161 (2012)

Jourdan, C. et al.: Body fat free mass is associated with the serum metabolite profile in a population-based study. *PLoS One* **7**:e40009 (2012)

Karrasch, S. et al.: Spirometric reference values for advanced age from a South German population. *Respiration* **85**, 210-219 (2013) [published online 2012]

Kedenko, L. et al.: Genetic polymorphisms of the main transcription factors for adiponectin gene promoter in regulation of adiponectin levels: Association analysis in three European cohorts. *PLoS One* **7**:e52497 (2012)

Kohlboeck, G. et al.: Food intake, diet quality and behavioral problems in children: Results from the GINI-plus/LISA-plus studies. *Ann. Nutr. Metab.* **60**, 247-256 (2012)

Kohlboeck, G. et al.: Is there a relationship between hyperactivity/inattention symptoms and poor oral health? Results from the GINIplus and LISApplus study. *Clin. Oral Investig.* **17**, 1329-1338 (2013) [published online 2012]

Koletzko, S. et al.: No reason to change the current guidelines on allergy prevention. *J. Allergy Clin. Immunol.* **129**:262 (2012)

Koumakis, E. et al.: TGF β receptor gene variants in systemic sclerosis-related pulmonary arterial hypertension: Results from a multicentre EUSTAR study of European Caucasian patients. *Ann. Rheum. Dis.* **71**, 1900-1903 (2012)

Kühnisch, J. et al.: Proportion and extent of manifestation of molar-incisor-hypomineralizations according to different phenotypes. *J. Public Health Dent.*, DOI:10.1111/j.1752-7325.2012.00365.x (2012)

Leynaert, B. et al.: Gender differences in prevalence, diagnosis and incidence of allergic and non-allergic asthma: A population-based cohort. *Thorax* **67**, 625-631 (2012)

Li, K.R.*, Kaaks, R.*, Linseisen, J. & Rohrmann, S.*: Associations of dietary calcium intake and calcium supplementation with myocardial infarction and stroke risk and overall cardiovascular mortality in the Heidelberg cohort of the European Prospective Investigation into Cancer and Nutrition study (EPIC-Heidelberg). *Heart* **98**, 920-925 (2012)

Institute of Epidemiology I

Li, K.R.* , Kaaks, R.* , Linseisen, J. & Rohrmann, S.*: Vitamin/mineral supplementation and cancer, cardiovascular, and all-cause mortality in a German prospective cohort (EPIC-Heidelberg). *Eur. J. Nutr.* **51**, 407-413 (2012)

Lucas, G. et al.: Post-genomic update on a classical candidate gene for coronary artery disease: *ESR1*. *Circ.-Cardiovasc. Genet.* **4**, 647-654 (2011)

Lødrup Carlsen, K.C. et al.: Does pet ownership in infancy lead to asthma or allergy at school age? Pooled analysis of individual participant data from 11 European birth cohorts. *PLoS One* **7**:e43214 (2012)

Ma, J.Z. et al.: Natural and orthogonal interaction framework for modeling gene-environment interactions with application to lung cancer. *Hum. Hered.* **73**, 185-194 (2012)

MacIntyre, E.A. & Heinrich, J.: Otitis media in infancy and the development of asthma and atopic disease. *Curr. Allergy Asthma Rep.* **12**, 547-550 (2012)

Méplan, C. et al.: Polymorphisms in thioredoxin reductase and selenoprotein k genes and selenium status modulate risk of prostate cancer. *PLoS One* **7**:e48709 (2012)

Mertens, J. et al.: Is prevention of atopic eczema with hydrolyzed formulas cost-effective? A health economic evaluation from Germany. *Pediatr. Allergy Immunol.* **23**, 597-604 (2012)

Neuman, A. et al.: Maternal smoking in pregnancy and asthma in preschool children: A pooled analysis of eight birth cohorts. *Am. J. Respir. Crit. Care Med.* **186**, 1037-1043 (2012)

Olivieri, M. et al.: Risk factors for new-onset cat sensitization among adults: A population-based international cohort study. *J. Allergy Clin. Immunol.* **129**, 420-425 (2012)

Olsson, A. et al.: The impact of selection bias due to increasing response rates among population controls in occupational case-control studies response. *Am. J. Respir. Crit. Care Med.* **185**, 106-107 (2012)

Pattaro, C. et al.: Genome-wide association and functional follow-up reveals new loci for kidney function. *PLoS Genet.* **8**:e1002584 (2012)

Pesch, B. et al.: Cigarette smoking and lung cancer - relative risk estimates for the major histological types from a pooled analysis of case-control studies. *Int. J. Cancer* **131**, 1210-1219 (2012)

Peters, S. et al.: Occupational exposure to organic dust increases lung cancer risk in the general population. *Thorax* **67**, 111-116 (2012)

Rapsomaniki, E.* , White, I.R.* , Wood, A.M.* , Thompson, S.G.* & Emerging Risk Factors Collaboration: A framework for quantifying net benefits of alternative prognostic models. *Stat. Med.* **31**, 114-130 (2012)

Rohrmann, S. et al.: The association of education with long-term weight change in the EPIC-PANACEA cohort. *Eur. J. Clin. Nutr.* **66**, 957-963 (2012)

Institute of Epidemiology I

Rosenberger, A. et al.: Asthma and lung cancer risk: A systematic investigation by the International Lung Cancer Consortium. *Carcinogenesis* **33**, 587-597 (2012)

Schulz, H., Eder, G., Bolle, I., Tsuda, A.* & Karrasch, S.: Micron-sized intrapulmonary particle deposition in the developing rat lung. *J. Appl. Physiol.* **112**, 759-765 (2012)

Smit, L.A. et al.: Transient receptor potential genes, smoking, occupational exposures and cough in adults. *Respir. Res.* **13**:26 (2012)

Standl, M. et al.: *FADS1 FADS2* gene cluster, PUFA intake and blood lipids in children: Results from the GINIplus and LISApplus studies. *PLoS One* **7**:e37780 (2012)

Standl, M. et al.: *FADS* gene cluster modulates the effect of breastfeeding on asthma. Results from the GINIplus and LISApplus studies. *Allergy* **67**, 83-90 (2012)

Sun, X.*, Nair, J.*, Linseisen, J., Owen, R.W.* & Bartsch, H.*: Lipid peroxidation and DNA adduct formation in lymphocytes of premenopausal women: Role of estrogen metabolites and fatty acid intake. *Int. J. Cancer* **131**, 1983-1990 (2012)

Taal, H.R. et al.: Common variants at 12q15 and 12q24 are associated with infant head circumference. *Nat. Genet.* **44**, 532-538 (2012)

Thiering, E. et al.: Peak growth velocity in infancy is positively associated with blood pressure in school-aged children. *J. Hypertens.* **30**, 1114-1121 (2012)

Timofeeva, M.N. et al.: Influence of common genetic variation on lung cancer risk: Meta-analysis of 14900 cases and 29485 controls. *Hum. Mol. Genet.* **21**, 4980-4995 (2012)

van der Harst, P. et al.: Seventy-five genetic loci influencing the human red blood cell. *Nature* **492**, 369-375 (2012)

van Hemelrijck, M. et al.: Heterocyclic Aromatic Amine [HCA] intake and prostate cancer risk: Effect modification by genetic variants *Nutr. Cancer* **64**, 704-713 (2012)

von Berg, A. et al.: Die German Infant Nutritional Intervention study (GINI) zur präventiven Wirkung von Hydrolysatnahrungen bei Kindern mit Allergierisiko. Design und ausgewählte Ergebnisse. *Allergologie* **35**, 32-43 (2012)

von Kries, R. et al.: Different age-specific incidence and remission rates in pre-school and primary school suggest need for targeted obesity prevention in childhood. *Int. J. Obes.* **36**, 505-510 (2012)

Vrijheid, M. et al.: European birth cohorts for environmental health research. *Environ. Health Perspect.* **120**, 29-37 (2012)

Wichmann, H.-E. et al.: Die nationale Kohorte. *Bundesgesundheitsblatt-Gesund.* **55**, 781-787 (2012)

Wu, X. et al.: A genome-wide association study identifies a novel susceptibility locus for renal cell carcinoma on 12p11.23. *Hum. Mol. Genet.* **21**, 456-462 (2012)

Publication List 2012

31.12.2012

* external Authors

Institute of Epidemiology I

Zaineddin, A.K. et al.: Serum enterolactone and postmenopausal breast cancer risk by estrogen, progesterone and herceptin 2 receptor status. *Int. J. Cancer* **130**, 1401-1410 (2012)

Zaineddin, A.K. et al.: The association between dietary lignans, phytoestrogen-rich foods, and fiber intake and postmenopausal breast cancer risk: A German case-control study. *Nutr. Cancer* **64**, 652-665 (2012)

Zaitlen, N. et al.: Informed conditioning on clinical covariates increases power in case-control association studies. *PLoS Genet.* **8**:e1003032 (2012)

Institute of Epidemiology II

Abbasi, A. et al.: External validation of the KORA S4/F4 prediction models for the risk of developing type 2 diabetes in older adults: The PREVEND study. *Eur. J. Epidemiol.* **27**, 47-52 (2012)

Altmaier, E. et al.: Metabolomic profiles in individuals with negative affectivity and social inhibition: A population-based study of Type D personality. *Psychoneuroendocrinology* **38**, 1299-1309 (2013) [published online 2012]

Autenrieth, C.S. et al.: Association between physical activity and risk of stroke subtypes: The atherosclerosis risk in communities study. *Neuroepidemiology* **40**, 109-116 (2013) [published online 2012]

Baumert, J. et al.: Variability of fibrinogen measurements in post-myocardial infarction patients: Results from the AIRGENE study center Augsburg. *Thromb. Haemost.* **107**, 895-902 (2012)

Bongaerts, B.W.C. et al.: Postchallenge hyperglycemia is positively associated with diabetic polyneuropathy: The KORA F4 study. *Diabetes Care* **35**, 1891-1893 (2012)

Boraska, V. et al.: Genome-wide association study to identify common variants associated with brachial circumference: A meta-analysis of 14 cohorts. *PLoS One* **7**:e31369 (2012)

Cho, E.Y. et al.: Determinants and trajectory of phobic anxiety in patients living with an implantable cardioverter defibrillator. *Heart* **98**, 806-812 (2012)

Cho, Y.S. et al.: Meta-analysis of genome-wide association studies identifies eight new loci for type 2 diabetes in east Asians. *Nat. Genet.* **44**, 67-72 (2012)

Clarke, R. et al.: Homocysteine and coronary heart disease: Meta-analysis of *MTHFR* case-control studies, avoiding publication bias. *PLoS Med.* **9**:e1001177 (2012)

Cyrus, J. et al.: Variation of NO₂ and NO_x concentrations between and within 36 European study areas: Results from the ESCAPE study. *Atmos. Environ.* **62**, 374-390 (2012)

Dias, A. et al.: Assessing physical activity in the daily life of cystic fibrosis patients. *Pervasive Mob. Comput.* **8**, 837-844 (2012)

Eeftens, M. et al.: Spatial variation of PM_{2.5}, PM₁₀, PM_{2.5} absorbance and PM_{coarse} concentrations between and within 20 European study areas and the relationship with NO₂ - results of the ESCAPE project. *Atmos. Environ.* **62**, 303-317 (2012)

Emeny, R. et al.: Job strain associated CRP is mediated by leisure time physical activity: Results from the MONICA/KORA study. *Brain Behav. Immun.* **26**, 1077-1084 (2012)

Fichtner, S. et al.: Prospective assessment of short- and long-term quality of life after ablation for atrial fibrillation. *J. Cardiovasc. Electrophysiol.* **23**, 121-127 (2012)

Franceschini, N. et al.: Discovery and fine mapping of serum protein loci through transethnic meta-analysis. *Am. J. Hum. Genet.* **91**, 744-753 (2012)

Institute of Epidemiology II

Goek, O.N. et al.: Serum metabolite concentrations and decreased GFR in the general population. *Am. J. Kidney Dis.* **60**, 197-206 (2012)

Gu, J. et al.: Selection of key ambient particulate variables for epidemiological studies - applying cluster and heatmap analyses as tools for data reduction. *Sci. Total Environ.* **435-436**, 541-550 (2012)

Häfner, S. et al.: Sleep disturbances and depressed mood: A harmful combination associated with increased leptin levels in women with normal weight. *Biol. Psychol.* **89**, 163-169 (2012)

Häfner, S. et al.: To live alone and to be depressed, an alarming combination for the renin-angiotensin-aldosterone-system (RAAS). *Psychoneuroendocrinology* **37**, 230-237 (2012)

Hampel, R. et al.: Acute air pollution effects on heart rate variability are modified by SNPs involved in cardiac rhythm in individuals with diabetes or impaired glucose tolerance. *Environ. Res.* **112**, 177-185 (2012)

Hampel, R. et al.: Immediate ozone effects on heart rate and repolarisation parameters in potentially susceptible individuals. *Occup. Environ. Med.* **69**, 428-436 (2012)

Hannemann, A. et al.: Screening for primary aldosteronism in hypertensive subjects: Results from two German epidemiological studies. *Eur. J. Endocrinol.* **167**, 7-15 (2012)

Herder, C. et al.: TGF- β 1 content in atherosclerotic plaques, TGF- β 1 serum concentrations and incident coronary events. *Eur. J. Clin. Invest.* **42**, 329-337 (2012)

Huang, J. et al.: Genome-wide association study for circulating levels of PAI-1 provides novel insights into its regulation. *Blood* **120**, 4873-4881 (2012)

Huttunen, K. et al.: Low-level exposure to ambient particulate matter is associated with systemic inflammation in ischemic heart disease patients. *Environ. Res.* **116**, 44-51 (2012)

Imamura, M. et al.: A single-nucleotide polymorphism in *ANK1* is associated with susceptibility to type 2 diabetes in Japanese populations. *Hum. Mol. Genet.* **21**, 3042-3049 (2012)

Karakas, M. et al.: A variant in the *abo* gene explains the variation in soluble e-selectin levels - results from dense genotyping in two independent populations. *PLoS One* **7**:e51441 (2012)

Kirchberger, I., Finger, T.* & Müller-Bühl, U.*: A German version of the Intermittent Claudication Questionnaire (ICQ): Cultural adaptation and validation. *Vasa* **41**, 333-342 (2012)

Kirchberger, I. et al.: Patterns of multimorbidity in the aged population. Results from the KORA-Age study. *PLoS One* **7**:e30556 (2012)

Kirchberger, I., Heier, M., Kuch, B.*, von Scheidt, W.* & Meisinger, C.: Presenting symptoms of myocardial infarction predict short- and long-term mortality: The MONICA/KORA myocardial infarction registry. *Am. Heart J.* **164**, 856-861 (2012)

Institute of Epidemiology II

Kirchberger, I., Heier, M., Wende, R.* & Meisinger, C.: The patient's interpretation of myocardial infarction symptoms and its role in the decision process to seek treatment: The MONICA/KORA myocardial infarction registry. *Clin. Res. Cardiol.* **101**, 909-916 (2012)

Ladwig, K.-H., Kunrath, S., Lukaschek, K. & Baumert, J.: The railway suicide death of a famous German football player: Impact on the subsequent frequency of railway suicide acts in Germany. *J. Affect. Disord.* **136**, 194-198 (2012)

Leitte, A.M. et al.: Associations between size-segregated particle number concentrations and respiratory mortality in Beijing, China. *Int. J. Environ. Health Res.* **22**, 119-133 (2012)

Lukaschek, K. et al.: Lifetime traumatic experiences and their impact on PTSD: A general population study. *Soc. Psychiatry Psychiatr. Epidemiol.* **48**, 525-532 (2013) [published online 2012]

Lukaschek, K., Erazo, N.*, Baumert, J. & Ladwig, K.-H.: Suicide mortality in comparison to traffic accidents and homicides as causes of unnatural death. An analysis of 14,441 cases in Germany in the year 2010. *Int. J. Environ. Res. Public Health* **9**, 924-931 (2012)

Marquez, M. et al.: Low-frequency variants in *HMGA1* are not associated with type 2 diabetes risk. *Diabetes* **61**, 524-530 (2012)

Meisinger, C. et al.: Geographic variations in the frequency of thyroid disorders and thyroid peroxidase antibodies in persons without former thyroid disease within Germany. *Eur. J. Endocrinol.* **167**, 363-371 (2012)

Meisinger, C. et al.: Uric acid is more strongly associated with impaired glucose regulation in women than in men from the general population: The KORA F4-study. *PLoS One* **7**:e37180 (2012)

Mercader, J.M. et al.: Identification of novel type 2 diabetes candidate genes involved in the crosstalk between the mitochondrial and the insulin signaling systems. *PLoS Genet.* **8**:e1003046 (2012)

Mühleisen, T.W. et al.: Association between schizophrenia and common variation in neurocan (*NCAM*), a genetic risk factor for bipolar disorder. *Schizophr. Res.* **138**, 69-73 (2012)

Murabito, J.M. et al.: Association between chromosome 9p21 variants and the ankle-brachial index identified by a meta-analysis of 21 genome-wide association studies. *Circ.-Cardiovasc. Genet.* **5**, 100-112 (2012)

Orozco, G.*, Ioannidis, J.P.*, Morris, A.*, Zeggini, E.* & DIAGRAM Consortium: Sex-specific differences in effect size estimates at established complex trait loci. *Int. J. Epidemiol.* **41**, 1376-1382 (2012)

Palmer, N.D. et al.: A genome-wide association search for type 2 diabetes genes in African Americans. *PLoS One* **7**:e29202 (2012)

Peters, A., Hoek, G.* & Katsouyanni, K.*: Understanding the link between environmental exposures and health: Does the exposome promise too much? *J. Epidemiol. Community Health* **66**, 103-105 (2012)

Institute of Epidemiology II

Rathmann, W. et al.: Hemoglobin A1c and glucose criteria identify different subjects as having type 2 diabetes in middle-aged and older populations: The KORA S4/F4 study. *Ann. Med.* **44**, 170-177 (2012)

Reincke, M. et al.: Observational study mortality in treated primary aldosteronism: The German Conn's registry. *Hypertension* **60**, 618-624 (2012)

Rückert, I.-M. et al.: Blood pressure and lipid management fall far short in persons with type 2 diabetes: Results from the DIAB-CORE consortium including six German population-based studies. *Cardiovasc. Diabetol.* **11**:50 (2012)

Rückert, I.-M. et al.: Personal attributes that influence the adequate management of hypertension and dyslipidemia in patients with type 2 diabetes. Results from the DIAB-CORE cooperation. *Cardiovasc. Diabetol.* **11**:120 (2012)

Saxena, R. et al.: Large-scale gene-centric meta-analysis across 39 studies identifies type 2 diabetes loci. *Am. J. Hum. Genet.* **90**, 410-425 (2012)

Schäuble, C.L. et al.: Short-term effects of air temperature on blood markers of coagulation and inflammation in potentially susceptible individuals. *Occup. Environ. Med.* **69**, 670-678 (2012)

Schulze, M.B. et al.: Body adiposity index, body fat content and incidence of type 2 diabetes. *Diabetologia* **55**, 1660-1667 (2012)

