

Prof. Dr. Stefan Wölfel



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SCIENTIFIC VITA

2003 - present	Professor Pharmaceutical Biology, Bioanalytics and Molecular Biology, IPMB, Ruprecht-Karls-Universität Heidelberg
2000-2003	Head Research Group Molecular Biology, Klinik für Innere Medizin, Friedrich-Schiller-Universität Jena
1999	Habilitation in Molecular Biology
1998/99	Thüringer-Forschungspreis 1998
1994-2000	Junior Group Leader, Hans-Knöll-Institut für Naturstoffforschung Jena
1990-1994	PostDoc, Massachusetts Institute of Technology, Cambridge, USA (Advisor: Alexander Rich)
1986-1990	Graduate Student (PhD in Biochemistry, Advisor: Burghardt Wittig), Freie Universität Berlin
1984-1985	Practical Year as Pharmacist (Pharmacy and Pharmaceutical Industry; Rosenheim and Herrenberg)
1981-1984	Student of Pharmacy, Freie Universität Berlin
1979-1980	Student of Physics, Ludwig-Maximilians-Universität München

COORDINATING FUNCTIONS, OTHER PROFESSIONAL ACTIVITIES

2002-2005	Coordination of clinical projects within the Jena Center for Bioinformatics
2001-2002	Scientific coordinator, construction of new Clinical Research Center Jena
1998	Cofounder: Clondiag Chip Technologies GmbH Jena
1990	Fachapotheker für Offizin Pharmacy
1985-1990	Pharmacist in Public Pharmacy (since 1986 part time)

FIELDS OF INTEREST

Development of methods for bioanalytics, e.g. micro-array and microsystems technologies; use of chip technologies for diagnostic applications; cellular biosensors for drug testing and environmental analysis, e.g. for identification of genotoxic activities; gene regulation in mammalian cells in disease models, e.g. tumor development, and during differentiation; influence of basic biochemical processes on DNA-damage and stress response.

CURRENTLY FUNDED PROJECTS

DFG-project within FOR630: "Wirkstoffprüfung und Targetidentifizierung neuartiger organometallischer und bioorganischer Verbindungen"; BMBF-Network „Rolle of nutritional factors in the development of intestinal diseases and prevention through nutrition" TP1.4;

BMBF/EU-SysMo: Energy and *Saccharomyces cerevisiae*, WP4.3 "Influence of energy metabolism on DNA damage response"

PUBLICATIONS (10 selected publications since 2002)

Gaube F, **Wolfl S**, Pusch L, Kroll TC, Hamburger M. (2007) Gene expression profiling reveals effects of *Cimicifuga racemosa* (L.) NUTT. (black cohosh) on the estrogen receptor positive human breast cancer cell line MCF-7. *BMC Pharmacology* 7(1):11 [Epub ahead of print]

Hoffmann M, Pohlers D, Koczan D, Thiesen HJ, **Wolfl S**, Kinne RW (2006) Robust computational reconstitution - a new method for the comparative analysis of gene expression in tissues and isolated cell fractions. *BMC Bioinformatics* 7: 369.

Kitanovic A, **Wolfl S** (2006) Fructose-1,6-bisphosphatase mediates cellular responses to DNA damage and aging in *Saccharomyces cerevisiae*. *Mutat Res.* 594(1-2): 135-47.

Pool-Zobel BL, Selvaraju V, Sauer J, Kautenburger T, Kiefer J, Richter KK, Soom M, **Wolfl S**. (2005) Butyrate may enhance toxicological defence in primary, adenoma and tumor human colon cells by favourably modulating expression of glutathione S-transferases genes, an approach in nutrigenomics. *Carcinogenesis*. 6(6):1064-76

Wolfl S, Burchert A, Kroll TC.

(2004) Monitoring therapy with gene expression profiling reveals physiological differences in drug action. *Curr Pharm Des.* 10:1959-68.

Goremykin VV, Hirsch-Ernst KI, **Wolfl S**, Hellwig FH.

(2004) The Chloroplast Genome of *Nymphaea alba*, Whole Genome Analyses and the Problem of Identifying the Most Basal Angiosperm. *Mol Biol Evol.* 21:1445-54.

Burchert, A, **Wolfl S**, Schmidt M, Brendel C, Dennecke B, Cai D, Odynova L, Lahaye T, Müller M, Berg T, Gschaidmeier H, Wittig B, Hehlmann R, Hochhaus A, Neubauer A (2003) Interferon γ , but not the ABL-kinase inhibitor imatinib (ST1571), induces expression of myeloblastin and a specific T-cell response in chronic myeloid leukemia. *Blood.* 101:259-264.

Goremykin VV, Hirsch-Ernst KI, **Wolfl S**, Hellwig FH. (2003) Analysis of the *Amborella trichopoda* Chloroplast Genome Sequence Suggests That *Amborella* Is Not a Basal Angiosperm. *Mol Biol Evol.* 20:1499-1505.

Kroll T, **Wolfl S** (2002) Ranking: a closer look on globalisation methods for normalisation of gene expression arrays. *Nucleic Acids Research*, 30:e50.

Kroll T, Odyvanova L, Clement JH, Platzer C, Naumann A, Marr N, Höffken K, **Wolfl S**

(2002) Molecular characterization of four breast cancer cell lines by expression profiling. *J. Cancer Research and Clinical Oncology*, 128:125-134.