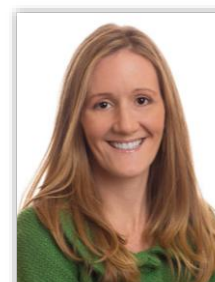


Daniele (Staskal) Wikoff, Ph.D.

CHIEF SCIENTIFIC OFFICER

SENIOR VICE PRESIDENT, HEALTH SCIENCES

PRINCIPAL SCIENTIST



CONTACT INFORMATION

ToxStrategies LLC, A BlueRidge Life Sciences Company
31 College Place, Suite B118
Asheville, NC 28801
phone (828) 348-6833
dwikoff@toxstrategies.com

PROFESSIONAL PROFILE

Dr. Daniele Wikoff is ToxStrategies' Chief Scientific Officer as well as Senior Vice President of the firm's Health Sciences Practice. She specializes in the use of evidence-based methods in support of hazard and risk assessment applications. Dr. Wikoff has led the firm's initiatives to integrate evidence-based methods as part of safety assessments for food ingredients and contaminants, industrial chemicals, cosmetic ingredients, OTCs, and consumer products. She has successfully implemented a turn-key process for conducting systematic assessments at ToxStrategies, with a workflow facilitated by the combination of an experienced multidisciplinary team and use of systematic review software and tools. She has experience applying these methods to a wide range of agents (e.g., caffeine, TCE, TCDD, low-calorie sweeteners, sunscreen actives), across evidence streams (human, experimental animal, mechanistic), to heterogeneous data sets (e.g., epidemiological data and high-throughput data), for a variety of outcomes (e.g., endocrine disruption, carcinogenicity). Dr. Wikoff is well versed in frameworks and guidance from authorities around the world, including NTP-OHAT, EPA-TSCA and EPA-IRIS, EFSA/ECHA, IOM, WHO, GRADE, Cochrane, and others—as well as tools and software—that are used to manage and facilitate the systematic review process.

Dr. Wikoff's experience as a practitioner of both risk assessment and systematic review allows for a unique area of expertise in the evolving field of evidence-based toxicology. Dr. Wikoff has diverse experience in applying systematic mapping (scoping reviews) and systematic reviews as platforms for facilitating risk assessment, including development of health-based benchmarks and pathway-based analyses. She also routinely uses computational approaches to identify and evaluate evidence, integrating data from databases such as ToxRefDB and ToxCast/Tox21. Dr. Wikoff regularly employs both qualitative (e.g., AOP-based integration) and quantitative integration techniques (e.g., meta-analyses, Bayesian/meta-regression) to characterize hazards, points of departure, estimates of relative potency, and dose-response relationships. Her expertise extends to the topic-specific application of various organizational concepts for mechanistic data, including key characteristics, adverse outcome pathways, and mode of action. Dr. Wikoff has particular interest in methods development related to the definition and evaluation of data quality, and how elements of internal, construct, and external validity can be used to transparently inform conclusions and provide critical information to decision makers.

Dr. Wikoff is involved in multiple global collaborations to advance the practice of evidence-based toxicology, highlighted by her membership on the Board of Trustees and role as the Chair of the Science Advisory Council for the Evidence-Based Toxicology Collaboration (EBTC), membership on National Academy of Sciences committees, and co-authorship on the World Health Organization's systematic review framework. She has been an invited speaker and participant at systematic-review workshops hosted by the National Academics of Sciences, the European Food Safety Authority, and the U.S. Environmental Protection Agency. She also co-taught multiple Continuing Education courses on systematic review for the Society of Toxicology, as well as in an advanced course on systematic review at EUROTOX in 2021. Dr. Wikoff is an Associate Editor for *Regulatory Toxicology and Pharmacology* and *Toxicological Sciences*. She is on the International Editorial Board of the journal *Food and Chemical Toxicology*, and she serves on the Editorial Board of *Current Opinion in Toxicology*. For the Society of Toxicology, Dr. Wikoff is currently an appointed member of the Scientific Program Committee.

EDUCATION AND DEGREES EARNED

2005 Ph.D., Toxicology, University of North Carolina at Chapel Hill
2000 B.S., Chemistry and Biology, Buena Vista University

PROFESSIONAL ACTIVITIES AND SELECTED AWARDS

Lead author of abstract named one of the Top 10 Abstracts of 2025 (out of 250 submissions) by the Society of Toxicology Risk Assessment and Specialty Section (RASS)

Member, USEPA Science Advisory Board; review of the Draft IRIS Assessment on Arsenic

Member, National Academies of Science and Engineering (NASEM); review of the Department of Veterans Affairs presumption decision process

Member (ad-hoc), USEPA Science Advisory Committee on Chemicals; review of the draft Proposed Principles of Cumulative Risk under the Toxic Substances Control Act, and draft Proposed Approach for Cumulative Risk Assessment of High-Priority Phthalates and a Manufacturer-Requested Phthalate under the Toxic Substances Control Act

Member, Society of Toxicology's Scientific Program Committee

Member (ad-hoc), USEPA Science Advisory Committee on Chemicals, review of the Draft TSCA Systematic Review Protocol

Associate Editor (Systematic Reviews), *Toxicological Sciences*

Associate Editor, *Regulatory Toxicology and Pharmacology*

Associate Editor, *Current Opinions in Toxicology*

Member/Author, World Health Organization Systematic Review Framework

Board of Trustees Member, Evidence-Based Toxicology Collaboration, Johns Hopkins University

Chair, Science Advisory Council, Evidence-Based Toxicology Collaboration, Johns Hopkins University

International Editorial Board, *Food and Chemical Toxicology*

Member, GRADE Environmental Health Project Group and Dose-Response Project Group

Member, National Academies of Science (NAS), Review of the IRIS Protocol for Inorganic Arsenic

Lead author of article named Best Paper of the Year for 2018 by the Regulatory and Safety Evaluation Specialty Section of the Society of Toxicology

Lead author of article named Best Paper of the Year for 2017 by Editors of *Food and Chemical Toxicology*

