

Dr. rer. nat. Ines Schreiber

Junior Research Group Leader "Tattoo Inks"

Department of Chemicals and Product Safety
German Federal Institute for Risk Assessment



Experience

09/2017 – now	German Federal Institute for Risk Assessment Department of Chemical and Product Safety Junior research group leader "Tattoo Ink"	Berlin
06/2013 – 08/2017	German Federal Institute for Risk Assessment Department of Chemical and Product Safety PhD-Project: „Tattoo inks: chemical characterization, biokinetics and toxicity in skin“	Berlin
05/2011 – 02/2013	Technical University Berlin Institute of Medical Biotechnology Student Research Assistant	Berlin
10/2009 – 04/2010	Universiteit van Amsterdam Plant Pathology Group Research Internship	Amsterdam

Education

02/2018	Doctorate Thesis in Pharmacology (grading: summa cum laude) "Tattoo Pigments: Biodistribution and Toxicity of Corresponding Laser Induced Decomposition Products" Freie Universität Berlin
10/2006 – 04/2013	Engineer Diploma for medical Biotechnology Technical University Berlin

05/2011 – 05/2012

Diploma Thesis

„RNAi-knockdown and antibody neutralisation of IL-6 and IL-8 and its impact on the redifferentiation capacity of chondrocytes“
Institute for Medical Biotechnology, Technical University Berlin

10/2009 – 04/2010

Student Research Project

„Promotor analysis of effector genes in *Fusarium oxysporum f. sp. lycopersici*“
Plant Pathology Group, Universiteit van Amsterdam

Publications (*selected*)

1. **Schreiver, I.**, Hutzer, C., Luch, A. A Two-Step Pyrolysis-Gas Chromatography Method with Mass Spectrometric Detection for Identification of Tattoo Ink Ingredients and Counterfeit Products. *J. Vis. Exp.* **147**, e59689, (2019).
2. **Schreiver, I.**, Eschner, L.-M. & Luch, A. Matrix-assisted laser desorption/ionization tandem mass spectrometry for identification of organic tattoo pigments in inks and tissue samples. *Analyst* **143**(16):3941-3950 (2018).
3. Hering, H., Luch, A. & **Schreiver, I.** Laser irradiation of organic tattoo pigments releases carcinogens with 3,3'-dichlorobenzidine inducing DNA strand breaks in human skin cells. *J Invest Dermatol* **138**(12):2687-2690 (2018).
4. **Schreiver, I.**, Hesse, B., Seim, C., Castillo-Michel, H., Villanova, J., Laux, P., Dreijack, N., Penning, R., Tucoulou, R., Cotte, M. & Luch, A. Synchrotron-based v-XRF mapping and μ -FTIR microscopy enable to look into the fate and effects of tattoo pigments in human skin. *Sci Rep* **7**, 11395 (2017).
5. De Cuyper, C., Lodewick, E., **Schreiver, I.**, Hesse, B., Seim, C., Castillo-Michel, H., Laux, P. & Luch, A. Are metals involved in tattoo-related hypersensitivity reactions? A case report. *Contact Dermatitis* **77**(6): 397–405 (2017).
6. **Schreiver, I.**, Hutzler, C., Andree, S., Laux, P. and Luch, A. Identification and hazard prediction of tattoo pigments by means of pyrolysis—gas chromatography/mass spectrometry. *Arch Tox*, **90**(7):1639-1650 (2016).
7. **Schreiver, I.** & Luch, A. At the dark end of the rainbow: data gaps in tattoo toxicology. *Arch. Toxicol.* **90**: 1763-1765 (2016).
8. **Schreiver, I.**, Laux, P. and Luch, A. From tattooing to laser removal – risks of permanent skin decoration (article in German). *UMID* **1**:5-10 (2016).
9. Laux, P., Traulau, T., Tentschert, T., Blume, A., Al Dahouk, S., Bäuml, W., Bernstein, E., Bocca, B., Alimonti, A., Colebrook, H., De Cuyper, C., Dähne, L., Hauri, U., Howard, P., Janssen, P., Katz, L., Klitzman, B., Kluger, N., Krutak, L., Platzek, T., Scott-Lang, V., Serup, J., Teubner, W., **Schreiver, I.**, Wilkniß, E. and Luch, A. A medical-toxicological view of tattooing. *The Lancet* **387**:395-402 (2016).
10. **Schreiver, I.**, Hutzler, C., Laux, P., Berlien, H.-P. and Luch, A. Formation of highly toxic hydrogen cyanide upon ruby laser irradiation of the tattoo pigment phthalocyanine blue. *Sci Rep*, **5**:12915 (2015).