Sinner, M.F. et al.: A meta-analysis of genome-wide association studies of the electrocardiographic early repolarization pattern. *Heart Rhythm* **9**, 1627-1634 (2012)

Stahl, E.A. et al.: Bayesian inference analyses of the polygenic architecture of rheumatoid arthritis. *Nat. Genet.* **44**, 483-489 (2012)

Stöckl, D. et al.: Age at menarche is associated with prediabetes and diabetes in women (aged 32-81 years) from the general population: The KORA F4 study. *Diabetologia* **55**, 681-688 (2012)

Stöckl, D. et al.: Reproductive factors and serum uric acid levels in females from the general population: The KORA F4 study. *PLoS One* **7**:e32668 (2012)

Stöckl, H. et al.: Intimate partner violence and its association with pregnancy loss and pregnancy planning. *Acta Obstet. Gynecol. Scand.* **91**, 128-133 (2012)

The Emerging Risk Factors Collaboration: Adult height and the risk of cause-specific death and vascular morbidity in 1 million people: Individual participant meta-analysis. *Int. J. Epidemiol.* **41**, 1419-1433 (2012)

The International Stroke Genetics Consortium (ISGC)* & the Wellcome Trust Case Control Consortium 2 (WTCCC2)*: Genome-wide association study identifies a variant in HDAC9 associated with large vessel ischemic stroke. *Nat. Genet.* **44**, 328-333 (2012)

Institute of Epidemiology II

Thyssen, J.P. et al.: Skin barrier abnormality caused by filaggrin (*FLG*) mutations is associated with increased serum 25-hydroxyvitamin D concentrations. *J. Allergy Clin. Immunol.* **130**, 1204-1207 (2012)

Verhoeven, V.J.M. et al.: Large scale international replication and meta-analysis study confirms association of the 15q14 locus with myopia. The CREAM consortium. *Hum. Genet.* **131**, 1467-1480 (2012)

von Klot, S., Zanobetti, A.* & Schwartz, J.*: Influenza epidemics, seasonality, and the effects of cold weather on cardiac mortality. *Environ. Health* **11**:74 (2012)

Voss, A.* , Heitmann, A.* , Schroeder, R.* , Peters, A. & Perz, S.: Short-term heart rate variability - age dependence in healthy subjects. *Physiol. Meas.* **33**, 1289-1311 (2012)

Wassel, C.L. et al.: Genetic determinants of the ankle-brachial index: A meta-analysis of a cardiovascular candidate gene 50K SNP panel in the Candidate gene Association Resource (CARE) consortium. **222**, 138-147 (2012)

Yang, J. et al.: *FTO* genotype is associated with phenotypic variability of body mass index. *Nature* **490**, 267-272 (2012)

Ziegler, D. et al.: Evaluation of the Neuropad sudomotor function test as a screening tool for polyneuropathy in the elderly population with diabetes and pre-diabetes: The KORA F4 survey. *Diabetes-Metab. Res. Rev.* **28**, 692-697 (2012)

Institute of Experimental Genetics

- Adamski, J.: Genome-wide association studies with metabolomics. *Genome Med.* **4**:34 (2012)
- Adamski, J. & Suhre, K.: Metabolomics platforms for genome wide association studies – linking the genome to the metabolom. *Curr. Opin. Biotechnol.* **24**, 39-47 (2013) [published online 2012]
- Ayadi, A. et al.: Mouse large-scale phenotyping initiatives: Overview of the European Mouse Disease Clinic (EUMODIC) and of the Wellcome Trust Sanger Institute mouse genetics project. *Mamm. Genome* **23**, 600-610 (2012)
- Dahlhoff, M.*, Rose, C.*, Hrabé de Angelis, M., Wolf, E.* & Schneider, M.R.*: Negative feedback mechanisms surpass the effect of intrinsic EGFR activation during skin chemical carcinogenesis. *Am. J. Pathol.* **180**, 1378-1385 (2012)
- Deo, M.*, Huang, J. L.-Y.*, Fuchs, H., Hrabé de Angelis, M. & Van Raamsdonk, C. D.*: Differential effects of neurofibromin gene dosage on melanocyte development. *J. Invest. Dermatol.* **133**, 49-58 (2013) [published online 2012]
- Donahue, L. R. et al.: Centralized mouse repositories. *Mamm. Genome* **23**, 559-571 (2012)
- Eißmann, M. et al.: Overexpression of the anti-apoptotic protein AVEN contributes to increased malignancy in hematopoietic neoplasms. *Oncogene* **32**, 2586–2591 (2013) [published online 2012]
- Ferrannini, E. et al.: Early metabolic markers of the development of dysglycemia and type 2 diabetes and their physiological significance. *Diabetes* **62**, 1730-1737 (2013) [published online 2012]
- Fuchs, H. et al.: Does enamel have pleiotropic effects on organs other than the teeth? Lessons from a phenotyping screen of two enamel-mutant mouse lines. *Eur. J. Oral Sci.* **120**, 269-277 (2012)
- Fuchs, H. et al.: Innovations in phenotyping of mouse models in the German Mouse Clinic. *Mamm. Genome* **23**, 611-622 (2012)
- Galli, G.G. et al.: Prdm5 regulates collagen gene transcription by association with RNA polymerase II in developing bone. *PLoS Genet.* **8**:e1002711 (2012)
- Gonçalves, I. et al.: Evidence supporting a key role of Lp-PLA2-generated lysophosphatidylcholine in human atherosclerotic plaque inflammation. *Arterioscler. Thromb. Vasc. Biol.* **32**, 1505-1512 (2012)
- Guan, M.*, Marschall, S., Raspa, M.*, Pickard, A.R.* & Fray, M.D.*: Overview of new developments in and the future of cryopreservation in the laboratory mouse. *Mamm. Genome* **23**, 572-579 (2012)
- Hochrath, K. et al.: The hepatic phosphatidylcholine transporter ABCB4 as modulator of glucose homeostasis. *Faseb J.* **26**, 5081-5091 (2012)
- Horakova, O. et al.: Preservation of metabolic flexibility in skeletal muscle by a combined use of n-3 PUFA and rosiglitazone in dietary obese mice. *PLoS One* **7**:e43764 (2012)

Institute of Experimental Genetics

Hüttemann, M. et al.: Cytochrome c oxidase subunit 4 isoform 2-knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. *Faseb J.* **26**, 2916-2930 (2012)

Irmeler, M. et al.: Long-term proteasomal inhibition in transgenic mice by UBB⁺¹ expression results in dysfunction of central respiration control reminiscent of brainstem neuropathology in Alzheimer patients. *Acta Neuropathol.* **124**, 187-197 (2012)

Klymiuk, I. et al.: *In vivo* functional requirement of the mouse *lfitm1* gene for germ cell development, interferon mediated immune response and somitogenesis. *PLoS One* **7**:e44609 (2012)

Kollmus, H. et al.: Structural and functional concepts in current mouse phenotyping and archiving facilities. *J. Amer. Assoc. Lab. Anim. Sci.* **51**, 418-435 (2012)

Kumar, S. et al.: Gsdma3^{I359N} is a novel ENU-induced mutant mouse line for studying the function of Gasdermin A3 in the hair follicle and epidermis. *J. Dermatol. Sci.* **67**, 190-192 (2012)

Lee, A.W. et al.: Functional inactivation of the genome-wide association study obesity gene neuronal growth regulator 1 in mice causes a body mass phenotype. *PLoS One* **7**:e41537 (2012)

Meyer, D. et al.: Expression of Tas1 taste receptors in mammalian spermatozoa: Functional role of Tas1r1 in regulating basal Ca²⁺ and cAMP concentrations in spermatozoa. *PLoS One* **7**:e32354 (2012)

Olszewski, P.K. et al.: Neurobeachin, a regulator of synaptic protein targeting, is associated with body fat mass and feeding behavior in mice and body-mass index in humans. *PLoS Genet.* **8**:e1002568 (2012)

Ordoñez-Rueda, D. et al.: A hypomorphic mutation in the Gfi1 transcriptional repressor results in a novel form of neutropenia. *Eur. J. Immunol.* **42**, 2395-2408 (2012)

Pabel, J. et al.: Development of an (S)-1-2-[Tris(4-methoxyphenyl)methoxy]ethylpiperidine-3-carboxylic acid [(S)-SNAP-5114] carba analogue inhibitor for murine γ -aminobutyric acid transporter type 4. *ChemMedChem* **7**, 1245-1255 (2012)

Peter, C. et al.: Release of lysophospholipid 'find-me' signals during apoptosis requires the ATP-binding cassette transporter A1. *Autoimmunity* **45**, 568-573 (2012)

Pozzi, B. et al.: The endocytic adaptor Eps15 controls marginal zone B cell numbers. *PLoS One* **7**:e50818 (2012)

Radermacher, K. A. et al.: Neuroprotection after stroke by targeting NOX4 as a source of oxidative stress. *Antioxid. Redox Signal.* **18**, 1418-1427 (2013) [published online 2012]

Sabrautski, S. et al.: New mouse models for metabolic bone diseases generated by genome-wide ENU mutagenesis. *Mamm. Genome* **23**, 416-430 (2012)

Schriever, S.C.* , Deutsch M.J.* , Adamski J., Roscher A.A.* & Ensenauer R.*: Cellular signaling of amino acids towards mTORC1 activation in impaired human leucine catabolism. *J. Nutr. Biochem.* **24**, 824-831 (2013) [published online 2012]

Institute of Experimental Genetics

Seissler, J. et al.: Vasoregulatory peptides pro-endothelin-1 and pro-adrenomedullin are associated with metabolic syndrome in the population-based KORA F4 study. *Eur. J. Endocrinol.* **167**, 847-853 (2012)

Spyroglou, A. et al.: Gender-, strain- and inheritance-dependent variation in aldosterone secretion in mice. *J. Endocrinol.* **215**, 375-381 (2012)

Staropoli, J.F. et al.: Large-scale phenotyping of an accurate genetic mouse model of JNCL identifies novel early pathology outside the central nervous system. *PLoS One* **7**:e38310 (2012)

Stein, C. et al.: Clinical chemistry of human FcRn transgenic mice. *Mamm. Genome* **23**, 259-269 (2012)

Thiele, F. et al.: Cardiopulmonary dysfunction in the osteogenesis imperfecta mouse model *Aga2* and human patients are caused by bone-independent mechanisms. *Hum. Mol. Genet.* **21**, 3535-3545 (2012)

Tiedemann, H.B. et al.: From dynamic expression patterns to boundary formation in the presomitic mesoderm. *PLoS Comput. Biol.* **8**:e1002586 (2012)

Tokarz, J. et al.: Discovery of a novel enzyme mediating glucocorticoid catabolism in fish: 20beta-hydroxysteroid dehydrogenase type 2. *Mol. Cell. Endocrinol.* **349**, 202-213 (2012)

van Buerck, L. et al.: Enhanced oxidative stress and endocrine pancreas alterations are linked to a novel glucokinase missense mutation in ENU-derived Munich *Gck*^{D217V} mutants. *Mol. Cell. Endocrinol.* **362**, 139-148 (2012)

Vouk, K. et al.: Discovery of phosphatidylcholines and sphingomyelins as biomarkers for ovarian endometriosis. *Hum. Reprod.* **27**, 2955-2965 (2012)

Yi, C.-X. et al.: Exercise protects against high-fat diet-induced hypothalamic inflammation. *Physiol. Behav.* **106**, 485-490 (2012)

Yi, C.-X., Tschöp, M.H., Woods, S.C.* & Hofmann, S.M.: High-fat-diet exposure induces IgG accumulation in hypothalamic microglia. *Dis. Model. Mech.* **5**, 686-690 (2012)

Institute of Genetic Epidemiology

Amin, A.S. et al.: Variants in the 3' untranslated region of the *KCNQ1*-encoded K_v7.1 potassium channel modify disease severity in patients with type 1 long QT syndrome in an allele-specific manner. *Eur. Heart J.* **33**, 714-723 (2012)

Amin, N. et al.: Genome-wide association analysis of coffee drinking suggests association with *CYP1A1/CYP1A2* and *NRCAM*. *Mol. Psychiatry* **17**, 1116-1129 (2012)

Becker, A. et al.: Implementation of a guideline for low back pain management in primary care: A cost-effectiveness analysis. *Spine* **37**, 701-710 (2012)

Boraska, V. et al.: Genome-wide meta-analysis of common variant differences between men and women. *Hum. Mol. Genet.* **21**, 4805-4815 (2012)

Chasman, D.I. et al.: Integration of genome-wide association studies with biological knowledge identifies six novel genes related to kidney function. *Hum. Mol. Genet.* **21**, 5329-5343 (2012)

Coviello, A.D. et al.: A genome-wide association meta-analysis of circulating sex hormone-binding globulin reveals multiple loci implicated in sex steroid hormone regulation. *PLoS Genet.* **8**:e1002805 (2012)

Ellinghaus, D. et al.: Combined analysis of genome-wide association studies for Crohn disease and psoriasis identifies seven shared susceptibility loci. *Am. J. Hum. Genet.* **90**, 636-647 (2012)

Ellinghaus, E. et al.: Genome-wide meta-analysis of psoriatic arthritis identifies susceptibility locus at *REL*. *J. Invest. Dermatol.* **132**, 1133-1140 (2012)

Fischer, A. et al.: A novel sarcoidosis risk locus for Europeans on chromosome 11q13.1. *Am. J. Respir. Crit. Care Med.* **186**, 877-885 (2012)

Folseraas, T. et al.: Extended analysis of a genome-wide association study in primary sclerosing cholangitis detects multiple novel risk loci. *J. Hepatol.* **57**, 366-375 (2012)

Granada, M. et al.: A genome-wide association study of plasma total IgE concentrations in the Framingham Heart Study. *J. Allergy Clin. Immunol.* **129**, 840-845 (2012)

Grassmann, F.* , Fritsche, L.G.* , Keilhauer, C.N.* , Heid, I.M. & Weber, B.H.F.*: Modelling the genetic risk in age-related macular degeneration. *PLoS One* **7**:e37979 (2012)

Hartz, S.M. et al.: Increased genetic vulnerability to smoking at *CHRNA5* in early-onset smokers. *Arch. Gen. Psychiatry* **69**, 854-860 (2012)

Johnson, T. et al.: Blood pressure loci identified with a gene-centric array. *Am. J. Hum. Genet.* **89**, 688-700 (2011)

Jostins, L. et al.: Host-microbe interactions have shaped the genetic architecture of inflammatory bowel disease. *Nature* **491**, 119-124 (2012)

Köttgen, A. et al.: Genome-wide association analyses identify 18 new loci associated with serum urate concentrations. *Nat. Genet.* **45**, 145-154 (2013) [published online 2012]

Institute of Genetic Epidemiology

Künzel, T.* & Strauch, K.: Parameter estimation and quantitative parametric linkage analysis with GENEHUNTER-QMOD. *Hum. Hered.* **73**, 208-219 (2012)

Lamina, C. et al.: Evaluation of gene-obesity interaction effects on cholesterol levels: A genetic predisposition score on HDL-cholesterol is modified by obesity. **225**, 363-369 (2012)

Manning, A.K. et al.: A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycaemic traits and insulin resistance. *Nat. Genet.* **44**, 659-669 (2012)

Oexle, K. et al.: Dilution of candidates: The case of iron-related genes in restless legs syndrome. *Eur. J. Hum. Genet.* **21**, 410-414 (2013) [published online 2012]

Okada, Y. et al.: Meta-analysis identifies multiple loci associated with kidney function-related traits in East Asian populations. *Nat. Genet.* **44**, 904-909 (2012)

Petersen, A.-K. et al.: Genetic associations with lipoprotein subfractions provide information on their biological nature. *Hum. Mol. Genet.* **21**, 1433-1443 (2012)

Petersen, A.-K. et al.: On the hypothesis-free testing of metabolite ratios in genome-wide and metabolome-wide association studies. *BMC Bioinformatics* **13**:120 (2012)

Quante, A.S., Whittemore, A.S.*, Shriver, T.*, Strauch, K. & Terry, M.B.*: Breast cancer risk assessment across the risk continuum: Genetic and nongenetic risk factors contributing to differential model performance. *Breast Cancer Res.* **14**:R144 (2012)

Rawal, R. et al.: Meta-analysis of two genome-wide association studies identifies four genetic loci associated with thyroid function. *Hum. Mol. Genet.* **21**, 3275-3282 (2012)

Ried, J.S. et al.: PSEA: Phenotype Set Enrichment Analysis - a new method for analysis of multiple phenotypes. *Genet. Epidemiol.* **36**, 244-252 (2012)

Rietschel, M. et al.: Association between genetic variation in a region on chromosome 11 and schizophrenia in large samples from Europe. *Mol. Psychiatr.* **17**, 906-917 (2012)

Scott, R.A. et al.: Large-scale association analyses identify new loci influencing glycaemic traits and provide insight into the underlying biological pathways. *Nat. Genet.* **44**, 991-1005 (2012)

Steffens, M. et al.: Genome-wide association analysis of genetic generalized epilepsies implicates susceptibility loci at 1q43, 2p16.1, 2q22.3 and 17q21.32. *Hum. Mol. Genet.* **21**, 5359-5372 (2012)

Stolk, L. et al.: Meta-analyses identify 13 loci associated with age at menopause and highlight DNA repair and immune pathways. *Nat. Genet.* **44**, 260-268 (2012)

Viniol, A. et al.: Study protocol: Transition from localized low back pain to chronic widespread pain in general practice: Identification of risk factors, preventive factors and key elements for treatment - a cohort study. *BMC Musculoskelet. Disord.* **13**:77 (2012)

Yang, J. et al.: Conditional and joint multiple-SNP analysis of GWAS summary statistics identifies additional variants influencing complex traits. *Nat. Genet.* **44**, 369-375 (2012)

Institute of Groundwater Ecology

Bosch, J., Lee, K.Y.* , Jordan, G.* , Kim, K.W.* & Meckenstock, R.U.: Anaerobic, nitrate-dependent oxidation of pyrite nanoparticles by *Thiobacillus denitrificans*. *Environ. Sci. Technol.* **46**, 2095-2101 (2012)

Bosch, J. & Meckenstock, R.U.: Rates and potential mechanism of anaerobic nitrate-dependent microbial pyrite oxidation. *Biochem. Soc. Trans.* **40**, 1280-1283 (2012)

Braunschweig, J., Bosch, J., Heister, K.* , Kübeck, C. & Meckenstock, R.U.: Reevaluation of colorimetric iron determination methods commonly used in geomicrobiology. *J. Microbiol. Methods* **89**, 41-48 (2012)

Diaw, M.* , Faye, S.* , Stichler, W. & Maloszewski, P.: Isotopic and geochemical characteristics of groundwater in the Senegal River delta aquifer: Implication of recharge and flow regime. *Environ. Earth Sci.* **66**, 1011-1020 (2012)

Diédhiou, M. et al.: Tracing groundwater nitrate sources in the Dakar suburban area: An isotopic multi-tracer approach. *Hydrol. Process.* **26**, 760-770 (2012)

