

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

SENIOR CONSULTANT

PRACTICE DIRECTOR, MECHANISTIC AND COMPUTATIONAL BIOLOGY

CONTACT INFORMATION

ToxStrategies, Inc.
23501 Cinco Ranch Blvd, Suite B226
Katy, TX 77494
phone (281) 712-2062 ext. 2002
fax (832) 218-2756
cthompson@toxstrategies.com

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, 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 50 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).

EDUCATION AND DEGREES EARNED

2001 MBA, Virginia Commonwealth University, Richmond, VA
1999 Ph.D. in Biomedical Sciences, University of Texas Health Science Center, Houston
1994 BS in Psychology (*cum laude*), Old Dominion University, Norfolk, VA

PROFESSIONAL HONORS/AWARDS

- 2013 Society of Toxicology Risk Assessment Specialty Session (RASS) top 10 papers of 2012
- 2012 Society of Toxicology Risk Assessment Specialty Session (RASS) top 10 papers of 2011
- 2010 Society of Toxicology Risk Assessment Specialty 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, LSSOT Regional Chapter

SERVICE/PEER REVIEW

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

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/recorddisplay.cfm?deid=157668>)
- A Framework for Assessing Health Risks of Environmental Exposures to Children (<http://cfpub.epa.gov/ncea/cfm/recorddisplay.cfm?deid=158363>)
- An Approach to Using Toxicogenomics Data in EPA Risk Assessments (<http://cfpub.epa.gov/ncea/cfm/recorddisplay.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 & LANGUAGE SKILLS

Ingenuity Pathways Analysis (IPA), IUCLID 5, U.S. EPA's Benchmark Dose Modeling Software (BMDS); PROAST, BMDEExpress, 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

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, <https://doi.org/10.1016/j.yrtph.2021.104969>.

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.

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* (ms. online ahead of print), <https://doi.org/10.1093/toxsci/kfaa187>.

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, <https://doi.org/10.1080/10408444.2020.1854678>.

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, <https://doi.org/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, open access: <https://doi.org/10.1016/j.yrtph.2020.104729>.

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.

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], <https://doi.org/10.1016/j.yrtph.2020.104651>.

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), <https://doi.org/10.1080/10408444.2020.1823934>.

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, <https://doi.org/10.1177/0192623319873882>.

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; open access: <https://onlinelibrary.wiley.com/doi/full/10.1002/jat.3812>.

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.

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.

Andersen ME, Gentry PR, Swenberg JA, Mundt KA, White KW, **Thompson C**, Bus J, Sherman JH, Greim H, Bolt H, Marsh GM, Checkoway H, Coggon D, Clewell HJ. 2019. Considerations for refining the risk assessment process for formaldehyde: Results from an interdisciplinary workshop. *Regul Toxicol Pharmacol* 106:210–223.

Klaren WD, Ring C, Harris MA, **Thompson CM**, Borghoff S, Sipes NS, Hsieh J-H, Auerbach SS, Rager JE. 2018. 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* 120:709–723, available at <https://doi.org/10.1093/toxsci/kfy220>.

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* (in press). <https://doi.org/10.1016/j.fct.2018.08.031>.

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

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.

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 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: 10.1177/0192623317y4324.

Rager JE, Auerbach SS, Chappell GA, Martin E, **Thompson C**, 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.

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.

Thompson CM, Young RR, Dinesdurge 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.

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* kfx085. doi: 10.1093/toxsci/kfx085.

