Laurie Couture Haws, Ph.D., DABT, ATS

MANAGING PRINCIPAL SCIENTIST

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Dr. Laurie Haws is a Managing Principal Scientist with ToxStrategies and is based in Austin, Texas. She is a board-certified toxicologist and a Fellow of the Academy of Toxicological Sciences (ATS), and she has more than 35 years of experience in the areas of toxicology, human health risk assessment, risk communication, and scientific and regulatory policy.

Dr. Haws has substantial experience evaluating potential human health risks associated with exposures to a wide variety of chemicals and metals present as additives, ingredients, or contaminants in foods, consumer products, personal care products, pharmaceuticals, medical devices, and environmental media (air, water, soil, and sediments). She also has extensive experience assessing potential human health risks associated with personal, occupational, and community-wide exposures to air contaminants, particularly related to chemical, petrochemical, and shale gas exploration and production activities. Dr. Haws is a recognized expert at evaluating data concerning modes and mechanisms of action and in using this type of data to assess the relevance of findings to humans. She routinely applies these skills in the development of state-of-the-science toxicity values via the application of both default and more rigorous approaches, such as benchmark dose modeling, application of weight-of-evidence techniques, and consideration of mode-of-action information. In addition, Dr. Haws also has experience designing, placing, and overseeing a broad range of toxicology laboratory studies, including ADME (absorption, distribution, metabolism, and excretion), developmental toxicity, and cross-fostering studies. She also has experience designing, conducting, and interpreting data from biomonitoring studies, and is adept at using such data to assess concerns regarding potential exposures.

While Dr. Haws is an internationally recognized authority on the toxicity of and exposures to dioxin-like compounds, she has conducted assessments involving many other toxicants throughout her career, including chlorinated hydrocarbons, aromatic hydrocarbons, volatile organic compounds, PFAS, pesticides, phthalates, glycol ethers, metals, persistent organic pollutants, and others. She is knowledgeable about numerous state and federal regulatory programs and has assisted in the preparation of reports for submission to regulatory agencies such as the FDA, EPA, and California's Proposition 65 program. Dr. Haws also has substantial experience working with federal, state, and local government agencies, industry, trade associations, legislative representatives, the media, and members of the general public on matters related to the toxicity of chemicals encountered in our daily lives.

Dr. Haws has a diverse background, having worked as a researcher, a regulatory toxicologist with a government agency, and a scientific consultant. In fact, a substantial portion of her career has been spent in the government sector, both as a researcher and most recently as a manager in the Toxicology and Risk Assessment Section at the Texas Commission on Environmental Quality (TCEQ). In her position with the TCEQ, Dr. Haws was responsible for overseeing all human health risk assessment activities and was one of the primary authors of the agency's comprehensive risk-based corrective action rule (the Texas Risk Reduction Program [TRRP] rule).

Dr. Haws is an author on over 90 peer-reviewed publications and has presented at many scientific conferences throughout her career. She is an active member of numerous professional societies, including the Society of Toxicology, Society for Risk Analysis, Toxicology Forum, American College of Toxicology, and the Regulatory Affairs Professional Society. Dr. Haws has served on numerous elected and appointed committees within the Society of Toxicology, including serving on Council, as well as serving as president of the Risk Assessment Specialty Section and the Women in Toxicology Special Interest Group.

Dr. Haws has participated in a number of scientific panels, technical workgroups, and advisory committees, including the World Health Organization's Toxic Equivalency Factor Review Panel. She was a panelist for a workshop convened in 2021 by the Alliance for Risk Assessment, discussing practical, problem-driven approaches to "fit-for-purpose" risk assessments. She also chaired the International Symposium on Halogenated and Persistent Organic Pollutants, held in San Antonio, Texas, in September 2010, and served on the Exposure and Human Health Committee of the USEPA's Science Advisory Board.

EDUCATION AND DEGREES EARNED

1990	Ph.D., Toxicology, School of Medicine, Curriculum in Toxicology, University of North Carolina (Chapel Hill)
1987	M.S., Environmental Sciences & Engineering (Toxicology), School of Public Health, University of North Carolina (Chapel Hill)
1985	B.S., Environmental Biology *(magna cum laude),* Long Island University (Southampton, NY)

CERTIFICATIONS

1994—present	Diplomate, American Board of Toxicology (DABT)

PROFESSIONAL HONORS/AWARDS

2021- present	Fellow of the Academy of Toxicological Sciences
1989, 1990	Society of Toxicology—Student Travel Award
1988	Level III Scientific & Technological Achievement Award (National Institute of Environmental Health Sciences)
1987, 1990	North Carolina Chapter of the Society of Toxicology—Student Travel Award
1983–1985	Presidential Scholarship
1983	Faculty Honors Award
1983	Outstanding Campus Leadership Award
1984–1985	Beta Beta Beta; Biological Honor Society

PROFESSIONAL ASSOCIATIONS

Society of Toxicology

- Council, Vice President-Elect (2022–2023), Vice President (2023–2024), President (2024–2025), and Past President (2025–2026)
- Audit Committee (2021–2024)
- Council, Secretary-Elect (2017–2018), Secretary (2018–2020)
- Risk Assessment Specialty Section, Councilor (2008–2010), Vice President-Elect (2011–2012), Vice President (2012–2013), President (2013–2014), Past President (2014–2015)
- Women in Toxicology, Councilor (2013–2015), Vice President (2015–2016), President-Elect (2016–2017), President (2017–2018), Past President (2018–2019)
- Scientific Liaison Coalition (2015–present)
- Special Interest Group Collaboration and Communication Group (2016–2017)
- Contemporary Concepts in Toxicology Committee Chair (2013–2014), Co-chair (2012–2013), member (2011–2014)
- Nominating Committee member (2008–2010), co-chair (2025), chair (2026)
- Continuing Education Committee, member (2004-2007), Chair (2006–2007), member (2004–2007)

Toxicology Forum

- Board of Directors, member (2016-2018), Secretary (2018-2020), Vice President (2020-2022), President (2022-2023), Past President (2023–2024)
- Board of Directors, Member (2016–2018)
- Program Planning Committee, member (2015), co-chair (2016), chair (2017)

