

Melissa J. Vincent, M.S.

SUPERVISING SCIENTIST

CONTACT INFORMATION

ToxStrategies, A BlueRidge Life Sciences Company
201 East Fifth Street, Suite 1900 – #1353
Cincinnati, OH 45202
Phone (828) 419-7996
mvincent@toxstrategies.com

PROFESSIONAL PROFILE

Ms. Melissa Vincent is a Supervising Scientist in ToxStrategies' Health Sciences Practice. She has 18 years of applied experience in human health risk assessment and has demonstrated proficiency in the use and application of epidemiology, toxicology, and biostatistics in support of evidence integration and quantitative dose-response assessments. This includes evaluation of cancer and non-cancer health outcomes associated with pesticides, phthalates, food flavorings and additives, consumer products, pharmaceuticals, water contaminants (including arsenic, nitrite, and nitrate, chloroform, and PFAS), oil- and gas-related exposures, metals (including nickel, hexavalent chromium, vanadium, and cobalt), and other environmental exposures (including ethylene oxide, formaldehyde). Ms. Vincent's expertise in epidemiological analysis supports current practices of cumulative impact assessment and considerations of chemical and non-chemical stressors and social determinants of health in risk characterization.

Ms. Vincent has expertise in statistical analysis of epidemiological and toxicological data, particularly in the use and application of regression modeling, including benchmark dose modeling and meta-regression analysis, to evaluate dose-response relationships and derive points of departure, including effective concentrations, for chemical risk assessments. Ms. Vincent has experience with application of USEPA guidance for benchmark dose modeling and has taught many professional continuing education courses regarding the application of these techniques for cancer and noncancer risk assessments. She also incorporates qualitative and quantitative uncertainties in dose and response, and the impact of those uncertainties on quantitative risk assessments through application of probabilistic and Bayesian analysis, bias adjustments, and/or sensitivity analyses.

In her practice, Ms. Vincent utilizes systematic review and risk assessment frameworks for critically evaluating epidemiological evidence for integration with toxicological hazard and mode of action information. This includes formal application of critical appraisal, qualitative and quantitative bias assessment, and evidence synthesis, including use of meta-analysis, triangulation, and GRADE (Grading of Recommendations Assessment, Development, and Evaluation)-based frameworks with an emphasis on biological plausibility.

EDUCATION AND DEGREES EARNED

2013 M.S., Epidemiology, University of Cincinnati, Cincinnati, OH

2007 B.A., Zoology, Miami University, Oxford, OH

PROFESSIONAL HONORS/AWARDS

2022 Society of Toxicology Risk Assessment Specialty Section; Top Ten Abstract Award, “Risk assessment of organic impurities detected in hand sanitizers marketed to children during the COVID-19 pandemic.”

2015 US Environmental Protection Agency Scientific and Technological Achievement Award (STAA)—Honorable Mention

2008 Society of Risk Analysis; Best Poster Award, “The effects of acute exposure to methyl isothiocyanate (MITC).”

PROFESSIONAL ASSOCIATIONS

Society for Risk Analysis

Society for Epidemiologic Research

Society of Toxicology (Full Member)

Evidence-Based Toxicology Collaboration

SELECTED PROFESSIONAL EXPERIENCE

Risk Assessment and Quantitative Dose-Response Assessment

Application of quantitative uncertainty assessments to exemplify the ranges of probable toxicity factors that could be derived for a chemical risk assessment, based on uncertainties in evidence selection, evidence interpretation, modeling approaches, and uncertainty factor application.

Applied systematic review methods, including risk-of-bias assessment and formal integration of epidemiological and toxicological evidence (with an emphasis on biological plausibility), to evaluate the likelihood that observed associations between inhalation of formaldehyde and development of lymphohematopoietic cancers are causal.