- 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: Implications for risk assessment. *Environ Mol Mutagen* 57:706–716.
- 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.
- Thompson CM, Suh M, Mittal L, Wikoff D, Welsh B, Proctor DM. 2016. Development of linear and threshold no significant risk levels for inhalation exposure to titanium dioxide using systematic review and mode of action considerations. *Regul Toxicol Pharmacol* 80:60–70.
- Suh M, Thompson CM, Brorby GP, Mittal L, Proctor DM. 2016. Inhalation cancer risk assessment of cobalt metal. *Regul Toxicol Pharmacol* 79:74–82.
- 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.
- 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, γ -H2AX immunostaining, and synchrotron x-ray fluorescence microscopy. *Mutat Res* 789–790:61–66.
- Thompson CM, Young RR, Suh M, Dinesdurance HR, Elbekai RH, Harris MA, Rohr AC, Proctor DM. 2015. Assessment of the mutagenic potential of Cr(VI) in the oral mucosa of Big Blue® transgenic F344 rats. *Environ Mol Mutagen* 56:621–628.
- Young RR, Thompson CM, Dinesdurance HR, Elbekai RH, Suh M, Rohr, AC, Proctor DM. 2015. A robust method for assessing chemically induced mutagenic effects in the oral cavity of transgenic Big Blue® rats. *Environ Mol Mutagen* 56:629–636.
- 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.
- 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.
- Proctor DM, Suh M, Campleman S, Thompson CM. 2014. Assessment of the mode of action for hexavalent chromium-induced lung cancer following inhalation exposures. *Toxicology* 325:160–179.
- Johnson GE, Soeteman-Hernandez LG, Gollapudi BB, Bodger OG, Dearfield KL, Heflich RH, Hixon JG, Lovell DP, MacGregor JT, Pottenger LH, Thompson CM, Abraham L, Thybaud V, Tanir JY, van Benthem J, White PA. 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.
- Thompson CM, Kirman CR, Proctor DM, Haws LC, Suh M, Hays SM, Hixon JG, Harris MA. 2014. A chronic oral reference dose for hexavalent chromium-induced intestinal cancer. *J Appl Toxicol* 34:525–536.
- Suh M, Thompson CM, 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* 65:381–388.

Rowlands JC, Budinsky R, Gollapudi B, Black MB, Wofinger RD, Cukovic D, Dombowski A, **Thompson CM**, Urban JD, Thomas RS 2013. A genomics-based analysis of relative potencies of dioxin-like compounds in primary rat hepatocytes. *Toxicol Sci* 136(2):595–604.

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* 204:13–27.

O'Brien T, Ding H, Suh M, **Thompson CM**, 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 and micronucleus incidence in the mouse duodenum following 90-days of exposure to Cr(VI) in drinking water. *Mutat Res* 745:15–21.

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.

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.

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.

Thompson CM, Fedorov Y, Brown DD, Suh M, Proctor DM, 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.

Kopec AK, **Thompson CM**, Kim S, Forgacs AL, Zacharewski TR. 2012. Comparative toxicogenomic analysis of oral Cr(VI) exposure effects in rat and mouse small intestinal epithelium. *Toxicol Appl Pharmacol* 262(2): 124–38.

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):1326.

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, Proctor DM, Suh M, Haws LC, Hebert CD, Mann JF, Shertzer HG, Hixon, and 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.

Proctor DM, **Thompson CM**, Suh M, Harris MA. 2011. A response to “A quantitative assessment of the carcinogenicity of hexavalent chromium by the oral route and its relevance to human exposure.” *Environ Res* 111(3):468–470.

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.