U.S. Department of Agriculture — Scientific Quality Reviewer (ARS project plans)

National Institute of Environmental Health Sciences — Virtual Consortium for Translational/Transdisciplinary Environmental Research (ViCTER) Consortium (R01 grant reviews)

Health Canada Expert Reviewer — Review of Biomonitoring Equivalents: Derivation of Biomonitoring Equivalents for Pentabromodiphenylether (PBDE-99)

EPA External Review Panel — An Exposure Assessment of Polybrominated Diphenyl Ethers (External Review Draft)

Past President, Society of Toxicology's Risk Assessment Specialty Section

Past President, Ethical, Legal, and Social Issues Specialty Section, Society of Toxicology

Past Secretary/Treasurer, Risk Assessment Specialty Section, Society of Toxicology

Co-Chair, International Symposium on Halogenated Persistent Organic Pollutants, DIOXIN 2010

Professional Associations

Evidence-Based Toxicology Collaboration

Society of Toxicology (SOT), North Carolina Regional Chapter

Society for Risk Analysis (SRA)

Toxicology Forum

GUEST LECTURES, CONTINUING EDUCATION, AND INVITED SPEAKER

Continuing Education Speaker: Society of Toxicology, March 2023. "Tailoring off-the-shelf systematic review methods to the identification and evaluation of mechanistic data."

Presenter: Society of Toxicology, March 2023. "Continuing towards best practices in organizing, assessing, and applying mechanistic data in hazard characterization and risk assessment."

Session Chair: Society of Toxicology, March 2022. "Mode of action, adverse outcome pathways, and key characteristics (KCs): Proposed steps forward and mid-course corrections."

Session Co-Chair: Society of Toxicology, March 2022. "How does your study measure up? The evolution of study quality evaluations in toxicology and risk assessment."

Presenter: Society of Toxicology, March 2022. "Bridging the past, present, and future of study quality evaluations in toxicology: A summary of recommendations to researchers for the conduct and reporting of toxicological studies."

Co-Presenter: Society of Toxicology, March 2022. "Picking the right tool: Using evidence-based toxicology to evaluate mechanistic data in KC, AOP, and MoA constructs."

Guest Lecture: University of North Carolina, Chapel Hill, Toxicology Curriculum, November 2021. "Using systematic review for risk assessment."

Guest Lecture: Johns Hopkins Center for Clinical Trials and Evidence Synthesis, October 2021. “Survey of evidence-based toxicology applications: use of systematic mapping and systematic review to evaluate adverse effects and risk assessment.”

Continuing Education Speaker: EUROTOX 2021. “Advances in conducting systematic reviews for chemical assessment: Automation, uncertainty assessment, and synthesis.”

Continuing Education Speaker: Institute for the Advancement of Food and Nutrition Sciences, LNCS Practitioner Webinar Series, July 15, 2021. “The acceptable daily intake (ADI) for low- and no-calorie sweeteners (LNCS): Origin, interpretation, and application.” Available at: <https://iafns.org/acceptable-daily-intake-adi-for-lncs/>

Invited Speaker: OECD EAGMST Initiative on Systematic Methods in AOP Development, March 2021. “Systematic methods in AOPs: Success is dependent on problem formulation.”

Continuing Education Speaker: Society of Toxicology, 2019. “Conducting systematic review in toxicology – Why, when, how?”

Invited Speaker: EPA Systematic Review Community of Practice (SR CoP), July 2018. “Evidence integration.”

Invited Speaker, EPA Advancing Systematic Review Workshop, 2018.

GUIDANCE DOCUMENTS AND BOOK CHAPTERS

Wikoff D, Fitch S. 2024. Evidence-based methods in toxicology: Systematic review and systematic evidence mapping. Chapter 32 in: Paustenbach DJ (ed), Human and Ecological Risk Assessment: Theory and Practice, Third Edition, pp. 1133–1148. [Wiley](#), ISBN: 978-1-119-74296-8.

Wikoff D, Fitch S. 2024. Systematic reviews and evidence-based methods in toxicology. In: Wexler P (ed), Encyclopedia of Toxicology. Elsevier, pp. 875–882.

National Academies of Sciences, Engineering, and Medicine [reviewer]. 2024. The role of seafood consumption in child growth and development. Washington, DC: The National Academies Press. <https://doi.org/10.17226/27623>.

World Health Organization [drafting author]. 2021. Framework for the use of systematic review in chemical risk assessment.

Fitzgerald L, **Wikoff DS**. 2014. Persistent organic pollutants. In: Wexler, P (ed), Encyclopedia of Toxicology, 3rd edition, vol 3. Academic Press, pp. 820–825.

Staskal DF, Birnbaum LS. 2011. Health effects of brominated flame retardants. In: The Handbook of Environmental Chemistry, vol. 16 — Brominated Flame Retardants. Springer.

Staskal DF, Birnbaum LS, Haws LC. 2009. Application of a relative potency factor approach in the assessment of health risks associated with exposures to mixtures of dioxin-like compounds. In: The Principles and Practice of Mixtures Toxicology. Wiley.

Staskal DF, Birnbaum LS. 2007. Brominated flame retardants. In: Maxcy-Rosenau-Last Public Health and Preventive Medicine, 15th Edition, John Wiley & Sons.

SYSTEMATIC REVIEW PUBLICATIONS

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](https://doi.org/10.1093/toxsci/kfae152). PMID: 39792025.

Fitch S, Blanchette A, Haws LC, Franke K, Ring C..., **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](https://doi.org/10.1016/j.yrtph.2024.105571).

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; doi: [10.1093/toxsci/kfae039](https://doi.org/10.1093/toxsci/kfae039).

Borghoff SJ, Cohen SS, Jiang X, Lea IA, Klaren WD, Chappell GA, Britt JK, Rivera BN, Choksi NY, **Wikoff DS**. 2023. Updated systematic assessment of human, animal and mechanistic evidence demonstrates lack of human carcinogenicity with consumption of aspartame. *Food Chem Toxicol* 172:113549, [online ahead of print](#).

