Chadwick M. Thompson, Ph.D., M.B.A., ATS

SENIOR MANAGING SCIENTIST

MECHANISTIC AND COMPUTATIONAL BIOLOGY

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Dr. Chad M. Thompson holds a doctoral degree in Biomedical Sciences and specializes in mechanistic and quantitative aspects of risk assessment. He has written extensively on the mode of action (MOA) of high-profile compounds such as formaldehyde, hexavalent chromium, PFAS, and dioxin. He has also helped design, conduct, and analyze multimillion-dollar research projects with a focus on understanding the toxicity of environmental contaminants and application of such information to risk assessment. Dr. Thompson has extensive experience in dose-response modeling (including benchmark dose modeling), and he helped develop dose-response packages for the R statistical language (www.r-project.org).

Dr. Thompson specializes in the integration of dose-response, toxicological, and mechanistic information in human health risk assessment. As a former health scientist at the U.S. Environmental Protection Agency (EPA), he is a co-author of multiple IRIS chemical risk assessments, as well as several agency documents on risk assessment practices and policies, including the application of physiologically based pharmacokinetic (PBPK) models, toxicogenomic data, and lifestage susceptibility information in risk assessment.

Dr. Thompson is a coauthor of more than 100 publications in the peer-reviewed literature, many of which pertain directly to human health risk assessment. He is a former Risk Policy Fellow with the American Association for the Advancement of Science (AAAS). In June 2025, in recognition of his deep expertise and sound scientific judgment in the field of toxicology, Dr. Thompson was named a Fellow of the Academy of Toxicological Sciences (ATS).

EDUCATION AND DEGREES EARNED

2001 M.B.A., Virginia Commonwealth University, Richmond, VA

1999 Ph.D., Biomedical Sciences, University of Texas Health Science Center, Houston

1994 B.S., Psychology (*cum laude*), Old Dominion University, Norfolk, VA

PROFESSIONAL HONORS/AWARDS

2025 Fellow, Academy of Toxicological Sciences (ATS)

2013 Society of Toxicology Risk Assessment Specially Session (RASS) top 10 papers of 2012

2012 Society of Toxicology Risk Assessment Specially Session (RASS) top 10 papers of 2011

2010 Society of Toxicology Risk Assessment Specially Session (RASS) top 10 abstracts of the year award

2009 Level II Scientific and Technological Achievement Awards (STAA): Developing Guidelines for Physiologically Based Pharmacokinetic (PBPK) Modeling in Quantitative Risk Assessment

2009 Level III Scientific and Technological Achievement Awards (STAA): Outlining the Sensitivity of Inferences on Mode-of-Action and Cancer Risk Estimates using Clonal Growth Models

2009 Honorable Mention: A Groundbreaking Lifestage-Specific Approach to Health Risk Assessment of Environmental Exposures

2008 Superior Performance Award, cash award from U.S. EPA

2007 U.S. EPA Bronze Medal Award for preparing A Framework for Assessing Health Risk of Environmental Exposures to Children

2007 Superior Performance Award, cash award from U.S. EPA

2006 U.S. EPA Bronze Medal Award for preparing Approaches for the Application of Physiologically Based Pharmacokinetic Models and Supporting Data in Risk Assessment

2006 Superior Performance Award, cash award from U.S. EPA

2004 2004–2005 AAAS Science & Technology Policy Fellowship

2003 2003–2004 AAAS Science & Technology Policy Fellowship

2003 Ruth L. Kirschstein National Research Service Awards for Individual Postdoctoral Fellows (declined in order to accept the AAAS Science & Technology Policy Fellowship)

PROFESSIONAL ASSOCIATIONS

American Association for the Advancement of Science

Society of Toxicology, RASS Specialty Section, Mechanisms Specialty Section

SERVICE/PEER REVIEW

Biomedical and Environmental Sciences
Cell Biology & Toxicology
Chemical Research in Toxicology
Chemosphere
Critical Reviews in Toxicology
Drug & Chemical Toxicology
Environmental Research
Environmental Toxicology & Pharmacology
Expert Opinion on Drug Metabolism & Toxicology
Food & Chemical Toxicology
Human and Ecological Risk Assessment
International Journal of Medical Sciences
Journal of Toxicology and Environmental Health
Journal of Applied Toxicology
Regulatory Toxicology and Pharmacology
Toxicology and Applied Pharmacology
Toxicology Letters
Toxicological Sciences

SELECTED PROFESSIONAL EXPERIENCE

Toxicological Risk Assessment

Evaluated and interpreted toxicology data on a variety of environmental contaminants, including formaldehyde, methanol, chromium, nickel, dioxin and dioxin-like compounds (DLCs), brominated flame retardants, and various VOCs. Areas of expertise include hazard characterization, and dose-response analysis, pharmacokinetics, and developments of toxicity and safety values.