Duhaime, M.B.* , Deng, L., Poulos, B.T.* & Sullivan, M.B.*: Towards quantitative metagenomics of wild viruses and other ultra-low concentration DNA samples: A rigorous assessment and optimization of the linker amplification method. *Environ. Microbiol.* **14**, 2526-2537 (2012)

Elsner, M. et al.: Current challenges in compound-specific stable isotope analysis of environmental organic contaminants. *Anal. Bioanal. Chem.* **403**, 2471-2491 (2012)

Fendrihan, S. et al.: Spherical particles of halophilic archaea correlate with exposure to low water activity - implications for microbial survival in fluid inclusions of ancient halite. *Geobiology* **10**, 424-433 (2012)

Graue, J.* , Kleindienst, S.* , Lüders, T., Cypionka, H.* & Engelen, B.*: Identifying fermenting bacteria in anoxic tidal-flat sediments by a combination of microcalorimetry and ribosome-based stable-isotope probing. *FEMS Microbiol. Ecol.* **81**, 78-87 (2012)

Hamonts, K. et al.: Temporal variations in natural attenuation of chlorinated aliphatic hydrocarbons in eutrophic river sediments impacted by a contaminated groundwater plume. *Water Res.* **46**, 1873-1888 (2012)

Kellermann, C. et al.: Microbial CO₂ fixation potential in a tar-oil-contaminated porous aquifer. *FEMS Microbiol. Ecol.* **81**, 172-187 (2012)

Klier, C.: Use of an uncertainty analysis for genome-scale models as a prediction tool for microbial growth processes in subsurface environments. *Environ. Sci. Technol.* **46**, 2790-2798 (2012)

Knappett, P.S. et al.: Implications of fecal bacteria input from latrine-polluted ponds for wells in sandy aquifers. *Environ. Sci. Technol.* **46**, 1361-1370 (2012)

Kniep, F. et al.: 5-Iodo-1,2,3-triazolium-based multidentate halogen-bond donors as activating reagents. *Chem. Commun.* **48**, 9299-9301 (2012)

Publication List 2012

31.12.2012

* external Authors

Institute of Groundwater Ecology

Kübeck, C., Hansen, C.*, König, C.*, Denzig, D.* & van Berk, W.*: Model-based quality management of groundwater resources - catchment area Liedern, Germany. *Water Sci. Technol.* **66**, 210-216 (2012)

Mouttaki, H., Johannes, J. & Meckenstock, R.U.: Identification of naphthalene carboxylase as a prototype for the anaerobic activation of non-substituted aromatic hydrocarbons. *Environ. Microbiol.* **14**, 2770-2774 (2012)

Pilloni, G., Granitsiotis, M.S., Engel, M. & Lüders, T.: Testing the limits of 454 pyrotag sequencing: Reproducibility, quantitative assessment and comparison to T-RFLP fingerprinting of aquifer microbes. *PLoS One* **7**:e40467 (2012)

Reinnicke, S., Simonsen, A.*, Sørensen, S.R.*, Aamand, J.* & Elsner, M.: C and N isotope fractionation during biodegradation of the pesticide metabolite 2,6-dichlorobenzamide (BAM): Potential for environmental assessments. *Environ. Sci. Technol.* **46**, 1447-1454 (2012)

Reinnicke, S. et al.: Gas chromatography/isotope ratio mass spectrometry of recalcitrant target compounds: Performance of different combustion reactors and strategies for standardization. *Rapid Commun. Mass Spectrom.* **26**, 1053-1060 (2012)

Scharroba, A. et al.: Effects of resource availability and quality on the structure of the micro-food web of an arable soil across depth. *Soil Biol. Biochem.* **50**, 1-11 (2012)

Stein, H. et al.: Stygoregions - a promising approach to a bioregional classification of groundwater systems. *Sci. Rep.* **2**:673 (2012)

Stumpp, C., Stichler, W., Kandolf, M.* & Simunek, J.*: Effects of land cover and fertilization method on water flow and solute transport in five lysimeters: A long-term study using stable water isotopes. *Vadose Zone J.* **11**, DOI:10.2136/vzj2011.0075 (2012)

Stumpp, C. & Hendry, M.J.*: Spatial and temporal dynamics of water flow and solute transport in a heterogeneous glacial till: The application of high-resolution profiles of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ in pore waters. *J. Hydrol.* **438-439**, 203-214 (2012)

Tosco, T.*, Bosch, J., Meckenstock, R.U. & Sethi, R.*: Transport of ferrihydrite nanoparticles in saturated porous media: Role of ionic strength and flow rate. *Environ. Sci. Technol.* **46**, 4008-4015 (2012)

Wunderlich, A., Meckenstock, R. & Einsiedl, F.*: Effect of different carbon substrates on nitrate stable isotope fractionation during microbial denitrification. *Environ. Sci. Technol.* **46**, 4861-4868 (2012)

Zhou, Y., Kellermann, C. & Griebler, C.: Spatio-temporal patterns of microbial communities in a hydrologically dynamic pristine aquifer. *FEMS Microbiol. Ecol.* **81**, 230-242 (2012)

Institute of Health Economics and Health Care Management

Batscheider, A. et al.: Exposure to second-hand smoke and direct healthcare costs in children - results from two German birth cohorts, GINIplus and LISAplus. *BMC Health Serv. Res.* **12**:344 (2012)

Fischer, K.E.: A systematic review of coverage decision-making on health technologies - evidence from the real world. *Health Policy* **107**, 218-230 (2012)

Fischer, K.E.: Decision-making in healthcare: A practical application of partial least square path modelling to coverage of newborn screening programmes. *BMC Med. Inform. Decis. Mak.* **12**:83 (2012)

Fuller, N.R. et al.: A within-trial cost-effectiveness analysis of primary care referral to a commercial provider for weight loss treatment, relative to standard care - an international randomised controlled trial. *Int. J. Obes.* **37**, 828-834 (2013) [published online 2012]

Genz, J. et al.: Blood glucose testing and primary prevention of type 2 diabetes - evaluation of the effect of evidence-based patient information: A randomized controlled trial. *Diabetic Med.* **29**, 1011-1020 (2012)

Gruber, E.V., Stock, S.* & Stollenwerk, B.: Breast cancer attributable costs in Germany: A top-down approach based on sickness funds data. *PLoS One* **7**:e51312 (2012)

Heimeshoff, M.*, Hollmeyer, H.*, Schreyögg, J., Tiemann, O. & Staab, D.*: Cost of illness of cystic fibrosis in Germany: Results from a large cystic fibrosis centre. *Pharmacoeconomics* **30**, 763-777 (2012)

Huber, C.A. et al.: Effects of cost sharing on seeking outpatient care: A propensity-matched study in Germany and Switzerland. *J. Eval. Clin. Pract.* **18**, 781-787 (2012)

Hunger, M., Schunk, M., Meisinger, C., Peters, A. & Holle, R.: Estimation of the relationship between body mass index and EQ-5D health utilities in individuals with type 2 diabetes: Evidence from the population-based KORA studies. *J. Diabetes Complications* **26**, 413-418 (2012)

Hunger, M., Döring, A. & Holle, R.: Longitudinal beta regression models for analyzing health-related quality of life scores over time. *BMC Med. Res. Methodol.* **12**:144 (2012)

Italia, S. et al.: Utilization and costs of conventional and alternative pharmaceuticals in children: Results from the German GINIplus and LISAplus birth cohort studies. *Pharmacoepidemiol. Drug Saf.* **21**, 1102-1111 (2012)

John, J., Wolfenstetter, S.B. & Wenig, C.M.: An economic perspective on childhood obesity: Recent findings on cost of illness and cost effectiveness of interventions. *Nutrition* **28**, 829-839 (2012)

Koller, D. et al.: Variation in antibiotic prescriptions: Is area deprivation an explanation? Analysis of 1.2 million children in Germany. *Infection* **41**, 121-127 (2013) [published online 2012]

Kuznetsov, L., Maier, W., Hunger, M., Meyer, M.* & Mielck, A.: Regional deprivation in Bavaria, Germany: Linking a new deprivation score with registry data for lung and colorectal cancer. *Int. J. Public Health* **57**, 827-835 (2012)

Institute of Health Economics and Health Care Management

Langer, A.: A framework for assessing Health Economic Evaluation (HEE) quality appraisal instruments. *BMC Health Serv. Res.* **12**:253 (2012)

Langer, A., Holle, R. & John, J.: Specific guidelines for assessing and improving the methodological quality of economic evaluations of newborn screening. *BMC Health Serv. Res.* **12**:300 (2012)

Langer, A., Brockow, I.*, Nennstiel-Ratzel, U.* & Menn, P.: The cost-effectiveness of tracking newborns with bilateral hearing impairment in Bavaria: A decision-analytic model. *BMC Health Serv. Res.* **12**:418 (2012)

Menn, P., Leidl, R. & Holle, R.: A lifetime Markov model for the economic evaluation of chronic obstructive pulmonary disease. *Pharmacoeconomics* **30**, 825-840 (2012)

Menn, P. et al.: Dementia care in the general practice setting: A cluster randomized trial on the effectiveness and cost impact of three management strategies. *Value Health* **15**, 851-859 (2012)

Meyer, E. & Rees, R.*: Watchfully waiting: Medical intervention as an optimal investment decision. *J. Health Econ.* **31**, 349-358 (2012)

Mielck, A., Reitmeir, P., Vogelmann, M.* & Leidl, R.: Impact of educational level on health-related quality of life (HRQL): Results from Germany based on the EuroQol 5D (EQ-5D). *Eur. J. Public Health* **23**, 45-49 (2013) [published online 2012]

Nagel, J.M. et al.: Less advanced stages of colon cancer in patients with type 2 diabetes mellitus: An unexpected finding? *Exp. Clin. Endocrinol. Diabet.* **120**, 224-228 (2012)

Rogowski, W.H.: An economic theory of the fourth hurdle. *Health Econ.* **22**, 600-610 (2013) [published online 2012]

Rogowski, W.H., Grosse, S.D.*, Meyer, E., John, J. & Palmer, S.*: Die Nutzung von Informationswertanalysen in Entscheidungen über angewandte Forschung. Der Fall des genetischen Screenings auf Hämochromatose in Deutschland. *Bundesgesundheitsblatt-Gesund.* **55**, 700-709 (2012)

Röllke, L. et al.: Regenerative therapy of infrabony defects with or without systemic doxycycline. A randomized placebo-controlled trial. *J. Clin. Periodontol.* **39**, 448-456 (2012)

Rottenkolber, D., Hasford, J.* & Stausberg, J.*: Costs of adverse drug events in German hospitals - a microcosting study. *Value Health* **15**, 868-875 (2012)

Rottenkolber, D., Schmiedl, S.*, Rottenkolber, M.*, Thuermann, P.A.* & Hasford, J.*: Drug-induced blood consumption: The impact of adverse drug reactions on demand for blood components in German departments of internal medicine. *Basic Clin. Pharmacol. Toxicol.* **111**, 240-247 (2012)

Schipf, S. et al.: Regional differences in the prevalence of known type 2 diabetes mellitus in 45-74 years old individuals: Results from six population-based studies in Germany (DIAB-CORE consortium). *Diabetic Med.* **29**, E88-E95 (2012)

Institute of Health Economics and Health Care Management

Schunk, M. et al.: Health-related quality of life in subjects with and without type 2 diabetes: Pooled analysis of five population-based surveys in Germany. *Diabetic Med.* **29**, 646-653 (2012)

Schwarzkopf, L. et al.: Excess costs of dementia disorders and the role of age and gender - an analysis of German health and long-term care insurance claims data. *BMC Health Serv. Res.* **12**:165 (2012)

Seidl, H., Meisinger, C., Wende, R.* & Holle, R.: Empirical analysis shows reduced cost data collection may be an efficient method in economic clinical trials. *BMC Health Serv. Res.* **12**:318 (2012)

Shenoy, A.U., Aljutaili, M. & Stollenwerk, B.: Limited economic evidence of carotid artery stenosis diagnosis and treatment: A systematic review. *Eur. J. Vasc. Endovasc. Surg.* **44**, 505-513 (2012)

Tamayo, T.*, Schipf, S.* & Maier, W.: Regional differences in the abundance of type 2 diabetes in Germany. What influence does the structural disadvantage of a region have? *Diabetes Stoffwech. Herz* **21**, 326-329 (2012)

Tamayo, T.*, Schipf, S.* & Maier, W.: Regionale Unterschiede in der Häufigkeit des Typ-2-Diabetes in Deutschland. Welchen Einfluss hat die strukturelle Benachteiligung einer Region? *Diabetes Stoffwech. Herz* **21**, 326-330 (2012)

Vogl, M., Wenig, C.M.*, Leidl, R. & Pokhrel, S.*: Smoking and health-related quality of life in English general population: Implications for economic evaluations. *BMC Public Health* **12**:203 (2012)

von Lengerke, T.* & Mielck, A.: Body weight dissatisfaction by socioeconomic status among obese, preobese and normal weight women and men: Results of the cross-sectional KORA Augsburg S4 population survey. *BMC Public Health* **12**:342 (2012)

Zindel, S., Stock, S.*, Müller, D.* & Stollenwerk, B.: A multi-perspective cost-effectiveness analysis comparing rivaroxaban with enoxaparin sodium for thromboprophylaxis after total hip and knee replacement in the German healthcare setting. *BMC Health Serv. Res.* **12**:192 (2012)

Institute of Human Genetics

Ameur, A. et al.: Genetic adaptation of fatty-acid metabolism: A human-specific haplotype increasing the biosynthesis of long-chain omega-3 and omega-6 fatty acids. *Am. J. Hum. Genet.* **90**, 809-820 (2012)

Beetz, C. et al.: Exome sequencing identifies a *REEP1* mutation involved in distal hereditary motor neuropathy type V. *Am. J. Hum. Genet.* **91**, 139-145 (2012)

Crotti, L. et al.: Spectrum and prevalence of mutations involving BrS1- through BrS12-susceptibility genes in a cohort of unrelated patients referred for Brugada Syndrome genetic testing: Implications for genetic testing. *J. Am. Coll. Cardiol.* **60**, 1410-1418 (2012)

Crotti, L. et al.: Torsades de pointes following acute myocardial infarction: Evidence for a deadly link with a common genetic variant. *Heart Rhythm* **9**, 1104-1112 (2012)

Crotti, L. et al.: Vagal reflexes following an exercise stress test: A simple clinical tool for gene-specific risk stratification in the long QT syndrome. *J. Am. Coll. Cardiol.* **60**, 2515-2524 (2012)

Danhauser, K. et al.: *DHTKD1* mutations cause 2-aminoadipic and 2-oxoadipic aciduria. *Am. J. Hum. Genet.* **91**, 1082-1087 (2012)

Demirkan, A. et al.: Genome-wide association study identifies novel loci associated with circulating phospho- and sphingolipid concentrations. *PLoS Genet.* **8**:e1002490 (2012)

Deschauer, M. et al.: *C19orf12* mutations in neurodegeneration with brain iron accumulation mimicking juvenile amyotrophic lateral sclerosis *J. Neurol.* **259**, 2434-2439 (2012)

Ellinor, P.T. et al.: Meta-analysis identifies six new susceptibility loci for atrial fibrillation. *Nat. Genet.* **44**, 670-675 (2012)

Freilinger, T. et al.: Genome-wide association analysis identifies susceptibility loci for migraine without aura. *Nat. Genet.* **44**, 777-782 (2012)

Ghezzi, D. et al.: Mutations of the mitochondrial-tRNA modifier *MTO1* cause hypertrophic cardiomyopathy and lactic acidosis. *Am. J. Hum. Genet.* **90**, 1079-1087 (2012)

Ghoussaini, M. et al.: Genome-wide association analysis identifies three new breast cancer susceptibility loci. *Nat. Genet.* **44**, 312-319 (2012)

Giehl, K.A. et al.: Nonsense mutations in *AAGAB* cause punctate palmoplantar keratoderma type Buschke-Fischer-Brauer. *Am. J. Hum. Genet.* **91**, 754-759 (2012)

Haack, T.B. et al.: Exome sequencing reveals de novo *WDR45* mutations causing a phenotypically distinct, x-linked dominant form of NBIA. *Am. J. Hum. Genet.* **91**, 1144-1149 (2012)

Haack, T.B. et al.: Homozygous missense mutation in *BOLA3* causes multiple mitochondrial dysfunctions syndrome in two siblings. *J. Inherit. Metab. Dis.* **36**, 55-62 (2013) [published online 2012]

Institute of Human Genetics

Haack, T.B. et al.: Impaired riboflavin transport due to missense mutations in SLC52A2 causes Brown-Vialetto-Van Laere syndrome. *J. Inherit. Metab. Dis.* **35**, 943-948 (2012)

Haack, T.B. et al.: Molecular diagnosis in mitochondrial complex I deficiency using exome sequencing. *J. Med. Genet.* **49**, 277-283 (2012)

Haack, T.B. et al.: Mutation screening of 75 candidate genes in 152 complex I deficiency cases identifies pathogenic variants in 16 genes including *NDUFB9*. *J. Med. Genet.* **49**, 83-89 (2012)

Hartig, M.B.*, Prokisch, H., Meitinger, T. & Klopstock, T.*: Pantothenate kinase-associated neurodegeneration. *Curr. Drug Targets* **13**, 1182-1189 (2012)

Hu, D. et al.: A novel rare variant in *SCN1Bb* linked to Brugada syndrome and SIDS by combined modulation of $Na_v1.5$ and $K_v4.3$ channel currents. *Heart Rhythm* **9**, 760-769 (2012)

Jeanne, M. et al.: *COL4A2* mutations impair *COL4A1* and *COL4A2* secretion and cause hemorrhagic stroke. *Am. J. Hum. Genet.* **90**, 91-101 (2012)

Kääb, S. et al.: A large candidate gene survey identifies the *KCNE1* D85N polymorphism as a possible modulator of drug-induced torsades de pointes. *Circ.-Cardiovasc. Genet.* **5**, 91-99 (2012)

Kaffe, M. et al.: Mutational screening of *THAP1* in a German population with primary dystonia. *Parkinsonism Relat. Disord.* **18**, 104-106 (2012)

Kelly, M.A. et al.: Circadian gene variants and susceptibility to type 2 diabetes: A pilot study. *PLoS One* **7**:e32670 (2012)

Klopocki, E. et al.: Duplications of *BHLHA9* are associated with ectrodactyly and tibia hemimelia inherited in non-Mendelian fashion. *J. Med. Genet.* **49**, 119-125 (2012)

Lu, X. et al.: Genome-wide association study in Han Chinese identifies four new susceptibility loci for coronary artery disease. *Nat. Genet.* **44**, 890-894 (2012)

Mayr, J.A. et al.: Lack of the mitochondrial protein acylglycerol kinase causes Sengers syndrome. *Am. J. Hum. Genet.* **90**, 314-320 (2012)

Mehta, D. et al.: Impact of common regulatory single-nucleotide variants on gene expression profiles in whole blood. *Eur. J. Hum. Genet.* **21**, 48-54 (2013) [published online 2012]