Doepker C, Movva N, Cohen SS, **Wikoff DS**. 2022. Benefit-risk of coffee consumption and all-cause mortality: A systematic review and disability adjusted life year analysis. *Food Chem Toxicol* 170:113472, doi: [10.1016/j.fct.2022.113472](https://doi.org/10.1016/j.fct.2022.113472).

Hoffmann S, Aiassa E, Angrish M, Beausoleil C, Bois FY... **Wikoff D**, et al. 2022. Application of evidence-based methods to construct mechanism-driven chemical assessment frameworks. *ALTEX — Alternatives to animal experimentation*, <https://www.altex.org/index.php/altex/article/view/2436/2362>.

Chappell GA, Heintz MM, Borghoff SJ, Doepker CL, **Wikoff DS**. 2021. Lack of potential carcinogenicity for steviol glycosides — Systematic evaluation and integration of mechanistic data into the totality of evidence. *Food Chem Toxicol* 150:112045, <https://doi.org/10.1016/j.fct.2021.112045>.

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, <https://doi.org/10.1093/toxsci/kfaa187>.

de Vries RBM, Angrish M, Browne P, Brozek J, Rooney AA, **Wikoff DS**, Whaley P, Edwards SW, Morgan RL, Druwe IL, Hoffmann S, Hartung T, Thayer K, Avey MT, Beverly BEJ, Falavigna M, Gibbons C, Goyak K, Kraft A, Nampo F, Qaseem A, Sears M, Singh JA, Willett C, Yost EY, Schünemann H, Tsaioun K. 2021. Applying evidence-based methods to the development and use of adverse outcome pathways. *ALTEX — Alternatives to Animal Experimentation*, 38(2):336–347; doi: [10.14573/altex.2101211](https://doi.org/10.14573/altex.2101211).

Fitch SE, Payne LE, van de Ligt JLG, Doepker C, Handu D, Cohen SM, Anyangwe N, **Wikoff D**. 2021. Use of acceptable daily intake (ADI) as a health-based benchmark in nutrition research studies that consider the safety of low-calorie sweeteners (LCS): A systematic map. *BMC Public Health* 21(1):956; doi: [10.1186/s12889-021-10934-2](https://doi.org/10.1186/s12889-021-10934-2).

Jaeschke H, Murray FJ, Monnot AD, Jacobson-Kram D, Cohen SM, Hardisty JF, Atillasoy E... **Wikoff D**, et al. 2021. Assessment of the biochemical pathways for acetaminophen toxicity: Implications for its carcinogenic hazard potential. *Regul Toxicol Pharmacol* 120(March):104859; doi: [10.1016/j.yrtph.2020.104859](https://doi.org/10.1016/j.yrtph.2020.104859).

Whaley P, Blaauboer BJ, Brozek J, Cohen Hubal EA, Hair K, Kacew S, Knudsen TB, Kwiatkowski CF, Mellor DT, Olshan AF, Page MJ, Rooney AA, Radke E, Shamseer L, Tsaioun K, Tugwell P, **Wikoff D**, Woodruff TJ. 2021. Improving the quality of toxicology and environmental health systematic reviews: What journal editors can do. *ALTEX [Internet]*. Available: <https://www.altex.org/index.php/altex/article/view/2307>.

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; <https://doi.org/10.1093/toxsci/kfaa171>.

Wikoff D, Lewis JR, Erraguntla N, Franzen A, Foreman J. 2020. Facilitation of risk assessment with evidence-based methods — A framework for use of systematic mapping and systematic reviews in determining hazard, developing toxicity values, and characterizing uncertainty. *Regul Toxicol Pharmacol* 118:104790; [https://authors.elsevier.com/sd/article/S0273-2300\(20\)30216-6](https://authors.elsevier.com/sd/article/S0273-2300(20)30216-6).

Whaley P, Aiassa E, Beausoleil C, Beronius A, Bilotta, G, Boobis A, de Vries R, Hanberg A, Hoffman S, Hunt N, Kwiatkowski CF, Lam J, Lipworth S, Martin O, Randall, N, Rhomberg L, Rooney AA, Holger J, Schünemann HJ, **Wikoff D**, Wolffe T, Halsall C. 2020. Recommendations for the conduct of systematic reviews in toxicology and environmental health research (COSTER). *Environ Int* 143:105926, <https://doi.org/10.1016/j.envint.2020.105926>.

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* 436:152427, doi: 10.1016/j.tox.2020.152427. PMID: 32145346.

Chappell GA, **Wikoff DS**, Doepker CL, Borghoff SJ. 2020. Lack of potential carcinogenicity for acesulfame potassium — Systematic evaluation and integration of mechanistic data into the totality of the evidence. *Food Chem Toxicol* 141:111375 [open access], <https://doi.org/10.1016/j.fct.2020.111375>.

Chappell GA, Borghoff SJ, Pham L, Doepker CL, **Wikoff DS**. 2019. Lack of potential carcinogenicity for acesulfame potassium — Systematic evaluation and integration of mechanistic data into the totality of the evidence. *Food Chem Toxicol* 141:111375 [open access], <https://doi.org/10.1016/j.fct.2020.111375>.

Wikoff DS, Chappell GA, Fitch S, Doepker CL, Borghoff SJ. 2019. Lack of potential carcinogenicity for aspartame — Systematic evaluation and integration of mechanistic data into the totality of the evidence. *Food Chem Toxicol* 135:110866 [open access], <https://doi.org/10.1016/j.fct.2019.110866>.

Suh M, **Wikoff D**, Lipworth L, Goodman M, Fitch S, Mittal L, Ring C, Proctor D. 2019. Hexavalent chromium and stomach cancer: A systematic review and meta-analysis. *Crit Rev Toxicol* 49(2):140–159; doi: 10.1080/10408444.2019.1578730.

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, <https://doi.org/10.1093/toxsci/kfy279>.

Wikoff D, Miller G. 2018. Systematic reviews in toxicology. *Toxicol Sci* 163(2):335–337, DOI: 10.1093/toxsci/kfy109.