Conducted toxicological evaluations of chemical substances present or potentially present in vaccines, and also derived safe levels for excipients, detergents, surfactants, and other chemicals used in the production or inactivation of vaccine products.

Conducted comprehensive literature reviews on the toxicology of nickel compounds in support of registration under the Registration, Evaluation & Authorisation of Chemicals (REACH) initiative. Populated an International Uniform Chemical Information Database (IUCLID) for each substance. Evaluated key studies for reliability and relevance, synthesized large volumes of data, and generated integrative reports.

Developed, managed, analyzed, and published research into the mode of action (MOA) of intestinal tumors in mice exposed to hexavalent chromium [Cr(VI)] in drinking water. Analyzed in vivo and in vitro toxicological responses, including toxicogenomic and genotoxic endpoints.

Analyzed dose-response data pertinent to the development of safety values for oral exposure to Cr(VI) using benchmark dose and constrained nonlinear regression modeling techniques.

Communicated toxicological study findings on Cr(VI) to regulatory authorities across North America.

Collaborated with international researchers to develop methods for assessing the presence or absence of potential thresholds in the dose response of genotoxic endpoints both in vitro and in vivo.

Assisted in the development of an R language script (viz., drsmooth) for using smoothing splines to determine point-of-departure values in toxicological dose-response data sets.

Explored techniques for deriving relative potency estimates for DLCs using toxicogenomics and dose-response modeling methods.

Prepared comments on several external review drafts developed by regulatory agencies, including draft risk assessments, toxicological bioassays, and risk assessment practices and policy documents.

Coordinated and co-wrote portions of U.S. EPA IRIS chemical risk assessments, including reactive gases (e.g., formaldehyde) and systematically distributing compounds (methanol).

Evaluated Provisional Peer-Reviewed Toxicity Values (PPRTVs) for benzene and propene derivatives for U.S. EPA's Superfund program.

Served as a member of the U.S. EPA Pharmacokinetic Workgroup that provides expert consultation to EPA chemical managers regarding the application of PBPK models for ongoing assessments.

Regulatory Toxicology

Coordinated the completion and review of several risk assessment documents—including those related to the use of PBPK models for application in risk assessment, qualitative and quantitative approaches to considering children's susceptibility, and the exploration of the use of "omics" data in hazard characterization and dose-response in risk assessment. Co-author of:

- Approaches for the Application of Physiologically Based Pharmacokinetic Models and Supporting Data in Risk Assessment (http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=157668)
- A Framework for Assessing Health Risks of Environmental Exposures to Children (http://cfpub.epa. gov/ncea/cfm/recordisplay.cfm?deid=158363)
- An Approach to Using Toxicogenomics Data in EPA Risk Assessments (http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=213405)

Research & Development

Managed the development of Access databases containing physiological data for supporting PBPK model development for humans of various life stages and health conditions, as well as laboratory species.

Collaborated and published with national and international academic scientists on the collection, characterization, and analysis of lifestage-specific physiological data and their application in PBPK modeling and risk assessment.

Collaborated and, with scientists at Karolinska Institute and the VTT Technical Research Centre of Finland, published on mechanisms of formaldehyde toxicity—including potential respiratory effects relating to the dual function of alcohol dehydrogenase 3 in the oxidation of formaldehyde and reduction of the endogenous bronchodilator S-nitrosoglutathione (GSNO).

Project Management

Assisted in the oversight of a multimillion-dollar research project on the mode of action of hexavalent chromium. Responsibilities included direct interaction with contract laboratories regarding aspects of final study design, contract review, schedule oversight, managing and authorizing payments to contractors, providing scientific consultation and judgment on technical issues, and providing final approval on delivered work products.