American College of Toxicology

Product Stewardship Society

Regulatory Affairs Professionals Society

Society of Risk Analysis

SCIENTIFIC ADVISORY PANELS, COMMITTEES, & WORKGROUPS

2021	Panelist for an Alliance for Risk Assessment (ARA) virtual workshop titled, *Beyond Science & Decisions: From Problem Formulation to Dose-Response Assessment*
2010	Chair, International Symposium on Halogenated Persistent Organic Pollutants, San Antonio, Texas
2009–2017	U.S. Environmental Protection Agency Scientific Advisory Board Exposure and Human Health Committee
2007–2017	International Advisory Board Member, International Symposium on Halogenated Persistent Organic Pollutants
2005	Resource Expert, World Health Organization, Dioxins Toxic Equivalency Factor Review, Geneva, Switzerland, June 27–30
2001–2003	STAPPA/ALAPCO Residual Risk Steering Committee
2001	USEPA-State-Tribal Risk Assessment Workshop Planning Committee
1999–2003	Texas Risk Reduction Program Rule Target Chemicals of Concern (COC) Workgroup
1999–2003	Texas Risk Reduction Program Rule Chemicals of Concern (COC) Screening Workgroup
1999–2003	Texas Risk Reduction Program Rule Representative Concentrations Workgroup
1999–2003	Texas Risk Reduction Program Rule Exposure Factors Workgroup
1999–2001	Texas Risk Reduction Program Rule Probabilistic Risk Assessment Workgroup
1996–2003	Texas Commission on Environmental Quality Combustion Strategy Implementation Team
1995–1998	EPA Workgroup on Maximum Achievable Control Technology (MACT) Standards for Hazardous Waste Combustors
1995–2003	Federal/State Toxicology and Risk Analysis Committee
1994–1997	Texas Medical Association Committee on the Environment
1994–1999	Scientific Advisory Committee on Birth Defects in Texas

PEER-REVIEWED PUBLICATIONS

Buerger AN, Heintz MM, **Haws LC**, Thompson CM. Mode-of-action and human relevance assessment for diisononyl phthalate-induced liver tumors in rodents. J Appl Toxicol; doi: 10.1002/jat.70223. Online ahead of print May 5th.

Buerger AN, Thompson CM, Heintz MM, Maberti S, Palermo CM, **Haws LC**. 2026. Application of quantitative and qualitative uncertainty assessment risk management decision-making: A case study with diisononyl phthalate. Food Chem Toxicol 116110; doi: 10.1016/j.fct.2026116110. Online ahead of print April 25.

Heintz MM, Thompson CM, Wolf JC, Rogers JM, **Haws LC**. 2026. Hepatic transcriptomic responses in gravid and non-gravid rats exposed to HFPO-DA: Analyses to inform the role of maternal effects in neonatal toxicity. PLoS One 21(4):e0345643; doi: 10.1371/journal.pone.0345643.

Lea IA, Buerger AN, Vincent MJ,..., Choksi NY, Schaefer H, Britt J, Fitch S, **Haws L**, Borghoff SJ. 2026. Evaluating the potential carcinogenic hazard of diisononyl phthalate in humans via systematic integration of human, animal cancer studies, and mechanistic data. Curr Res Toxicol 10(Apr 30):100295; doi: 10.1016/j.crtox.2026.100295.

Thompson CM, Heintz MM, Rogers SI, Vincent MJ, **Haws LC**. 2026. Integration of mechanistic and repeat dose toxicity data in the derivation of an oral reference dose for HFPO-DA. Toxicol Sci 209(5):kfag045; doi: 10.1093/toxsci/kfag045.

Thompson CM, Heintz MM, Cullen JM, **Haws LC**. 2026. Evaluation of chronic toxicity and carcinogenicity of HFPO-DA in mice. Regul Toxicol Pharmacol 165(Feb)106014; doi: 10.1016/j.yrtph.2025.106014.

Borghoff SJ, Heintz MM, Rivera BN, **Haws L**, Thompson C. 2025. Evaluation of an anti-thyroid mode of action for thyroid follicular cell adenomas in female mice exposed to tertiary butyl alcohol. Regul Toxicol Pharmacol 163(Dec):105936; doi: 10.1016/j.yrtph.2025.105936.

Heintz MM, Buerger AN, **Haws LC**, Cullen JM, East AW, Thompson CM. 2025. Comparison of phenotypic and transcriptomic profiles between HFPO-DA and prototypical PPAR*α*, PPAR*γ*, and cytotoxic agents in wild-type and *Ppara*-null mouse livers. 206(1):183-201; doi: 10.1093/toxsci/kfaf049.

Kennedy SB, Heintz MM, Klaren WD, Wikoff DS, **Haws LC**, Fitch SE. 2025. An integrated ecotoxicological study reliability framework for use in toxicity value development. Environ Tox Chem 44(4):1142-1153; doi: 10.1093/etojnl/vgaf030.

Lea IA, Buerger AN, Feifarek D, Mihalchik A, Heintz MM, **Haws LC**, Nyambego H, Goyak K, Palermo C, Borghoff SJ. 2025. Evaluation of the endocrine disrupting potential of di-isononyl phthalate. Curr Res Toxicol 8:100220; doi: 10.1016/j.crtox.2025.100220. Corrigendum 8:100233; doi: 10.1016/j.crtox.2025.100233.

Lea IA, Feifarek D, Mihalchik A, Heintz M, **Haws L**, Nyambego H, Goyak K, Palermo C, Borghoff SJ**.** 2025. Evaluation of the endocrine disrupting potential of di-isodecyl phthalate. Curr Res Toxicol 8:1002221; doi: 10.1016/j.crtox.2025.100221.

Rogers JM, Buerger AN, Heintz MM, Palermo CM, **Haws LC**, Lea IA. 2025. Evaluation of a hypothesized Sertoli cell-based adverse outcome pathway for effects of diisononyl phthalate on the developing testis. Curr Res Toxicol 8:100219; doi: 10.1016/j.crtox.2025.100219.

Rogers JM, Heintz MM, **Haws LC**. 2025. Reproductive and developmental toxicity screen (OECD TG 421) and extended one generation reproductive toxicity study (OECD TG 443) of decahydronaphthalene in Sprague Dawley rats. Regul Toxicol Pharmacol 160(Aug):105829; doi: 10.1016/j.yrtph.2025.105829.

Wikoff DS, Vincent MJ, Heintz MM, Pastula ST, Reichert H, Klaren WD, **Haws LC**. 2025. Application of a quantitative uncertainty assessment to develop ranges of plausible toxicity values when using observational data in risk assessment: A case study examining associations between PFOA and PFOS exposures and vaccine response. Toxicol Sci 204(1):96-115; doi: 10.1093/toxsci/kfae152.