Wikoff D (contributing author). EFSA (European Food Safety Authority) and EBTC (Evidence-Based Toxicology Collaboration). 2018. EFSA Scientific Colloquium 23. Evidence integration in risk assessment: The science of combining apples and oranges. EFSA Supporting Publication 2018:16(3):EN-1396. 28 pp. doi: 10.2903/sp.efsa.2018.EN-1396. <https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/sp.efsa.2018.EN-1396>.

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*, DOI: 0.1177/1091581818754330.

Doepker C, Franke K, Myers E, Goldberger JJ, Lieberman HR, O'Brien C, Peck J, Tenenbein M, Weaver C, **Wikoff D**. 2018. Key findings and implications of a recent systematic review of the potential adverse effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. *Nutrients* 10:1536, doi: 10.3390/nu10101536.

Wikoff D, Welsh BT, Henderson R, Brorby GP, Britt J, Myers E, Goldberger J, Lieberman HR, O'Brien C, Peck J, Tenebein M, Weaver C, Harvey S, Urban J, Doepker C. 2017. Systematic review of the potential adverse effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. *Food Chem Toxicol* 109(Pt1):585–648. <https://doi.org/10.1016/j.fct.2017.04.002>.

Hoffmann S, de Vries RBM, Stephens ML, Beck NB, Dirven HAAM, Fowle JR III, Goodman JE, Hartung T, Kimber I, Lalu MM, Thayer K, Whaley P, **Wikoff D**, Tsaoun K. 2017. A primer on systematic reviews in toxicology. Arch Toxicol. doi:10.1007/s00204-017-1980-3.

Thompson CT, Suh M, Mittal L, **Wikoff DS**, Welsh B, Proctor D. 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.

Wikoff DS, Britt JK. 2016. The role of systematic review in the practice of toxicology and risk assessment — An appreciation for the primary tool in evidence-based approaches. Toxicology: Open Access: <http://www.omicsonline.org/open-access/the-role-of-systematic-review-in-the-practice-of-toxicology-and-riskassessmentan-appreciation-for-the-primary-tool-in-evidencebase-tyoa-1000110.pdf>.

OTHER PEER-REVIEWED PUBLICATIONS

Brorby G, Franzen A, Thompson C, **Wikoff D**, Doepker C. 2025. Human health risk assessment of three smoke flavoring primary products. Food Chem Toxicol 115490; doi: [10.1016/j.fct.2025.115490](https://doi.org/10.1016/j.fct.2025.115490). Online ahead of print May 2, 2025. PMID: 40320068.

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](https://doi.org/10.1093/etojnl/vgaf030). PMID: 39873747.

Mathisen GH, Bearth A, Jones LB, Hoffmann S, Vist GE, Ames HM,... **Wikoff D**, Wright F, Whaley P. 2024. Editorial: Time for CHANGE: System-level interventions for bringing forward the date of effective use of NAMs in regulatory toxicology. Arch Toxicol 98(8):2299-2308; doi: [10.1007/s00204-024-03802-6](https://doi.org/10.1007/s00204-024-03802-6). PMID: 38877155.

Mattes RD, Rivera BN, Rutigliani GR, Rogers S, Mendoza ID, Wang L, Beckemeier K, **Wikoff D**. 2024. A review of low- and no-calorie sweetener safety and weight management efficacy. Nutrition Today 59(6):261-288; doi: [10.1097/NT.0000000000000723](https://doi.org/10.1097/NT.0000000000000723).

Mihalchik AL, Choksi NY, Roe AL, Wisser M, Whitaker K, Seibert D, Deore M, Pavlick L, **Wikoff DS**. 2024. Safety evaluation of 8 drug degradants present in over-the-counter cough and cold medications. Regul Toxicol Pharmacol 149:105621; doi: 10.1016/j.yrtph.2024.105621.

Ring C, Blanchette A, **Klaren WD**, **Fitch S**, **Haws L**, Wheeler MW, DeVito M, Walker N, **Wikoff D**. 2023. A multi-tiered hierarchical Bayesian approach to derive toxic equivalency factors for dioxin-like compounds. Regul Toxicol Pharmacol 143:105464 [[see article preview](#)].

DeVito M, Bokkers B, van Duursen MBM, van Ede K, Feeley M, Antunes Fernandes Gáspár E, **Haws L**, Kennedy S,... **Wikoff DS**, et al. 2023. The 2022 World Health Organization reevaluation of human and mammalian toxic equivalency factors for polychlorinated dioxins, dibenzofurans and biphenyls. Regul Toxicol Pharmacol 146:105525 [[see article preview](#)].

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 145:105500 [[see article preview](#)].

Meek ME, **Wikoff D**. 2023. The need for good practice in the application of mechanistic constructs in hazard and risk assessment. Toxicol Sci kfad039; <https://doi.org/10.1093/toxsci/kfad039>.

Heintz MM, Doepker CL, **Wikoff DS**, Hawks SE. 2021. Assessing the food safety risk of ochratoxin A in coffee: A toxicology-based approach to food safety planning. J Food Sci 86(11):4799-4810.

Palermo CM, Foreman JE, **Wikoff DS**, Lea I. 2021. Development of a putative adverse outcome pathway network for male rat reproductive tract abnormalities with specific considerations for the androgen sensitive window of development. *Curr Res Toxicol* 22:2:254–271. doi: 10.1016/j.crtox.2021.07.002. PMID: 34401750; PMCID: PMC8350458.

Lea IA, Chappell GA, **Wikoff DS**. 2021. Overall lack of genotoxic activity among five common low- and no-calorie sweeteners: A contemporary review of the collective evidence. *Mutat Res Genet Toxicol Environ Mutagen* 868–869:503389. doi: 10.1016/j.mrgentox.2021.503389. PMID: 34454695.

