

**Kristian Fried, Ph.D., Dr. rer. nat.,  
DABT, ERT  
Senior Consultant**



**Education and  
Credentials**

Ph.D., Toxicology, The University of Kansas Medical Center, Kansas City, Kansas, 2007

Dr. rer. nat. (Ph.D.), Chemistry, Technical University of Munich, Munich, Germany, 2004

Dipl.-Chem. (M.S.), Chemistry, Ludwig-Maximilian University, Munich, Germany, 2000

Diplomate of the American Board of Toxicology (DABT), since 2011

European Registered Toxicologist (ERT), since 2020

**Continuing Education  
and Training**

American Management Association training in Project Management Leadership, Technical Project Management, Results-Oriented Communication, and Negotiating to Win (2–3 day sessions each)

USEPA Sustainable Futures (3-day workshop)

**Professional Affiliations**

Member of the Society of Toxicology

Member of the International Society for the Study of Xenobiotics

Member of the German Society of Toxicology

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Suite 200  
Portland, ME 04101

**Professional Profile**

Dr. Kristian Fried holds doctoral degrees in both chemistry and toxicology. He is certified by the American Board of Toxicology and by the European Register of Toxicologists. Dr. Fried has extensive experience in the chemical and consumer product safety and stewardship sectors and has been appointed Adjunct Assistant Professor for his teaching of human risk assessment at Rutgers University. With specific expertise in human health sciences, environmental toxicology and fate, as well as applied regulatory toxicology, Dr. Fried’s professional practice extends from occupational safety to consumer exposure to cleaning and fabric care products, cosmetics, and therapeutic applications. In his previous leadership roles in corporate toxicology, Dr. Fried developed strong analytical and strategy skills in the management of consortia work regarding scientific fundamentals as well as ingredient defenses.

**Relevant Experience**

**Consumer Safety**

**Leader of the Home Care, Flavors & Fragrances Global Product Safety Group for a Large Consumer Goods Company U.S./Global**—Supported global research and development teams across a multitude of product types and product forms including laundry detergents and fabric conditioners, surface cleaners, dish detergents and industrial/commercial cleaning products, and degreasing agents. Worked with Consumer Affairs, Corporate Communications, and Global Legal to develop responses to product or ingredient safety issues and served on crisis management teams.

**Leader of the Oral Care Global Product Safety Group for a Large Consumer Goods Company, U.S./Global**—Supported all globally developed oral care products and devices in the therapeutic and cosmetic sectors as well as professional dental and oral health applications. Developed and implemented strategies for submission to the U.S. FDA (pre-investigational new drug, investigational new drug, and medical device applications) and European authorities.

**Consortium Toxicology Lead Regarding the European Commission’s Scientific Committee on Consumer Safety (SCCS) Opinion on Water-Soluble Zinc Salts Used in Oral Hygiene Products**—

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Developed submission strategy and coauthored age-specific safety assessments, including exposure assessments, according to the SCCS Notes of Guidance for the Testing of Cosmetic Ingredients and Their Safety Evaluation, and customization thereof for pediatric uses.

**Consortium Toxicology Team Member and Later Lead Regarding the European Commission's SCCS Review of a Biocide**—Codeveloped scientific defense and coauthored safety assessments, including a deterministic exposure assessment, according to the SCCS Notes of Guidance for the Testing of Cosmetic Ingredients and Their Safety Evaluation, and a probabilistic exposure assessment based on market data.

**Corporate Toxicology Assessor for California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**—Conducted literature-based as well as experimental exposure assessments to determine consumers' exposure to chemicals *Listed* or with the *Intent to List* on Prop 65. Derived safe harbor levels if not published, and identified potential labeling requirements or absence thereof.

### Occupational Safety

**Response to a Notice of Intended Change of a Threshold Limit Value, Time-Weighted Average by the American Conference of Governmental Industrial Hygienists (ACGIH®)**—Collaborated with consortium leadership and drafted a response to proposed changes of the safe occupational exposure level of a respirable mineral. Provided a comprehensive scientific review of the referenced literature and other, publicly available information to consortium members for submission to ACGIH.