Supported derivation of inhalation unit risk estimates for hexavalent chromium based on updated lung cancer mortality information from an aerospace manufacturing facility. Mortality information across three separate cohorts was pooled to examine cumulative exposure response across a broader range of exposures to incorporate explanatory variables such as smoking, and inform dose-response shape in the lower-dose region.

Investigated the association of ethylene oxide exposure on breast and lymphohematopoietic cancers using mode-of-action analysis, evidence integration, and dose-response evaluation.

Developed Immediately Dangerous to Life or Health (IDLH) documentation for the National Institute for Occupational Safety and Health (NIOSH), including application of duration adjustments for acute exposures.

Supported development of skin notation documents for NIOSH, including utilization of human and animal data on acute and repeat-dose toxicity, skin irritation, and skin sensitization potential.

Statistical Analyses

Supported development and applied probabilistic methods to quantitatively evaluate the impact (magnitude and direction) of biases attributable to exposure or outcome misclassification and confounding in observational epidemiological evidence.

Analyzed the impact of changes in dietary cholesterol and trans-fatty acid intake on serum lipoprotein concentrations through linear and non-linear Bayesian meta-regression analysis using Markov Chain Monte Carlo (MCMC) methods.

Created packaging recommendations for alcohol-based hand sanitizer to reduce the potential for accidental exposure. Recommendations were based on evaluation of Poison Control Center data, including information on relative abuse rates, to evaluate associations between hand sanitizer packaging and formulation, and the risk of accidental or intentional exposure.

Performed a meta-regression analysis to determine the relative risks associated with occupational exposure to nickel-containing compounds after reviewing available epidemiological data on exposure and reported mortality risks due to specific cancers.

Collaborated with biomathematicians and the USEPA to evaluate mixtures and test for consistency with assumptions of dose addition. This work earned an Honorable Mention for the USEPA's Scientific and Technical Achievement Award (STAA).

Epidemiology

Developed recommendations, training modules, and guidance for utilization of observational epidemiological evidence for causality analysis and chemical risk assessment.

Supported clients in preparation for IARC evaluations, including critical appraisal of observational epidemiological evidence and application of methods described in the IARC monograph "Bias Assessment in Case-Control and Cohort Studies for Hazard Identification (Statistical Methods in Cancer Research, Volume V)". Methods applied include development of causal maps, meta-analysis, quantitative bias analysis, and evidence synthesis.

Supported development of an exemplary infographic tool that describes associations between risk factors associated with childhood asthma with the goal of facilitating community-engagement and cumulative impact assessment development.

Applied systematic review methods, including formal critical appraisal and risk of bias analysis, to identify uncertainties in epidemiological evidence regarding use of an over-the-counter medication. This evaluation included application of quantitative bias assessment to inform on the magnitude of identified biases and impact on evidence certainty and interpretation.

Reviewed epidemiological information regarding occupational exposures to vapors at a nuclear facility. This work required consideration of biases, such as underreporting of effects, confounding exposures, and diagnostic limitations.

Conducted a systematic literature search and review of epidemiological research investigating cleaning products and their ingredients, and asthma or asthma-like syndromes. Developed a set of tools for safety assessment of respiratory responses in occupational cleaning situations based on these findings.

Evaluated historical exposures to sulfidic, oxidic, soluble, and metallic nickel in refining operations. This work involved development of an exposure matrix that adjusts historical exposures to account for changes in refining processes, inaccuracies in speciation, and worker history.

Evaluated associations between glyphosate exposures and multiple cancer endpoints, including but not limited to lymphohematopoietic tumors, as reported in the epidemiological literature. Used meta-analytic approaches to support integration of findings across study populations.

Evaluated the association between ethylene oxide exposure and breast and lymphohematopoietic cancers through critical evaluation of both occupational and community-based epidemiological literature. This information was integrated with mode-of-action analysis to support quantitative dose-response assessment.