DeVito M, Bokkers B, van Duursen MBM, van Ede K, Feeley M, Antunes Fernandes Gaspar E, **Haws L**,… Wikoff DD, et al. 2024. The 2022 World Health Organization reevaluation of human and mammalian toxic equivalency factors for polychlorinated dioxins, dibenzofurans and biphenyls. Regul Toxicol Pharmacol 146(Jan):105525; doi: 10.1016/j.yrtph.2023.105525.

Fitch S, Blanchette A, **Haws LC**, Franke K, Ring C, DeVito M,… Wikoff DS. 2024. Systematic update to the mammalian relative potency estimate database and development of best estimate toxic equivalency factors for dioxin-like compounds. Regul Toxicol Pharmacol 147(Feb):105571; doi: 10.1016/j.yrtph.2024.105571.

Heintz MM, Klaren WD, East AW, **Haws LC**, McGreal SR, Campbell RR, Thompson CM. 2024. Comparison of transcriptomic profiles between HFPO-DA and prototypical PPARα, PPARγ, and cytotoxic agents in wild-type and PPARα knockout mouse hepatocytes. Toxicol Sci 200(1):183–198; doi: 10.1093/toxsci/kfae045.

Heintz MM, Klaren WD, East AW, **Haws LC**, McGreal SR, Campbell RR, Thompson CM. 2024. Comparison of transcriptomic profiles between HFPO-DA and prototypical PPARα, PPARγ, and cytotoxic agents in mouse, rat, and pooled human hepatocytes. Toxicol Sci 200(1):165–182; doi: 10.1093/toxsci/kfae044.

Thompson CM, Dewhurst N, Moundous D, Borghoff SJ, **Haws LC**, Vasquez MZ. 2024. Assessment of the genotoxicity of tert-butyl alcohol in an in vivo thyroid comet assay. Environ Mol Mutagen 65(3–4):129–136; doi: 10.1002/em.22601.

Thompson CM, Heintz MM, Cullen JM, **Haws LC**. 2024. Letter to the Editor of Environmental Pollution: In regard to Wan et al. (2024), "GenX caused liver injury and potential hepatocellular carcinoma of mice via drinking water even at environmental concentration." Environ Pollut 355(Aug 15):124171; doi: 10.1016/j.envpol.2024.1241741.

Wikoff D, Ring C, DeVito M, Walker N, Birnbaum L, **Haws L**. 2023. Development and application of a systematic and quantitative weighting framework to evaluate the quality and relevance of relative potency estimates for dioxin-like compounds (DLCs) for human health risk assessment. Regul Toxicol Pharmacol 145(Dec):105500; doi: 10.1016/j.yrtph.2023.105500.

Heintz MM, **Haws LC**, Klaunig JE, Cullen JM, Thompson CM. 2023. Assessment of the mode of action underlying development of liver lesions in mice following oral exposure to HFPO-DA and relevance to humans. Toxicol Sci 192(1):15-29; doi: 10.1093/toxsci/kfad004.

Ring C, Blanchette A, Klaren WD, Fitch S, **Haws L**, Wheeler MW, DeVito MJ, Walker N, Wikoff D. 2023. A multi-tiered hierarchical Bayesian approach to derive toxic equivalency factors for dioxin-like compounds. Regul Toxicol Pharmacol 143(11):105464; doi: 10.1016/j.yrtph.2023.105464.

Rogers JM, Heintz MM, Thompson CM, **Haws LC**. 2023. A putative adverse outcome network for neonatal mortality and lower birth weight in rodents: Applicability to per- and polyfluoroalkyl substances and relevance to human health. Birth Defects Res 115(11):1011–1062; doi: 10.1002/bdr2.2185.

Thompson CM, Heintz MM, Wolf JC, Cheru R, **Haws LC**, Cullen JM. 2023. Assessment of mouse liver histopathology following exposure to HFPO-DA with emphasis on understanding mechanisms of hepatocellular death. Toxicol Pathol 51(1-2):4-14; doi: 10.1177/01926233231159078.

Heintz MM, Chappell GA, Thompson CM, **Haws LC**. 2022. Evaluation of transcriptomic responses in livers of mice exposed to the short-chain PFAS compound HFPO-DA. Front Toxicol 4:937168; doi: 10.3389/ftox.2022.937168.

Chappell GA, Heintz MM, **Haws LC**. 2021. Transcriptomic analyses of livers from mice exposed to 1,4-dioxane for up to 90 days to assess potential mode(s) of action underlying liver tumor development. Curr Res Toxicol 2:30–41; doi: 10.1016/j.crtox.2021.01.003.

Heintz MM, **Haws LC**. 2021. Correspondence to the Editor Regarding Guillette et al. 2020. Elevated levels of per- and polyfluoroalkyl substances in Cape Fear River striped bass (Morone saxatilis) are associated with biomarkers of altered immune and liver function. Environ Int 146(Jan):106299; doi: 10.1016/j.envint.2020.106299.

Thompson CM, Bhat VS, Brorby GP, **Haws LC**. 2021. Development of updated RfD and RfC values for medium carbon range aromatic and aliphatic total petroleum hydrocarbon fractions. J Air Waste Manag Assoc 71(12):1555–1567; doi: 10.1080/10962247.2021.1974123.

Wikoff DS, Urban JD, Ring C, Britt J, Fitch S, **Haws LC**. 2020. Development of a range of plausible non-cancer toxicity values for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) based on effects on sperm count: Application of systematic review methods and quantitative integration of dose response using meta-regression. Toxicol Sci 179(2):162–182; doi: 10.1093/toxsci/kfaa171.

Chappell GA, Thompson CM, Wolf JC, Cullen JM, Klaunig JE, **Haws LC**. 2020. Assessment of the mode of action underlying the effects of GenX in mouse liver and implications for assessing human health risks. Toxicol Pathol 48(3):494–508; doi: 10.1177/0192623320905803.

Urban JD, Wikoff DS, Chappell GA, Harris C, **Haws LC**. 2020. Systematic evaluation of mechanistic data in assessing in utero exposures to trichloroethylene and development of congenital heart defects. Toxicology 436(April 30):152427; doi: 10.1016/j.tox.2020.152427.

Thompson CM, Fitch SE, Ring C, Rish W, Cullen JM, **Haws LC**. 2019. Development of an oral reference dose for the perfluorinated compound GenX. J Appl Toxicol 39(9):1267-1282; doi: 10.1002/jat.3812.

Wikoff D, **Haws L**, Ring C, Budinsky R. 2019. Application of qualitative and quantitative uncertainty assessment tools in developing ranges of plausible toxicity values for 2,3,7,8-tetrachlorodibenzo-p-dioxin. J Appl Toxicol 39(9):1293-1310; doi: 10.1002/jat.3814.