**Automotive Specialty Additives Safety, Detroit, Michigan**—Reviewed adverse events from occupational exposures and provided guidance on usage habits, personal protective equipment, and safer alternatives.

### Environmental Fate

**Biodegradation of Petrochemicals, U.S. and U.K.**—Project chair and technical leader to develop guideline-compliant modified biodegradation protocols, accounting for the unique physical-chemical properties of test materials.

### Product Stewardship

**Comments on Human Health Hazards for Two Chemicals Assessed by USEPA in Accordance with the Frank R. Lautenberg Chemical Safety for the 21st Century Act**—Provided scientific reviews to a client seeking to submit comments to EPA's draft risk evaluations of two halogenated chemicals. Proposed comments for consideration by the Science Advisory Committee on Chemicals.

## Selected Consortia Involvement

Cosmetics Europe

- Lead Toxicologist for Expert Team Oral Care on Ingredient Support
- Steering Committee Member in the Consortium for Titanium Dioxide



Consumer Healthcare Products Association, Proposition 65 Committee

Personal Care Products Council, Green Chemistry Task Force

American Cleaning Institute

- Research, Technology and Regulation Committee
- Toxic Substances Control Act Task Force
- Unit Dose Technical Work Group

Consumer Specialty Products Association

- Scientific Affairs Committee
- Proposition 65 Task Force

Cosmetics Europe, Expert Team—Perfumes

International Fragrance Association, Joint Advisory Group

## Teaching and Coursework

Adjunct Assistant Professor, Rutgers, The State University of New Jersey, Ernest Mario School of Pharmacy, Environmental and Occupational Health Sciences Institute—Toxicology

Instructor for the 2019 Rutgers boot camp course “Human Health Risk Assessment”

Codirector and Instructor for the 2017 Rutgers course “Consumer Products Safety & Sustainability”

## Publications

Fried, K.W., G. Guo, N. Esterly, B. Kong, and K.K. Rozman. 2010. 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (TCDD) reverses hyperglycemia in a type II diabetes mellitus rat model by a mechanism unrelated to PPAR $\gamma$ . *Drug and Chemical Toxicology* 33(3):261–268.

Fried, K.W., and K.K. Rozman. 2008. Persistent polyhalogenated aromatic hydrocarbons. In: *Toxicology and Risk Assessment—A Comprehensive Introduction*. H. Greim and R. Snyder (eds). John Wiley & Sons Ltd., UK. ISBN: 9780470868935; online ISBN: 9780470868959.

Fried, K.W., R. Bazzi, W. Levy Lopez, C. Corsten, K.-W. Schramm, D.R. Bell, and K.K. Rozman. 2007. Relationship between aryl hydrocarbon receptor-affinity and the induction of EROD activity by 2,3,7,8-tetrachlorinated phenothiazine and derivatives. *Toxicology and Applied Pharmacology* 224:147–155.

Fried, K.W., C.M. Schneider, K.-W. Schramm, A. Datta, N. Chahbane, C. Corsten, D.R. Powell, D. Lenoir, A. Kettrup, P. Terranova, G.I. Georg, and K.K. Rozman. 2007. From dioxin to drug lead—the development of 2,3,7,8-tetrachlorophenothiazine. *ChemMedChem* 2:890–897.

Fried, K.W., and D. Lenoir. 2004. EPA-Umweltdatenbank nicht nur für Amerikaner. *Angew. Chem.* 116:2649–2650. EPA environmental science database: Not only for Americans. *Angew. Chem. Int. Ed.* 43:2597–2598.



Geyer, H.J., K.-W. Schramm, P.O. Darnerud, M. Aune, E.A. Feicht, K.W. Fried, B. Henkelmann, D. Lenoir, P. Schmid, and T.A. McDonald. 2004. Terminal elimination half-lives of the brominated flame retardants TBBPA, HBCD, and lower brominated PBDEs in humans. *Organohalogen Comp.* 66:3867–3872.

Saghir, S.A., K.W. Fried, K.K. Rozman. 2001. Kinetics of monochloroacetic acid in adult male rats after intravenous injection of a subtoxic and a toxic dose. *J. Pharmacol. Exp. Ther.* 296:617–627.