Regulatory Support

Assisted in development of nonclinical research strategies, risk assessment frameworks, and bridging strategies to minimize testing requirements in support of submitting a Pre-Market Tobacco Application (PMTA) to the US Food and Drug Administration. Led a team of scientists in evaluating potential health risks from use of electronic nicotine delivery systems (ENDS) to estimate the impact on public health. The risk characterization of exposure included evaluation of flavorings and other chemicals of concern.

Prepared public comments on external review draft human health risk assessments developed by USEPA.

MANUSCRIPTS

Allen BC, **Vincent MJ**, Lipworth L, Panko JM, Suh M, Jiang X, Mumma MT, Proctor DM. 2025. Lung cancer risk assessment associated with exposure to hexavalent chromium: Results of pooled analysis of three cohorts. J Occup Environ Hyg; doi: 10.1080/15459624.2025.2502491. Online ahead of print May 28, 2025. PMID: 40435461.

Borghoff SJ, Rivera B, Fitch S, Buerger AN, Choksi N, Franzen A, **Vincent MJ**, Covington T, Bus J, Rushton E, Lea IA. 2025. Systematic evaluation of the evidence base on methyl tert-butyl ether supporting a lack of concern for carcinogenic hazard in human based on animal cancer studies and mechanistic data. Curr Res Toxicol 8:100224; doi: [10.1016/j.crtox.2025.100224](https://doi.org/10.1016/j.crtox.2025.100224).

Lipworth L, Panko JM, Allen BC, Mumma MT, Jiang X, **Vincent MJ**, Bare JL, Antonijevic T, Vivanco SN, Marano DE, Suh M, Cohen S, Mittal L, Proctor DM. 2025. Lung cancer mortality among aircraft manufacturing workers with long-term, low-level, hexavalent chromium exposure. J Occup Environ Hyg 22(3):214-227; doi: 10.1080/15459624.2024.2439817. PMID 39773194; [open access](#).

Schaefer HR, **Vincent MJ**, Burns CJ, Lange SS. Increasing the utility of epidemiologic studies as key evidence in chemical risk assessment. Toxicol Sci 203(2):166-170; doi: 10.1093/toxsci/kfae134. PMID: 39657235; [open access](#).

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.

Bates CA, **Vincent MJ**, Buerger AN, Santamaria AB, Maier A, Jack M. 2024. Investigating the relationship between β -carotene intake from diet and supplements, smoking, and lung cancer risk. Food Chem Toxicol 194: 115104; doi: 10.1016/j.fct.2024.115104; [open access](#).

Eturki M, Davis KG, **Vincent M**, Arnold SF, Maier A. 2024. Micro-environmental factors impact breathing zone exposures: A simulated petrochemical manufacturing facility task. *Arch Environ Occup Health* 79(1):11–22; doi: 10.1080/19338244.2024.2328523.

Russell AJ, **Vincent M**, Buerger AN, Dotson S, Lotter J, Maier A. 2024. Establishing short-term occupational exposure limits (STELs) for sensory irritants using predictive and in silico respiratory rate depression (RD50) models. *Inhal Toxicol* 36(1):13–25; doi: 10.1080/08958378.2023.2299867.

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

Henderson RG, **Vincent M**, Rivera BN, Bonn-Miller MO, Doepker C. 2023. Cannabidiol safety considerations: Development of a potential acceptable daily intake value and recommended upper intake limits for dietary supplement use. *Regul Toxicol Pharmacol* 144:105482; doi: 10.1016/j.yrtph.2023.105482; [open access](#).

Lynch, HN, Kozal JS, **Vincent MJ**, Freid RD, Beckett EM, Brown S, Mathis C, Schoeny RS, Maier A. 2023. Systematic review of the human health hazards of propylene dichloride. *Regul Toxicol Pharm* 144:105468; doi: 10.1016/j.yrtph.2023.105468.