Menoud, A.*, Welle, M.*, Tetens, J.*, Lichtner, P. & Drögemüller, C.*: A *COL7A1* mutation causes dystrophic epidermolysis bullosa in Rotes Höhenvieh cattle. *PLoS One* **7**:e38823 (2012)

Mühlau, M. et al.: Variation within the Huntington's disease gene influences normal brain structure. *PLoS One* **7**:e29809 (2012)

Mulatero, P. et al.: *KCNJ5* mutations in European families with nonglucocorticoid remediable familial hyperaldosteronism. *Hypertension* **59**, 235-240 (2012)

Nilsson, L.M. et al.: Mouse genetics suggests cell-context dependency for Myc-regulated metabolic enzymes during tumorigenesis. *PLoS Genet.* **8**:e1002573 (2012)

Institute of Human Genetics

O'Donnell, C.J. et al.: Genome-wide association study for coronary artery calcification with follow-up in myocardial infarction. *Circulation* **124**, 2855-2864 (2012)

Ostern, R. et al.: Hereditary motor neuron disease in a large Norwegian family with a "H46R" substitution in the superoxide dismutase 1 gene. *Neuromusc. Disord.* **22**, 511-521 (2012)

Panteghini, C. et al.: *C19orf12* and *FA2H* mutations are rare in Italian patients with neurodegeneration with brain iron accumulation. *Semin. Pediatr. Neurol.* **19**, 75-81 (2012)

Prokisch, H., Oexle, K.* & Meitinger, T.: Exomdiagnostik verändert die Sicht auf Mitochondriopathien. *Med. Genet.* **24**, 183-186 (2012)

Qanbari, S. et al.: A high resolution genome-wide scan for significant selective sweeps: An application to pooled sequence data in laying chickens. *PLoS One* **7**:e49525 (2012)

Rauch, A. et al.: Range of genetic mutations associated with severe non-syndromic sporadic intellectual disability: An exome sequencing study. *Lancet* **380**, 1674-1682 (2012)

Schraders, M. et al.: Mutations of the gene encoding otogelin are a cause of autosomal-recessive nonsyndromic moderate hearing impairment. *Am. J. Hum. Genet.* **91**, 883-889 (2012)

Schulte, E.C. et al.: Variants in *eukaryotic translation initiation factor 4G1* in sporadic Parkinson's disease. *Neurogenetics* **13**, 281-285 (2012)

Schurmann, C. et al.: Analyzing illumina gene expression microarray data from different tissues: Methodological aspects of data analysis in the MetaXpress consortium. *PLoS One* **7**:e50938 (2012)

Sharma, M. et al.: A multi-centre clinico-genetic analysis of the *VPS35* gene in Parkinson disease indicates reduced penetrance for disease-associated variants. *J. Med. Genet.* **49**, 721-726 (2012)

Sharma, M. et al.: Large-scale replication and heterogeneity in Parkinson disease genetic loci. *Neurology* **79**, 659-667 (2012)

Siddiq, A. et al.: A meta-analysis of genome-wide association studies of breast cancer identifies two novel susceptibility loci at 6q14 and 20q11. *Hum. Mol. Genet.* **21**, 5373-5384 (2012)

Steenweg, M.E. et al.: Leukoencephalopathy with thalamus and brainstem involvement and high lactate 'LTBL' caused by *EARS2* mutations. *Brain* **135**, 1387-1394 (2012)

Testoni, S. et al.: *KDM2B* is implicated in bovine lethal multi-organ developmental dysplasia. *PLoS One* **7**:e45634 (2012)

van den Bosch, B.J. et al.: Defective *NDUFA9* as a novel cause of neonatally fatal complex I disease. *J. Med. Genet.* **49**, 10-15 (2012)

Vávrová, J. et al.: Restless legs syndrome in Czech patients with multiple sclerosis: An epidemiological and genetic study. *Sleep Med.* **13**, 848-851 (2012)

Voight, B.F. et al.: The metabochip, a custom genotyping array for genetic studies of metabolic, cardiovascular, and anthropometric traits. *PLoS Genet.* **8**:e1002793 (2012)

Publication List 2012

31.12.2012

* external Authors

Institute of Human Genetics

Winkelmann, J. et al.: Mutations in DNMT1 cause autosomal dominant cerebellar ataxia, deafness and narcolepsy. *Hum. Mol. Genet.* **21**, 2205-2210 (2012)

Zaboli, G. et al.: Sequencing of high-complexity DNA pools for identification of nucleotide and structural variants in regions associated with complex traits. *Eur. J. Hum. Genet.* **20**, 77-83 (2012)

Institute of Lung Biology

Beck-Speier, I.* , Karg, E.* , Behrendt, H.* , Stöger, T.* & Alessandrini, F.*: Ultrafine particles affect the balance of endogenous pro- and anti-inflammatory lipid mediators in the lung: *In-vitro* and *in-vivo* studies. *Part. Fibre Toxicol.* **9**:27 (2012)

Conde, J. et al.: Design of multifunctional gold nanoparticles for *in vitro* and *in vivo* gene silencing. *ACS Nano* **6**, 8316-8324 (2012)

Gaiser, B.K. et al.: Effects of silver nanoparticles on the liver and hepatocytes *in vitro*. *Toxicol. Sci.* **131**, 537-547 (2013) [published online 2012]

Hüttmann, E.-M. et al.: Comparison of two devices and two breathing patterns for exhaled breath condensate sampling. *PLoS One* **6**:e27467 (2011)

Imboden, M. et al.: Genome-wide association study of lung function decline in adults with and without asthma. *J. Allergy Clin. Immunol.* **129**, 1218-1228 (2012)

Johnston, H. et al.: Engineered nanomaterial risk. Lessons learnt from completed nanotoxicology studies: Potential solutions to current and future challenges. *Crit. Rev. Toxicol.* **43**, 1-20 (2013) [published online 2012]

Kreyling, W.G., Semmler-Behnke, M., Takenaka, S. & Möller, W.: Differences in the biokinetics of inhaled nano- versus micrometer-sized particles. *Acc. Chem. Res.* **46**, 714-722 (2013) [published online 2012]

Möller, W. et al.: Differential inflammatory response to inhaled lipopolysaccharide targeted either to the airways or the alveoli in man. *PLoS One* **7**:e33505 (2012)

Ramasamy, A. et al.: Genome-wide association studies of asthma in population-based cohorts confirm known and suggested loci and identify an additional association near HLA. *PLoS One* **7**:e44008 (2012)

Schleh, C. et al.: Biodistribution of inhaled gold nanoparticles in mice and the influence of surfactant protein D. *J. Aerosol Med. Pulm. Drug Deliv.* **26**, 24-30 (2013) [published online 2012]

Semmler-Behnke, M. et al.: Nanoparticle delivery in infant lungs. *Proc. Natl. Acad. Sci. U.S.A.* **109**, 5092-5097 (2012)

Takenaka, S. et al.: Efficient internalization and intracellular translocation of inhaled gold nanoparticles in rat alveolar macrophages. *Nanomedicine* **7**, 855-865 (2012)

Thieme, S.F. et al.: Ventilation imaging of the paranasal sinuses using xenon-enhanced dynamic single-energy CT and dual-energy CT: A feasibility study in a nasal cast. *Eur. Radiol.* **22**, 2110-2116 (2012)

Wjst, M., Sargurupremraj, M. & Arnold, M.: Genome-wide association studies in asthma: What they really told us about pathogenesis. *Curr. Opin. Allergy Clin. Immunol.* **13**, 112-118 (2013)

Wjst, M.: Is vitamin D supplementation responsible for the allergy pandemic? *Curr. Opin. Allergy Clin. Immunol.* **12**, 257-262 (2012)

Institute of Molecular Immunology

- Bonilla, W.V. et al.: The alarmin interleukin-33 drives protective antiviral CD8⁺ T cell responses. *Science* **335**, 984-989 (2012)
- Bönisch, C. et al.: H2A.Z.2.2 is an alternatively spliced histone H2A.Z variant that causes severe nucleosome destabilization. *Nucleic Acids Res.* **40**, 5951-5964 (2012)
- Colombo, A. et al.: Constitutive α - and β -secretase cleavages of the amyloid precursor protein are partially coupled in neurons, but not in frequently used cell lines. *Neurobiol. Dis.* **49**, 137-147 (2012)
- Darisipudi, M.N. et al.: Uromodulin triggers IL-1 β -dependent innate immunity *via* the NLRP3 inflammasome. *J. Am. Soc. Nephrol.* **23**, 1783-1789 (2012)
- Dembek, C.J. et al.: Longitudinal changes in HIV-1-specific T-cell quality associated with viral load dynamic. *J. Clin. Virol.* **55**, 114-120 (2012)
- Desch, A. et al.: Highly invasive melanoma cells activate the vascular endothelium via an MMP-2/Integrin α v β 5-induced secretion of VEGF-A. *Am. J. Pathol.* **181**, 693-705 (2012)
- Djafarzadeh, R. et al.: Recombinant GPI-anchored TIMP-1 stimulates growth and migration of peritoneal mesothelial cells. *PLoS One* **7**:e33963 (2012)
- Djafarzadeh, R. et al.: Treatment of dermal fibroblasts with GPI-anchored human TIMP-1 protein moderates processes linked to scar formation. *J. Invest. Dermatol.* **133**, 803-811 (2012)
- Eckey, M. et al.: Nucleosome remodeler SNF2L suppresses cell proliferation and migration and attenuates Wnt signaling. *Mol. Cell. Biol.* **32**, 2359-2371 (2012)
- Eckl, J. et al.: Transcript signature predicts tissue NK cell content and defines renal cell carcinoma subgroups independent of TNM staging. *J. Mol. Med.* **90**, 55-66 (2012)
- Eissler, N., Ruf, P.*, Mysliwicz, J., Lindhofer, H.* & Mocikat, R.: Trifunctional bispecific antibodies induce tumor-specific T cells and elicit a vaccination effect. *Cancer Res.* **72**, 3958-3966 (2012)
- Frohn, A. et al.: Dicer-dependent and -independent Argonaute2 protein interaction networks in mammalian cells. *Mol. Cell. Proteomics* **11**, 1442-1456 (2012)
- Gross, H. et al.: Binding of the heterogeneous ribonucleoprotein K (hnRNP K) to the Epstein-Barr virus nuclear antigen 2 (EBNA2) enhances viral LMP2A expression. *PLoS One* **7**:e42106 (2012)
- Guler, G.D. et al.: Human DNA helicase B (HDHB) binds to replication protein A and facilitates cellular recovery from replication stress. *J. Biol. Chem.* **287**, 6469-6481 (2012)
- Hossann, M. et al.: Proteins and cholesterol lipid vesicles are mediators of drug release from thermosensitive liposomes. *J. Control. Release* **162**, 400-406 (2012)
- Hulpke, S. et al.: Direct evidence that the N-terminal extensions of the TAP complex act as autonomous interaction scaffolds for the assembly of the MHC I peptide-loading complex. *Cell. Mol. Life Sci.* **69**, 3317-3327 (2012)

Institute of Molecular Immunology

Jost, K.L. et al.: Generation and characterization of rat and mouse monoclonal antibodies specific for MeCP2 and their use in X-inactivation studies. *PLoS One* **6**:e26499 (2012)

Kleine, H. et al.: Dynamic subcellular localization of the mono-ADP-ribosyltransferase ARTD10 and interaction with the ubiquitin receptor p62. *Cell Commun. Signal.* **10**:28 (2012)

Lang, C.M. et al.: Membrane orientation and subcellular localization of transmembrane protein 106B (TMEM106B), a major risk factor for frontotemporal lobar degeneration. *J. Biol. Chem.* **287**, 19355-19365 (2012)

Lautz, K. et al.: NLRP10 enhances *Shigella*-induced pro-inflammatory responses. *Cell. Microbiol.* **14**, 1568-1583 (2012)

Lehmann, F.M. et al.: Humanized c-Myc mouse. *PLoS One* **7**:e42021 (2012)

Lichtenegger, F.S. et al.: CD86 and IL-12p70 are key players for T helper 1 polarization and natural killer cell activation by toll-like receptor-induced dendritic cells. *PLoS One* **7**:e44266 (2012)

Lindenmeyer, M.*, Nößner, E., Nelson, P.J.* & Segerer, S.*: Dendritic cells in experimental renal inflammation - Part I. *Nephron Exp. Nephrol* **119**, E83-E90 (2011)

Magg, T.*, Mannert, J.*, Ellwart, J.W., Schmid, I.* & Albert, M.H.*: Subcellular localization of FOXP3 in human regulatory and nonregulatory T cells. *Eur. J. Immunol.* **42**, 1627-1638 (2012)

Manceau, V.*, Kremmer, E., Nabel, E.G.* & Maucuer, A.*: The protein kinase KIS impacts gene expression during development and fear conditioning in adult mice. *PLoS One* **7**:e43946 (2012)

Manzoor, A.A. et al.: Overcoming limitations in nanoparticle drug delivery: Triggered, intravascular release to improve drug penetration into tumors. *Cancer Res.* **72**, 5566-5575 (2012)

Nößner, E., Lindenmeyer, M.*, Nelson, P.J.* & Segerer, S.*: Dendritic cells in human renal inflammation - Part II. *Nephron Exp. Nephrol* **119**, E91-E98 (2011)

Odoardi, F. et al.: T cells become licensed in the lung to enter the central nervous system. *Nature* **488**, 675-679 (2012)

Perera, N.C. et al.: NSP4, an elastase-related protease in human neutrophils with arginine specificity. *Proc. Natl. Acad. Sci. U.S.A.* **109**, 6229-6234 (2012)

Prinz, P.U. et al.: High DGK- α and disabled MAPK pathways cause dysfunction of human tumor-infiltrating CD8⁺ T cells that is reversible by pharmacologic intervention. *J. Immunol.* **188**, 5990-6000 (2012)

Przewoznik, M. et al.: Recruitment of natural killer cells in advanced stages of endogenously arising B-cell lymphoma: Implications for therapeutic cell transfer. *J. Immunother.* **35**, 217-222 (2012)

Ruf, P. et al.: Ganglioside GD2-specific trifunctional surrogate antibody Surek demonstrates therapeutic activity in a mouse melanoma model. *J. Transl. Med.* **10**:219 (2012)

Institute of Molecular Immunology

Schichor, C. et al.: Mesenchymal stem cells and glioma cells form a structural as well as a functional syncytium *in vitro*. *Exp. Neurol.* **234**, 208-219 (2012)

Schiller, C. et al.: LST1 promotes the assembly of a molecular machinery responsible for tunneling nanotube formation. *J. Cell Sci.* **126**, 767-777 (2013) [published online 2012]

Schubert, T. et al.: Df31 protein and snoRNAs maintain accessible higher-order structures of chromatin. *Mol. Cell* **48**, 434-444 (2012)

Schwarz, T.M. et al.: Vascular incorporation of endothelial colony-forming cells is essential for functional recovery of murine ischemic tissue following cell therapy. *Arterioscler. Thromb. Vasc. Biol.* **32**, E13-E21 (2012)

Spranger, S., Frankenberger, B. & Schendel, D.J.: NOD/scid IL-2Rg^{null} mice: A preclinical model system to evaluate human dendritic cell-based vaccine strategies *in vivo*. *J. Transl. Med.* **10**:30 (2012)

Spranger, S. et al.: TCR-transgenic lymphocytes specific for HMMR/Rhamm limit tumor outgrowth *in vivo*. *Blood* **119**, 3440-3449 (2012)

Szczyrba, J. et al.: Identification of ZNF217, hnRNP-K, VEGF-A and IPO7 as targets for microRNAs that are downregulated in prostate carcinoma. *Int. J. Cancer* **132**, 775-784 (2013) [published online 2012]

Thomas, M.F. et al.: Eri1 regulates microRNA homeostasis and mouse lymphocyte development and anti-viral function. *Blood* **120**, 130-142 (2012)

Tschöp-Lechner, K. et al.: Modified vaccinia virus Ankara delivers a robust surrogate marker for immune monitoring to sarcoma cells even if cells are being exposed to chemotherapy and heat treatment. *Int. J. Hyperthermia* **28**, 33-42 (2012)

Voss, M. et al.: Foamy virus envelope protein is a substrate for Signal Peptide Peptidase-Like 3 (SPPL3). *J. Biol. Chem.* **287**:43401-43409 (2012)

Wang, C. et al.: Loss of the signaling adaptor TRAF1 causes CD8⁺ T cell dysregulation during human and murine chronic infection. *J. Exp. Med.* **209**, 77-91 (2012)

Wendland, M. et al.: Lymph node T cell homeostasis relies on steady state homing of dendritic cells. *Immunity* **35**, 945-957 (2012)

Wilde, S. et al.: Human antitumor CD8⁺ T cells producing Th1 polycytokines show superior antigen sensitivity and tumor recognition. *J. Immunol.* **189**, 598-605 (2012)

Wurster, T. et al.: Plasma levels of soluble glycoprotein VI (sGPVI) are associated with ischemic stroke. *Platelets*, DOI:10.3109/09537104.2012.746455 (2012)

Zivraj, K.H. et al.: The RNA-binding protein MARTA2 regulates dendritic targeting of MAP2 mRNAs in rat neurons. *J. Neurochem.* **124**, 670-684 (2013) [published online 2012]

Institute of Molecular Toxicology and Pharmacology

Abdullah, Z. et al.: RIG-I detects infection with live *Listeria* by sensing secreted bacterial nucleic acids. *Embo J.* **31**, 4153-4164 (2012)

Brüstle, A. et al.: The NF- κ B regulator MALT1 determines the encephalitogenic potential of Th17 cells. *J. Clin. Invest.* **122**, 4698-4709 (2012)

Chu, Y. et al.: A20 and CYLD do not share significant overlapping functions during B cell development and activation. *J. Immunol.* **189**, 4437-4443 (2012)

Damgaard, R.B. et al.: The ubiquitin ligase XIAP recruits LUBAC for NOD2 signaling in inflammation and innate immunity. *Mol. Cell* **46**, 746-758 (2012)

Denk, G.U. et al.: Tauro- β -muricholic acid restricts bile acid-induced hepatocellular apoptosis by preserving the mitochondrial membrane potential. *Biochem. Biophys. Res. Commun.* **424**, 758-764 (2012)

Galluzzi, L. et al.: Independent transcriptional reprogramming and apoptosis induction by cisplatin. *Cell Cycle* **11**, 3472-3480 (2012)

Galluzzi, L. et al.: Prognostic impact of vitamin B6 metabolism in lung cancer. *Cell Reports* **2**, 257-269 (2012)

Kessler, W. et al.: Kinetics of di(2-ethylhexyl) phthalate (DEHP) and mono(2-ethylhexyl) phthalate in blood and of DEHP metabolites in urine of male volunteers after single ingestion of ring-deuterated DEHP. *Toxicol. Appl. Pharmacol.* **264**, 284-291 (2012)

Nagel, D. et al.: Pharmacologic inhibition of MALT1 protease by phenothiazines as a therapeutic approach for the treatment of aggressive ABC-DLBCL. *Cancer Cell* **22**, 825-837 (2012)