Served as the Technical Project Officer on several contracts with outside vendors. Responsibilities included developing cost estimates for bid proposals, managing and approving payments to contractors, writing statements of work, reviewing and selecting bid contracts providing scientific consultation and judgment on technical issues related to contracts, and providing final approval on delivered contract products.

Litigation Support

Prepared (and rebutted) expert reports for formaldehyde litigation relating to alleged adverse health effects from formaldehyde and mobile home exposures.

Taught CLE course related to causation and Havner guidelines.

COMPUTER AND LANGUAGE SKILLS

Ingenuity Pathways Analysis (IPA), IUCLID 5, U.S. EPA's Benchmark Dose Modeling Software (BMDS); PROAST, BMDExpress, U.S. EPA's Regional Deposited Dose Ratio (RDDR) software v. 2.3, Multi-Path Model of Particle Deposition (MPPD) v. 2.1, Berkeley Madonna (ordinary differential equation solver); GraphPad Prism, @RISK Monte Carlo Software, Microsoft Office (including Access); Minitab Statistical Package, R statistical language.

MANUSCRIPTS

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 24. PMID: 42035978.

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 April 10:kfag045; doi: 10.1093/toxsci/kfag045. Online ahead of print April 10th. PMID: 41968070.

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. PMID: 41920860.

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. PMID: 41391658.

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. PMID: 40914479.

Brorby G, Franzen A, **Thompson C**, Wikoff D, Doepker C. 2025. Human health risk assessment of three smoke flavoring primary products. Food Chem Toxicol 202(Aug):115490; doi: 10.1016/j.fct.2025.115490. PMID: 40320068.

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. Toxicol Sci 206(1):183-201; doi: 10.1093/toxsci/kfaf049. PMID: 40216583.

Proctor D, Jiang X, Reichert H, **Thompson C**. 2025. Why rat oral cavity tumors should not be the basis of quantitative cancer risk assessment for oral exposure to hexavalent chromium. Toxicol Sci 208(1):42-47; doi: 10.1093/toxsci/kfaf112. PMID: 40795394.

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. PMID: 38574385.

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. PMID: 38574381.

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.

Vincent MJ, Fitch S, Bylsma L, **Thompson C**, Rogers S, Britt J, Wikoff D. 2024. Assessment of associations between inhaled formaldehyde and lymphohematopoietic cancer through the integration of epidemiological and toxicological evidence with biological plausibility. Toxicol Sci 199(2):172–193; open access.

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. PMID: 36629480; PMCID: PMC10025879.

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 Def Res 115:1011–1062.

Thompson CM, Brorby G, Keig-Shevlin Z, Smith R, Franzen A, Ulrich K, Blanchette AD, Doepker C. 2023. Assessment of the in vivo genotoxic potential of three smoke flavoring primary product mixtures. Environ Mol Mutagen 64(8–9):420–431; doi: 10.1002/em.22576.

Thompson CM, Heintz MM, Wolf J, 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. PMID: 36987989.

Thompson CM, Kirman C, Harris MA. 2023. Derivation of oral cancer slope factors for hexavalent chromium informed by pharmacokinetic models and *in vivo* genotoxicity data. Regul Toxicol Pharmacol 145:105521; doi: 10.1016/j.yrtph.2023.105521.

Thompson CM, Proctor DM, Harris MA. 2023. Letter to "Chepelev et al. Establishing a quantitative framework for regulatory interpretation of genetic toxicity dose-response data: Margin of exposure case study of 48 compounds with both in vivo mutagenicity and carcinogenicity dose-response data." Environ Mol Mutagen 64(4):259–260; doi: 10.1002/em.22537.

Chappell GA, Wolf JC, **Thompson CM**. 2022. Crypt and villus transcriptomic responses in mouse small intestine following oral exposure to hexavalent chromium. Toxicol Sci 186(1):43-57; doi: 10.1093/toxsci/kfab152. PMID: 34935971.

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.

Lea IA, Pham LL, Antonijevic T, **Thompson C**, Borghoff SJ. 2022. Assessment of the applicability of the threshold of toxicological concern for per- and polyfluoroalkyl substances. Regul Toxicol Pharmacol 133:105190, open access.