Eichenbaum G, Yang K, Gebremichael Y, Howell BA, Murray FJ, Jacobson-Kram D, Jaeschke H, Kuffner E, Gelotte CK, Lai JCK, **Wikoff D**, Atillasoy E. 2020. Application of the DILLsym® Quantitative Systems Toxicology drug-induced liver injury model to evaluate the carcinogenic hazard potential of acetaminophen. *Regul Toxicol Pharmacol* 118:104788.

Wikoff DS, Bennett DC, Brorby GP, Franke KS. 2020. Evaluation of potential human health risk associated with consumption of edible products from livestock fed ration supplemented with Red Lake Diatomaceous Earth. *Food Addit Contam Part A*; DOI: 10.1080/19440049.2020.1727963.

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*, doi: 10.1002/jat.3814. Open access, <https://onlinelibrary.wiley.com/doi/full/10.1002/jat.3814>.

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(2018):709–723.

Bichteler A, **Wikoff DS**, Loko F, Harris MA. 2017. Estimating serum concentrations of dioxin-like compounds in the U.S. population effective 2005–2006 and 2007–2008: A multiple imputation and trending approach incorporating NHANES pooled sample data. *Environ Int* 105(2017):112–125.

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* 77:143–159, 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

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*, Mar 30. doi: 10.1002/jat.3132.

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* 466–467:586–597.

Bunch AG, Perry CS, Abraham L, **Wikoff DS**, Tachovsky JA, Hixon JG, 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* 468–469:832–842.

Birnbaum LS, **Staskal-Wikoff D**. 2010. 5th International PCB Workshop—Summary and implications. *Environment International* 36(8):814–818.

Rowlands CJ, **Staskal DF**, Gollapudi B, Budinsky R. 2010. The human AHR: Identification of single nucleotide polymorphisms from six ethnic populations. *Pharmacogen Genomics* 20(5):283–290.

- 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.
- Urban JD, Tachovsky JA, Haws LC, **Staskal DF**, Harris MA. 2010. Response to Buchanan 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(8):2004–2007.
- Urban J D, Tachovsky JA, Haws LC, **Wikoff Staskal D**, Harris MA. 2009. Assessment of human health risks posed by consumption of fish from the Lower Passaic River, New Jersey. *Sci Tot Environ* 408(2):209–224.
- Scott LLF, **Staskal DF**, Haws LC, Luksemburg WJ, Birnbaum LS, Williams ES, Urban JU, Nguyen LM, Paustenbach DJ, Harris MA. 2009. Levels of polychlorinated dibenzo-p-dioxins, dibenzofurans, and biphenyls in southern Mississippi catfish and estimation of potential health risks. *Chemosphere* 74(7):1002–1010.
- Donovan EP, **Staskal DF**, Unice KM, Roberts JD, Haws LC, Finley BL, Harris MA. 2008. Risk of gastrointestinal disease associated with exposure to pathogens in the sediments of the Lower Passaic River. *Appl Environ Microbiol* 74:1004–1018.
- Richardson VM, **Staskal DF**, Ross DG, Diliberto JJ, Devito MJ, Birnbaum LS. 2008. Possible mechanisms of thyroid hormone disruption in mice by BDE 47, a major polybrominated diphenyl ether congener. *Toxicol Appl Pharmacol* 226(3):244–250.
- Staskal DF**, Scott LLF, Haws LC, Luksemburg WJ, Birnbaum LS, Nguyen LM, Urban JD, Williams ES, Paustenbach DJ, Harris MA. 2008. Assessment of polybrominated diphenyl ether exposures and health risks associated with consumption of southern Mississippi catfish. *Environ Sci Technol* 42(17):6755–6761.
- Staskal DF**, Diliberto JJ, Birnbaum LS. 2006. Impact of repeated exposure on the toxicokinetics of BDE 47 in mice. *Toxicol Sci* 89:380–385.
- Staskal DF**, Diliberto JJ, Birnbaum LS. 2006. Disposition of BDE 47 in developing mice. *Toxicol Sci* 90:309–316.
- Staskal DF**, Hakk H, Bauer D, Diliberto JJ, Birnbaum LS. 2006. Toxicokinetics of polybrominated diphenyl ether congeners 47, 99, 100, and 153 in mice. *Toxicol Sci* 94:28–37.
- Staskal DF**, Diliberto JJ, DeVito MJ, Birnbaum LS. 2005. Inhibition of human and rat CYP1A2 by TCDD and dioxin-like chemicals. *Toxicol Sci* 84:225–231.
- Staskal DF**, Diliberto JJ, DeVito MJ, Birnbaum LS. 2005. Toxicokinetics of BDE 47 in female mice: Effects of dose, route of exposure, and time. *Toxicol Sci* 83:215–223.
- Birnbaum LS, **Staskal DF**. 2004. Brominated flame retardants: Cause for concern? *Environ Health Persp* 112:9–17.
- Schechter A, Papke O, Tung KC, **Staskal DF**, Birnbaum L. 2004. Polybrominated diphenyl ether contamination of United States food. *Environ Sci Technol* 38(20):5306–5311.
- Birnbaum LS, **Staskal DF**, Diliberto JJ. 2003. Health effects of polybrominated dibenzo-p-dioxins (PBDDs) and dibenzofurans (PBDFs). *Environ Intl* 29:855–860.