Thompson CM, Kirman CR, Hays SM, Suh M, Harvey SE, Proctor DM, Rager JE, **Haws LC**, Harris MA. 2018. Integration of mechanistic and pharmacokinetic information to derive oral reference dose and margin-of-exposure values for hexavalent chromium. J Appl Toxicol 38(3):351–365; doi: 10.1002/jat.3545.

Urban J, Wikoff D, **Haws L**, Fitch S, Ring C, Thompson C, Suh M. 2018. Systematic review protocol: Systematic review and meta-regression to characterize the dose-response relationship between exposure to dioxin-like compounds during sensitive windows of development and reduced sperm count. Zenodo. http://doi.org/10.5281/zenodo.1636357.

Wikoff DS, Rager JE, Chappell GA, Fitch S, **Haws L**, Borghoff SJ. 2018. A framework for systematic evaluation and quantitative integration of mechanistic data in assessments of potential human carcinogens. Toxicol Sci 167(2):322–335; doi: 10.1093/toxsci/kfy279.

Wikoff D, Urban JD, Harvey S, **Haws LC**. 2018. Role of risk of bias in systematic review for chemical risk assessment: A case study in understanding the relationship between congenital heart defects and exposures to trichloroethylene. Int J Toxicol 37(2):125-143; doi: 0.1177/1091581818754330.

Rager JE, Ring CL, Fry RC, Suh M, Proctor DM, **Haws LC**, Harris MA, Thompson CM. 2017. High-throughput screening data interpretation in the context of *in vivo* transcriptomic responses to oral Cr(VI) exposure. Toxicol Sci 158(1):199-212; doi: 10.1093/toxsci/kfx085.

Thompson CM, Wolf, JC, McCoy A, Suh M, Proctor DM, Kirman CR, **Haws LC**, Harris MA. 2017. Comparison of toxicity and recovery in the duodenum of B6C3F1 mice following treatment with intestinal carcinogens captan, folpet, and hexavalent chromium. Toxicol Pathol 45(8):1091–1101; doi: 10.1177/019262331yy4324.

Thompson CM, Suh M, Proctor DM, **Haws LC**, Harris MA. 2017. Ten factors for considering the mode of action of Cr(VI)-induced gastrointestinal tumors in rodents. Mut Res/Genetic Toxicol Environ Mutagen 823(Nov):45–57.

Wikoff D, Borghoff S, Rager J, Harvey S, **Haws L**. 2016. A systematic review of the mechanistic evidence of tetrabromobisphenol TBBPA as a human carcinogen according to the ten key characteristics of carcinogens (TKCC) identified by Smith et al. (2016). PROSPERO 2016:CRD42016046429 Available from: http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42016046429.

Wikoff DS, Rager JE, **Haws LC**, Borghoff SJ. 2016. A high dose mode of action for tetrabromobisphenol A-induced uterine adenocarcinomas in Wistar Han rats: A critical evaluation of key events in an adverse outcome pathway framework. Regul Toxicol Pharmacol 77(June):143-159; doi: 10.1016/j.yrtph.2016.01.018.

Borghoff SJ, Wikoff D, Harvey S, **Haws L**. 2016. Dose- and time-dependent changes in tissue levels of tetrabromobisphenol A (TBBPA) and its sulfate and glucuronide conjugates following repeated administration to female Wistar Han rats. Toxicol Rep 3:190-201; doi:10.1016/j.toxrep.2016.01.007.

Thompson CM, Rager JE, Suh M, Ring CL, Proctor DM, **Haws LC**, Fry RC, Harris MA. 2016. Transcriptomic responses in the oral cavity of F344 rats and B6C3F1 mice following exposure to Cr(VI): Implications for risk assessment. Environ Mol Mutagen 57(9):706–716; doi: 10.1002/em.22064.

Kirman CR, Suh M, Hays SM, Gürleyük H, Gerads R, De Flora S, Parker W, Lin S, **Haws LC**, Harris MA, Proctor DM. 2016. Reduction of hexavalent chromium by fasted and fed human gastric fluid. II. Ex vivo gastric reduction modeling. Toxicol Appl Pharmacol 306(Sept 1):120–133; doi: 10.1016/j.taap.2016.07.002.

Thompson CM, Bichteler A, Rager JE, Suh M, Proctor DM, **Haws LC**, Harris MA. 2016. Comparison of in vivo genotoxic and carcinogenic potency to augment mode of action analysis: Case study with hexavalent chromium. 2016. Mutat Res Genet Toxicol Environ Mutagen 800–801(April):28–34; doi: 10.1016/j.mrgentox.2016.01.008.

Thompson CM, Wolf JC, Elbekai RH, Paranjpe MG, Seiter JM, Chappell MA, Tappero RV, Suh M, Proctor DM, Bichteler A, **Haws LC**, Harris MA. 2015. Duodenal crypt health following exposure to Cr(VI): Micronucleus scoring, crypt immunostaining, and synchrotron x-ray fluorescence microscopy. Mut Res 789-790(Aug):61–66.

Thompson, CM, Seiter J, Chappell MA, Tappero RV, Proctor DM, Suh M, Wolf JC, **Haws LC**, Vitale R, Mittal L, Kirman CR, Hays SM, Harris MA. 2015. Synchrotron-based imaging of chromium and γ-H2AX immunostaining in the duodenum following repeated exposure to Cr(VI) in drinking water. Toxicol Sci 143(1):16–25.

Wikoff D, Thompson C, Perry C, White M, Borghoff S, Fitzgerald L, **Haws LC**. 2014. Development of toxicity values and exposure estimates for tetrabromobisphenol A (TBBPA): Application in a margin of exposure assessment. J Appl Toxicol 35(11):1292–308.

Suh M, Thompson C, Kirman C, Carakostas M, **Haws LC**, Harris M, Proctor D, Abraham L, Hixon JG. 2014. High concentrations of hexavalent chromium in drinking water alter iron homeostasis in F344 rats and B6C3F1 mice. Food Chem Toxicol 65(March):381–388.

Bunch AG, Perry CS, Abraham L, Wikoff DS, Tachovsky JA, Hixon JG, Urban JD, Harris MA, **Haws LC**. 2014. Evaluation of impact of shale gas operations in the Barnett Shale region on volatile organic compounds in air and potential human health risks. Sci Tot Environ 468–469(Jan 15):832–842.

Urban JD, Wikoff DS, Bunch ATG, Harris MA, **Haws LC**. 2014. A review of background dioxin concentrations in urban/suburban and rural soils across the United States: Implications for site assessments and the establishment of soil cleanup levels. Sci Tot Environ 466–467(Jan 1):586–597.