Schweneker, K. et al.: The mycobacterial cord factor adjuvant analogue trehalose-6,6'-dibehenate (TDB) activates the Nlrp3 inflammasome. *Immunobiology* **218**, 664-673 (2013) [published online 2012]

Strasser, D. et al.: Syk kinase-coupled C-type lectin receptors engage protein kinase C- δ to elicit Card9 adaptor-mediated innate immunity. *Immunity* **36**, 32-42 (2012)

Van Beek, M. et al.: Bcl10 links saturated fat overnutrition with hepatocellular NF- κ B activation and insulin resistance. *Cell Reports* **1**, 444-452 (2012)

von Schwarzenberg, K. et al.: Mode of cell death induction by pharmacological Vacuolar H⁺-ATPase (V-ATPase) inhibition. *J. Biol. Chem.* **288**, 1385-1396 (2013)

Institute of Pathology

Balluff, B. et al.: Direct molecular tissue analysis by MALDI imaging mass spectrometry in the field of gastrointestinal disease. *Gastroenterology* **143**:e1-2 (2012)

Bauer, K. et al.: High HSP27 and HSP70 expression levels are independent adverse prognostic factors in primary resected colon cancer. *Cell Oncol.* **35**, 197-205 (2012)

Bauer, L. et al.: Expression profiling of stem cell-related genes in neoadjuvant-treated gastric cancer: A *NOTCH2*, *GSK3B* and *β-catenin* gene signature predicts survival. *PLoS One* **7**:e44566 (2012)

Baumhoer, D. et al.: CRIP1 expression is correlated with a favorable outcome and less metastases in osteosarcoma patients. *Oncotarget* **2**, 970-975 (2011)

Baumhoer, D. et al.: Strong expression of CXCL12 is associated with a favorable outcome in osteosarcoma. *Mod. Pathol.* **25**, 522-528 (2012)

Becker, K. et al.: Proposal for a multifactorial prognostic score that accurately classifies 3 groups of gastric carcinoma patients with different outcomes after neoadjuvant chemotherapy and surgery. *Ann. Surg.* **256**, 1002-1007 (2012)

Berg, D. et al.: Profiling signalling pathways in formalin-fixed and paraffin-embedded breast cancer tissues reveals cross-talk between EGFR, HER2, HER3 and uPAR. *J. Cell Physiol.* **227**, 204-212 (2012)

Bettstetter, M. et al.: Epidermal growth factor receptor, phosphatidylinositol-3-kinase catalytic subunit/PTEN, and KRAS/NRAS/BRAF in primary resected esophageal adenocarcinomas: Loss of PTEN is associated with worse clinical outcome. *Hum. Pathol.* **44**, 829-836 (2013) [published online 2012]

Dalke, C. et al.: Differences in the susceptibility to iodine¹³¹-induced thyroid tumours amongst inbred mouse strains. *J. Radiat. Res.* **53**, 343-352 (2012)

Dantonello, T.M. et al.: Malignant ectomesenchymoma in children and adolescents: Report from the Cooperative Weichteilsarkom Studiengruppe (CWS). *Pediatr. Blood Cancer* **60**, 224-229 (2013) [published online 2012]

Ebert, M.P. et al.: *TFAP2E-DKK4* and chemoresistance in colorectal cancer. *N. Engl. J. Med.* **366**, 44-53 (2012)

Elsner, M. et al.: MALDI imaging mass spectrometry reveals COX7A2, TAGLN2 and S100-A10 as novel prognostic markers in Barrett's adenocarcinoma. *J. Proteomics* **75**, 4693-4704 (2012)

Essler, M. et al.: Therapeutic efficacy and toxicity of ²²⁵Ac-labelled vs. ²¹³Bi-labelled tumour-homing peptides in a preclinical mouse model of peritoneal carcinomatosis. *Eur. J. Nucl. Med. Mol. Imaging* **39**, 602-612 (2012)

Feuerecker, B. et al.: Lipoic acid inhibits cell proliferation of tumor cells *in vitro* and *in vivo*. *Cancer Biol. Ther.* **13**, 1425-1435 (2012)

Institute of Pathology

Graf, N. et al.: [¹⁸F]FLT is superior to [¹⁸F]FDG for predicting early response to antiproliferative treatment in high-grade lymphoma in a dose-dependent manner. *Eur. J. Nucl. Med. Mol. Imaging* **40**, 34-43 (2012)

Grüner, B.M. et al.: MALDI imaging mass spectrometry for *in situ* proteomic analysis of preneoplastic lesions in pancreatic cancer. *PLoS One* **7**:e39424 (2012)

Grunewald, T.G. et al.: High STEAP1 expression is associated with improved outcome of Ewing's sarcoma patients. *Ann. Oncol.* **23**, 2185-2190 (2012)

Grunewald, T.G. et al.: STEAP1 is associated with the invasive and oxidative stress phenotype of Ewing tumors. *Mol. Cancer Res.* **10**, 52-65 (2012)

Hauer, K. et al.: DKK2 mediates osteolysis, invasiveness and metastatic spread in Ewing sarcoma. *Cancer Res.* **73**, 967-977 (2013) [published online 2012]

Heindl, S. et al.: Relevance of MET activation and genetic alterations of *KRAS* and E-cadherin for cetuximab sensitivity of gastric cancer cell lines. *J. Cancer Res. Clin. Oncol.* **138**, 843-858 (2012)

Icheva, V. et al.: Adoptive transfer of Epstein-Barr Virus (EBV) nuclear antigen 1-specific T cells as treatment for EBV reactivation and lymphoproliferative disorders after allogeneic stem-cell transplantation. *J. Clin. Oncol.* **31**, 5-7 (2013) [published online 2012]

Kneissl, J. et al.: Association of amphiregulin with the cetuximab sensitivity of gastric cancer cell lines. *Int. J. Oncol.* **41**, 733-744 (2012)

Lee, M., Waser, B.*, Reubi, J.-C.* & Pellegata, N.S.: Secretin receptor promotes the proliferation of endocrine tumor cells via the PI3K/AKT pathway. *Mol. Endocrinol.* **26**, 1394-1405 (2012)

Li, Z. et al.: FLT-PET is superior to FDG-PET for very early response prediction in NPM-ALK-positive lymphoma treated with targeted therapy. *Cancer Res.* **72**, 5014-5024 (2012)

Luber, B. et al.: Biomarker analysis of cetuximab plus oxaliplatin/leucovorin/5-fluorouracil in first-line metastatic gastric and oesophago-gastric junction cancer: Results from a phase II trial of the Arbeitsgemeinschaft Internistische Onkologie (AIO). *BMC Cancer* **11**:509 (2011)

Ludyga, N. et al.: Nucleic acids from long-term preserved FFPE tissues are suitable for downstream analyses. *Virchows Arch.* **460**, 131-140 (2012)

Malinowsky, K. et al.: uPA and PAI-1-related signaling pathways differ between primary breast cancers and lymph node metastases. *Transl. Oncol.* **5**, 98-104 (2012)

Manook, A. et al.: Small-animal PET imaging of amyloid-beta plaques with [¹¹C]PiB and its multi-modal validation in an APP/PS1 mouse model of Alzheimer's disease. *PLoS One* **7**:e31310 (2012)

Marinoni, I. et al.: Characterization of MENX-associated pituitary tumours. *Neuropathol. Appl. Neurobiol.* **39**, 256-269 (2013) [published online 2012]

Institute of Pathology

Meding, S. et al.: Tissue-based proteomics reveals FXYD3, S100A11 and GSTM3 as novel markers for regional lymph node metastasis in colon cancer. *J. Pathol.* **228**, 459-470 (2012)

Meding, S. et al.: Tumor classification of six common cancer types based on proteomic profiling by MALDI imaging. *J. Proteome Res.* **11**, 1996-2003 (2012)

Pellegata, N.S.: MENX and MEN4. *Clinics* **67**, 13-18 (2012)

Pellegata, N.S.: MENX. *Ann. Endocrinol.* **73**, 65-70 (2012)

Prade, E. et al.: Bile acids down-regulate caveolin-1 in esophageal epithelial cells through sterol responsive element-binding protein. *Mol. Endocrinol.* **26**, 819-832 (2012)

Ronceray, L. et al.: Pulmonary involvement in pediatric-onset multisystem Langerhans cell histiocytosis: Effect on course and outcome. *J. Pediatr.* **161**, 129-133 (2012)

Saraste, A. et al.: Diet intervention reduces uptake of $\alpha_v\beta_3$ integrin-targeted PET tracer ^{18}F -galactosyl-RGD in mouse atherosclerotic plaques. *J. Nucl. Cardiol.* **19**, 775-784 (2012)

Schäfer, A. et al.: Aldehyde dehydrogenase 1A1 - a new mediator of resistance to temozolomide in glioblastoma. *Neuro-Oncology* **14**, 1452-1464 (2012)

Seiz, L. et al.: Stromal cell-associated expression of kallikrein-related peptidase 6 (KLK6) indicates poor prognosis of ovarian cancer patients. *Biol. Chem.* **393**, 391-401 (2012)

Serpi, R. et al.: Inbred wild-type mouse lines have distinct spontaneous morphological phenotypes. *Histol. Histopath.* **28**, 79-88 (2013)

Slotta-Huspenina, J. et al.: Evidence of prognostic relevant expression profiles of heat-shock proteins and glucose-regulated proteins in oesophageal adenocarcinomas. *PLoS One* **7**:e41420 (2012)

Slotta-Huspenina, J. et al.: The impact of cyclin D1 mRNA isoforms, morphology and p53 in mantle cell lymphoma: P53 alterations and blastoid morphology are strong predictors of a high proliferation index. *Haematol-Hematol. J.* **97**, 1422-1430 (2012)

Tichomirowa, M.A. et al.: Cyclin-dependent kinase inhibitor 1B (*CDKN1B*) gene variants in *AIP* mutation-negative familial isolated pituitary adenoma kindreds. *Endocr.-Relat. Cancer* **19**, 233-241 (2012)

Trede, D. et al.: Exploring three-dimensional matrix-assisted laser desorption/ionization imaging mass spectrometry data: Three-dimensional spatial segmentation of mouse kidney. *Anal. Chem.* **84**, 6079-6087 (2012)

Vallon, M. et al.: Enhanced efficacy of combined ^{213}Bi -DTPA-F3 and paclitaxel therapy of peritoneal carcinomatosis is mediated by enhanced induction of apoptosis and G2/M phase arrest. *Eur. J. Nucl. Med. Mol. Imaging* **39**, 1886-1897 (2012)

Publication List 2012

31.12.2012

* external Authors

Institute of Pathology

von Brühl, M.L. et al.: Monocytes, neutrophils, and platelets cooperate to initiate and propagate venous thrombosis in mice *in vivo*. *J. Exp. Med.* **209**, 819-835 (2012)

Wulfkuhle, J.D. et al.: Molecular analysis of HER2 signaling in human breast cancer by functional protein pathway activation mapping. *Clin. Cancer Res.* **18**, 6426-6435 (2012)

Institute of Radiation Biology

Anastasov, N.A. et al.: Radiation resistance due to high expression of miR-21 and G2/M checkpoint arrest in breast cancer cells. *Radiat. Oncol.* **7**:206 (2012)

Azimzadeh, O. et al.: Label-free protein profiling of formalin-fixed paraffin-embedded (FFPE) heart tissue reveals immediate mitochondrial impairment after ionising radiation. *J. Proteomics* **75**, 2384-2395 (2012)

Finnon, R. et al.: *Flt3*-ITD mutations in a mouse model of radiation-induced acute myeloid leukaemia. *Leukemia* **26**, 1445-1446 (2012)

Heidenreich, W.F. & Rosemann, M.: Genetic background and ²²⁷Thorium as risk factors in biologically based models for induction of bone cancer in mice. *Radiat. Environ. Biophys.* **51**, 179-185 (2012)

Heidenreich, W.F., Tomasek, L.* , Grosche, B.* , Leuraud, K.* & Laurier, D.*: Lung cancer mortality in the European uranium miners cohorts analyzed with a biologically based model taking into account radon measurement error. *Radiat. Environ. Biophys.* **51**, 263-275 (2012)

Höfig, I., Ehrhardt, H. & Jeremias, I.: Efficient RNA interference in patients' acute lymphoblastic leukemia cells amplified as xenografts in mice. *Cell Commun. Signal.* **10**:8 (2012)

Höfig, I. et al.: Poloxamer synperonic F108 improves cellular transduction with lentiviral vectors. *J. Gene Med.* **14**, 549-560 (2012)

Kulka, U. et al.: Realising the European Network of Biodosimetry (RENEB). *Radiat. Prot. Dosim.* **151**, 621-625 (2012)

Little, M.P. et al.: Systematic review and meta-analysis of circulatory disease from exposure to low-level ionizing radiation and estimates of potential population mortality risks. *Environ. Health Perspect.* **120**, 1503-1511 (2012)

Pernot, E. et al.: Ionizing radiation biomarkers for potential use in epidemiological studies. *Mutat. Res.-Rev. Mutat. Res.* **751**, 258-286 (2012)

Rumenapp, C. et al.: Secondary radiation-induced bone tumours demonstrate a high degree of genomic instability predictive of a poor prognosis. *Curr. Genomics* **13**, 433-437 (2012)

Sriharshan, A. et al.: Proteomic analysis by SILAC and 2D-DIGE reveals radiation-induced endothelial response: Four key pathways. *J. Proteomics* **75**, 2319-2330 (2012)

Stoehr, L.C. et al.: Shape matters: Effects of silver nanospheres and wires on human alveolar epithelial cells. *Part. Fibre Toxicol.* **8**:36 (2011)

Institute of Radiation Protection

Alloni, D.* , Campa, A.* , Friedland, W., Mariotti, L.* & Ottolenghi, A.*: Track structure, radiation quality and initial radiobiological events: Considerations based on the PARTRAC code experience. *Int. J. Radiat. Biol.* **88**, 77-86 (2012)

Eidemüller, M., Jacob, P., Lane, R.S.* , Frost, S.E.* & Zablotska, L.B.*: Lung cancer mortality (1950-1999) among Eldorado uranium workers: A comparison of models of carcinogenesis and empirical excess risk models. *PLoS One* **7**:e41431 (2012)

Friedland, W., Kundrát, P. & Jacob, P.: Stochastic modelling of DSB repair after photon and ion irradiation. *Int. J. Radiat. Biol.* **88**, 129-136 (2012)

Garger, E.K.* , Kuzmenko, Y.I.* , Sickinger, S. & Tschiersch, J.: Prediction of the ¹³⁷Cs activity concentration in the atmospheric surface layer of the Chernobyl exclusion zone. *J. Environ. Radioact.* **110**, 53-58 (2012)

Garny, S., Rühm, W., Zankl, M., Wagner, F.M.* & Paretzke, H.G.: First steps towards a fast-neutron therapy planning program. *Radiat. Oncol.* **6**:163 (2011)

Helle, K.B. et al.: Planning sensor locations for the detection of radioactive plumes for Norway and the Balkans. *Radioprotection* **46**, 55-61 (2011)

Hofstetter, M. et al.: *In vitro* bio-functionality of gallium nitride sensors for radiation biophysics. *Biochem. Biophys. Res. Commun.* **424**, 348-353 (2012)

Howgate, J.D. et al.: Ultrahigh gain AlGaIn/GaN high energy radiation detectors. *Phys. Status Solidi A-Appl. Mat.* **209**, 1562-1567 (2012)

Kaiser, J.C., Jacob, P., Meckbach, R. & Cullings, H.M.*: Breast cancer risk in atomic bomb survivors from multi-model inference with incidence data 1958-1998. *Radiat. Environ. Biophys.* **51**, 1-14 (2012)

Kaiser, J.C. & Walsh, L.*: Independent analysis of the radiation risk for leukaemia in children and adults with mortality data (1950-2003) of Japanese A-bomb survivors. *Radiat. Environ. Biophys.* **52**, 17-27 (2012)

Kundrát, P., Bauer, G.* , Jacob, P. & Friedland, W.: Mechanistic modelling suggests that the size of preneoplastic lesions is limited by intercellular induction of apoptosis in oncogenically transformed cells. *Carcinogenesis* **33**, 253-259 (2012)

Kundrát, P. & Friedland, W.: Non-linear response of cells to signals leads to revised characteristics of bystander effects inferred from their modelling. *Int. J. Radiat. Biol.* **88**, 743-750 (2012)

Kundrát, P. & Friedland, W.: Track structure calculations on intracellular targets responsible for signal release in bystander experiments with transfer of irradiated cell-conditioned medium. *Int. J. Radiat. Biol.* **88**, 98-102 (2012)

Lachner, J. et al.: Attempt to detect primordial ²⁴⁴Pu on Earth. *Phys. Rev. C* **85**:015801 (2012)

Institute of Radiation Protection

Linares, E.M., Pannuti, C.S.* , Kubota, L.T.* & Thalhammer, S.: Immunospot assay based on fluorescent nanoparticles for dengue fever detection. *Biosens. Bioelectron.* **41**, 180-185 (2013) [published online 2012]

Masuda, A. et al.: Response measurement of a Bonner sphere spectrometer for high-energy neutrons. *IEEE Trans. Nucl. Sci.* **59**, 161-166 (2012)

Rödel, F. et al.: Modulation of inflammatory immune reactions by low-dose ionizing radiation: Molecular mechanisms and clinical application. *Curr. Med. Chem.* **19**, 1741-1750 (2012)

Rühm, W., Ackermann, U., Pioch, C. & Mares, V.: Spectral neutron flux oscillations of cosmic radiation on the Earth's surface. *J. Geophys. Res.* **117**:A08309 (2012)

Schöllnberger, H., Kaiser, J.C., Jacob, P. & Walsh, L.*: Dose-responses from multi-model inference for the non-cancer disease mortality of atomic bomb survivors. *Radiat. Environ. Biophys.* **51**, 165-178 (2012)

Shinonaga, T. et al.: Production and characterization of plutonium dioxide particles as a quality control material for safeguards purposes. *Anal. Chem.* **84**, 2638-2646 (2012)

Staudt, C., Semiochkina, N., Kaiser, J.C. & Pröhl, G.*: Modeling the impact of climate change in Germany with biosphere models for long-term safety assessment of nuclear waste repositories. *J. Environ. Radioact.* **115**, 214-223 (2012)

Thiessen, K. M. et al.: Assessing emergency situations and their aftermath in urban areas: The EMRAS II Urban Areas Working Group. *Radioprotection* **46**, 601-607 (2011)

Urso, L. et al.: Improving evaluation criteria for monitoring networks of weak radioactive plumes after nuclear emergencies. *Environ. Modell. Softw.* **38**, 108-116 (2012)

Urso, L. et al.: Modeling of the fate of radionuclides in urban sewer systems after contamination due to nuclear or radiological incidents. *J. Environ. Radioact.* **118**, 121-127 (2013) [published online 2012]

Volkel, J.* , Murray, A.* , Leopold, M.* & Hürkamp, K.: Colluvial filling of a glacial bypass channel near the Chiemsee (Stottham) and its function as geoarchive. *Z. Geomorphol.* **56**, 371-386 (2012)