Stewart CK, Parker J, Hwang R, **Vincent M**, Fung E. 2023. Quantitative risk assessment of dermal sensitization potential following use of shampoo products containing the formaldehyde releasing preservative DMDM hydantoin. *Int J Toxicol* 42(4):362–333; doi: 10.1177/10915818231174429.

Boles C, Maier A, **Vincent M**, Stewart C, Attar S, Yeomans D. 2022. Multi-route exposure sampling of quaternary ammonium compounds and ethanol surface disinfectants in a K-8 school. *Indoor Air* 32(5):e13036; doi: 10.1111/ina.13036.

Gloekler LE, de Gandiaga EJ, Binczewski NR, Steimel KG, Massarsky A, Kozal J, **Vincent M**, et al. 2022. Evaluation of the safety and efficacy of hand sanitizer products marketed to children available during the COVID-19 pandemic. *Int J Environ Res Pub Health* 19(21):14424.

Haber LT, Pecquet AM, **Vincent MJ**, White LM. 2022. The long goodbye: Finally moving on from the relative potency approach to a mixtures approach for polycyclic aromatic hydrocarbons (PAHs). *Int J Environ Res Pub Health* 19(15):9490.

Han A, Buerger AN, Allen H, **Vincent M**, Thornton SA, Unice KM, Maier A, Quiñones-Rivera. 2022. Assessment of ethanol exposure from hand sanitizer use and potential for developmental toxicity in nursing infants. *J Appl Toxicol* 42(9):1424–1442; doi: 10.1002/jat.4284.

Cherry D, Friedman E, **Vincent M**, Maier A. 2021. The legacy of weapons grade plutonium production: Health status of Hanford complex workers who manage the waste. *Toxicol Ind Health* 37(5):260–269; doi: 10.1177/0748233721996555.

Haber LT, Reichard JF, Henning AK, Dawson P, Chinthraja RS, Sindher SB, Long A, **Vincent MJ**, et al. 2021. Bayesian hierarchical evaluation of dose-response for peanut allergy in clinical trial screening. *Food Chem Toxicol* 151:112125; doi: 10.1016/j.fct.2021.112125.

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Vincent MJ, Kozal SJ, Thompson WJ, Maier A, Dotson GS, Best EA, Mundt KA. 2019. Ethylene oxide: Cancer evidence integration and dose-response implications. *Dose Response* 17(4):1559325819888317. PMID: 3185323510.

Vincent MJ, Allen BA, Palacios OM, Haber LT, Maki KC. 2019. Meta-regression analysis of the effects of dietary cholesterol intake on LDL and HDL cholesterol. *Am J Clin Nutr* 109(1):7–16; doi: 10.1093/ajcn/nqy273.

Haber LT, Dourson ML, Allen BC, Hertzberg RC, Parker A, **Vincent MJ**, et al. 2018. Benchmark dose (BMD) modeling: Current practice, issues, and challenges. *Crit Rev Toxicol* 48(5):387–415; doi: 10.1080/10408444.2018.1430121.

Pecquet AM, Martinez JM, **Vincent M**, Erraguntla N, Dourson M. 2018. Derivation of a no-significant-risk-level for tetrabromobisphenol A based on a threshold non-mutagenic cancer mode of action. *J Appl Toxicol* 38(6):862–878; doi: 10.1002/jat.3594.

Haber LT, Bates HK, Allen BC, **Vincent MJ**, Oller AR. 2017. Derivation of an oral toxicity reference value for nickel. *Regul Toxicol Pharmacol* 87(S1–S18); doi: 10.1016/j.yrtph.2017.03.011.

Vincent MJ, Bernstein JA, Basketter D, LaKind JS, Dotson GS, Maier A. 2017. Chemical-induced asthma and the role of clinical, toxicological, exposure and epidemiological research in regulatory and hazard characterization approaches. *Regul Toxicol Pharmacol* 90:126–132; doi: 10.1016/j.yrtph.2017.08.018.