- Wilson VS, Keshava N, Hester S, Segal D, Chiu W, **Thompson CM**, Euling SY. 2013. Utilizing toxicogenomic data to understand chemical mechanism of action in risk assessment. *Toxicol Appl Pharmacol* 271:299–308.
- 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.
- Thompson CM**, Grafström RC. 2010. Considerations for the implausibility of leukemia induction by formaldehyde. *Toxicol Sci* 120(1):230–232.
- Thompson CM**, Ceder R, Grafström RC. 2010. Formaldehyde dehydrogenase: Beyond phase I metabolism. *Toxicol Lett* 193(1):1–3.
- Thompson CM** and Grafstrom RC. 2009. Commentary: Mechanistic considerations for associations between formaldehyde exposure and nasopharyngeal carcinoma. *Environ Health* 8:53.
- Thompson CM**, Sonawane B, Grafström RC. 2009. The ontogeny, distribution and regulation of alcohol dehydrogenase 3: Implications for pulmonary physiology. *Drug Metab Dispos* 37(8):1565–1571.
- Thompson CM**, Johns DO, Sonawane S, Barton HA, Hattis D, Tardif R, Krishnan K. 2009. Database for physiologically based pharmacokinetic (PBPK) modeling: Physiological parameters for healthy and health-impaired elderly. *J Toxicol Environ Health, Part B* 12:1–24.
- Makris SL, **Thompson CM**, Euling SY, Selevan SG, Sonawane B. 2008. A lifestage-specific approach to hazard and dose-response characterization for children's health risk assessment. *Birth Defects Res, Part B* 83: 530–546.
- Thompson CM**, Subramaniam RP, Grafström RC. 2008. Mechanistic and dose considerations for supporting adverse pulmonary physiology in response to formaldehyde. *Toxicol Appl Pharmacol* 233:355–359.
- Thompson CM**, Sonawane B, Barton HA, DeWoskin RS, Schlosser P, Lipscomb JC, Chiu W, Krishnan K. 2008. Approaches for applications of physiologically based pharmacokinetic models in risk assessment. *J Toxicol Environ Health, Part B*, 11:519–547.
- Subramaniam RP, Chen C, Crump KS, Devoney D, Fox JF, Portier CJ, Schlosser PM, **Thompson CM**, White, P. 2008. Uncertainties in biologically-based modeling of formaldehyde-induced respiratory cancer risk: Identification of key issues. *Risk Anal* 28:907–923.
- DeWoskin RS, **Thompson CM**. 2008. Renal clearance parameters for PBPK model analysis of early lifestage differences in the disposition of environmental toxicants. *Regul Toxicol Pharmacol* 51: 66–86.
- Chiu W, Barton HA, DeWoskin RS, Schlosser P, **Thompson CM**, Sonawane B, Lipscomb JC, Krishnan K. 2007. Evaluation of physiologically based pharmacokinetic models for use in risk assessment. *J Appl Toxicol* 27(3):218–237.
- Thompson CM**, Grafström RC. 2007. Mechanistic considerations for formaldehyde-induced bronchoconstriction involving S-nitrosoglutathione reductase. *J Toxicol Environ Health, Part A*, 71: 244–248.
- Barone S Jr, Brown RC, Euling S, Cohen Hubal E, Kimmel CA, Makris S, Moya J, Selevan SG, Sonawane B, Thomas T, **Thompson CM**. 2006. Visión general de la evaluación del riesgo en salud infantil empleando un enfoque por etapas de desarrollo. *Acta Toxicol Argent* 14(Sup):7–10.
- Thompson CM**, Wojno H, Greiner E, May EL, Rice KC, Selley DE. 2004. Activation of G-proteins by morphine and codeine congeners: Insights to the relevance of O- and N-demethylated metabolites at μ - and δ -opioid receptors. *J Pharmacol Exper Therapeut* 308(2):547–554.

- Strobel HW, **Thompson CM**, Antonovic L. 2001. Cytochromes P450 in brain: Function and significance. *Current Drug Metab* 2(2):199–214.
- Thompson CM**, Capdevila JH, Strobel HW. 2000. Recombinant P450 2D18 metabolism of dopamine and arachidonic acid. *J Pharmacol Exper Therapeut* 294(3):1120–1130.
- Thompson CM**, Kawashima H, Strobel HW. 1998. Isolation of partially purified P450 2D18 and characterization of activity towards the tricyclic antidepressants imipramine and desipramine. *Arch Biochem Biophys* 359(1):115–121.
- Gerhardt B, Kordas TJ, **Thompson CM**, Patel P, Vida TV. 1998. The vesicle transport protein, Vps33p, is an ATP binding protein that localizes to the cytosol in an energy dependent manner. *J Biol Chem* 273(25):15818–15829.
- Kawashima H, Kusunose E, **Thompson CM**, Strobel HW. 1997. Protein expression, characterization, and regulation of CYP4F4 and CYP4F5 cloned from rat brain. *Arch Biochem Biophys* 347(1):148–154.
- Thompson CM**, Bernhard AE, Strobel HW. 1997. Barbiturate-induced expression of neuronal nitric oxide synthase in the rat cerebellum. *Brain Res* 754:142–146.
- Huber KM, Mauk, MD, **Thompson CM**, Kelly PT. 1995. A critical period of protein kinase activity after tetanic stimulation is required for the induction of long-term potentiation. *Learning & Memory* 2:81–100.

