

Brent L. Finley, Ph.D., DABT

SENIOR VICE PRESIDENT

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Dr. Brent Finley has more than 30 years of experience conducting and managing studies involving chemical exposures and human health risk assessment. He specializes in applied research, litigation support, and risk-based site investigations. Dr. Finley has studied the health effects of exposure to a wide range of chemicals and consumer products, including asbestos, artificial flavorings, and metal hip implants. He has provided expert witness testimony in lawsuits involving alleged health risks associated with consumer exposures to asbestos in cosmetic talc and occupational exposure to flavorings and dioxins in foods. Dr. Finley has been involved in the preparation of more than 400 risk assessments and has published more than 160 peer-reviewed papers on the topic of health risk assessment.

DEGREES AND REGISTRATION

1986	Ph.D., Toxicology/Pharmacology Washington State University, Pullman
1982	B.A., Biological Sciences Cornell University, Ithaca, NY
Diplomate	American Board of Toxicology, Inc.

SELECTED PROFESSIONAL EXPERIENCE

Lead Exposures

Currently a defense expert witness in several cases involving claims of child and adult exposures to lead in tap water.

Currently an expert witness in claims involving children exposed to “take-home” occupational lead.

Recently published a paper evaluating the relative influence of lead in baby food (vs. other lead sources) on blood levels in children (Price et al., 2023).

PFAS Investigation and Mitigation

PFAS Toxicity — Evaluated PFAS toxicity as described in animal exposure studies and "outbreak" reports (Finley et al., 2009).

Various Research Initiatives, University of Columbia — Currently working with several University of Columbia MPH candidates on numerous research initiatives related to benchmarking toxicity of various PFAS polymers.

Pharmaceuticals & Biotechnology

Levaquin and Ofloxacin Evaluation — Evaluated the metabolic and toxicity results (from animal and clinical data) of levaquin and ofloxacin, to determine whether and to what degree the two drugs confer different therapeutic indexes.

Consumer Products

Hip Implants—Cobalt and Chromium Exposure — Conducted and published extensive research related to the potential risks of cobalt and chromium exposure from metal-containing hip implants.

Hip Implant Analyses — Analyzed the safety and various failure modes associated with metal-on-metal and other types of hip implants.

Latex Gloves and Dermal Desensitization Lawsuit Consultation — Consulted in personal injury lawsuits involving healthcare worker use of latex gloves and associated claims of dermal sensitization.

Environmental Rubber Tire Exposure Health Risks — Prepared a report and manuscript describing the possible health risks associated with exposure to rubber tire particles in the environment.

Lead-Based Paint Exposure Health Risk Analysis — Conducted an analysis of health risks associated with exposure to lead in detailing paint that contained up to 30% lead.

Lead-Containing Paint Labels and Warnings — Assisted counsel in determining whether labels and warnings on a lead-containing paint were adequate and appropriate under Proposition 65.

Environmental Risk Assessments

Health Claims Evaluation of Household Exposure to Benzene Vapors — On behalf of a pipeline manufacturer, evaluated health claims related to household exposure to benzene vapors following an underground leak.

Benzene-Containing Groundwater Environmental Risk Assessment — Conducted more than 30 environmental risk assessments in which benzene in groundwater was a significant contributor to potential human health risks.

Dioxin and PCB Risk Assessment, TEF Scheme Refinement — Involved in research with EPA and WHO scientists to refine the current TEF scheme for dioxin and PCB risk assessment.

Dietary Compound Contribution to Overall TEQ Dose, Human Exposure Study — Conducted (and published) a human exposure study designed to assess the degree to which naturally occurring dietary compounds (“endodioxins”) contribute to the overall TEQ dose in the general population.

Soil Bioavailability Study — Conducted (and published) the first soil bioavailability study to examine all 17 2,3,7,8-substituted PCDD/Fs.

Magnesium Facility Staff Blood Dioxin-Level Study, Utah — Evaluated dioxin levels in the blood of workers employed at a magnesium facility.

Major Waterway, Dioxin- and PCB-Contaminated Sediment, Superfund Project — Served as principal-in-charge of a Superfund project involving dioxin- and PCB-contaminated sediments in a major waterway in New Jersey. This project involves the use of fingerprinting techniques for source identification, food-web modeling, and defense against natural resource damage claims. Published more than two-dozen papers regarding the proper use of exposure and risk assessment techniques for this site.