Chappell GA, Wikoff DS, **Thompson CM**. 2021. Assessment of mechanistic data for hexavalent chromium-induced rodent intestinal cancer using the key characteristics of carcinogens. Toxicol Sci 180(1):38-50; doi: 10.1093/toxsci/kfaa187.

Felter SP, Zhang X, **Thompson C**. 2021. Butylated hydroxyanisole: Carcinogenic food additive to be avoided or harmless antioxidant important to protect food supply? Regul Toxicol Pharmacol 121:104887.

Proctor DM, Bhat V, Suh M, Reichert H, Jiang X, **Thompson CM**. 2021. Inhalation cancer risk assessment for environmental exposure to hexavalent chromium: Comparison of margin-of-of exposure and linear extrapolation approaches. Regul Toxicol Pharmacol 124:104969; doi: 10.1016/j.yrtph.2021.104969.

Thompson CM, Aardema MJ, Heintz MM, MacGregor JT, Young RR. 2021. A review of mammalian *in vivo* genotoxicity of hexavalent chromium: Implications for oral carcinogenicity risk assessment. Crit Rev Toxicol 51(10):820-849; doi: 10.1080/10408444.2021.2000934.

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.

Bhat VS, Cohen SM, Gordon EB, Wood CE, Cullen JM, Harris MA, Proctor DM, **Thompson CM**. 2020. An adverse outcome pathway for small intestinal tumors in mice involving chronic cytotoxicity and regenerative hyperplasia: A case study with hexavalent chromium, captan, and folpet. Crit Rev Toxicol (open access); doi: 10.1080/10408444.2020.1823934.

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. PMID: 32138627.

Gentry R, **Thompson CM**, Franzen A, Salley J, Albertini R, Lu K, Greene T. 2020. Using mechanistic information to support evidence integration and synthesis: A case study with inhaled formaldehyde and leukemia. Crit Rev Toxicol 50(10):885–918; doi: 10.1080/10408444.2020.1854678.

Pham LL, Borghoff SJ, **Thompson CM**. 2020. Comparison of threshold of toxicological concern (TTC) values to oral reference dose (RfD) values. Regul Toxicol Pharmacol 113:104651 (open access); doi: 10.1016/j.yrtph.2020.104651.

Thompson CM, Gentry R, Fitch S, Lu K, Clewell HJ. 2020. An updated mode of action and human relevance framework evaluation for formaldehyde-related nasal tumors. Crit Rev Toxicol 50(10):919–952; doi: 10.1080/10408444.2020.1854679.

Thompson CM, Donahue DA, Hobbs C, Costecalde Y, Franzen A, Suh M, Proctor DM, Harris MA. 2020. Exposure to environmentally-relevant concentrations of hexavalent chromium does not induce ovarian toxicity in mice. Regul Toxicol Pharmacol 116:104729; doi: 10.1016/j.yrtph.2020.104729.

Andersen ME, Gentry PR, Swenberg JA, Mundt KA, White KW, **Thompson C**, Bus J, Sherman JH, et al. 2019. Considerations for refining the risk assessment process for formaldehyde: Results from an interdisciplinary workshop. Regul Toxicol Pharmacol 106:210–223.

Chappell G, Rager J, Wolf J, Babic M, Leblanc, Ring C, Harris MA, **Thompson CM.** 2019. Comparison of gene expression responses in the small intestine of mice following exposure to three carcinogens using the S1500+ gene set informs a potential common adverse outcome pathway. Toxicol Pathol 47(7):851–864; doi: 10.1177/0192623319873882.

Clewell RA, **Thompson CM**, Clewell HJ. 2019. Dose-dependence of chemical carcinogenicity: Biological mechanisms for thresholds and implications for risk assessment. Chem Biol Interact 301:112–127.

Klaren WD, Ring C, Harris MA, Thompson CM, Borghoff S, Sipes NS, Hsieh J-H, Auerbach SS, Rager JE. 2019. Identifying attributes that influence in vitro-to-in vivo concordance by comparing in vitro Tox21 bioactivity versus in vivo DrugMatrix transcriptomic responses across 130 chemicals. Toxicol Sci 167(1):157-171; doi: 10.1093/toxsci/kfy220.