Völkel, J. et al.: Eolian and fluvial sedimentation in the southwestern Sinai Mountains, Egypt: A record of flash floods during the late Pleistocene. *Hydrol. Res.* **44**, 281-299 (2013) [published online 2012]

Wieser, A.: Review of reconstruction of radiation incident air kerma by measurement of absorbed dose in tooth enamel with EPR. *Radiat. Prot. Dosim.* **149**, 71-78 (2012)

Winkelbauer, J.* , Volkel, J.* , Leopold, M.* , Hürkamp, K. & Dehos, R.*: The vertical distribution of Cs-137 in Bavarian forest soils. *Eur. J. For. Res.* **131**, 1585-1599 (2012)

Institute of Radiation Protection

Wittmaack, K. & Mutzke, A.*: Depth of origin of sputtered atoms: Exploring the dependence on relevant target properties to identify the correlation with low-energy ranges. *Nucl. Instrum. Methods Phys. Res. Sect. B-Beam Interact. Mater. Atoms* **281**, 37-44 (2012)

Wittmaack, K.: Mechanism of MCs⁺ formation in Cs based secondary ion mass spectrometry. *Surf. Sci.* **606**, L18-L21 (2012)

Wittmaack, K.: Mechanisms responsible for inducing and balancing the presence of Cs adatoms in dynamic Cs based SIMS. *Int. J. Mass Spectrom.* **313**, 68-72 (2012)

Woda, C., Kaiser, J.C., Urso, L. & Greiter, M.: An environmental BeO-OSL dosimeter for emergency response. *Radiat. Meas.* **47**, 609-613 (2012)

Woda, C., Fiedler, I. & Spöttl, T.*: On the use of OSL of chip card modules with molding for retrospective and accident dosimetry. *Radiat. Meas.* **47**, 1068-1073 (2012)

Institute of Soil Ecology

Bimüller, C. et al.: Rapid transfer of ¹⁵N from labeled beech leaf litter to functional soil organic matter fractions in a Rendzic Leptosol. *Soil Biol. Biochem.* **58**, 323-331 (2013) [published online 2012]

Bittner, S. et al.: Evaluation of a ray-tracing canopy light model based on terrestrial laser scans. *Can. J. Remote Sens.* **38**, 619-628 (2012)

Bittner, S. et al.: Functional-structural water flow model reveals differences between diffuse- and ring-porous tree species. *Agric. For. Meteorol.* **158**, 80-89 (2012)

Bittner, S., Legner, N.*, Beese, F.* & Priesack, E.: Individual tree branch-level simulation of light attenuation and water flow of three *F. sylvatica* L. trees. *J. Geophys. Res.* **117**:G01037 (2012)

Bogena, H. et al.: TERENO - Ein langfristiges Beobachtungsnetzwerk für die terrestrische Umweltforschung. *Hydrol. Wasserbewirtsch.* **56**, 138-143 (2012)

Herzog, C.*, Peter, M.*, Pritsch, K., Günthardt-Goerg, M.S.* & Egli, S.*: Drought and air warming affects abundance and exoenzyme profiles of *Cenococcum geophilum* associated with *Quercus robur*, *Q. petraea* and *Q. pubescens*. *Plant Biol.* **15**, 230-237 (2013) [published online 2012]

Kengara, F.O. et al.: Enhanced degradation of ¹⁴C-HCB in two tropical clay soils using multiple anaerobic-aerobic cycles. *Environ. Pollut.* **173**, 168-175 (2013) [published online 2012]

Kerner, R. et al.: Comprehensive proteome analysis in *Cenococcum geophilum* Fr. as a tool to discover drought-related proteins. *J. Proteomics* **75**, 3707-3719 (2012)

Ngigi, A.N. et al.: Effects of carbon amendment on *in situ* atrazine degradation and total microbial biomass. *J. Environ. Sci. Health B* **48**, 40-48 (2012)

Pfab, H. et al.: Influence of a nitrification inhibitor and of placed N-fertilization on N₂O fluxes from a vegetable cropped loamy soil. *Agric. Ecosyst. Environ.* **150**, 91-101 (2012)

Simon, J.*, Dong, F.*, Buegger, F. & Rennenberg, H.*: Rhizospheric NO affects N uptake and metabolism in Scots pine (*Pinus sylvestris* L.) seedlings depending on soil N availability and N source. *Plant Cell Environ.* **36**, 1019-1026 (2013) [published online 2012]

Tedersoo, L. et al.: Enzymatic activities and stable isotope patterns of ectomycorrhizal fungi in relation to phylogeny and exploration types in an afro-tropical rain forest. *New Phytol.* **195**, 832-843 (2012)

Wild, C.*, Laforsch, C.*, Mayr, C.*, Fuß, R. & Niggli, W.*: Effect of water currents on organic matter release by two scleractinian corals. *Aquatic Ecol.* **46**, 335-341 (2012)

Yevdokimov, I.V.*, Gattinger, A.*, Buegger, F., Schloter, M. & Munch, J.-C.: Changes in the structure and activity of a soil microbial community caused by inorganic nitrogen fertilization. *Microbiology* **81**, 743-749 (2012)

Institute of Stem Cell Research

Behrendt, G. et al.: Dynamic changes in myelin aberrations and oligodendrocyte generation in chronic amyloidosis in mice and men. *Glia* **61**, 273-286 (2013) [published online 2012]

Bergami, M.* & Berninger, B.: A fight for survival: The challenges faced by a newborn neuron integrating in the adult hippocampus. *Dev. Neurobiol.* **72**, 1016-1031 (2012)

Cappello, S. et al.: A radial glia-specific role of RhoA in double cortex formation. *Neuron* **73**, 911-924 (2012)

Chen, X.*, Lepier, A., Berninger, B., Tolkovsky, A.M.* & Herbert, J.*: Cultured subventricular zone progenitor cells transduced with neurogenin-2 become mature glutamatergic neurons and integrate into the dentate gyrus. *PLoS One* **7**:e31547 (2012)

Drukker, M. et al.: Isolation of primitive endoderm, mesoderm, vascular endothelial and trophoblast progenitors from human pluripotent stem cells. *Nat. Biotechnol.* **30**, 531-542 (2012)

Hesse, M. et al.: Direct visualization of cell division using high-resolution imaging of M-phase of the cell cycle. *Nat. Commun.* **3**:1076 (2012)

Jafari, M. et al.: Long-term genetic fate mapping of adult generated neurons in a mouse temporal lobe epilepsy model. *Neurobiol. Dis.* **48**, 454-463 (2012)

Karow, M. et al.: Reprogramming of pericyte-derived cells of the adult human brain into induced neuronal cells. *Cell Stem Cell* **11**, 471-476 (2012)

Ohlig, S. et al.: An emerging role of sonic hedgehog shedding as a modulator of heparan sulfate interactions. *J. Biol. Chem.* **287**, 43708-43719 (2012)

Saab, A.S. et al.: Bergmann glial AMPA receptors are required for fine motor coordination. *Science* **337**, 749-753 (2012)

Saulnier, A. et al.: The doublesex homolog *Dmrt5* is required for the development of the caudomedial cerebral cortex in mammals. *Cereb. Cortex*, DOI:10.1093/cercor/bhs234 (2012)

Institute of Structural Biology

Asami, S.* & Reif, B.: Assignment strategies for aliphatic protons in the solid-state in randomly protonated proteins. *J. Biomol. NMR* **52**, 31-39 (2012)

Asami, S., Szekely, K.*, Schanda, P.*, Meier, B.H.* & Reif, B.: Optimal degree of protonation for ¹H detection of aliphatic sites in randomly deuterated proteins as a function of the MAS frequency. *J. Biomol. NMR* **54**, 155-168 (2012)

Aumiller, V.*, Graebisch, A., Kremmer, E., Niessing, D. & Forstemann, K.*: Drosophila Pur-α binds to trinucleotide-repeat containing cellular RNAs and translocates to the early oocyte. *RNA Biol.* **9**, 633-643 (2012)

Brandmaier, S., Tetko, I. V. & Öberg, T.*: An evaluation of experimental design in QSAR modelling utilizing the *k*-medoid clustering. *J. Chemometr.* **26**, 509-517 (2012)

Brandmaier, S., Sahlin, U.*, Tetko, I.V. & Öberg, T.*: PLS-optimal: A stepwise D-optimal design based on latent variables. *J. Chem. Inf. Model.* **52**, 975-983 (2012)

Dormann, D. et al.: Arginine methylation next to the PY-NLS modulates transportin binding and nuclear import of FUS. *Embo J.* **31**, 4258-4275 (2012)

Hennig, J. et al.: MTMDAT-HADDOCK: High-throughput, protein complex structure modeling based on limited proteolysis and mass spectrometry. *BMC Struct. Biol.* **12**:29 (2012)

Holdermann, I. et al.: Chromodomains read the arginine code of post-translational targeting. *Nat. Struct. Mol. Biol.* **19**, 260-263 (2012)

Hüls, D., Storchova, Z.* & Niessing, D.: Post-translational modifications regulate assembly of early spindle orientation complex in yeast. *J. Biol. Chem.* **287**, 16238-16245 (2012)

Hüls, D. & Niessing, D.: Purification, crystallization and preliminary crystallographic analysis of Kar9p from *Saccharomyces cerevisiae*. *Acta Crystallogr. F-Struct. Biol. Cryst. Commun.* **68**, 1251-1254 (2012)

Jacso, T. et al.: Characterization of membrane proteins in isolated native cellular membranes by dynamic nuclear polarization solid-state NMR spectroscopy without purification and reconstitution. *Angew. Chem.-Int. Edit.* **51**, 432-435 (2012)

Jacso, T., Schneider, E.*, Rupp, B.* & Reif, B.: Substrate transport activation is mediated through second periplasmic loop of transmembrane protein MalF in maltose transport complex of *Escherichia coli*. *J. Biol. Chem.* **287**, 17040-17049 (2012)

Jansen, R.-P.* & Niessing, D.: Assembly of mRNA-protein complexes for directional mRNA transport in eukaryotes - an overview. *Curr. Protein Pept. Sci.* **13**, 284-293 (2012)

Kaden, D.*, Munter, L.M.*, Reif, B. & Multhaup, G.*: The amyloid precursor protein and its homologues: Structural and functional aspects of native and pathogenic oligomerization. *Eur. J. Cell Biol.* **91**, 234-239 (2012)

Institute of Structural Biology

Kellogg, E.H.* , Lange, O.F. & Baker, D.*: Evaluation and optimization of discrete state models of protein folding. *J. Phys. Chem. B* **116**, 11405-11413 (2012)

Lange, O.F. et al.: Determination of solution structures of proteins up to 40 kDa using CS-Rosetta with sparse NMR data from deuterated samples. *Proc. Natl. Acad. Sci. U.S.A.* **109**, 10873-10878 (2012)

Lange, O.F. & Baker, D.*: Resolution-adapted recombination of structural features significantly improves sampling in restraint-guided structure calculation. *Proteins* **80**, 884-895 (2012)

Lopez del Amo, J.M. et al.: An asymmetric dimer as the basic subunit in Alzheimer's disease amyloid β fibrils. *Angew. Chem.-Int. Edit.* **51**, 6136-6139 (2012)

Lopez del Amo, J.M. et al.: Structural properties of EGCG-induced, nontoxic Alzheimer's disease A β oligomers. *J. Mol. Biol.* **421**, 517-524 (2012)

Mackereth, C.D.* & Sattler, M.: Dynamics in multi-domain protein recognition of RNA. *Curr. Opin. Struct. Biol.* **22**, 287-296 (2012)

Mainz, A. et al.: Structural and mechanistic implications of metal binding in the small heat-shock protein α B-crystallin. *J. Biol. Chem.* **287**, 1128-1138 (2012)

Mathioudakis, N. et al.: The multiple Tudor domain-containing protein TDRD1 is a molecular scaffold for mouse piwi proteins and piRNA biogenesis factors. *RNA-Publ. RNA Soc.* **18**, 2056-2072 (2012)

Reif, B.: Ultra-high resolution in MAS solid-state NMR of perdeuterated proteins: Implications for structure and dynamics. *J. Magn. Reson.* **216**, 1-12 (2012)

Sushko, I.* , Salmina, E.* , Potemkin, V.A.* , Poda, G.* & Tetko, I.V.: ToxAlerts: A web server of structural alerts for toxic chemicals and compounds with potential adverse reactions. *J. Chem Inf. Model.* **52**, 2310-2316 (2012)

Tavanez, J.P.* , Madl, T., Kooshapur, H., Sattler, M. & Valcárcel, J.*: hnRNP A1 proofreads 3' splice site recognition by U2AF. *Mol. Cell* **45**, 314-329 (2012)

Tetko, I.V.: The perspectives of computational chemistry modeling. *J. Comput.-Aided Mol. Des.* **26**, 135-136 (2012)

Institute of Virology

Attems, J. et al.: Clusters of secretogin-expressing neurons in the aged human olfactory tract lack terminal differentiation. *Proc. Natl. Acad. Sci. U.S.A.* **109**, 6259-6264 (2012)

Bauer, J. et al.: Lymphotoxin, NF- κ B, and cancer: The dark side of cytokines. *Dig. Dis.* **30**, 453-468 (2012)

Boettcher, S. et al.: Cutting edge: LPS-induced emergency myelopoiesis depends on TLR4-expressing nonhematopoietic cells. *J. Immunol.* **188**, 5824-5828 (2012)

Buchholz, V.R.*, Gräf, P.* & Busch, D.H.: The origin of diversity: Studying the evolution of multifaceted CD8⁺ T cell responses. *Cell. Mol. Life Sci.* **69**, 1585-1595 (2012)

Chew, V. et al.: Toll-like receptor 3 expressing tumor parenchyma and infiltrating natural killer cells in hepatocellular carcinoma patients. *J. Natl. Cancer Inst.* **104**, 1796-1807 (2012)

Demmer, O. et al.: A conformationally frozen peptoid boosts CXCR4 affinity and anti-HIV activity. *Angew. Chem.-Int. Edit.* **51**, 8110-8113 (2012)

Diem, O., Schäffner, M., Seifarth, W.* & Leib-Mösch, C.: Influence of antipsychotic drugs on Human Endogenous Retrovirus (HERV) transcription in brain cells. *PLoS One* **7**:e30054 (2012)

Farag, M.M.S. et al.: Immune tolerance against HBV can be overcome in HBV transgenic mice by immunization with dendritic cells pulsed by HBVsp. *Vaccine* **30**, 6034-6039 (2012)

Gaudin, R. et al.: Critical role for the kinesin KIF3A in the HIV life cycle in primary human macrophages. *J. Cell Biol.* **199**, 467-479 (2012)

Gosenca, D. et al.: HERV-E-mediated modulation of PLA2G4A transcription in urothelial carcinoma. *PLoS One* **7**:e49341 (2012)

Hoffmann, D. et al.: Norovirus GII.4 and GII.7 capsid sequences undergo positive selection in chronically infected patients. *Infect. Genet. Evol.* **12**, 461-466 (2012)

Hösel, M. et al.: Toll-like receptor 2-mediated innate immune response in human nonparenchymal liver cells toward adeno-associated viral vectors. *Hepatology* **55**, 287-297 (2012)

Huang, L.R. et al.: Transfer of HBV genomes using low doses of adenovirus vectors leads to persistent infection in immune competent mice. *Gastroenterology* **142**, 1447-1450 (2012)

Koppensteiner, H.*, Banning, C.*, Schneider, C.*, Hohenberg, H.* & Schindler, M.: Macrophage internal HIV-1 is protected from neutralizing antibodies. *J. Virol.* **86**, 2826-2836 (2012)

Koppensteiner, H., Brack-Werner, R. & Schindler, M.: Macrophages and their relevance in Human Immunodeficiency Virus Type I infection. *Retrovirology* **9**:82 (2012)

Krepstakies, M. et al.: A new class of synthetic peptide inhibitors blocks attachment and entry of human pathogenic viruses. *J. Infect. Dis.* **205**, 1654-1664 (2012)

Krönig, H. et al.: PD-1 expression on Melan-A-reactive T cells increases during progression to metastatic disease. *Int. J. Cancer* **130**, 2327-2336 (2012)

Institute of Virology

- Li, S. et al.: Signature microRNA expression profile of essential hypertension and its novel link to human cytomegalovirus infection. *Circulation* **124**, 175-184 (2011)
- Li, W.M. et al.: Proteomic analysis of metabolic, cytoskeletal and stress response proteins in human heart failure. *J. Cell. Mol. Med.* **16**, 59-71 (2012)
- Loetscher, Y. et al.: *Salmonella* transiently reside in luminal neutrophils in the inflamed gut. *PLoS One* **7**:e34812 (2012)
- Lucifora, J., Esser, K. & Protzer, U.: Ezetimibe blocks hepatitis B virus infection after virus uptake into hepatocytes. *Antiviral Res.* **97**, 195-197 (2013) [published online 2012]
- Nagel, J. et al.: Stably integrated and expressed retroviral sequences can influence nuclear location and chromatin condensation of the integration locus. *Chromosoma* **121**, 353-367 (2012)
- Panzer, M. et al.: Rapid *in vivo* conversion of effector T cells into Th2 cells during helminth infection. *J. Immunol.* **188**, 615-623 (2012)
- Protzer, U., Maini, M.K.* & Knolle, P.A.*: Living in the liver: Hepatic infections. *Nat. Rev. Immunol.* **12**, 201-213 (2012)
- Schlitzer, A. et al.: Tissue-specific differentiation of a circulating CCR9⁺ pDC-like common dendritic cell precursor. *Blood* **119**, 6063-6071 (2012)
- Schneider, M. et al.: Severe acute respiratory syndrome coronavirus replication is severely impaired by MG132 due to proteasome-independent inhibition of M-calpain. *J. Virol.* **86**, 10112-10122 (2012)
- Seleznik, G.M. et al.: Lymphotoxin β receptor signaling promotes development of autoimmune pancreatitis. *Gastroenterology* **143**, 1361-1374 (2012)
- Stemberger, C. et al.: Novel serial positive enrichment technology enables clinical multiparameter cell sorting. *PLoS One* **7**:e35798 (2012)
- Stross, L. et al.: Foxp3⁺ regulatory T cells protect the liver from immune damage and compromise virus control during acute experimental hepatitis B virus infection in mice. *Hepatology* **56**, 873-883 (2012)
- Weigand, L.U. et al.: Isolation of human MHC class II-restricted T cell receptors from the autologous T-cell repertoire with potent anti-leukaemic reactivity. *Immunology* **137**, 226-238 (2012)
- Wohlleber, D. et al.: TNF-induced target cell killing by CTL activated through cross-presentation. *Cell Reports* **2**, 478-487 (2012)
- Wolf, M.J. et al.: Endothelial CCR2 signaling induced by colon carcinoma cells enables extravasation via the JAK2-Stat5 and p38MAPK pathway. *Cancer Cell* **22**, 91-105 (2012)
- Zhang, D. et al.: Whole genome HBV deletion profiles and the accumulation of preS deletion mutant during antiviral treatment. *BMC Microbiol.* **12**:307 (2012)

Molecular EXposomics

Botaro, D.*, Torres, J.P.M.*, Schramm, K.-W. & Malm, O.*: Mercury levels in feed and muscle of farmed tilapia. *Am. J. Ind. Med.* **55**, 1159-1165 (2012)