PROTOCOLS

Heintz M, Thompson C, Fitch S, Rogers S, **Wikoff D**, Haws L, Rivera B. 2023. Protocol to develop updated oral toxicity values for HFPO-DA. OSF | Protocol_Oct2023.pdf

Wikoff D, Thompson C, Vincent M, Fitch S, Britt J, Reichert H, Rogers S. 2023. Protocol for the systematic review of formaldehyde and lymphohematopoietic (LHP) cancers. OSF | Protocol_Formaldehyde and LHP SR.pdf

Fitch S, **Wikoff D**, Britt J, Lea I, Brown L, Borghoff S, et al. 2022. Systematic literature review and critical appraisal of mammalian reproductive studies evaluation potential effects associated with microplastics. OSF | Systematic Literature Review and Critical Appraisal of Mammalian Reproductive Studies Evaluation Potential Effects Associated with Microplastics

Franke K, Payne L, Franzen A, **Wikoff D**, Henderson R. 2021. Cannabidiol literature scoping review protocol. OSF | Cannabidiol Literature Scoping Review Protocol

Lalu M, Jeffers M, Moher D, Sena E, Macleod MR, Avey M, ... **Wikoff D**. 2020. PRISMA extension for preclinical in vivo animal experiments. OSF | PRISMA Extension for Preclinical In Vivo Animal Experiments

Fitch S, van de Ligt J, Payne L, Doepker C, Kleinman R, Handu D, Cohen SM, Anyangwe N, **Wikoff D**. 2019. Systematic map protocol: A systematic map of the use of acceptable daily intake (ADI) as a health-based benchmark in nutrition research studies that consider the safety of low-calorie sweeteners (LCS). [Open Science Framework](#).

Wikoff D, Fitch SE, Payne L, Doepker C, van de Ligt J. 2019. Systematic map: Use of the acceptable daily intake (ADI) values in nutrition research studies that consider the safety of low-calorie sweeteners. <https://osf.io/6x3ks/>.

Fitch S, Goyak K, Green Maia, Grimm F, **Wikoff D**. 2019. Estrogen-mediated outcomes for alkylphenols via an adverse outcome pathway (AOP) construct. Open Science Framework, August, <https://osf.io/dwg4c/>.

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>.

Tsaion K, Dirven H, Beck Færden K, **Wikoff D**, Ram R, Kleinstreuer N, McCormack A, Wright R, Vist GE, Fitch S. 2018. Systematic reviews of the hepatotoxic effects of specified compounds/drugs as observed in humans and experimental animals (rats, mice, dogs and non-human primates). PROSPERO. Available at: http://www.crd.york.ac.uk/PROSPERO/display_record.php?ID=CRD42018112353.

Wikoff D, Suh M, Harvey S, Proctor D, Beretvas T, Goodman M, Lipworth L. 2016. Systematic review and meta-analysis of occupational exposure to Cr(VI) and stomach cancer. PROSPERO 2016:CRD42016051625 Available from http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42016051625

Wikoff D, Borghoff B, Rager J, Harvey S, Haws L. 2016. A systematic review of the mechanistic evidence of tetrabromobisphenol A (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 D, Doepker C, Welsh B, Urban J, Henderson R, Brorby G, Britt J, Harvey S, Goldberger J, Myers E, O'Brien C, Peck J, Lieberman H, Weaver C, Tenebein M. 2015. Systematic review of the adverse cardiovascular effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. PROSPERO 2015:CRD42015026673. Available from http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42015026673

Wikoff D, Doepker C, Welsh B, Urban J, Henderson R, Britt J, Harvey S, Goldberger J, Myers E, O'Brien C, Peck J, Lieberman H, Weaver C, Tenebein M. 2015. Systematic review of the adverse bone and calcium balance effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. PROSPERO 2015:CRD42015026609 Available from http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42015026609

Wikoff D, Doepker C, Welsh B, Goldberger J, Lieberman H, Myers E, O'Brien C, Peck J, Tenebein M, Weaver C. 2015. Systematic review of the adverse behavioral effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. PROSPERO 2015:CRD42015027413 Available from http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42015027413

Wikoff D, Doepker C, Welsh B, Harvey S, Goldberger J, Lieberman H, Myers E, O'Brien C, Peck J, Tenebein M, Urban J, Weaver C. 2015. Systematic review of the adverse reproductive and developmental effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. PROSPERO 2015:CRD42015026736 Available from http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42015026736

Wikoff D, Doepker C, Welsh B, Harvey S, Goldberger J, Lieberman H, Myers E, O'Brien C, Peck J, Tenebein M, Urban J, Weaver C. 2015. Systematic review of acute adverse effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. PROSPERO 2015:CRD42015026704 Available from http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42015026704

SELECTED SCIENTIFIC MEETING PRESENTATIONS

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.

Wikoff D. An introduction to evidence integration. Workshop Session, Abstract 1333, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Wikoff D, Fitch S, Vincent M, Southall MD, Atilasoy E, Weinstein RD, Ejaz SD, Rhoden JD, Choksi N. Biological plausibility assessment of acetaminophen and occurrence of developmental neurological outcomes in humans. Abstract 4768, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025. (*Honored as one of the Risk Assessment Specialty Section's Top 10 Abstracts*)

Wikoff D. Pragmatic solutions for better using evidence-based methods to integrate observational data in food safety assessments. Toxicology Forum 2025 Winter Meeting, Raleigh, NC, February 2025.

Wikoff D. Use cases of strategic application of ML/AI in the risk assessment process. Toxicology Forum 2025 Winter Meeting, Raleigh, NC, February 2025.

DeVito, Bokkers B, van Duursen M, van Ede K, Feeley M,... Haws L,... **Wikoff D**, et al. The 2022 WHO reevaluation of human and mammalian toxic equivalency factors for polychlorinated dioxins, dibenzofurans and biphenyls. Abstract 3626, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Fitch S, Ellis-Hutchings R, Rogers J, Marty S, Rushton E,... **Wikoff D**. Study quality evaluation of literature reporting plastic microparticle exposure against reproductive and developmental toxicity endpoints. Abstract 5159, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Franke K, Vincent M, Rogers S, Rivera B, **Wikoff D**. Assessment of non-occupational exposures to cleaning products and the incidence of asthma and respiratory disease. Abstract 3393, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Lynn SG, Lea IA, Urban J, Borghoff SJ, **Wikoff D**, Fitch S, Perry C, Choksi N, Britt J, Heintz M, Klaren W, et al. Development and application of systematic approach to inventory and interrogate thyroid hormone network information. Abstract 4357, 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.