Rager JE, Suh M, Chappell G, **Thompson CM**, Proctor DM. 2019. Review of transcriptomic responses to hexavalent chromium exposure in lung cells supports a role of epigenetic mediators in carcinogenesis. Toxicol Lett 305:40–50.

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 39:1267–1282; doi: 10.1002/jat.3812.

Moffat I, Martinova N, Seidel C, **Thompson CM.** 2018. Hexavalent chromium in drinking water. J AWWA 110:5.

Proctor DM, Suh M, Chappell G, Borghoff SJ, **Thompson CM**, Wiench K, Finch L, Ellis-Hutchings R. 2018. An adverse outcome pathway (AOP) for forestomach tumors induced by non-genotoxic initiating events. Regul Toxicol Pharmacol 96:30–40; doi: 10.1016/j.yrtph.2018.04.016.

Suh M, Proctor DM, Chappell G, Rager JE, **Thompson CM**, Borghoff S, Finch L, Ellis-Hutchings R, Wiench K. 2018. A review of the genotoxic, mutagenic, and carcinogenic potentials of several lower acrylates. Toxicology 402–403:50–67; doi: 10.1016/j.tox.2018.04.006.

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 38:351–365; doi: 10.1002/jat.3545.

Thompson CT, Suh M, Chappell G, Borghoff S, Ellis-Hutchings R, Wiench K, Finch L, Proctor DM. 2018. Assessment of the mode of action underlying development of forestomach tumors in rodents following oral exposure to ethyl acrylate and relevance to humans. Regul Toxicol Pharmacol 96:178–189; doi: 10.1016/j.yrtph.2018.05.006.

Wikoff DS, **Thompson C**, Rager J, Chappell G, Fitch S, Doepker C. 2018. Benefit-risk analysis for foods (BRAFO): Evaluation of exposure to dietary nitrates. Food Chem Toxicol 120(Oct):709-723; doi: 10.1016/j.fct.2018.08.031.

Rager JE, Auerbach SS, Chappell GA, Martin E, **Thompson CM**, Fry RC. 2017. Benchmark dose modeling estimates of the concentrations of inorganic arsenic that induce changes to the neonatal transcriptome, proteome, and epigenome in a pregnancy cohort. Chem Res Toxicol 30(10):1911–1920; doi: 10.1021/acs.chemrestox.7b00221.

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, 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 823:45–57.

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Thompson CM, Young RR, Dinesdurage H, Suh M, Harris MA, Rohr AC, Proctor DM. 2017. Assessment of the mutagenic potential of hexavalent chromium in the duodenum of Big Blue® rats. Toxicol Appl Pharmacol 330(1):48-52.

Cullen JM, Ward JM, Thompson CM. 2016. Reevaluation and classification of duodenal lesions in B6C3F1 mice and F344 rats from 4 studies of hexavalent chromium in drinking water. Toxicol Path. 44(2):279-89.

Suh M, **Thompson CM**, Brorby GP, Mittal L, Proctor DM. 2016. Inhalation cancer risk assessment of cobalt metal. Regul Toxicol Pharmacol 79:74–82.

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. Mutat Res 800:28-34.

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Thompson CM, Seiter J, Chappell MA, Tappero RV, Proctor DM, Suh M, Wolf JC, Haws LC, et al. 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.

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Wikoff D, **Thompson C**, Perry C, White M, Borghoff S, Fitzgerald L, Haws LC. 2015. Development of toxicity values and exposure estimates for tetrabromobisphenol A (TBBPA): Application in a margin of exposure assessment. J Appl Toxicol 35(11):1292–1308.

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Johnson GE, Soeteman-Hernandez LG, Gollapudi BB, Bodger OG, Dearfield KL, Heflich RH, Hixon JG..., **Thompson CM**, et al. 2014. Derivation of point of departure (PoD) estimates in genetic toxicology studies and their potential applications in risk assessment. Environ Molec Mutagen 55:609–623.

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Euling SY, **Thompson CM**, Chiu WA, Benson R. 2013. An approach for integrating toxicogenomic data in risk assessment: The dibutyl phthalate case study. Toxicol Appl Pharmacol 271:324–335.

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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.

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