Braddock, D.C. et al.: Verification of stereospecific dyotropic racemisation of enantiopure D and L-1,2-dibromo-1,2-diphenylethane in non-polar media. *Chem. Commun.* **48**, 8943-8945 (2012)

Cok, I. et al.: Analysis of human milk to assess exposure to PAHs, PCBs and organochlorine pesticides in the vicinity Mediterranean city Mersin, Turkey. *Environ. Int.* **40**, 63-69 (2012)

Dobmeier, M.*, Herrmann, J.M.*, Lenoir, D. & König, B.*: Reduction of benzylic alcohols and α -hydroxycarbonyl compounds by hydriodic acid in a biphasic reaction medium. *Beilstein J. Org. Chem.* **8**, 330-336 (2012)

Galvao, P. et al.: Distinct bioaccumulation profile of pesticides and dioxin-like compounds by mollusk bivalves reared in polluted and unpolluted tropical bays: Consumption risk and seasonal effect. *Food Chem.* **134**, 2040-2048 (2012)

Krysiak-Baltyn, K. et al.: Association between chemical pattern in breast milk and congenital cryptorchidism: Modelling of complex human exposures. *Int. J. Androl.* **35**, 294-302 (2012)

Lenoir, D., Klobasa, O., Pandelova, M., Henkelmann, B. & Schramm, K.-W.: Laboratory studies on formation and minimisation of polychlorinated dibenzodioxins and -furans (PCDD/F) in secondary aluminium process. *Chemosphere* **87**, 998-1002 (2012)

Lenoir, D., Schramm, K.-W. & König, B.*: Use and application of the new internet book, NOP, a new practical course for sustainable chemistry applied to organic synthesis. *Fresenius Environ. Bull.* **21**, 2316-2319 (2012)

Maggioni, S.*, Bagnati, R.*, Pandelova, M., Schramm, K.-W. & Benfenati, E.*: Genistein and dicarboximide fungicides in infant formulae from the EU market. *Food Chem.* **136**, 116-119 (2013) [published online 2012]

Oelgemöller, M. et al.: Synthesis, structural characterization and photoisomerization of cyclic stilbenes. *Tetrahedron* **68**, 4048-4056 (2012)

Ongeri, D.M.K.*, Lalah, J.O.*, Wandiga, S.O.*, Schramm, K.-W. & Michalke, B.: Seasonal variability in cadmium, lead, copper, zinc and iron concentrations in the three major fish species, *Oreochromis niloticus*, *Lates niloticus* and *Rastrineobola argentea* in Winam Gulf, Lake Victoria: Impact of wash-off into the lake. *Bull. Environ. Contam. Toxicol.* **88**, 166-171 (2012)

Otieno, P.O. et al.: Spatial distribution and temporal trend in concentration of carbofuran, diazinon and chlorpyrifos ethyl residues in sediment and water in Lake Naivasha, Kenya. *Bull. Environ. Contam. Toxicol.* **88**, 526-532 (2012)

Pandelova, M., Levy Lopez, W., Michalke, B. & Schramm, K.-W.: Ca, Cd, Cu, Fe, Hg, Mn, Ni, Pb, Se, and Zn contents in baby foods from the EU market: Comparison of assessed infant intakes with the present safety limits for minerals and trace elements. *J. Food Compos. Anal.* **27**, 120-127 (2012)

Molecular EXposomics

Pandelova, M. & Schramm, K.-W.: Human and environmental biomonitoring of polychlorinated biphenyls and hexachlorobenzene in Saxony, Germany based on the German Environmental Specimen Bank. *Int. J. Hyg. Environ. Health*. **215**, 220-223 (2012)

Qin, S. et al.: Concentrations and gas-particle partitioning of PCDD/Fs in the urban air of Dalian, China. *Chin. Sci. Bull.* **57**, 3442-3451 (2012)

Schramm, K.-W. et al.: Chemical- and effect-oriented exposomics: Three Gorges Reservoir (TGR). *Environ. Sci. Pollut. Res.*, DOI:10.1007/s11356-012-1319-9 (2012)

Shen, H. et al.: Physiologically based persistent organic pollutant accumulation in pig tissues and their edible safety differences: An *in vivo* study. *Food Chem.* **132**, 1830-1835 (2012)

Shen, H. et al.: The predictive power of the elimination of dioxin-like pollutants from pigs: An *in vivo* study. *Environ. Int.* **38**, 73-78 (2012)

Turgut, C. et al.: The occurrence and environmental effect of Persistent Organic Pollutants (POPs) in Taurus Mountains soils. *Environ. Sci. Pollut. Res.* **19**, 325-334 (2012)

Ud-Daula, A., Pfister, G. & Schramm, K.-W.: 5-Fluorouracil accumulation in green microalgae and its biogenetic transfer into ciliate protozoan. *Bull. Environ. Contam. Toxicol.* **88**, 548-554 (2012)

Research Unit Analytical BioGeoChemistry

Berthold, H.K.* , Michalke, B., Krone, W.* , Guallar, E.* & Gouni-Berthold, I.*: Influence of serum selenium concentrations on hypertension: The Lipid Analytic Cologne cross-sectional study. *J. Hypertens.* **30**, 1328-1335 (2012)

Boutegrabet, L. et al.: Attachment of chloride anion to sugars: Mechanistic investigation and discovery of a new dopant for efficient sugar ionization/detection in mass spectrometers. *Chem.-Eur. J.* **18**, 13059-13067 (2012)

Chnirheb, A. et al.: Efficiency and degradation products elucidation of the photodegradation of mfenpyrdiethyl in water interface using TiO₂ P-25 and Hombikat UV100. *J. Environ. Sci.* **24**, 1686-1693 (2012)

Diederich, J., Brielmeier, M., Schwerdtle, T.* & Michalke, B.: Manganese and iron species in Sprague-Dawley rats exposed with MnCl₂·4H₂O (i.v.). *Microchem. J.* **105**, 115-123 (2012)

Ebrahim, A.M. et al.: Study on selected trace elements and heavy metals in some popular medicinal plants from Sudan. *J. Nat. Med.* **66**, 671-679 (2012)

Flerus, R. et al.: A molecular perspective on the ageing of marine dissolved organic matter. *Biogeosciences* **9**, 1935-1955 (2012)

Fritz, J. et al.: Retention of solutes and different-sized particles in the digestive tract of the ostrich (*Struthio camelus massaicus*), and a comparison with mammals and reptiles. *Comp. Biochem. Physiol. A-Mol. Integr. Physiol.* **163**, 56-65 (2012)

Haack, H. et al.: Maribo - a new CM fall from Denmark. *Meteorit. Planet. Sci.* **47**, 30-50 (2012)

Herzprung, P. et al.: Variations of DOM quality in inflows of a drinking water reservoir: Linking of van Krevelen diagrams with EEMF spectra by rank correlation. *Environ. Sci. Technol.* **46**, 5511-5518 (2012)

Jenniskens, P. et al.: Radar-enabled recovery of the Sutter's Mill meteorite, a carbonaceous chondrite regolith breccia. *Science* **338**, 1583-1587 (2012)

Kanawati, B., Genest, A.* , Schmitt-Kopplin, P. & Lenoir, D.: Bis-dibenzo[a.i]fluorenylidene, does it exist as stable 1,2-diradical? *J. Mol. Model.* **18**, 5089-5095 (2012)

Kanawati, B., Wanczek, K. P.* , Gebefügi, I. & Schmitt-Kopplin, P.: Prefocusing inside a linear ion beam guide - a SIMION study. *Int. J. Mass Spectrom.* **325**, 25-29 (2012)

Kolben, T. et al.: Dissecting the impact of Frizzled receptors in Wnt/β-catenin signaling of human mesenchymal stem cells. *Biol. Chem.* **393**, 1433-1447 (2012)

Kovacs, K.* , Gáspár, A., Sajgo, C.* , Schmitt-Kopplin, P. & Tombacz, E.*: Comparative study on humic substances isolated in thermal groundwaters from deep aquifers below 700 m. *Geochem. J.* **46**, 211-224 (2012)

Lalaouna, D. et al.: Phenotypic switching in *Pseudomonas brassicacearum* involves GacS- and GacA-dependent Rsm small RNAs. *Appl. Environ. Microbiol.* **78**, 1658-1665 (2012)

Research Unit Analytical BioGeoChemistry

Michalke, B. et al.: Cerium in human milk samples and its transfer from blood to milk: Is there an elevated nutritional risk for breast-fed babies? *Pure Appl. Chem.* **84**, 313-324 (2012)

Mundle, S.O. et al.: Monitoring biodegradation of ethene and bioremediation of chlorinated ethenes at a contaminated site using compound-specific isotope analysis (CSIA). *Environ. Sci. Technol.* **46**, 1731-1738 (2012)

Ofner, J. et al.: Halogenation processes of secondary organic aerosol and implications on halogen release mechanisms. *Atmos. Chem. Phys.* **12**, 5787-5806 (2012)

Pérez-de-Mora, A. et al.: Activity of native hydrolytic enzymes and their association with the cell wall of three ectomycorrhizal fungi. *Mycorrhiza* **23**, 185-197 (2013) [published online 2012]

Perminova, I.V. et al.: Controlling aqueous sorption of humic substances on silica gel by directed alkoxy-silyl-derivatization of their functionalities. *Colloid Surf. A-Physicochem. Eng. Asp.* **396**, 224-232 (2012)

Schmitt-Kopplin, P. et al.: Dissolved organic matter in sea spray: A transfer study from marine surface water to aerosols. *Biogeosciences* **9**, 1571-1582 (2012)

Volland, S.*, Lütz, C.*, Michalke, B. & Lütz-Meindl, U.*: Intracellular chromium localization and cell physiological response in the unicellular alga *Micrasterias*. *Aquat. Toxicol.* **109**, 59-69 (2012)

Wörmann, K. et al.: 'Metabolomics' in der Diabetesforschung. *Diabetologe* **8**, 42-48 (2012)

Yassine, M.M.*, Dabek-Zlotorzynska, E.*, Harir, M. & Schmitt-Kopplin, P.: Identification of weak and strong organic acids in atmospheric aerosols by capillary electrophoresis/mass spectrometry and ultra-high-resolution fourier transform ion cyclotron resonance mass spectrometry. *Anal. Chem.* **84**, 6586-6594 (2012)

Publication List 2012

31.12.2012

* external Authors

Research Unit Comparative Medicine

Emrich, D. et al.: Muscle force development after low-frequency magnetic burst stimulation in dogs.
Muscle Nerve **46**, 954-956 (2012)

Erkert, H.G.*, Fernandez-Duque, E.*, Rotundo, M.* & Scheideler, A.: Seasonal variation of temporal niche in wild owl monkeys (*Aotus azarai azarai*) of the Argentinean chaco: A matter of masking?
Chronobiol. Int. **29**, 702-714 (2012)

Research Unit Environmental Genomics

Bannert, A. et al.: Anaerobic oxidation of methane in grassland soils used for cattle husbandry. *Biogeosciences* **9**, 3891-3899 (2012)

Berry, D. et al.: Phylotype-level 16S rRNA analysis reveals new bacterial indicators of health state in acute murine colitis. *ISME J.* **6**, 2091-2106 (2012)

Birkhofer, K. et al.: General relationships between abiotic soil properties and soil biota across spatial scales and different land-use types. *PLoS One* **7**:e43292 (2012)

Elhottová, D. et al.: Changes in soil microbial communities as affected by intensive cattle husbandry. *Appl. Soil Ecol.* **58**, 56-65 (2012)

Enowashu, E.*, Kandeler, E.*, Schloter, M., Rasche, F.* & Engel, M.: Development of a primer system to study abundance and diversity of the gene coding for alanine aminopeptidase *pepN* gene in gram-negative soil bacteria. *J. Microbiol. Methods* **91**, 14-21 (2012)

Gülland, K. et al.: Mineralisation and leaching of C from ¹³C labelled plant litter along an initial soil chronosequence of a glacier forefield. *Soil Biol. Biochem.* **13**, 237-247 (2013) [published online 2012]

Kautz, T. et al.: Nutrient acquisition from arable subsoils in temperate climates: A review. *Soil Biol. Biochem.* **57**, 1003-1022 (2013) [published online 2012]

Kuffner, M. et al.: Effects of season and experimental warming on the bacterial community in a temperate mountain forest soil assessed by 16S rRNA gene pyrosequencing. *FEMS Microbiol. Ecol.* **82**, 551-562 (2012)

Larionova, A.A. et al.: Distribution of stable carbon isotopes in an agrochernozem during the transition from C₃ vegetation to a corn monoculture. *Eurasian Soil Sci.* **45**, 768-778 (2012)

Müller-Niggemann, C.*, Bannert, A.*, Schloter, M., Lehndorff, E.* & Schwark, L.*: Intra- versus inter-site macroscale variation in biogeochemical properties along a paddy soil chronosequence. *Biogeosciences* **9**, 1237-1251 (2012)

Ollivier, J. et al.: Abundance and diversity of ammonia-oxidizing prokaryotes in the root-rhizosphere complex of *Miscanthus x giganteus* grown in heavy metal-contaminated soils. *Microb. Ecol.* **64**, 1038-1046 (2012)

Schulz, S. et al.: Plant litter and soil type drive abundance, activity and community structure of *alkB* harbouring microbes in different soil compartments. *ISME J.* **6**, 1763-1774 (2012)

Schulz, S. et al.: The influence of the herbicide 2-methyl-4-chlorophenoxyacetic acid (MCPA) on the mineralization of litter-derived alkanes and the abundance of the alkane monooxygenase gene (*alkB*) in the detritosphere of *Pisum sativum* (L.). *Biol. Fertil. Soils* **48**, 933-940 (2012)

Sharma, S.*, Mehta, R.*, Gupta, R.* & Schloter, M.: Improved protocol for the extraction of bacterial mRNA from soils. *J. Microbiol. Methods* **91**, 62-64 (2012)

Publication List 2012

31.12.2012

* external Authors

Research Unit Environmental Genomics

Shchegolikhina, A.* , Schulz, S. & Marschner, B.*: Interacting effects of cation saturation and drying, freezing, or aging on the extractability of nonylphenol and phenanthrene from a sandy soil. *J. Soils Sediments* **12**, 1280-1291 (2012)

Research Unit Gene Vector

Alves, C.C. et al.: Leukemia-initiating cells of patient-derived acute lymphoblastic leukemia xenografts are sensitive toward TRAIL. *Blood* **119**, 4224-4227 (2012)

Andratschke, M. et al.: Biodistribution of ¹³¹I-labeled anti-CK8 monoclonal antibody in HNSCC in xenotransplanted SCID mice. *Anticancer Res.* **31**, 3315-3321 (2011)

Ehrhardt, H. et al.: NOXA as critical mediator for drug combinations in polychemotherapy. *Cell Death Dis.* **3**:e327 (2012)

Fiebiger, B.M., Moosmann, A., Behrends, U. & Mautner, J.: Mature proteins derived from Epstein-Barr virus fail to feed into the MHC class I antigenic pool. *Eur. J. Immunol.* **42**, 3167-3173 (2012)

Grunert, M. et al.: The adaptor protein FADD and the initiator caspase-8 mediate activation of NF- κ B by TRAIL. *Cell Death Dis.* **3**:e414 (2012)

Gündisch, S. et al.: Glucocorticoids augment survival and proliferation of tumor cells. *Anticancer Res.* **32**, 4251-4261 (2012)

Haneklaus, M. et al.: Cutting edge: MiR-223 and EBV miR-BART15 regulate the NLRP3 inflammasome and IL-1 β production. *J. Immunol.* **189**, 3795-3799 (2012)

Höfig, K.P. et al.: Eri1 degrades the stem-loop of oligouridylated histone mRNAs to induce replication-dependent decay. *Nat. Struct. Mol. Biol.* **20**, 73-81 (2013) [published online 2012]

Jochum, S., Ruiss, R.*, Moosmann, A., Hammerschmidt, W. & Zeidler, R.*: RNAs in Epstein-Barr virions control early steps of infection. *Proc. Natl. Acad. Sci. U.S.A.* **109**, E1396-E1404 (2012)

Jochum, S., Moosmann, A., Lang, S.*, Hammerschmidt, W. & Zeidler, R.*: The EBV immunoevasins vIL-10 and BNLF2a protect newly infected B cells from immune recognition and elimination. *PLoS Pathog.* **8**:e1002704 (2012)

Kalla, M., Göbel, C. & Hammerschmidt, W.: The lytic phase of Epstein-Barr virus requires a viral genome with 5-methylcytosine residues in CpG sites. *J. Virol.* **86**, 447-458 (2012)

Martin, L.K., Schub, A., Dillinger, S. & Moosmann, A.: Specific CD8⁺ T cells recognize human herpesvirus 6B. *Eur. J. Immunol.* **42**, 2901-2912 (2012)

Mayer, C.-E., Geerlof, A. & Schepers, A.: Efficient expression and purification of tag-free Epstein-Barr virus EBNA1 protein in *Escherichia coli* by auto-induction. *Protein Expr. Purif.* **86**, 7-11 (2012)

Ohno, S., Steer, B., Sattler, C. & Adler, H.: ORF23 of murine gammaherpesvirus 68 is non-essential for *in vitro* and *in vivo* infection. *J. Gen. Virol.* **93**, 1076-1080 (2012)

Papior, P., Arteaga-Salas, J.M.*, Günther, T.*, Grundhoff, A.* & Schepers, A.: Open chromatin structures regulate the efficiencies of pre-RC formation and replication initiation in Epstein-Barr virus. *J. Cell Biol.* **198**, 509-528 (2012)

Ruiss, R., Ohno, S., Steer, B., Zeidler, R.* & Adler, H.: Murine gammaherpesvirus 68 glycoprotein 150 does not contribute to latency amplification *in vivo*. *Virol. J.* **9**:107 (2012)

Research Unit Gene Vector

Schrader, A. et al.: Global gene expression changes of *in vitro* stimulated human transformed germinal centre B cells as surrogate for oncogenic pathway activation in individual aggressive B cell lymphomas. *Cell Commun. Signal.* **10**:43 (2012)

Shkoda, A. et al.: The germinal center kinase TNIK is required for canonical NF- κ B and JNK signaling in B-cells by the EBV oncoprotein LMP1 and the CD40 receptor. *PLoS Biol.* **10**:e1001376 (2012)

Terziyska, N. et al.: *In vivo* imaging enables high resolution preclinical trials on patients' leukemia cells growing in mice. *PLoS One* **7**:e52798 (2012)

Wöllmer, A., Arteaga-Salas, J.M.* & Hammerschmidt, W.: BZLF1 governs CpG-methylated chromatin of Epstein-Barr virus reversing epigenetic repression. *PLoS Pathog.* **8**:e1002902 (2012)