Vincent MJ, Parker A, Maier A. 2017. Cleaning and asthma: A systematic review and approach for effective safety assessment. *Regul Toxicol Pharmacol* 90:231–243; doi: 10.1016/j.yrtph.2017.09.013.

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Maier A, **Vincent MJ**, Parker A, Gadagbui BK, Jayjock M. 2015. A tiered asthma hazard characterization and exposure assessment approach for evaluation of consumer product ingredients. *Regul Toxicol Pharmacol* 73(3):903–913.

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Maier A, **Vincent MJ**, Gadagbui B, Patterson J, Beckett W, Dalton P, et al. 2014. Integrating asthma hazard characterization methods for consumer products. *Regul Toxicol Pharmacol* 70(1):37–45.

Maier A, **Vincent M**, Hack E, Nance P, Ball W. 2014. Derivation of an occupational exposure limit for inorganic borates using a weight of evidence approach. *Regul Toxicol Pharmacol* 68(3):424–437.

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Maier A, **Kohrman-Vincent M**, Parker A, Haber LT. 2010. Evaluation of concentration-response options for diacetyl in support of occupational risk assessment. *Regul Toxicol Pharmacol* 58(2):285–296.

Haber LT, Maier AM, Kroner OL, **Kohrman MJ**. 2009. Evidence-based assessment of human relevance and mode of action for tunica vaginalis mesotheliomas resulting from oral exposure to acrylamide. *Regul Toxicol Pharmacol* 53(2):134–149.

Dourson M, Hertzberg R, Allen B, Haber L, Parker A, Kroner O, Maier A, **Kohrman M**. 2008. Evidence-based dose response assessment for thyroid tumorigenesis from acrylamide. *Regul Toxicol Pharmacol* 52(3):264–289.

Wullenweber A, Kroner O, **Kohrman M**, Maier A, Dourson M, Rak A, Wexler P, Tomljanovic C. 2008. Resources for global risk assessment: The International Toxicity Estimates for Risk (ITER) and Risk Information Exchange (RiskIE) databases. *Toxicol Appl Pharmacol* 233(1):45–53.

BOOK CHAPTERS

Gadagbui B, **Vincent M**, Willis A. 2014. Methyl isothiocyanate. In: Wexler, P (ed), *Encyclopedia of Toxicology*, 3rd ed., pp. 310–313. Elsevier.

Zhao QJ, Haber L, **Kohrman-Vincent M**, Nance P, Dourson M. 2010. Quantitative modeling in noncancer risk assessment. In: Krishnan K, Andersen ME (eds), *Quantitative modeling in toxicology*. John Wiley & Sons Ltd.

ABSTRACTS AND PRESENTATIONS

Buerger AN, **Vincent MJ**, Fitch S, Rushton EK, Borghoff SJ. Evaluation of potential obesogenicity through a mode of action approach: A case study with MTBE. Abstract 3928, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Vincent M. The critical role of biological plausibility in evidence integration. In: Workshop Session: Integrating epidemiological, animal, and NAM evidence to move beyond correlation and into causality. Abstract 1336, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Wikoff D, Fitch S, **Vincent M**, Southall MD, Atillasoy 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.

Suh M, Mittal L, Brorby G, Pastula S, **Vincent M**, Proctor D. Epidemiology is critical in advancing cumulative impact assessment (CIA) research: A pilot study in San Antonio, Texas. International Society of Exposure Science Annual Meeting, Montreal, Canada, October 2024.

Vincent M. Epidemiology in quantitative dose-response analysis and point of departure derivation. In: Capturing unknowns: Increasing utility of epidemiologic studies as key evidence in chemical risk assessment. Presentation at Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Allen B, **Vincent M**, Lipworth L, Panko J, Suh M, Jiang X, Mumma, Proctor D. Lung cancer risk and exposure to hexavalent chromium: Results of extended mortality study of workers with low level exposures and quantitative risk assessment using pooled analysis of three cohorts. Society of Toxicology 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 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 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 Annual Meeting, Salt Lake City, UT, March 2024.

