

Curriculum Vitae

Last name, First name: Dr. Bernauer, Ulrike

Gender: female

Nationality: German

Overall Scientific Expertise:

Educational Background: Chemist, Doctorate in Biochemical Toxicology

Preparation of Risk Assessment Reports within the EU Existing Chemicals Program and Assessment of New Chemical Substances according to 93/67/EEC and EC 1488/94.

Research contributing to an improved Risk Assessment of Chemicals

Main Focus: Metabolism and Toxicokinetics Interspecies and interindividual variability, reproductive toxicology, (Q)SAR, PBPK modelling.

Alternative Methods, Development of integrated testing strategies (ITS).

Participation in Risk Assessments of Substances of public relevance (e.g. Formaldehyde, Acrylamide, Perfluorooctanesulfonic acid (PFOA)), Participation in REACH implementation projects; National Expert for several activities within the OECD Testguideline program, Participation in activities of the German UAIH (Panel on hazardous chemicals of the German Federal Ministry of Labour and Social Affairs).

Risk assessment of cosmetic ingredients.

Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation
01/04 - today	Scientific employee/scientific civil servant	Federal Institute for Risk Assessment (BfR), Berlin, Germany	Risk Assessment of new and existing chemicals, implementation of REACH, assessment of Chemicals under REACH Metabolism, Toxicokinetics
10/1997 – 12/2003	Scientific employee	Federal Institute for Risk Assessment (BfR) (formerly called BgVV)	Responsibility for Research Projects related to Risk Assessment of Chemicals (intra- and interspecies variability of metabolising enzymes; <i>in vitro</i> methods (genetically modified cells), extrahepatic metabolism, instrumental analytics)
08/1996 – 09/1997	Scientific employee (Postdoctorate)	University of Wurzburg, Department Toxicology	Interspecies comparison of the biotransformation of fuel additives (MTBE, ETBE and TAME) between rats and humans (Metabolism, toxicokinetics, GC- and HPLC analytics)

Educational Background

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation
1996 - 1996		Postdoctorate, University of Wurzburg, Germany (Department of Toxicology)	Xenobiotic metabolism, analytical toxicology
1993 - 1996	Dr. rer. nat.	Doctorate, University of Wurzburg (Department of Toxicology)	Biochemical and analytical toxicology, biomarkers, protein biochemistry, enzymology
1987 - 1993	Dipl. Chem.	University of Wurzburg, Department of Chemistry (Diploma thesis performed at the department of toxicology) Chemistry studies	Organic chemistry, physical chemistry, inorganic chemistry, biochemistry, toxicology, physics, mathematics

Memberships in Scientific Advisory Bodies/Committees/Panels:

- Member of UAIII of the AGS (Panel on hazardous chemicals of the German Federal Ministry of Labour and Social Affairs), 2010 – present
- Member of the Scientific Committee for Consumer Safety (SCCS), 2009 - 2013
- Member of the German “Expertenkreis Humanbiomonitoring” (Body of experts for human biomonitoring) of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, 2010 - present
- Member of the OECD expert group Skin irritation/ corrosion (Leadership: Germany), 2008 - present
- Member of the OECD expert group on the update of OECD Testguideline 417 (Toxicokinetics) under leadership of the United States, 2006 - 2010
- Member of the ad-hoc working group of the UA III of the AGS ((Panel on hazardous chemicals of the German Federal Ministry of Labour and Social Affairs)) on the risk assessment of formaldehyde, 2008 - 2013
- Member of the Working Group on the report on alternative (non-animal) methods for cosmetics testing: current status and future prospects – 2010.
- Appointed expert of the ECHA (European Chemicals Agency, Helsinki, Finland) in the area of Toxicology (Toxicokinetics, Metabolism, Alternative testing methods) and QSAR (QSAR general, QSAR grouping/category of substances).

Memberships in Learned Societies:

- Member of the German DGPT (German society for clinical and experimental pharmacology and toxicology) and GT (Society of toxicology) and member of two working groups within this society: 1) Working group on xenobiotic metabolism and 2) working group on regulatory toxicology
- Member of the EUROTOX Risk Assessment Specialty Group

List of Publications:

Type and total number of publications

- 26 Scientific Publications in peer-reviewed journals (first-author in 10 publications)
- 2 Research reports concerning xenobiotic metabolism
- 2 book chapters
- 2 publications in non-peer-reviewed journals

- Co-author of an OECD publication
- Co-author of an EFSA Publication
- 35 Poster / Conference Abstracts
- SCCS opinions

Bibliographic details for the 7 most representative, peer-reviewed articles

Adler S, Basketter D, Creton S, Pelkonen O, van, Benthem J, **Bernauer U** et al. (2011): Alternative (non-animal) methods for cosmetics testing: current status and future prospects - 2010. Arch. Toxicol. 85(5), 367-485.

Coecke, S., Pelkonen, O., Leite, S.B., **Bernauer, U.**, Bessems, J., Bois, F.Y., Ursula Gundert-Remy, U., Loizou, G., Testai, E., Zaldívar, J.M. (2012): Toxicokinetics as a key to the integrated toxicity risk assessment based primarily on non-animal approaches. Toxicology in Vitro, article in press, available online 3 July 2012.

Bernauer, U., Heinemeyer, G., Heinrich-Hirsch, B., Ulbrich, B. and Gundert-Remy, U. (2008): Exposure-triggered reproductive toxicity testing under the REACH legislation: A proposal to define significant/relevant exposure. Toxicol. Lett. 176, 68 – 76.

Bernauer, U., Oberemm, A., Madle, S. and Gundert-Remy, U. (2005): The use of in vitro data in risk assessment. Basic and Clinical Pharmacology and Toxicology 96, 176-181.

Bernauer, U., Heinrich-Hirsch, B., Tönnies, M., Wolski, P.-M., and Gundert-Remy, U. (2006): Characterisation of the xenobiotic-metabolizing Cytochrome P450 expression pattern in human lung tissue by immunochemical and activity determination. Toxicol. Lett. 164, 278-288.

Jacobs, M.N., Janssens, W., **Bernauer, U.**, Brandon, E., Coecke, S., Combes, R., Edwards, P., Freidig, A., Freyberger, A., Kolanczyk, R., McArdle, C., Mekenyan, O., Schmieder, P., Schrader, T., Tekeyoshi, M., and van der Burg, B. (2008): The use of metabolising systems for in vitro testing of endocrine disruptors, Current Drug Metabolism 9, 796 - 826.

Gundert-Remy, U., Mielke, H. and **Bernauer, U.** (2013): Commentary: Dermal penetration of bisphenol A – consequences for risk assessment. Toxicol. Lett. 217, 159 – 161.