

# Veröffentlichungen 2010

des Helmholtz-Zentrums für Umweltforschung GmbH – UFZ

Forschungsbereich Gesundheit

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## Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2010 erschienenen Publikationen des Forschungsbereichs Gesundheit, die von Mitarbeitern der Helmholtz-Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden. Außerdem sind hier die Nachmeldungen von 2009 aufgeführt.

Redaktionsschluss für diese Publikationsliste war der 28. Juni 2011.

Im Unterschied zu externen Autoren sind UFZ Angehörige bei allen Publikationen durch **fette Schrift** hervorgehoben.

Das anschließende alphabetische Register verzeichnet alle UFZ Autoren mit den jeweiligen laufenden Nummern ihrer Publikationen.

Bei den Publikationen aus Zeitschriften mit Impact Factor (IF) werden diese mit aufgeführt. Der IF wird berechnet durch Division der Anzahl der Zitate von Aufsätzen der Zeitschrift durch die Gesamtzahl an Aufsätzen der Zeitschrift in den letzten zwei Jahren. Um einen Impact Factor zu erhalten muss die Zeitschrift im Scientific Citation Index gelistet sein.

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## Zeitschriften mit Impact Factor

1. Binder, H., **Wirth, H.**, Galle, J. (2010):  
Gene expression density profiles characterize modes of genomic regulation:  
theory and experiment  
*J.Biotechnol.* **149** (3), 98 - 114  
Impact Factor: 2.881
2. Bohnkamp, J., Bösel, I., Saalbach, A., Tönjes, A., Kovacs, P., Biebermann, H.,  
Manvelyan, H.M., **Polte, T.**, Gasperikova, D., Lkhagvasuren, S., Baier, L.,  
Stumvoll, M., Römpler, H., Schöneberg, T. (2010):  
Involvement of the chemokine- like receptor GPR33 in innate immunity  
*Biochem.Biophys.Res.Commun.* **396** (2), 272 - 277  
Impact Factor: 2.548
3. Brandsch, C., Kappis, D., **Weisse, K.**, Stangl, G.I. (2010):  
Effects of untreated and thermally treated lupin protein on plasma and liver lipids  
of rats fed a hypercholesterolemic high fat or high carbohydrate diet  
*Plant Foods for Human Nutrition* **65** (4), 410 - 416  
Impact Factor: 2.016
4. Brandsch, C., Schmidt, T., Behn, D., **Weisse, K.**, Mueller, A.S., Stangl, G.I.  
(2010):  
Glutathione deficiency down- regulates hepatic lipogenesis in rats  
*Lipids in Health and Disease* **9:50** ,  
Impact Factor: 2.141
5. Bruegel, M., Planert, M., **Baumann, S.**, Focke, A., Bergh, F.T., Leichtle, A.,  
Ceglarek, U., Thiery, J., Fiedler, G.M. (2009):  
Standardized peptidome profiling of human cerebrospinal fluid by magnetic bead  
separation and matrix- assisted laser desorption/ ionization time- of- flight mass  
spectrometry  
*Journal of Proteomics* **72** (4), 608 - 615  
Impact Factor: -
6. Cramer, C., Link, E., Horster, M., Koletzko, S., Bauer, C.P., Berdel, D., von Berg,  
A., **Lehmann, I.**, **Herbarth, O.**, **Borte, M.**, Schaaf, B., Behrendt, H., **Chen, C.**,  
Sausenthaler, S., Illig, T., Wichmann, H.E., Heinrich, J., Krämer, U. (2010):  
Elder siblings enhance the effect of filaggrin mutations on childhood eczema:  
results from the 2 birth cohort studies LISApplus and GINIplus  
*J.Allergy Clin.Immunol.* **125** (6), 1254 - 1260  
Impact Factor: 9.165