Kirman CR, Aylward LL, Suh M, Harris MA, Thompson CM, **Haws LC**, Proctor DM, Lin SS, Parker W, Hays SM. 2013. Physiologically based pharmacokinetic model for humans orally exposed to chromium. Chem Biol Interact 204(1):13–27.

O'Brien T, Ding H, Suh M, Thompson C, Parsons BL, Harris MA, Winkelman WA, Wolf JC, Hixon JG, Schwartz AM, Myers MB, **Haws LC**, Proctor DM. 2013. Assessment of K-Ras mutant frequency adn micronucleus incidence in the mouse duodenum following 90-days of exposure to Cr(VI) in drinking water. Mutat Res 754(1–2):15–21.

Thompson CM, Proctor DM, Suh M, **Haws LC**, Kirman CR, Harris MA. 2013. Assessment of the mode of action underlying development of rodent small intestinal tumors following oral exposure to hexavalent chromium and relevance to humans. Crit Rev Toxicol 43(3):244–274.

Dourson ML, Gadagbui B, Griffin S, Garabrant DH, **Haws LC,** Kirman C, Tohyama C. 2013. The importance of problem formulations in risk assessment: A case study involving dioxin-contaminated soil. Regul Toxicol Pharmacol 66(2):208–216.

Thompson CM, Gaylor DW, Tachovsky JA, Perry C, Carakostas MC, **Haws LC**. 2013. Development of a chronic noncancer oral reference dose and drinking water screening level for sulfolane using benchmark dose modeling. J Appl Toxicol 33(12):1395–1406.

Thompson CM, Kirman CR, Proctor DM, **Haws LC**, Suh M, Hays S, Hixon JG, Harris MA. 2013. A chronic oral reference dose for hexavalent chromium-induced intestinal cancer. J Appl Toxicol 34(5):525–536.

Kirman CR, Hays SM, Aylward LL, Suh M, Harris MA, Thompson CM, **Haws LC**, Proctor DM. 2012. Physiologically based pharmacokinetic model for rats and mice orally exposed to chromium. Chem Biol Interact 200(1):45–64

Kopec AK, Kim S, Forgacs AL, Zacharewski TR, Proctor DM, Harris MA, **Haws LC**, Thompson CM. 2012. Genome-wide gene expression effects in B6C3F1 mouse intestinal epithelia following 7 and 90 days of exposure to hexavalent chromium in drinking water. Toxicol Appl Pharmacol 259(1):13-26.

Proctor DM, Suh M, Aylward LL, Kirman CR, Harris MA, Thompson CM, Gürleyük H, Gerads R, **Haws LC**, Hays SM. 2012. Hexavalent chromium reduction kinetics in rodent stomach contents. Chemosphere 89(5):487–93.

Thompson CM, Fedorov Y, Brown DD, Suh M, Proctor D, Kuriakose L, **Haws LC**, Harris MA. 2012. Assessment of Cr(VI)-induced cytotoxicity and genotoxicity using high content analysis. PLoS ONE 7(8):e42720.

Thompson CM, Hixon JG, Proctor DM, **Haws LC**, Suh M, Urban JD, Harris MA. 2012. Assessment of genotoxic potential of Cr(VI) in the mouse duodenum: An in silico comparison with mutagenic and nonmutagenic carcinogens across tissues. Regul Toxicol Pharmacol 64(1):68–76.

Thompson CM, Proctor DM, Suh M, **Haws LC**, Hebert CD, Mann JF, Shertzer HG, Hixon JG, Harris MA. 2012. Comparison of the effects of hexavalent chromium in the alimentary canal of F344 rats and B6C3F1 mice following exposure in drinking water: Implications for carcinogenic modes of action. Toxicol Sci 125(1):79–90.

Thompson CM, Proctor DM, **Haws LC**, Hebert CD, Grimes SD, Shertzer HG, Kopec AK, Hixon JG, Zacharewski TR, Harris MA. 2011. Investigation of the mode of action underlying the tumorigenic response induced in B6C3F1 mice exposed orally to hexavalent chromium. Toxicol Sci 123(1):58–70.

Thompson CM, **Haws LC**, Harris MA, Gatto NM, Proctor DM. 2011. Application of the U.S. EPA mode of action framework for purposes of guiding future research: A case study involving the oral carcinogenicity of hexavalent chromium. Toxicol Sci 119(1):20–40.

Tachovsky JA, Urban JD, Wikoff DS, **Haws LC,** Harris MA. 2010. Reduction of a large fish tissue analyte database: Identifying and assessing data specific to a remediation site for risk assessment application. Chemosphere 80(5):481–488.

Urban J, Tachovsky JA, **Haws L**, Wikoff Staskal D, Harris M. 2010. Response to Mugdan et al.'s comment on Urban et al. "Assessment of human health risks posed by consumption of fish from the Lower Passaic River, New Jersey." Sci Tot Environ 408(6):1468–1470.

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BOOK CHAPTER

Staskal DF, Birnbaum LS, **Haws LC**. 2011. Application of a relative potency factor approach in the assessment of health risks associated with exposures to mixtures of dioxin-like compounds. In: Mumtaz M (Ed), The Principles and Practice of Mixtures Toxicology. Wiley, ISBN 978-3-527-63211-4.

ABSTRACTS AND PRESENTATIONS

Buerger AN, Heintz MM, **Haws LC**, Nyambego H, Palermo CM, Thompson CM. Mode of action and human relevance assessment for diisononyl phthalate (DINP)-induced liver tumors in rodents. Abstract 3324, Society of Toxicology 65th Annual Meeting, San Diego, CA, March 2026.

Buerger AN, Lea IA, Vincent MJ, Rivera BN, Choksi NY, Britt J, Fitch S,..., **Haws L**, et al. Systematic evaluation of the carcinogenic potential of di-isononyl phthalate in humans. Abstract 3314, Society of Toxicology 65th Annual Meeting, San Diego, CA, March 2026.