BOOK CHAPTERS

- Johns DO, Owens EO, **Thompson CM**, Sonawane B, Hattis D, Krishnan K. 2010. Chapter 5: Physiological parameters and databases for PBPK modeling. In: *Quantitative Modeling in Toxicology*. Krishnan K and Andersen M(eds). pp. 107.
- Thompson C**, Nong A, Sonawane B, Krishnan K. 1998. Considerations for applying physiologically based pharmacokinetic models in risk assessment. In: *Toxicokinetics and Risk Assessment*. Lipscomb JL, Ohanian EV (eds). Informa Healthcare USA Inc, NY, pp. 123–139.
- DeWoskin R, Lipscomb J, **Thompson C**, Chiu WA, Schlosser P, Smallwood C, Swartout J, Teuschler L, Marcus A. 2006. Pharmacokinetic/physiologically based pharmacokinetic models in Integrated Risk Information System assessments. In: *Toxicokinetics and Risk Assessment*. Lipscomb JL, Ohanian EV (eds). Informa Healthcare USA Inc, NY, pp. 301–348.

ABSTRACTS, PRESENTATIONS, POSTERS

- 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, Virtual Annual Meeting, 2020, <https://eventpilotadmin.com/web/page.php?page=Session&project=SOT20&id=P2764>.
- Wikoff D, Franzen A, Chappell G, Harris M, **Thompson C**. Systematic characterization of hexavalent chromium and potential female reproductive outcomes: Application of US EPA critical appraisal tools and stepwise inclusion of mechanistic data. Poster for Society of Toxicology, Virtual Annual Meeting, 2020, <https://eventpilotadmin.com/web/page.php?page=Session&project=SOT20&id=P3209>.
- Thompson CM**. The useful chemistry of perfluorinated compounds: Managing safety. The sticky subject of non-stick: Regulatory science challenges of per- and poly-fluorinated compounds (PFAS). Texas A&M University Interdisciplinary Faculty of Toxicology Training Program, 2019 Annual Regulatory Science Symposium. August 20, 2019.

Chappell GA, **Thompson CM**, Wolf J, Cullen J, Haws LC. Transcriptomic responses in livers of GenX-treated mice demonstrate up-regulation of PPAR signaling and related pathways. Environmental Mutagenesis and Genomics Society, Washington, DC, September 2019.

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.

Thompson CM, Gentry R. An updated mode-of-action analysis for formaldehyde-induced nasal tumors in rodents: A case study using the IPCS MOA and human relevance frameworks. Poster at Society of Toxicology Annual Meeting, Baltimore, MD, March 2019.

Gentry R, Greene T, Granzen A, **Thompson CM**. Formaldehyde and leukemia: A case study using the IPCS MOA and human relevance frameworks. Poster at Society of Toxicology Annual Meeting, Baltimore, MD, March 2019.

Chappell GA, Rager JE, Wolf JC, Babic M, LeBlanc KJ, Ring CL, Harris MA, **Thompson C**. Similarities in the transcriptomic signatures in the duodenum of mice exposed to hexavalent chromium, captan, or folpet inform the mechanisms of chemical-induced mouse small intestine cancer. Presentation at Society of Toxicology Annual Meeting, Baltimore, MD, March 2019.

Thompson CM, Gentry R. An updated mode-of-action analysis for formaldehyde-induced nasal tumors in rodents: A case study using the IPCS MOA and human relevance frameworks. Poster at Society of Toxicology Annual Meeting, Baltimore, MD, March 2019.

Chappell GA, Rager JE, Wolf JC, Babic M, LeBlanc KJ, Ring CL, Harris MA, **Thompson C**. Similarities in the transcriptomic signatures in the duodenum of mice exposed to hexavalent chromium, captan, or folpet inform the mechanisms of chemical-induced mouse small intestine cancer. Presentation at Society of Toxicology 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 Annual Meeting, Baltimore, MD, March 2019.

Thompson CM, Wolf JC, Suh M, Proctor DM, HJaws LC, Harris MA. Toxicity and recovery in the duodenum of B6C3F1 mice following treatment with intestinal carcinogens; captan, folpet, and hexavalent chromium: Evidence for an adverse outcome pathway. Society of Toxicology Annual Meeting, San Antonio, TX, March 2018.