Urban JD, Covington TR, Fitch SE, **Wikoff DS**. Dioxin-like compounds in soils: A pilot survey updating background soil TEQ. Abstract 5147, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Vincent M, Fitch S, Bylsma L, Thompson C, Rogers S, Britt J, **Wikoff D**. Integration of toxicological and epidemiological information to evaluate biological plausibility and causality of associations between inhaled formaldehyde (FA) and lymphohematopoietic (LHP) cancers. Abstract 5157, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Choksi NY, Fitch S, Harris MA, Thompson CM, **Wikoff DS**. Reliability assessment of guideline-based studies using systematic review critical appraisal tools. Poster presented at Society of Toxicology 62nd Annual Meeting, Nashville, TN, March 2023.

Fitch S, Rogers J, Marty S, Ellis-Hutchings R, Becker R, **Wikoff D**. Development of a study quality tool for use in a systematic review of literature reporting microplastic exposure and reproductive and developmental toxicity. Poster presented at Society of Toxicology 62nd Annual Meeting, Nashville, TN, March 2023.

Franzen AC, Thompson CM, Brorby GP, **Wikoff DS**, Ilkbahar Z, Doepker C. Risk assessment of three smoke flavoring primary products currently under re-evaluation by EFSA. Poster presented at Society of Toxicology 62nd Annual Meeting, Nashville, TN, March 2023.

Rivera BN, Svetlik A, Klaren WD, **Wikoff DS**, Henderson RG. Scoping review of the immunomodulatory effects of cannabidiol: Effects within T cells. Poster presented at Society of Toxicology 62nd Annual Meeting, Nashville, TN, March 2023.

Thompson CM, **Wikoff DS**, Proctor DM, Harris MA. An evaluation of risk assessments on hexavalent chromium [Cr(VI)]: The past, present, and future of mode of action research. Poster presented at Society of Toxicology 62nd Annual Meeting, Nashville, TN, March 2023.

LaPlaca SB, Heintz MM, **Wikoff D**, Haws LC. Multi-step integration of ecotoxicological study reliability in ecological risk assessment. Poster at Society of Environmental Toxicology and Chemistry ([SETAC](https://www.setac.org/)), Philadelphia, PA, November 2022.

Fitch S, Klaren WD, Payne L, **Wikoff D**. Comparison of public and private literature databases for toxicological investigations. Poster presented at Society of Toxicology 61st Annual Meeting, San Diego, CA, March 2022.

Panel Discussion Moderator: "Systematic review in the risk assessment community—Highlights of key utilities, challenges, and opportunities for path forward." The Toxicology Forum, Virtual Summer Meeting, July-August 2021.

Wikoff D, Fitch S, Borghoff S. Case-study applications using evidence-based approaches to assess endocrine activity for risk assessment. Invited speaker (Wikoff). Society for Birth Defects Research & Prevention 61st Annual Meeting, Virtual, June 2021.

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, 59th Annual Meeting, Virtual, 2020, <https://eventpilotadmin.com/web/page.php?page=Session&project=SOT20&id=P3209>.

Henderson RG, Franzen A, Franke K, Payne L, Schmitt D, **Wikoff D**. Creating a literature database for cannabidiol (CBD): Systematic evidence mapping. Poster for Society of Toxicology, 59th Annual Meeting, Virtual, 2020, <https://eventpilotadmin.com/web/page.php?page=Session&project=SOT20&id=P1236>.

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>.

Wikoff D, Erranguntla N, Lewis J, Foreman J. A fit-for-purpose framework for use of systematic methods in risk assessment. 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.

Borghoff S, Fitch S, Britt J, Franke K, **Wikoff D**. Application of the EFSA/ECHA endocrine disruption guidance as a framework for evidence integration in a weight-of-evidence (WoE) analysis for oxybenzone (BP-3). 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**, 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.

Borghoff SJ, Fitch S, Huggett, **Wikoff D**. A hypothesis-driven weight-of-evidence analysis to evaluate potential endocrine disrupting properties of perfluorohexanoic acid (PFHxA). 2019. 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.

Wikoff D. Problem formulation: Lessons and tools from practical applications involving systematic review of mechanistic data. Presented at Strategies and Tools for Conducting Systematic Reviews of Mechanistic Data to Support Chemical Assessments, National Academies of Sciences, Engineering, and Medicine. Washington, D.C., December 2018.

Borghoff S, **Wikoff D**, Urban JD, Rager JE. A systematic approach to identify plausible mode-of-actions (MOA) for an increased incidence of lung tumors in mice with chronic exposure to 4-methylimidazole (4-MEI). Society of Toxicology 57th Annual Meeting, San Antonio, TX, March 2018.

Wikoff D. Moving beyond theory to the use of systematic review to support regulatory decision making for evidence-based risk assessment. 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 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.

Wikoff DS, Welsh BT, Henderson R, Brorby G, Britt J, Myers E, Goldberger J, Lieberman HR, O'Brien C, Doepker C. Application of systematic reviews in the evaluation of caffeine safety: Potential adverse effects of caffeine consumption in healthy adults, pregnant women, adolescents, and children. Society of Risk Analysis Annual Meeting, Arlington, VA, December 2017.

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.

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.

Suh M, Harvey S, **Wikoff D**, Mittal L, Ring C, Goodmanson A, Proctor D. Meta-analysis of hexavalent chromium and stomach cancer. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 2017.

Chappell G, Welsh B, Harvey S, Harris M, **Wikoff D**. Validation and application of a text mining tool in the identification and categorization of mechanistic data: A case study in improving problem formulation of carcinogenicity assessments. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 2017.

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 56th Annual Meeting, Baltimore, MD, March 2017.

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.

Borghoff SJ, **Wikoff D**, White MC, Thompson C, 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's 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.

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.

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.

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.

Diliberto JJ, Sirinek L, Burkhalter B, **Wikoff DS**, 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 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 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 2011.

Rowlands JC, Urban J, **Wikoff DS**, Budinsky R. The presence and estimated functional effect of single nucleotide polymorphisms at the AIP, ARNT, HSP90AA1, AND HSP90AB1 loci in the human population. Presented at Dioxin 2011, Brussels, Belgium, August 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 2011.

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.