7. Elitok, S., **Trump, S.**, Hampl, H., Leibfritz, D., Kettritz, R., Luft, F.C. (2010):  
Recurrent metabolic acidosis in a dialysis patient  
*Kidney International* **78** (2), 425 - 426  
Impact Factor: 6.193
8. Elitok, S., **Trump, S.**, Hampl, H., Leibfritz, D., Kettritz, R., Luft, F.C. (2010):  
The Case. Recurrent metabolic acidosis in a dialysis patient  
*Kidney International* **78** , 425 - 426  
Impact Factor: 6.193
9. **Faisal, S.**, Lichtenberg, G., **Trump, S.**, **Attinger, S.** (2010):  
Structural properties of continuous representations of Boolean functions for gene network modelling  
*Automatica* **46** (12), 2047 - 2052  
Impact Factor: 2.631
10. **Faisal, S.**, Lichtenberg, G., **Trump, S.**, **Attinger, S.** (2010):  
Structural Properties of Continuous Representations of BooleanFunctions for Gene NetworkModeling  
*Automatica* **46** (12), 2047 - 2052  
Impact Factor: 2.631
11. **Feltens, R.**, Görner, R., **Kalkhof, S.**, **Gröger- Arndt, H.**, **von Bergen, M.** (2010):  
Discrimination of different species from the genus *Drosophila* by intact protein profiling using matrix- assisted laser desorption ionization mass spectrometry  
*BMC Evol.Biol.* **10:95** ,  
Impact Factor: 4.294
12. **Feltens, R.**, **Mögel, I.**, **Röder- Stolinski, C.**, Simon, J.- C., **Herberth, G.**, **Lehmann, I.** (2010):  
Chlorobenzene induces oxidative stress in human lung epithelial cells *in vitro*  
*Toxicology and Applied Pharmacology* **242** (1), 100 - 108  
Impact Factor: 3.359
13. Georgieva, D., Redecke, L., **von Bergen, M.**, Genov, N., Betzel, C. (2010):  
Interactions of ginkgolides A and B with a recombinant human prion protein  
*Protein and Peptide Letters* **17** (3), 399 - 404  
Impact Factor: 1.755
14. Heinrich, U.- R., Selivanova, O., Schmidtman, I., **Feltens, R.**, Brieger, J., Mann, W.J. (2010):  
Noise exposure alters cyclooxygenase 1 (COX-1) and 5- lipoxygenase (5- LO) expression in the guinea pig cochlea  
*Acta Oto- Laryngologica* **130** (3), 358 - 365  
Impact Factor: 0.984

15. **Herberth, G.**, Daegelmann, C., **Röder, S.**, Behrendt, H., Krämer, U., **Borte, M.**, Heinrich, J., **Herbarth, O.**, **Lehmann, I.** (2010):  
IL-17E but not IL-17A is associated with allergic sensitization: results from the LISA study  
*Pediatr.Allergy Immunol.* **21** (7), 1086 - 1090  
Impact Factor: 2.676
  
16. **Herberth, G.**, Heinrich, J., **Röder, S.**, Figl, A., Weiss, M., Diez, U., **Borte, M.**, **Herbarth, O.**, **Lehmann, I.** (2010):  
Reduced IFN- $\gamma$ - and enhanced IL-4- producing CD4<sup>+</sup> cord blood T cells are associated with a higher risk for atopic dermatitis during the first 2 yr of life  
*Pediatr.Allergy Immunol.* **21** (1, Part- I), 5 - 13  
Impact Factor: 2.676
  
17. **Herberth, G.**, **Roder, S.**, Bockelbrink, A., Schafer, T., **Borte, M.**, **Herbarth, O.**, Kramer, U., Behrendt, H., Sausenthaler, S., Heinrich, J., **Lehmann, I.** (2010):  
Stressful life events in childhood and allergic sensitisation  
*Allergologie* **33** (2), 55 - 65  
Impact Factor: 0.12
  
18. **Herberth, G.**, **Röder, S.**, Bockelbrink, T., **Schäfer, T.**, **Borte, M.**, **Herbarth, O.**, Krämer, U., Behrendt, H., Sausenthaler, S., Heinrich, J., **Lehmann, I.** (2010):  
Psychosozialer Stress im Kindesalter und allergische Sensibilisierung  
*Allergologie* **33** (2), 55 - 65  
Impact Factor: 0.12
  
19. **Hinz, D.**, Simon, J.C., Maier- Simon, C., Milkova, L., **Röder, S.**, Sack, U., **Borte, M.**, **Lehmann, I.**, **Herberth, G.** (2010):  
Reduced maternal regulatory T cell numbers and increased T helper type 2 cytokine production are associated with elevated levels of immunoglobulin E in cord blood  
*Clin.Exp.Allergy* **40** (3), 419 - 426  
Impact Factor: 4.084
  
20. **Kalkhof, S.**, Haehn, S., Paulsson, M., Smyth, N., Meiler, J., Sinz, A. (2010):  
Computational modeling of laminin N- terminal domains using sparse distance constraints from disulfide bonds and chemical cross- linking  
*Proteins* **78** (16), 3409 - 3427  
Impact Factor: 3.085
  