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

Doepker D, Tyndall K, Lane R, Wikoff D, **Thompson C**, Harvey S, Schmitt D. A proposed ADI for nitrate. Poster presented at Society of Toxicology Annual Meeting. March 2017. Baltimore, MD.

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 Annual Meeting. March 2017. Baltimore, MD.

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 Annual Meeting. March 2017. Baltimore, MD.

Rager JE, **Thompson CM**, Ring C, Fry RC, Harris MA. Integration of transcriptomics and high-throughput screening predictions with robust *in vivo* data to inform hexavalent chromium mode of action. Poster presented at Society of Toxicology Annual Meeting. March 2017. Baltimore, MD.

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 Annual Meeting. March 2017. Baltimore, MD.

Rager J, **Thompson C**, Auerbach S, Fry R. Integrating genomic and epigenomic data into risk assessment applications through dose response modeling: Case study with prenatal arsenic exposure. Environmental Mutagenesis and Genomics Society. September 25, 2016. Kansas City, MO.

Thompson CM. Non-mutagenic MOA for Cr(VI) involving intestinal cytotoxicity and regenerative hyperplasia. Platform presentation in the “The Cancer Risk Assessment for Ingested Hexavalent Chromium: Challenges and Controversies” session. Presented at the Society of Toxicology’s 55th Annual Meeting, March 13-17, 2016. New Orleans, LA.

Cullen JM, Ward JM, **Thompson CM**. Re-evaluation and classification of duodenal lesions in B6C3F1 mice and F344 rats from four studies of hexavalent chromium in drinking water. Presented at the Society of Toxicology’s 55th Annual Meeting, March 13-17, 2016. New Orleans, LA.

Thompson CM, Suh M, Proctor DM, Rager JE, Haws LC, Harris MA. Assessment of the in vivo genotoxicity of CrVI in target organs identified in a two-year cancer bioassay. Presented at the Society of Toxicology’s 55th Annual Meeting, March 13-17, 2016. New Orleans, LA.

Brorby GP, Suh M, **Thompson CM**, Mittal L, Proctor DM. Inhalation cancer risk assessment of cobalt metal. Presented at the Society of Toxicology’s 55th Annual Meeting, March 13-17, 2016. New Orleans, LA.

Thompson CM, Suh M, Hixon G, Bichteler A. Comparison of smoothing spline regression and conventional modeling approaches for quantitative risk assessments of human dioxin exposure. Presented at the Society of Toxicology’s 54th Annual Meeting, March 22-26, 2015. San Diego, CA.

Thompson CM, Young RR, Suh M, Dinesdurage H, Elbekai R, Harris MA, Rohr AC, Proctor DM. Hexavalent chromium does not induce mutations in the oral mucosa of transgenic Big Blue® rats following drinking water exposures at a carcinogenic dose. Presented at the Society of Toxicology’s 54th Annual Meeting, March 22-26, 2015. San Diego, CA.

Harris MA, **Thompson CM**, Proctor DM, Suh M, Wolf JC, Haws LC, Seiter JM, Chappell MA, Haws LC. Analysis of duodenal crypt health following exposure to Cr(VI) in drinking water. Presented at the Society of Toxicology’s 54th Annual Meeting, March 22-26, 2015. San Diego, CA.

Urban JD, **Thompson CM**, Plunkett LM, Perry CS, Haws LC. A state of the science copper reference dose for soil remediation. Presented at the Society of Toxicology’s 54th Annual Meeting, March 22-26, 2015. San Diego, CA.

Proctor D, Suh M, **Thompson C**, Hixon G. Inhalation cancer risk assessment of titanium dioxide Presented at the Society of Toxicology’s 54th Annual Meeting, March 22-26, 2015. San Diego, CA.

Borghoff S, Wikoff D, White MC, **Thompson CM**, 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 the Society of Toxicology’s 54th Annual Meeting, March 22-26, 2015. San Diego, CA.

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 the Society of Toxicology’s 53rd Annual Meeting, March 23-27, 2014. Phoenix, AZ.