Wikoff DS, Fitch S, **Vincent M**. The importance of evidence-based methods and critical appraisal of systematic biases in evaluating causation: Case study on formaldehyde and lymphohematopoietic cancers. Presentation at Society for Risk Analysis (SRA) Annual Meeting, Washington, DC. December 2023. Bates C, Russell A, Dotson GS, **Vincent M**, Lotter J, Maier MA. Establishing OELs for sensory irritants with limited data using predictive and in silico models. Poster presentation P126 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo, San Diego, CA. Toxicologist Late-Breaking Supp. 168(1):17. Abstract 5023. March 2022.

Boles C, Stewart C, **Vincent M**, Attar S, Yeomans D, Maier A. An exposure assessment of disinfectants in school classrooms: A case study scenario-based product safety assessment. Poster presentation P636 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo, San Diego, CA. Toxicologist 186(S1):281. Abstract 3945. March 2022.

Buerger A, Bates C, Boles C, **Vincent M**, Dotson S. Ochratoxin A and pesticides in craft beers: A pilot study. Poster presentation P193 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo, San Diego, CA. Toxicologist Late-Breaking Supp. 168(1):63. Abstract 5085. March 2022.

Gloekler L, Bincewski N, De Gandiaga E, Gibbs K, Kozal J, Massarsky A, **Vincent M**, et al. Evaluation of the safety and efficacy of children's hand sanitizers available during the COVID-19 pandemic. Poster presentation P664 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo, San Diego, CA. Toxicologist 186(S1):287. Abstract 3973. March 2022.

Han AA, Buerger AN, Allen H, **Vincent M**, Thornton AA, Unice K, Maier A. Assessment of ethanol exposure in nursing infants from maternal hand sanitizer use and potential for developmental toxicity. Poster presentation P514 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo, San Diego, CA. Toxicologist 186(S1):146. Abstract 3325. March 2022.

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Stewart C, Parker JA, Hwang R, **Vincent M**, Fung ES. Quantitative risk assessment of skin sensitization elicitation following use of shampoo products containing formaldehyde-releasing preservative DMDM hydration. Poster presentation P519 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo, San Diego, CA. Toxicologist 186(S1):148. Abstract 3330. March 2022.

O'Neil HC, **Vincent MJ**, Han AA, Brown SE, Hazell AM, Krieder ML, Madl AM. Hazard and risk banding framework for prioritization and bridging of e-liquids for toxicity testing. Poster presented at Society of Toxicology Annual Meeting, virtual event, March 2021.

Kozal JS, **Vincent MJ**, Thompson WJ, Maier A, Dotson GS, Best EA, Mundt KA. Ethylene oxide: Cancer evidence integration and dose-response implications. Poster presented at Society of Toxicology Annual Meeting, Anaheim, California, March 2020.

Best EA, **Vincent MJ**, Thompson WJ, Maier A, Dotson GS, Kozal JS, Mundt KA. The role of study quality in examining the risk of cancer from occupational exposure to ethylene oxide. Poster presented at Society for Risk Analysis Annual Meeting, Arlington, Virginia, December 2019.

Palacios O, **Vincent M**, Allen B, Haber L, Maki K. The effect of dietary cholesterol on high-density lipoprotein cholesterol levels in men and women: a meta-analysis of randomized controlled trials. American Society of Nutrition Meeting, June 2018.

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Patterson J, Maier A, **Vincent M**, Gadagbui B. Integrating hazard characterization approaches for evaluating the potential of consumer products to cause asthma. The Toxicologist 132:420, 2013.

Maier A, **Kohrman-Vincent M**, Hack E, Nance P, Ball W. Derivation of an occupational exposure limit for inorganic borates using a weight of evidence approach. The Toxicologist 132:476, 2013.