Fitch S, Wikoff D, Foreman J, Buerger A, **Haws L**, Palmero C. Assessment of relative potency factors for six phthalates. Abstract 4235, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Haws L. (Chair). Opening plenary session: Climate risks to human health. Featured Session, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Haws LC, Weiser T (Co-Chairs). EUROTOX award lecture: Endocrine disruptors and microplastics: Facing complexity with connection. Featured Session, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Haws LC, Weiser T (Co-Chairs). Merit award lecture: Mechanism-focused research: The foundation for carcinogenic risk assessment. Featured Session, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Heintz MM, Buerger AN, **Haws LC**, East AW, Cullen JM, Thompson CM. Comparison of phenotypic and transcriptomic profiles between HFPO-DA and prototypical PPARα, PPARγ, and cytotoxic agents in wild-type and PPARα knockout mice. Abstract 3972, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Rogers JM, Heintz MM, **Haws LC**. Reproduction/developmental toxicity screen and extended one generation reproductive toxicity study of decahydronaphthalene in Sprague Dawley rats. Abstract 3864, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Thompson CM, Heintz MM, Cullen JM, **Haws LC**. Evaluation of the chronic toxicity and carcinogenicity of ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-propanoate (HFPO-DA) in mice. Abstract 4700, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

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Heintz M, Klaren W, East A, **Haws L**, Thompson C. Delayed transcriptomic responses in PPARa knockout mouse hepatocytes compared to wild-type hepatocytes exposed to HFPO-DA or PPARa agonist GW7647: Support for a PPARa-dependent mode of action for HFPO-DA in mouse hepatocytes. Abstract 4100, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Thompson CM, Heintz MM, Rogers SI, Fitch SE, Rivera BN, Klaren WD, Vincent MJ, Wikoff DS, **Haws LC**. Evidence identification and appraisal supporting development of an updated toxicity value for HFPO-DA. Abstract 3654, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Lea IA, Feifarek D, Mihalchik A, Heintz M, **Haws L**, Nyambego H, Goyak K, Borghoff SJ. Evaluation of the endocrine disrupting potential of di-isodecyl phthalate. Abstract 3930, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

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Klaren WD, Heintz MM, East AW, Thompson CM, **Haws LC**. *In vitro* transcriptomic analyses informing the mode of action of HFPO-DA (GenX) in the liver. Poster presented at Society of Toxicology 62nd Annual Meeting, Nashville, TN, March 2023.

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Heintz MM, LaPlaca SB, **Haws LC**. Application of an integrated ecotoxicological study reliability tool in the derivation of predicted no-effect concentrations for short chain and ultrashort chain per- and polyfluoroalkyl substances. Poster presented at Society of Environmental Toxicology and Chemistry (SETAC), Philadelphia, PA, November 2022.

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Haws, LC. Invited Speaker. Risk Characterization of PFAS – Challenges and Opportunities. The Science of PFAS: Chemistry, Health, and Multimedia Measurements. Air & Waste Management Association Virtual Conference. September 2020.

Lafranconi M, Budinsky R, Corey L, **Haws L**, Klapacz J, Chappell G, Golden R. Exposure to 1,4-dioxane above the metabolic saturation threshold induces a mitogenic key element in the mouse liver cancer mode of action. Abstract #1505, Society of Toxicology 59th Annual Meeting, Virtual, 2020.

Ring C, Fitch S, **Haws L**, Harris M, Wikoff D. Quantitative integration of dose-response data for relative potency estimates of dioxin-like chemicals. Poster for Society of Toxicology 59th Annual Meeting, Virtual, 2020, https://eventpilotadmin.com/web/page.php?page=Session&project=SOT20&id=P3385.

Thompson CM, Ring C, Pham L, Chappell GA, **Haws LC**. Assessment of the relevance of toxicological findings in the development of an oral reference dose for GenX. Poster for Society of Toxicology 59th Annual Meeting, Virtual, 2020, https://eventpilotadmin.com/web/page.php?page=Session&project=SOT20&id=P2764.

Haws L (Session Co-Chair). Introduction — Use of New Approach Methods in Risk Characterization of PFAS: Challenges and Opportunities. 44th Annual Winter Meeting, the Toxicology Forum, Tysons, VA, January 27–29, 2020 (see: https://dialogue.toxforum.org/d/do/894).

Thompson C, Chappell G, Cullen J, Wolf JC, **Haws L**. Development of an oral reference dose for GenX using the latest toxicological and risk assessment methodologies: Environmental risk assessment of per- and polyfluoroalkyl substances (PFAS). SETAC North America Focused Topic Meeting, Durham, NC, August 2019.

Urban J, Wikoff D, **Haws L**. Three-tiered approach to integrating evidence streams assessing gestational trichloroethylene exposure and congenital heart defects (TCE-CHD). Poster at Evidence Integration in Chemical Assessments: Challenges Faced in Developing and Communicating Human Health Effect Conclusions. National Academies of Sciences, Engineering, and Medicine. Washington, DC, June 2019.

Urban J, Wikoff D, Suh M, Britt J, Harvey S, Chappell G, **Haws L**. Comparison of NTP OHAT and US EPA TSCA study quality criteria: Trichloroethylene (TCE) and congenital heart defects (CHDs) as a case study. Poster at Society of Toxicology 58th Annual Meeting, Baltimore, MD, March 2019.

Ring CL, Urban J, Wikoff D, Thompson C, Budinsky RA, **Haws LC**. Application of systematic review and quantitative evidence integration methods to support risk assessment: Characterization of the dose-response relationship between exposure to dioxin-like compounds (DLC) and sperm count. Poster at Society of Toxicology 58th Annual Meeting, Baltimore, MD, March 2019.

Haws LC. Building a firm from the ground up. Society of Toxicology Career Resources and Development Committee webinar: So, You Want to Be a Consultant. February 12, 2019.

Thompson CM, Wolf JC, Suh M, Proctor DM, **Haws LC**, Harris MA. Toxicity and recovery in the duodenum of B6C3F1mice following treatment with intestinal carcinogens; captan, folpet, and hexavalent chromium: Evidence for an adverse outcome pathway. Society of Toxicology 57th Annual Meeting, San Antonio, TX, March 2018.

Thompson CM, Suh M, Proctor DM, **Haws LC**, Harris MA. Ten factors for considering the mode-of-action of Cr(VI)-induced intestinal tumors in rodents. Society of Toxicology 57th Annual Meeting, San Antonio, TX, March 2018.

Wikoff D, Goodrum P, **Haws L**, Budinsky R. Application of quantitative approaches to assess uncertainties in the development of toxicity values: A case study involving the reference dose (RfD) for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). Society of Toxicology 57th Annual Meeting, San Antonio, TX, March 2018.

Urban JD, Harvey S, **Haws LC**, Wikoff, D. Assessment of study quality (risk of bias) in understanding the relationship between congenital heart defects (CHDs) and exposures to trichloroethylene (TCE). Society of Toxicology 57th Annual Meeting, San Antonio, TX, March 2018.