21. **Kalkhof, S.**, Witte, K., Ihling, C.H., Müller, M.Q., Keller, M.V., Haehn, S., Smyth, N., Paulsson, M., Sinz, A. (2010):  
A novel disulfide pattern in laminin- type epidermal growth factor- like (LE) modules of laminin  $\beta$ 1 and  $\alpha$ 1 chains  
*Biochem.* **49** (38), 8359 - 8366  
Impact Factor: 3.226

22. Kleinschek, M.A., Müller, U., **Schütze, N.**, Sabat, N., Straubinger, R.K., Blumenschein, W.M., McClanahan, T., Kastelein, R.A., Alber, G. (2010): Administration of IL-23 engages innate and adaptive immune mechanisms during fungal infection  
*International Immunology* **22** (2), 81 - 90  
Impact Factor: 3.403
23. Kung, J.W., **Baumann, S., von Bergen, M.**, Müller, M., Hagedoorn, P.- L., Hagen, W.R., Boll, M. (2010): Reversible biological Birch reduction at an extremely low redox potential  
*J.Am.Chem.Soc.* **132** (28), 9850 - 9856  
Impact Factor: 8.58
24. **Loos, M.**, Schipper, A.M., **Schlink, U.**, Strebel, K., Ragas, A.M.J. (2010): Receptor- oriented approaches in wildlife and human exposure modelling: a comparative study  
*Environ.Modell.Softw.* **25** (4), 369 - 382  
Impact Factor: 3.085
25. **Massolo, L., Rehwagen, M., Porta, A., Ronco, A., Herbarth, O., Mueller, A.** (2010): Indoor- outdoor distribution and risk assessment of volatile organic compounds in the atmosphere of industrial and urban areas  
*Environ.Toxicol.* **25** (4), 339 - 349  
Impact Factor: 1.831
26. Picotti, P., Rinner, O., Stallmach, R., **Dautel, F.**, Farrah, T., Domon, B., Wenschuh, H., Aebersold, R. (2010): High- throughput generation of selected reaction- monitoring assays for proteins and proteomes  
*Nature Methods* **7** , 43 - 46  
Impact Factor: 16.874
27. Saalbach, A., Klein, C., **Schirmer, C.**, Briest, W., Anderegg, U., Simon, J.- C. (2010): Dermal fibroblasts promote the migration of dendritic cells  
*Journal of Investigative Dermatology* **130** (2), 444 - 454  
Impact Factor: 5.543
28. **Schirmer, C.**, Klein, C., **von Bergen, M.**, Simon, J.- C., Saalbach, A. (2010): Human fibroblasts support the expansion of IL-17- producing T cells via up- regulation of IL-23 production by dendritic cells  
*Blood* **116** (10), 1715 - 1725  
Impact Factor: 10.555

29. **Schlink, U.**, Strebel, K., **Loos, M.**, **Tuchscherer, R.**, **Richter, M.**, Lange, T., **Wernicke, J.**, **Ragas, A.** (2010):  
Evaluation of human mobility models, for exposure to air pollutants  
*Sci.Total Environ.* **408** (18), 3918 - 3930  
Impact Factor: 2.905
30. **Schlink, U.**, Thiem, A. (2010):  
Non- negative Matrix Factorization for the identification of patterns of atmospheric pressure and geopotential for the Northern Hemisphere  
*International Journal of Climatology* **30** (6), 909 - 925  
Impact Factor: 2.347
31. **Schlink, U.**, Thiem, A., **Kohajda, T.**, **Richter, M.**, Strebel, K. (2010):  
Quantile regression of indoor air concentrations of volatile organic compounds (VOC)  
*Sci.Total Environ.* **408** (18), 3840 - 3851  
Impact Factor: 2.905
32. Schnabel, E., Sausenthaler, S., Schaaf, B., **Schäfer, T.**, **Lehmann, I.**, Behrendt, H., **Herbarth, O.**, **Borte, M.**, Krämer, U., von Berg, A., Wichmann, H.E., Heinrich, J. (2010):  
Prospective association between food sensitization and food allergy: results of the LISA birth cohort study  
*Clin.Exp.Allergy* **40** (3), 450 - 457  
Impact Factor: 4.084
33. **Schütze, N.**, **Lehmann, I.**, **Bönisch, U.**, Simon, J.- C., **Polte, T.** (2010):  
Exposure to mycotoxins increases the allergic immune response in a murine asthma model  
*Am.J.Respir.Crit.Care Med.* **181** (11), 1188 - 1199  
Impact Factor: 10.689
34. **Schütze, N.**, Raube, R., Büttner, M., Köhler, G., McInnes, C.J., Alber, G. (2010):  
Specific antibodies induced by inactivated parapoxvirus ovis potently enhance oxidative burst in canine blood polymorphonuclear leukocytes and monocytes  
*Veterinary Microbiology* **140** (1-2), 81 - 91  
Impact Factor: 2.874
35. **Schütze, N.**, Raue, R., Büttner, M., Alber, G. (2010):  
Inactivated parapoxvirus ovis activates canine blood phagocytes and T lymphocytes  
*Veterinary Microbiology* **137** (3-4), 260 - 267  
Impact Factor: 2.874