Research Unit Medical Radiation Physics and Diagnostics

- Afonso, L.C., Schöfer, F., Hoeschen, C. & Caldas, L.V.E.*: Dose sensitivity enhancement on polymer gel with suspended gold particles. *Nukleonika* **57**, 467-472 (2012)
- Bento, J. et al.: Performance assessment and uncertainty evaluation of a portable NaI-based detection system used for thyroid monitoring. *Radiat. Prot. Dosim.* **151**, 252-261 (2012)
- Brunner, C.C., Abboud, S.F.*, Hoeschen, C. & Kyprianou, I.S.*: Signal detection and location-dependent noise in cone-beam computed tomography using the spatial definition of the Hotelling SNR. *Med. Phys.* **39**, 3214-3228 (2012)
- Fedrigo, M., Wenger, A. & Hoeschen, C.: Investigating tomographic reconstruction with *a priori* geometrical information. *J. X-Ray Sci. Technol.* **20**, 1-10 (2012)
- Giussani, A. et al.: A compartmental model for biokinetics and dosimetry of ^{18}F -choline in prostate cancer patients. *J. Nucl. Med.* **53**, 985-993 (2012)
- Giussani, A. & Risica, S.*: Validation of the ICRP model for caesium intake by lactating mothers with Italian data after the Chernobyl fallout. *Environ. Int.* **39**, 122-127 (2012)
- Halbritter, S. et al.: Human breath gas analysis in the screening of gestational diabetes mellitus. *Diabetes Technol. Ther.* **14**, 917-925 (2012)
- Lezius, M. et al.: Radiation induced absorption in rare earth doped optical fibers. *IEEE Trans. Nucl. Sci.* **59**, 425-433 (2012)
- Petoussi-Henss, N., Schlattl, H., Zankl, M., Endo, A.* & Saito, K.*: Organ doses from environmental exposures calculated using voxel phantoms of adults and children. *Phys. Med. Biol.* **57**, 5679-5713 (2012)
- Saito, K.*, Ishigure, N.*, Petoussi-Henss, N. & Schlattl, H.: Effective dose conversion coefficients for radionuclides exponentially distributed in the ground. *Radiat. Environ. Biophys.* **51**, 411-423 (2012)
- Schlattl, H., Zankl, M., Becker, J. & Hoeschen, C.: Dose conversion coefficients for paediatric CT examinations with automatic tube current modulation. *Phys. Med. Biol.* **57**, 6309-6326 (2012)
- Schmid, E.*, Panzer, W., Schlattl, H. & Eder, H.*: Emission of fluorescent x-radiation from non-lead based shielding materials of protective clothing: A radiobiological problem? *J. Radiol. Prot.* **32**, N129-N139 (2012)
- Söderberg, M. et al.: Evaluation of image reconstruction methods for ^{123}I -MIBG-SPECT: A rank-order study. *Acta Radiol.* **53**, 778-784 (2012)
- Tavola, F. et al.: Nonlinear compartmental model of ^{18}F -choline. *Nucl. Med. Biol.* **39**, 261-268 (2012)
- Werncke, T. et al.: Dose-wise scanning in visceral computed tomography angiography: A phantom study. *Invest. Radiol.* **47**, 530-537 (2012)

Publication List 2012

31.12.2012

* external Authors

Research Unit Medical Radiation Physics and Diagnostics

Zankl, M., Schlattl, H., Petoussi-Hens, N. & Hoeschen, C.: Electron specific absorbed fractions for the adult male and female ICRP/ICRU reference computational phantoms. *Phys. Med. Biol.* **57**, 4501-4526 (2012)

Zhang, D. et al.: Peak skin and eye lens radiation dose from brain perfusion CT based on Monte Carlo simulation. *Am. J. Roentgenol.* **198**, 412-417 (2012)

Research Unit Microbe-Plant Interactions

Anderson, A.C. et al.: Comprehensive analysis of secondary dental root canal infections: A combination of culture and culture-independent approaches reveals new insights. *PLoS One* **7**:e49576 (2012)

Hartmann, A. & Schikora, A.*: Quorum sensing of bacteria and trans-kingdom interactions of *N*-Acyl homoserine lactones with eukaryotes. *J. Chem. Ecol.* **38**, 704-713 (2012)

Hochwind, K. et al.: Draft genome sequence of *Lactobacillus casei* W56. *J. Bacteriol.* **194**, (2012)

Huber, C., Bartha, B. & Schröder, P.: Metabolism of diclofenac in plants – hydroxylation is followed by glucose conjugation. *J. Hazard. Mater.* **243**, 250-256 (2012)

Li, D. et al.: Phenotypic variation in *Acidovorax radidis* N35 influences plant growth promotion. *FEMS Microbiol. Ecol.* **79**, 751-762 (2012)

Lyubenova, L. et al.: Localization and quantification of Pb and nutrients in *Typha latifolia* by micro-PIXE. *Metallomics* **4**, 333-341 (2012)

San Miguel, A. et al.: Response of phase II detoxification enzymes in *Phragmites australis* plants exposed to organochlorines. *Environ. Sci. Pollut. Res.* **20**, 3464-3471 (2013) [published online 2012]

Timmers, R.A. et al.: Microbial community structure elucidates performance of *Glyceria maxima* plant microbial fuel cell. *Appl. Microbiol. Biotechnol.* **94**, 537-548 (2012)

Trejo, A. et al.: Recycling waste debris of immobilized microalgae and plant growth-promoting bacteria from wastewater treatment as a resource to improve fertility of eroded desert soil. *Environ. Exp. Bot.* **75**, 65-73 (2012)

Research Unit Molecular Epidemiology

Asselbergs, F.W. et al.: Large-scale gene-centric meta-analysis across 32 studies identifies multiple lipid loci. *Am. J. Hum. Genet.* **91**, 823-838 (2012)

Bauer, M. et al.: Genetic association between obstructive bronchitis and enzymes of oxidative stress. *Metab.-Clin. Exp.* **61**, 1771-1779 (2012)

Billings, L.K. et al.: Impact of common variation in bone-related genes on type 2 diabetes and related traits. *Diabetes* **61**, 2176-2186 (2012)

Chu, A.Y. et al.: Genome-wide association study evaluating lipoprotein-associated phospholipase A2 mass and activity at baseline and after rosuvastatin therapy. *Circ.-Cardiovasc. Genet.* **5**, 676-685 (2012)

Dastani, Z. et al.: Novel loci for adiponectin levels and their influence on type 2 diabetes and metabolic traits: A multi-ethnic meta-analysis of 45,891 individuals. *PLoS Genet.* **8**:e1002607 (2012)

Davies, R.W. et al.: A genome-wide association study for coronary artery disease identifies a novel susceptibility locus in the major histocompatibility complex. *Circ.-Cardiovasc. Genet.* **5**, 217-225 (2012)

Dickhaus, T. et al.: How to analyze many contingency tables simultaneously in genetic association studies. *Stat. Appl. Genet. Mol. Biol.* **11**:12 (2012)

Floegel, A. et al.: Identification of serum metabolites associated with risk of type 2 diabetes using a targeted metabolomic approach. *Diabetes* **62**, 639-648 (2013) [published online 2012]

Föcker, M. et al.: Comparison of metabolic profiles of acutely ill and short-term weight recovered patients with anorexia nervosa reveals alterations of 33 out of 163 metabolites. *J. Psychiatr. Res.* **46**, 1600-1609 (2012)

Fox, C.S. et al.: Genome-wide association for abdominal subcutaneous and visceral adipose reveals a novel locus for visceral fat in women. *PLoS Genet.* **8**:e1002695 (2012)

Frank, B. et al.: Polymorphisms in *MUC1*, *MUC2*, *MUC5B* and *MUC6* genes are not associated with the risk of chronic atrophic gastritis. *Eur. J. Cancer* **48**, 114-120 (2012)

Gerrish, A. et al.: The role of variation at *A β PP*, *PSEN1*, *PSEN2*, and *MAPT* in late onset Alzheimer's disease. *J. Alzheimers Dis.* **28**, 377-387 (2012)

Grallert, H. et al.: Eight genetic loci associated with variation in lipoprotein-associated phospholipase A2 mass and activity and coronary heart disease: Meta-analysis of genome-wide association studies from five community-based studies. *Eur. Heart J.* **33**, 238-251 (2012)

He, Y. et al.: Cell type specificity of signaling: View from membrane receptors distribution and their downstream transduction networks. *Protein Cell* **3**, 701-713 (2012)

He, Y. et al.: dbDEPC 2.0: Updated database of differentially expressed proteins in human cancers. *Nucleic Acids Res.* **40**, D964-D971 (2012)

Research Unit Molecular Epidemiology

Herder, C.* , Roden, M.* , Carstensen, M.* & Illig, T.: Transcriptomics und Typ-2-Diabetes. *Diabetologe* **8**, 35-41 (2012)

Hughes, M.F. et al.: Genetic markers enhance coronary risk prediction in men: The MORGAM prospective cohorts. *PLoS One* **7**:e40922 (2012)

Kormann, M.S. et al.: *CXCR1* and *CXCR2* haplotypes synergistically modulate cystic fibrosis lung disease. *Eur. Respir. J.* **39**, 1385-1390 (2012)

Kriebel, J., Grallert, H. & Illig, T.: Typ-2-Diabetes-assoziierte Gene. *Diabetologe* **8**, 26-34 (2012)

Lattka, E. et al.: Genetic variations in polyunsaturated fatty acid metabolism - implications for child health? *Ann. Nutr. Metab.* **60**, 3, 8-17 (2012)

Lattka, E. et al.: Umbilical cord PUFA are determined by maternal and child fatty acid desaturase (*FADS*) genetic variants in the Avon Longitudinal Study of Parents and Children (ALSPAC). *Br. J. Nutr.* **109**, 1196-1210 (2013) [published online 2012]

Liedén, A. et al.: Genetic variation in the epidermal transglutaminase genes is not associated with atopic dermatitis. *PLoS One* **7**:e49694 (2012)

Mead, S. et al.: Genome-wide association study in multiple human prion diseases suggests genetic risk factors additional to *PRNP*. *Hum. Mol. Genet.* **21**, 1897-1906 (2012)

Melka, M.G. et al.: *FTO*, obesity and the adolescent brain. *Hum. Mol. Genet.* **22**, 1050-1058 (2013) [published online 2012]

Morris, A.P. et al.: Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. *Nat. Genet.* **44**, 981-990 (2012)

Mühlhaus, J. et al.: Do common variants separate between obese melanocortin-4 receptor gene mutation carriers and non-carriers? The impact of cryptic relatedness. *Horm. Res. Paediatr.* **77**, 358-368 (2012)

Müller, T.D. et al.: Fat mass and obesity-associated gene (*FTO*) in eating disorders: Evidence for association of the rs9939609 obesity risk allele with bulimia nervosa and anorexia nervosa. *Obes. Facts* **5**, 408-419 (2012)

Perry, J.R. et al.: Stratifying type 2 diabetes cases by BMI identifies genetic risk variants in *LAMA1* and enrichment for risk variants in lean compared to obese cases. *PLoS Genet.* **8**:e1002741 (2012)

Polonikov, A. et al.: Genetic variation in glutathione s-transferase genes and risk of nonfatal cerebral stroke in patients suffering from essential hypertension. *J. Mol. Neurosci.* **47**, 511-513 (2012)

Polonikov, A.V. et al.: The C718T polymorphism in the 3'-untranslated region of glutathione peroxidase-4 gene is a predictor of cerebral stroke in patients with essential hypertension. *Hypertens. Res.* **35**, 507-512 (2012)

Publication List 2012

* external Authors

Research Unit Molecular Epidemiology

Rebane, A. et al.: Mechanisms of IFN- γ -induced apoptosis of human skin keratinocytes in patients with atopic dermatitis. *J. Allergy Clin. Immunol.* **129**, 1297-1306 (2012)

Scherag, A. et al.: *SDCCAG8* obesity alleles and reduced weight loss after a lifestyle intervention in overweight children and adolescents. *Obesity* **20**, 466-470 (2012)

Schmied, M.C. et al.: Replication study of Multiple Sclerosis (MS) susceptibility alleles and correlation of DNA-variants with disease features in a cohort of Austrian MS patients. *Neurogenetics* **13**, 181-187 (2012)

Toncheva, A.A. et al.: Genetic variants in *Protocadherin-1*, bronchial hyper-responsiveness, and asthma subphenotypes in German children. *Pediatr. Allergy Immunol.* **23**, 636-641 (2012)

Tsoi, L.C. et al.: Identification of 15 new psoriasis susceptibility loci highlights the role of innate immunity. *Nat. Genet.* **44**, 1341-1348 (2012)

Wahl, S. et al.: Childhood obesity is associated with changes in the serum metabolite profile. *Obes. Facts* **5**, 660-670 (2012)

Wang-Sattler, R. et al.: Novel biomarkers for pre-diabetes identified by metabolomics. *Mol. Syst. Biol.* **8**:615 (2012)

Winkler, C., Raab, J.*, Grallert, H. & Ziegler, A.-G.: Lack of association of type 2 diabetes susceptibility genotypes and body weight on the development of islet autoimmunity and type 1 diabetes. *PLoS One* **7**:e35410 (2012)

Yu, Z. et al.: Human serum metabolic profiles are age dependent. *Aging Cell* **11**, 960-967 (2012)

Research Unit Protein Science

- Amann, B. et al.: True blue: S-opsin is widely expressed in different animal species. *J. Anim. Physiol. Anim. Nutr.*, DOI:10.1111/jpn.12016 (2012)
- Braun, P. & Gingras, A.C.*: History of protein-protein interactions: From egg-white to complex networks. *Proteomics* **12**, 1478-1498 (2012)
- Braun, P.: Interactome mapping for analysis of complex phenotypes: Insights from benchmarking binary interaction assays. *Proteomics* **12**, 1499-1518 (2012)
- Degroote, R.L. et al.: Altered expression of talin 1 in peripheral immune cells points to a significant role of the innate immune system in spontaneous autoimmune uveitis. *J. Proteomics* **75**, 4536-4544 (2012)
- Dong, G. et al.: Calretinin interacts with huntingtin and reduces mutant huntingtin-caused cytotoxicity. *J. Neurochem.* **123**, 437-446 (2012)
- Dong, G.F.*, Callegari, E.*, Gloeckner, C.J., Ueffing, M. & Wang, H.M.*: Mass spectrometric identification of novel posttranslational modification sites in huntingtin. *Proteomics* **12**, 2060-2064 (2012)
- Griciuc, A., Aron, L.* & Ueffing, M.: Looking into eyes: Rhodopsin pathologies in *Drosophila*. *Adv. Exp. Med. Biol.* **723**, 415-423 (2012)
- Gündisch, S. et al.: Variability of protein and phosphoprotein levels in clinical tissue specimens during the preanalytical phase. *J. Proteome Res.* **11**, 5748-5762 (2012)
- Han, Y. et al.: Proteomic investigation of the interactome of FMNL1 in hematopoietic cells unveils a role in calcium-dependent membrane plasticity. *J. Proteomics* **78**, 72-82 (2013) [published online 2012]
- Hauck, S.M. et al.: Label-free LC-MSMS analysis of vitreous from autoimmune uveitis reveals a significant decrease in secreted Wnt signalling inhibitors DKK3 and SFRP2. *J. Proteomics* **75**, 4545-4554 (2012)
- Merl, J., Ueffing, M., Hauck, S.M. & von Toerne, C.: Direct comparison of MS-based label-free and SILAC quantitative proteome profiling strategies in primary retinal Müller cells. *Proteomics* **12**, 1902-1911 (2012)
- Schäfer, A. et al.: Two-dimensional peptide separation improving sensitivity of selected reaction monitoring-based quantitative proteomics in mouse liver tissue: Comparing off-gel electrophoresis and strong cation exchange chromatography. *Anal. Chem.* **84**, 8853-8862 (2012)
- Swadzba, M.E.*, Hauck, S.M., Naim, H.Y.*, Amann, B.* & Deeg, C.A.*: Retinal glycoprotein enrichment by concanavalin A enabled identification of novel membrane autoantigen synaptotagmin-1 in equine recurrent uveitis. *PLoS One* **7**:e50929 (2012)
- Swadzba, M.E.*, Hirmer, S.*, Amann, B.*, Hauck, S.M. & Deeg, C.A.*: Vitreal IgM autoantibodies target neurofilament medium in a spontaneous model of autoimmune uveitis. *Invest. Ophthalmol. Vis. Sci.* **53**, 294-300 (2012)

Publication List 2012

31.12.2012

* external Authors

Research Unit Protein Science

Szober, C.M. et al.: Profound re-organization of cell surface proteome in equine retinal pigment epithelial cells in response to *in vitro* culturing. *Int. J. Mol. Sci.* **13**, 14053-14072 (2012)

Texier, Y.* , Kinkl, N.* , Boldt, K.* & Ueffing, M.: From quantitative protein complex analysis to disease mechanism. *Vision Res.* **75**, 108-111 (2012)

Treutlein, G. et al.: Novel potential interacting partners of fibronectin in spontaneous animal model of interstitial cystitis. *PLoS One* **7**:e51391 (2012)

Zipplies, J.K. et al.: Miscellaneous vitreous-derived IgM antibodies target numerous retinal proteins in equine recurrent uveitis. *Vet. Ophthalmol.* **15**, 57-64 (2012)

Research Unit Radiation Cytogenetics

Baumhoer, D. et al.: MicroRNA profiling with correlation to gene expression revealed the oncogenic miR-17-92 cluster to be up-regulated in osteosarcoma. *Cancer Genet.* **205**, 212-219 (2012)

Ekino, S. et al.: The origin of IgG-containing cells in the bursa of Fabricius. *Cell Tissue Res.* **348**, 537-550 (2012)

Greve, B. et al.: Evaluation of different biomarkers to predict individual radiosensitivity in an inter-laboratory comparison - lessons for future studies. *PLoS One* **7**:e47185 (2012)

Heiliger, K.-J. et al.: Novel candidate genes of thyroid tumourigenesis identified in *Trk-T1* transgenic mice. *Endocr.-Relat. Cancer* **19**, 409-421 (2012)

Kremser, A. et al.: Combined immunophenotyping and fish ('Fish-Ipa') with chromosome-specific DNA-probes allows the quantification and differentiation of ex vivo generated dendritic cells (DC), leukemia-derived DC and clonal leukemic cells in patients with AML. *Leuk. Lymphoma* **54**, 1297-1308 (2013) [published online 2012]

van Wieringen, W.N. et al.: Matching of array CGH and gene expression microarray features for the purpose of integrative genomic analyses. *BMC Bioinformatics* **13**:80 (2012)

Publication List 2012

31.12.2012

* external Authors

Research Unit Stem Cell Dynamics

Chambers, I.* & Schroeder, T.: Stem cell powwow in Squaw Valley. *Development* **139**, 2457-2461 (2012)

Endele, M. & Schroeder, T.: Molecular live cell bioimaging in stem cell research. *Ann. NY Acad. Sci.* **1266**, 18-27 (2012)

Kokkaliaris, K.D., Loeffler, D. & Schroeder, T.: Advances in tracking hematopoiesis at the single-cell level. *Curr. Opin. Hematol.* **19**, 243-249 (2012)

Rieger, M.A.* & Schroeder, T.: Hematopoiesis. *Cold Spring Harbor Perspect. Biol.* **4**:a008250 (2012)