Wikoff DS, Rager JE, Harvey S, **Haws L**, Chappell G, Borghoff S. Development and refinement of a framework for quantitative consideration of study quality and relevance in the evaluation of mechanistic data based on Key Characteristics of Carcinogens. Society of Risk Analysis Annual Meeting, Arlington, VA, December 2017.

Thompson C, Rager J, Suh M, Proctor D, **Haws L**, Harris M. Mechanistic support for nonlinear risk assessment of rat oral cavity tumors induced by exposure to Cr(VI) in drinking water. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 2017.

Kirman CR, Proctor D, Suh M, **Haws L**, Harris M, Thompson C, Hays S. Using physiologically-based pharmacokinetic modeling to address potentially sensitive subpopulations exposure to hexavalent chromium. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 2017.

Wikoff DS, Rager J, Harvey S, **Haws L**, Chappell G, Borghoff S. Framework for quantitative consideration of study quality and relevance in the systematic evaluation of mechanistic data per the Ten Key Characteristics of Carcinogens. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 2017.

Thompson C, Kirman C, Suh M, Proctor D, **Haws L**, Harris M, Hays S. Risk assessment of oral exposure to Cr(VI): Integration of mode of action, pharmacokinetics, and dose-response modeling. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 2017.

Haws LC. Is there a need for short-term response actions for trichloroethylene? A toxicologist's view. Invited Speaker. Presented at the Air and Waste Management Association's Vapor Intrusion, Remediation, and Site Closure Conference – Balancing Technical Defensibility, Risk, Sustainability, and Costs, San Diego, CA, December 2016.

Haws LC. Vapor intrusion – Solid ground or quick sand? Invited Speaker. Presented at the 28th Annual Texas Environmental Superconference, Austin, TX, August 2016.

Haws LC. Vapor intrusion – Technical issues. Invited Speaker. Presented at the Semi-Annual South Central Regional Meeting of the Auditing Roundtable, Austin, TX, August 2016.

Haws LC. Trichlorethylene exposure and development of fetal cardiac malformations: What do the data tell us about inhalation exposures resulting from vapor intrusion and potential health risks to pregnant women? – Introduction. Presented at Society of Toxicology 55th Annual Meeting, New Orleans, LA, March 2016.

Borghoff SJ, Wikoff D, Rager JE, **Haws LC**. Tetrabromobisphenol A (TBBPA): Dose- and time-dependent changes in plasma TBBPA and its conjugates over 28 days of administration. Presented at the Society of Toxicology 55th Annual Meeting, New Orleans, LA, March 2016.

Thompson CM, Suh M, Proctor DM, Rager JE, **LC Haws LC**, Harris MA. Assessment of the in vivo genotoxicity of CrVI in target organs identified in a two-year cancer bioassay. Presented at Society of Toxicology 55th Annual Meeting, New Orleans, LA, March 2016.

Wikoff D, Borghoff SJ, Rager JE, **Haws LC**. Human relevance assessment of tetrabromobisphenol-A (TBBPA) induced uterine adenocarcinomas: Mode of action dependent on high dose molecular initiating event (MIE). Presented in the "Flame Retardants" Session of Society of Toxicology 55th Annual Meeting, New Orleans, LA, March 2016.

Urban JD, Thompson CM, Plunkett LM, Perry CS, **Haws LC**. A state of the science copper reference dose for soil remediation. Presented at Society of Toxicology 54th Annual Meeting, San Diego, CA, March 2015.

Harris MA, Thompson CM, Proctor DM, Suh M, Wolf JC, Seiter JM, Chappell MA, **Haws LC.** Analysis of duodenal crypt health following exposure to Cr(VI) in drinking water. Presented at Society of Toxicology 54th Annual Meeting, San Diego, CA, March 2015.

Borghoff SJ, Wikoff D, White MC, Thompson C, and **Haws LC.** Identification of the molecular initiating event (MIE) for TBBPA induced uterine tumors in the framework of an adverse outcome pathway (AOP). Presented at Society of Toxicology 54th Annual Meeting. San Diego, CA, March 2015.

Thompson C, Suh M, Proctor D, **Haws L,** Hixon J, Wolf J, Young R, Elbekai R, O'Brien T, Parsons B, Seiter J, Chappell G, Harris M. 2015. Follow-up assessment of in vivo genotoxicity in target organs of relevant species

identified from a two-year cancer bioassay: Case study with hexavalent chromium. Environ Molec Mutagen 56:S52–S52.

Wikoff D, White MC, Borghoff SJ, **Haws LC**. Evaluation of tetrabromobisphenol A (TBBPA)-induced endocrine-related target gene activity using high-throughput screening data from ToxCast. Presented at Society of Toxicology 54th Annual Meeting, San Diego, CA, March 2015.

Haws LC, Thompson C, Perry C, White M, Fitzgerald L, Borghoff S, Wikoff D. Development of non-cancer based toxicity factors and daily dose estimates for TBBPA. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, March 2014.

Thompson CM, Proctor DM, Suh M, Wolf JC, **Haws LC**, Seiter JM, Chappell MA, Harris MA. X-ray fluorescence microspectroscopic analysis of duodenal mucosae following Cr(VI) exposure in drinking water. Presented at Society of Toxicology 53rd Annual Meeting. Phoenix, AZ, March 2014.

Wikoff D, Thompson C, Perry C, White M, Fitzgerald L, Borghoff S, **Haws LC.** Development of an oral cancer slope factor and lifetime average daily dose estimates for TBBPA. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, March 2014.

Wikoff D, Fitzgerald L, **Haws L**, Harris M**.** Health-based framework for evaluating the safety of hydraulic fracturing products. Presented at Society of Toxicology 52nd Annual Meeting, March 10-14, 2013. San Antonio, TX, March 2013.

Suh M, Thompson CM, Hixon JG, Harris MA, Kirman CR, Hays S, **Haws LC**, Proctor DM**.** Potential involvement of oxidative stress and iron disturbance in the development of oral cavity tumors in rats exposed to hexavalent chromium. Presented at the Society of Toxicology 52nd Annual Meeting, San Antonio, TX, March 2013.

Urban JD, Thompson CM, Deskin R, Waite M, **Haws LC.** Development of an oral cancer slope factor for acrylamide based on tumors relevant to humans. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, March 2013.

Kirman CR, Thompson CM, Proctor DM, Suh M**, Haws LC**, Harris MA, Hays SM. Using PBPK modeling to address diurnal variation and age differences in hexavalent chromium toxicokinetics in humans. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, March 2013.