## Invited Presentations

Grundlagen der Toxikologie für Chemiker [Fundamentals of Toxicology for Chemists]. Hochschule Fresenius, University of Applied Sciences. Idstein, Germany. November 7, 2014.

Toxikologie für Chemiker—Hintergründe und Beispiele [Toxicology for Chemists—Introduction and Case Studies]. Hochschule Fresenius, University of Applied Sciences. Idstein, Germany. October 14, 2013.

Toxikologische Hintergründe von Chemikalienverordnungen [Toxicological History of Laws on Chemical Substances]. Hochschule Fresenius, University of Applied Sciences. Idstein, Germany. October 9, 2012.

Developing the dioxin analogue 2,3,7,8-tetrachlorophenothiazine. Institute of Experimental and Clinical Pharmacology and Toxicology, University of Lübeck, Germany. August 16, 2006.

## Presentations/Posters

Mead, C., N. Clarke, K.W. Fried, and P. Gurba. 2010. Application of different dispersion techniques to regulatory biodegradability tests. Society of Environmental Toxicology and Chemistry Europe 20th Annual Meeting, Seville, Spain. May 23–27.

Fried, K.W., W. Levy Lopez, C. Corsten, K.W. Schramm, and K.K. Rozman. 2007. Induction of EROD activity *in vitro* by 2,3,7,8 tetrachlorinated N-methyl and sulfoxo phenothiazines. Society of Toxicology Annual Meeting, *Toxicologist* 835:172.

Rozman, K.K., and K.W. Fried. 2007. 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (TCDD) reverses hyperglycemia in a type II diabetes rat model. Society of Toxicology Annual Meeting, *Toxicologist* 837:173.

Fried, K.W., and K.K. Rozman. 2006. 2,3,7,8-Tetrachlorophenothiazine (TCPT) lowers serum IGF 1 levels in analogy to 2,3,7,8 tetrachlorodibenzo-*p*-dioxin (TCDD). International Society for the Study of Xenobiotics, North American Meeting, *Drug Metab. Rev.* 38(Suppl. 2):86.

Fried, K.W., R.M. Bazzi, D.R. Bell, and K.K. Rozman. 2006. 2,3,7,8-Tetrachlorophenothiazine: A potent aryl hydrocarbon receptor ligand. Society of Toxicology Annual Meeting, *Toxicologist* 20:98.



Fried, K.W., K.-W. Schramm, A. Kettrup, G.I. Georg, P.F. Terranova, and K.K. Rozman. 2005. From dioxins to drugs. Platform presentation. Society of Toxicology–Central States Chapter Meeting, Ames, IA. September 30.

Fried, K.W., G.I. Georg, P.F. Terranova, and K.K. Rozman. 2005. Development of a new dioxin-analogue: 2,3,7,8-tetrachlorophenothiazine. Society of Toxicology Annual Meeting, *Toxicologist* 84:2048.

Fried, K.W., N. Chahbane, C. Corsten, K.-W. Schramm, A. Kettrup, K.K. Rozman. 2005. Induction of EROD-activity *in vitro* by 2,3,7,8-tetrachlorophenothiazine. Society of Toxicology Annual Meeting, *Toxicologist* 84:2050.

Fried, K.W., X. Gao, B.K. Petroff, K.-W. Schramm, P.F. Terranova, and K.K. Rozman. 2002. Effect of chlorinated phenothiazines on ovulation in rats. Society of Toxicology Annual Meeting, *Toxicologist* 66:835.

Croutch, C.R., M. Lebofsky, A. DeZoysa, D.S. Son, K.W. Fried, and K.K. Rozman. 2002. Time-dependence of TCDD- and HxCDD-induced CYP 1A1 expression as measured by EROD activity, Western and Northern blots. Society of Toxicology Annual Meeting, *Toxicologist* 66:825.

Fried, K.W., S.A. Saghir, and K.K. Rozman. 1999. Dose-dependent pharmacokinetics of monochloroacetic acid (MCA) in adult male Sprague-Dawley rats. Society of Toxicology Annual Meeting, *Toxicologist* 48:969.