Hixon JG, **Thompson C**, Bichteler A, Abraham L. Smoothing regression splines as the basis for dose-response modeling. Presented at the Society of Toxicology’s 53rd Annual Meeting, March 23-27, 2014. Phoenix, AZ.

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 the Society of Toxicology's 53rd Annual Meeting, March 23-27, 2014. Phoenix, AZ.

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 the Society of Toxicology's 53rd Annual Meeting, March 23-27, 2014. Phoenix, AZ.

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 the Society of Toxicology's 51st Annual Meeting, March 11-15, 2012. San Francisco, CA.

Kim S, Kopec A, Forgacs AL, **Thompson CM**, Zacharewski T. Genome-wide gene expression analysis of Cr(VI) effects in fisher rat small intestinal epithelium. Presented at the Society of Toxicology's 51st Annual Meeting, March 11-15, 2012. San Francisco, CA.

Kopec A, Forgacs AL, Kim S, **Thompson CM**, Zacharewski T. Comparative toxicogenomic analysis of Cr(VI) effects in rat and mouse small intestine. Presented at the Society of Toxicology's 51st Annual Meeting, March 11-15, 2012. San Francisco, CA.

O'Brien TJ, Hao D, Suh M, Proctor DM, **Thompson CM**, Harris MA, Parsons BL, Meyers MB. K-ras codon 12 GGT to GAT mutation is not elevated in the duodenum of mice subchronically exposed to hexavalent chromium in drinking water. Presented at the Society of Toxicology's 51st Annual Meeting, March 11-15, 2012. San Francisco, CA.

Proctor DM, **Thompson CM**, Suh M, Haws LC and Harris MA. Mode of action for intestinal carcinogenesis of ingested hexavalent chromium in mice. Presented at the Society of Toxicology's 51st Annual Meeting, March 11-15, 2012. San Francisco, CA.

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 the Society of Toxicology's 51st Annual Meeting, March 11-15, 2012. San Francisco, CA.

Urban J, Rowlands JC, Budinsky R, Dombkowski A, **Thompson CM**, Thomas RS. A Genomics-based benchmark dose analyses of relative potencies of dioxin like compounds in primary rat hepatocytes. Presented at the Society of Toxicology's 51st Annual Meeting, March 11-15, 2012. San Francisco, CA.

Thomas RS, Rowlands JC, Budinsky RA, **Thompson CM**, Urban JD, Dombkowski, A. Genomic approaches for relative potency assessment. Dioxin 2011, August 21-25, 2011. Brussels, Belgium.

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. Dioxin 2011, August 21-25, 2011. Brussels, Belgium.

Ceder R, Merne M, Nilsson JA, Staab C, Höög JO, **Thompson CM**, Grafström RC. Toxicogenomic profiling of formaldehyde-exposed normal and transformed human oral keratinocytes. Presented at the Society of Toxicology's 50th Annual Meeting, March 6-10, 2011. Washington, D.C.

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 the Society of Toxicology's 50th Annual Meeting, March 6-10, 2011. Washington, D.C.

Kim S, **Thompson CM**, Kopec AK, Harris MA, Zacharewski TR. Comparison of basal and CrVI-mediated solute carrier gene expression in rodent duodenal epithelium. Presented at the Society of Toxicology's 50th Annual Meeting, March 6-10, 2011. Washington, D.C.

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. Presented at the Society of Toxicology's 50th Annual Meeting, March 6-10, 2011. Washington, D.C.

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 the Society of Toxicology's 50th Annual Meeting, March 6-10, 2011. Washington, D.C.

Thompson CM, Proctor D, Haws L, Harris M. Mode of action for the cancer risk assessment of ingested hexavalent chromium: Identifying and resolving data gaps. Presented at the 49th Annual Meeting of Society of Toxicology. March 7-11, 2010. Salt Lake City, Utah. (Blue Ribbon Award)

Johns D, Dewoskin R, **Thompson CM**, Krishnan K, Barton HA, Sonawane B. Development of a physiological parameters database for physiologically-based pharmacokinetic (PBPK) modeling. Presented at the 49th Annual Meeting of Society of Toxicology. March 7-11, 2010. Salt Lake City, Utah.