Harris MA, Thompson CM, Wolf JC, Fedorov Y, Hixon JG, Proctor DM, Suh M, **Haws LC**. Assessment of genotoxic potential of Cr(VI) in the intestine via in vivo intestinal micronucleus assay and in vitro high content analysis in differentiated and undifferentiated Caco-2. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 2012.

Haws L, Fitzgerald L, Burkhalter K, Wikoff D. US EPA's proposed toxicity values for TCDD: Implications for decision-making regarding the safety of foods in the United States. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 2012.

Perry C, Tachovsky JA, Ke M, Urban J, **Haws L**. Natural gas exploration and production in the Barnett Shale: Assessment of exposures to volatile organic compounds (VOCs). Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 2012.

Proctor DM, Thompson CM, Suh M, **Haws LC**, Harris MA. Mode of action for intestinal carcinogenesis of ingested hexavalent chromium in mice. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 2012.

Thompson CM, Hixon JG, Kopec AK, Harris MA, Proctor DM, **Haws LC.** Assessment of genotoxic potential of Cr(VI) in the mouse duodenum via toxicogenomic profiling. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 2012.

Wikoff D, DeVito M, Walker N, Hixon G, Harris M, Tachovsky A, Birnbaum L, **Haws L.** Application of machine learning in the development of a weighting framework for evaluating estimates of relative potency for dioxin-like compounds. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA. March 2012.

Haws L, Thompson C, Proctor D, Suh M, Harris M. Overview of the Hexavalent Chromium Mode of Action Research Project. Presented at the 37th Annual Winter Meeting of The Toxicology Forum, Washington, DC, January 31-February 2, 2012.

Proctor D, Thompson C, Suh M, **Haws L**, Hays S, Kirman C, Aylward L, Harris M. Using MOA Information and pharmacokinetics to improve quantitative estimates of human cancer risk associated with oral exposures to hexavalent chromium. Presented at the 37th Annual Winter Meeting of The Toxicology Forum, Washington, DC, January 31-February 2, 2012.

Zacharewski T, Kopec A, Thompson C, Proctor D, Suh M, **Haws L**, Harris M. Using toxicogenomics to identify key events in the MOA for oral carcinogenicity of Cr(VI). Presented at the 37th Annual Winter Meeting of The Toxicology Forum, Washington, DC, January 31-February 2, 2012.

Hays S, Kirman C, Aylward L, Proctor D, Suh M, Thompson C, **Haws L**, Harris M. Using pharmacokinetics to improve extrapolation of high dose findings in rodents exposed to hexavalent chromium in drinking water to low dose exposures in humans. Presented at the 37th Annual Winter Meeting of The Toxicology Forum, Washington, D.C., January 31-February 2, 2012.

Diliberto JJ, Sirinek L, Burkhalter B, Wikoff D.S, Hixon G, Becker J, Patterson DG, Turner W, Tachovsky JA, Birnbaum LS, **Haws LC.** Endometriosis in a cohort of women living in the Kanawha River Valley in West Virginia: Blood levels of non-dioxin-like PCBs and relationship with BMI and age. Presented at Dioxin 2011, Brussels, Belgium, August 21-25, 2011.

Haws LC, DeVito MJ, Walker NJ, Harris MA, Tachovsky JA, Birnbaum LS, Farland WH, Wikoff DS. Development of a consensus-based weighting framework for evaluating estimates of relative potency for dioxin-like compounds that includes consideration of data from human cells. Presented at Dioxin 2011, Brussels, Belgium, August 21-25, 2011.

Haws LC, Fitzgerald L, Burkhalter B, Harris M, Wikoff DS. Assessment of the US EPA's proposed toxicological values for TCDD for regulation of dioxin-like compounds in foods: Bridging the science divide in a global market. Presented at Dioxin 2011, Brussels, Belgium, August 21-25, 2011.

Wikoff DS, Thompson C, Walker N, DeVito M, Harris M, Birnbaum L, **Haws L**. Derivation of relative potency estimates using benchmark dose modeling: a case study with TCDF. Presented at Dioxin 2011, Brussels, Belgium, August 21-25, 2011.

Haws L, Tachovsky A, Aylward L, Urban J, Fitzgerald L, Harris M, Wikoff D. Using toxicokinetics to improve soil exposure and risk assessments. Presented at the 37th Annual Summer Meeting of The Toxicology Forum, Aspen, CO, July 10-14, 2011.

Harris M, Proctor D, **Haws L**, Suh M, Thompson C. Hexavalent Chromium Mode of Action Research Program: Current findings. Presented at the USEPA Science Advisory Panel Meeting on the Draft EPA Toxicological Review of Hexavalent Chromium, Washington, DC, May 12, 2011.

Haws L, Thompson C, Proctor D, Suh, M, Harris M. Hexavalent Chromium Mode of Action Research Program: Overview. Presented at the USEPA Science Advisory Panel Meeting on the Draft EPA Toxicological Review of Hexavalent Chromium. Washington, DC, May 12, 2011.

Proctor D, Thompson C, Suh M, **Haws L**, Harris, M. Hexavalent Chromium Mode of Action Research Project to advance risk assessment. Presented at the USEPA Science Advisory Panel Meeting on the Draft EPA Toxicological Review of Hexavalent Chromium, May 12, 2011. Washington, D.C.

Fitzgerald L, Burkhalter B, Urban J, Staskal D, Harris M, **Haws L**. VOC serum levels in the general U.S. population: An analysis of the 2003-2004 NHANES dataset. Presented at Society of Toxicology 50th Annual Meeting, Washington, DC, March 2011.

Haws L, Proctor D, Thompson C, Harris M. Research plan to fill data gaps in the mode of action for cancer risk assessment of hexavalent chromium in drinking water. Presented at Society of Toxicology 50th Annual Meeting, Washington, DC, March 2011.

Proctor D, Thompson C, **Haws L,** Harris M. Use of mode of action and pharmacokinetic findings to inform the cancer risk assessment of ingested Cr(VI): A Case Study. P resented at Society of Toxicology 50th Annual Meeting, Washington, DC, March 2011.

Thompson C, Perry C, Gaylor D, Tachovsky A, Burkhalter B, **Haws L**. Derivation of an oral reference dose and drinking water screening level for sulfolane using benchmark dose modeling. Presented at Society of Toxicology 50th Annual Meeting. Washington, DC, March 2011.

Urban J, Fitzgerald L, Burkhalter B, Staskal D, Harris M, **Haws L**. BTEX serum levels in the general U.S. population: An analysis of 2003-2004 NHANES dataset. Presented at Society of Toxicology 50th Annual Meeting. Washington, DC, March 2011.

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