36. Slama, R., **Gräbsch, C.**, Lepeule, J., Siroux, V., Cyrus, J., Sausenthaler, S., **Herbarth, O.**, **Bauer, M.**, **Borte, M.**, Wichmann, H.E., Heinrich, J. (2010):  
Maternal fine particulate matter exposure, polymorphism in xenobiotic-metabolizing genes and offspring birth weight  
*Reproductive Toxicology* **30** (4), 600 - 612  
Impact Factor: 3.367
37. Strebel, K., **Rolle-Kampczyk, U.**, **Richter, M.**, **Kindler, A.**, Richter, T., **Schlink, U.** (2010):  
A rigorous small area modelling- study for the helicobacter pylori epidemiology  
*Sci.Total Environ.* **408** (18), 3931 - 3942  
Impact Factor: 2.905
38. **Weisse, K.**, Brandsch, C., Hirche, F., Eder, K., Stangl, G.I. (2010):  
Lupin protein isolate and cysteine- supplemented casein reduce calcification of atherosclerotic lesions in apoE- deficient mice  
*British Journal of Nutrition* **103** (2), 180 - 188  
Impact Factor: 3.446
39. **Weisse, K.**, Brandsch, C., Zernsdorf, B., Nkengfack Nembongwe, G.S., Hofmann, K., Eder, K., Stangl, G. (2010):  
Lupin protein compared to casein lowers the LDL cholesterol:HDL cholesterol-ratio of hypercholesterolemic adults  
*European Journal of Nutrition* **49** (2), 65 - 71  
Impact Factor: 2.866



## Zeitschriften ohne Impact Factor

40. **Matysik, S.**, Ramadan, A.B., **Schlink, U.** (2010):  
Spatial and temporal variation of outdoor and indoor exposure of volatile organic  
compounds in Greater Cairo  
*Atmospheric Pollution Research* **1** (2), 94 - 101

## Bücher, Buchbeiträge und Buchherausgaben

41. **Müller, A., Wichmann, G., Massolo, L., Porta, A., Schlink, U., Ronco, A., Herbarth, O.** (2009):  
Risk assessment of airborne particles and volatile organic compounds from industrial areas  
In: Newbury, H., De Lorne, W. (Hrsg.)  
*Industrial pollution including oil spills*  
Air, water and soil pollution science and technology series  
Nova Science Publ., New York, S. 101 - 144
  
42. Tovalin, H., **Herbarth, O.**, Sierra- Vargas, M.P., Strandberg, B., Blanco, S., Vega, L., Sioutas, C., Hicks, J.J., Marroquín, R., Acosta, G., Guarneros, M., Hernández, V., Estrada- Muñiz, E., Olivares, I.M., Pérez, D.A., Torres- Ramos, Y.D., **Franck, U.**, Hudson, R., Reyes, E., Rodríguez, T., Elizondo, G., Cantellano, E. (2010):  
Air pollutants exposure and health effects during the MILAGRO- MCMA 2006 Campaign  
In: Gurjar, B.R., Molina, L.T., Ojha, C.S. (Hrsg.)  
*Air Pollution. Health and Environmental Impacts*  
CRC Press, Boca Raton, S. 203 - 227

## Berichte

43. **Petrescu, C.**, Suciu, O., Inovici, R., **Herbarth, O.**, Frank, U., **Schlink, U.** (2010):  
Respiratory health effects of air pollution and climate in an exposed population:  
long- and short- term study  
In: Andea, P., Kilyeni, S., Nicoara, M. (Hrsg.)  
*Selected Topics in Energy, Environment, Sustainable Development and  
Landscaping. 6th WSEAS International Conference on Energy, Environment,  
Ecosystems and Sustainable Development (EEESD '10); 3rd WSEAS  
International Conference on Landscape Architecture (LA '10), Politehnica  
University of Timisoara, Romania; October 21-23, 2010*  
WSEAS Press, Timisoara, S. 95 - 100

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