Sonawane B, Johns D, **Thompson CM**, Barton H, Hattis D, Tardif R, Krishnan K. Evaluation of physiological parameters in adult rats and mice for populating an ACCESS database. Presented at the Society of Toxicology Annual Meeting. March 16-20, 2008. Seattle, WA. (Blue Ribbon Award).

Thompson CM. Dosimetric adjustments across lifestages in risk assessment. In: Symposia Session Considering Lifestage in PBPK Modeling for Risk Assessment. Society for Risk Analysis Annual Meeting. December 9-12, 2007. San Antonio, TX.

Thompson CM. Children's risk assessment and PBPK modeling. In symposia session Physiological Parameters and PBPK Modeling for Children's Risk Assessment. Society of Toxicology. March 25-29, 2007. Charlotte, NC.

Thompson CM. Physiologically based pharmacokinetic (PBPK) modeling in the elderly. Society of Toxicology. March 25-29, 2007. Charlotte, NC.

Sonawane B, **Thompson CM**, Hattis D, Tardif R, Krishnan K. Physiological parameters in healthy and diseased elderly. Society of Toxicology. March 25-29, 2007. Charlotte, NC.

Euling SY, Makris S, Sen B, Kim A, Benson B, Gaido K, Wilson V, Keshava C, Keshava N, White L, Foster P, Androulakis I, Ovacik M, Ierapetritou M, Gray LE, **Thompson CM**, Barone S, Chiu W, William W, Panos G. Use of toxicogenomics data in risk assessment: A case study on dibutyl phthalate and male reproductive developmental effects. Society of Toxicology. March 25-29, 2007. Charlotte, NC.

Thompson CM, Grafström RC. Noncytotoxic cell proliferation as a subcomponent of the mode of action for formaldehyde-induced carcinogenesis. 45th Annual Meeting of Society for Toxicology. March 5-9, 2006. San Diego, CA.

Whalan JE, DeVoney D, **Thompson CM**, White P, Vandenberg JJ. Proposed cancer mode of action for formaldehyde based on EPA cancer guidelines. 45th Annual Meeting of Society for Toxicology. March 5-9, 2006. San Diego, CA.

DeWoskin RS, **Thompson CM**. PBPK model simulations of kidney physiology and variability in renal clearance. Society of Toxicology. March 6-10, 2005. New Orleans, LA.

Barone S, Brown R, Euling S, Cohen-Hubal E, Kimmel CA, Makris S, Moya J, Selevan S, Sonawane B, Thomas T, **Thompson CM**. Development of a children's health risk assessment framework using a life-stage approach. Society of Toxicology. March 6-10, 2005. New Orleans, LA.

Thompson CM. Population distribution of ALDH2 genetic polymorphism: Implications for risk assessment & genetic polymorphism in CYP2E1: Population distribution of CYP2E1 activity. Evolving Genetics and Its Global Impact. 2004. Bangkok, Thailand.

Thompson CM, Wojno H, Selley DE. Pharmacodynamics of codones and morphones at mu and delta opioid receptors. International Narcotics Research Conference. 2002. Monterey, California.

Thompson CM, Capdevila JH, Strobel HW. P450 2D18-Mediated metabolism of dopamine and arachidonic acid. 29th Annual Gordon Research Conference on Drug Metabolism. 1999. Plymouth, New Hampshire.

Thompson CM, Kawashima H, Strobel HW. Protein expression and purification of P450 2D18 and analysis of activity towards the tricyclic antidepressants imipramine and desipramine. 28th Annual Gordon Research Conference on Drug Metabolism. Session A. 1998. Plymouth, New Hampshire.

Thompson CM, Bernhard AE, Strobel HW. Barbiturate-induced expression of neuronal nitric oxide synthase in the rat cerebellum. XIth International Symposium on Microsomes and Drug Oxidations, pp. 205. 1996. Los Angeles, California.

Patel PR, **Thompson CM**, Vida TA. The VPS33 protein is membrane associated and functions in vacuolar protein transport. *Yeast Cell Biology*, pp. 73. 1995. Cold Spring Harbor, New York.