Staskal-Wikoff D, Budinsky R, Rowlands JC. Single nucleotide polymorphisms in the human aryl hydrocarbon receptor interacting protein (AIP) gene from six ethnic populations. 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.

Harris M, Tachovsky JA, **Staskal-Wikoff D**, Aylward L, Burkhalter B, Simon T, Haws L. Serum concentrations of dioxin-like compounds in a population in Midland Michigan: An evaluation of the impact of soil exposures. Presented at Dioxin 2010, San Antonio, TX, September 2010.

Harris M, Tachovsky JA, **Staskal-Wikoff D**, Simon T, Burkhalter B, Urban J, Haws L. Assessment of the impact of various soil cleanup levels on serum concentrations of dioxin-like compounds in humans. Presented at Society of Toxicology 49th Annual Meeting, Salt Lake City, UT, March 2010.

Haws L, Tachovsky JA, **Staskal-Wikoff D**, Aylward L, Burkhalter B, Urban J, Simon T, Harris M. An evaluation of the influence of different soil cleanup levels on the concentration of dioxin-like compounds in human serum. Presented at Dioxin 2010, San Antonio, TX, September 2010.

Staskal-Wikoff D, Burkhalter B, Stapleton H, Harris M. PBDEs in Newark Bay sediments. Presented at Dioxin 2010, San Antonio, TX, September 2010.

Staskal DF, Birnbaum LS. Screening-level assessment of risk associated with exposure to PBDEs in Vehicles. Society for Toxicology 48th Annual Meeting, Baltimore, MD, March 2009.

Urban JD, Tachovsky JA, **Staskal DF**, Haws LC, Harris MA. Human health risk assessment of consumption of fish from the Lower Passaic River. Society for Toxicology 48th Annual Meeting, Baltimore, MD, March 2009.

Urban JD, Haws LC, Scott LF, Scott PS, **Staskal DF**, Tachovsky AT, Unice KM, Harris MA. A framework for evaluating serum dioxin data derived from biomonitoring studies. Society for Toxicology 47th Annual Meeting, Seattle, WA, March 2008.

Haws LC, Scott LLF, **Staskal DF**, Harris MA, Finley BL. Evaluation of biomonitoring data for dioxin-like compounds in workers at a primary magnesium production facility. Society for Risk Analysis, San Antonio, TX, December 2007.

Staskal DF, Donovan EP, Haws LC, Roberts JD, Unice KM, Finley BL, Harris MA. A quantitative microbial risk assessment for exposure to pathogens in waters and sediments of the Lower Passaic River. Society for Risk Analysis, San Antonio, TX, December 2007.

Staskal DF, Donovan E, Roberts J, Unice K, Finley B, Harris M. Human health risk associated with exposure to pathogen-contaminated sediments. Society of Toxicology 46th Annual Meeting, Charlotte, NC, March 2007.

Diliberto JJ, **Staskal DF**, Hakk H, Birnbaum LS. Differential urinary protein binding of PBDEs in mice. Society of Toxicology 46th Annual Meeting, Charlotte, NC, March 2007.

Emond C, Raymer J, Garner E, Diliberto J, **Staskal D**, Birnbaum LS. A physiologically-based pharmacokinetic model for developmental exposure to PBDE-47 in rodents. Society of Toxicology 46th Annual Meeting, Charlotte, NC, March 2007.

Nguyen LM, **Staskal DF**, Ferriby LL, Williams ES, Luksemburg WJ, Haws LC, Birnbaum LS, Paustenbach DJ, Harris MA. Dietary intake of PBDEs based on consumption of catfish in southern Mississippi. Society of Toxicology 46th Annual Meeting, Charlotte, NC, March 2007.

Staskal DF, Scott LLF, Williams ES, Luksemburg WJ, Haws LC, Birnbaum LS, Nguyen LM, Paustenbach DJ, Harris MA. Daily intake estimates of PBDEs associated with consumption of catfish in the U.S. Presented at the Fourth International Workshop on Brominated Flame Retardants, Amsterdam, Netherlands, April 2007.

Staskal DF, Diliberto JJ, Birnbaum LS. Effect of age on the tissue distribution of BDE 47 in mice. Society of Toxicology 45th Annual Meeting, San Diego, CA, March 2006.

Richardson VM, **Staskal DF**, Diliberto JJ, Birnbaum LS. Effects of BDE 47 on nuclear receptor regulated genes and implications for thyroid hormone disruption. Society of Toxicology 45th Annual Meeting, San Diego, CA, March 2006.

Bauer D, **Staskal DF**, Diliberto JJ, Birnbaum LS. Disposition of BDE 99 and BDE 153 in female mice. Society of Toxicology Annual Meeting, New Orleans, LA, March 2005.

Staskal DF, Diliberto JJ, DeVito MJ, Birnbaum LS. Tissue distribution and elimination of BDE 47 in mice following a single oral dose. Organohalogen Compounds, Dioxin 2004.

Staskal DF, Diliberto JJ, DeVito MJ, Birnbaum LS. Disposition of 2,2',4,4'-tetrabromodiphenylether (BDE 47) in female mice. Society of Toxicology 43rd Annual Meeting, Baltimore, MD, March 2004.

Staskal DF, DeVito MJ, Ross DG, Birnbaum LS. A comparison of the metabolism of methoxyresorufin, acetanilide, and caffeine in rat and human CYP1A2 SUPERSOMES. Society of Toxicology 42nd Annual Meeting, Salt Lake City, UT, March 2003.

Staskal DF, DeVito MJ, Ross DG, Birnbaum LS. Caffeine, acetanilide, and methoxyresorufin metabolism by rat and human CYP1A2 supersomes and their inhibition by 2,3,7,8,-tetrachlorodibenzo-p-dioxin (TCDD). Organohalogen Compounds, Dioxin 2003.

Staskal DF, DeVito MJ, Ross DG, Birnbaum LS. Inhibition of human and rat CYP1A2 by TCDD and dioxin-like chemicals. Society of Toxicology 41st Annual Meeting, Nashville, TN, March 2002.