Design of First Sediment Toxicity Study — Designed the first sediment toxicity study to demonstrate that dioxin poses no risk to benthic invertebrates.

Creel-Angler Survey Development — Assisted in the development, conduct, and interpretation of a year-long creel-angler survey designed to accurately estimate the fish and crab consumption rates (and associated risks) in a PCB-contaminated waterway.

Human and Ecological Risks with Suspension of Dioxin-Contaminated Sediments — Conducted (and published) an analysis of human and ecological risks associated with suspension of dioxin-contaminated sediments as a result of dredging.

PCB-Related Risk Evaluation, Fox River, Wisconsin — Evaluated PCB-related risks to anglers consuming fish.

Human Sweat Extraction Study — Designed and conducted the first human sweat extraction study for the purpose of measuring bioavailability of chromium from soil.

NJDOH Urinalysis and House-Dust Analysis Panel Investigation — Organized and chaired an expert panel investigation into the technical merits of New Jersey Department of Health’s urinalysis and house-dust analysis of residents living near chromium-affected areas.

OSHA Lowering Permissible Chromium(VI) Exposure Limit Investigation — Served as principal-in-charge of an industry-funded investigation into OSHA’s basis for lowering the permissible exposure limit for hexavalent chromium (CrVI).

Chromium-Contaminated Soil Health Risk Assessment, New Jersey — Managed a complex assessment of the health risks associated with chromium-contaminated soil at more than 100 sites. This assessment entailed developing new sampling and analytical techniques for ambient chromium concentrations and designing and implementing several human exposure studies, as well as extensive regulatory negotiations with the New Jersey Department of Environmental Protection.

Dermatitis Elicitation Threshold for Chromium Human Patch-Testing Study — Conducted a \$2M human patch-testing study for to identify the dermatitis elicitation threshold for chromium. This study was used to demonstrate that the Agency’s initial position on dermatitis-based cleanup standards was seriously flawed.

Comments on EPA’s Proposed Inhalation “Reference Concentrations” for Chromium — Prepared and submitted comments on EPA’s proposed inhalation “reference concentrations” for chromium. As a result of the submitted comments, EPA withdrew the proposed values. Invited to serve on an EPA work group to evaluate better methods for setting these criteria.

Children’s Health Risks Associated with Contacting Arsenic from CCA-Treated Playground Equipment, Position Paper — Assisted a group of Florida physicians in drafting a position paper to the Secretary of the Department of

Health concerning children's health risks associated with contacting arsenic from CCA-treated playground equipment. Reviewed and summarized the pertinent epidemiologic and other human arsenic toxicological literature and presented to the Secretary the opinion that, based on the available literature, contact with CCA (chromated copper arsenate)-treated wood by children under the conditions of typical playground use did not pose an unacceptable health risk.

Potential Health Risks Associated with Fish Consumption Among Recreational and Subsistence Anglers, San Diego Bay — Evaluated potential health risks associated with fish consumption among recreational and subsistence anglers. Developed exposure pathways to assess cancer and noncancer risks associated with consumption of fish and shellfish. Potential chemicals of concern included PCBs, arsenic, copper, cadmium, and mercury.

Design of Sampling/Analysis Program for Combined Sewer Overflows (CSOs) — Designed a sampling and analysis program for combined sewer overflows (CSOs) in the Passaic River. The purpose of the program was to conduct a pathogen risk assessment for recreationists who contact the surface water of the river. Collected several samples during storm events, and the bacterial/viral content of the samples was interpreted to develop estimates of increased risk of various diseases.

Health Risks Associated with Creosote- and Coal-Tar-Containing Products, Expert Panel Evaluation — Served on an expert panel that evaluated the health risks associated with creosote- and coal-tar-containing products; the panel concluded that the toxicology and epidemiology data do not support a conclusion that these substances are carcinogenic in humans.

Determination of Background Levels of PAH Exposure — On behalf of a creosote manufacturer, helped determine "background" levels of PAH exposure in a community (from diet, etc.) vs. PAH exposures associated with trace creosote levels in residential soils.

Various Environmental Risk Assessments [PAH as Contributor to Potential Human Health Risk] — Conducted more than 50 environmental risk assessments (RCRA, CERCLA, RBCA, etc.) in which PAHs in soils were the primary contributor to potential human health risk; a majority of these involved derivation of site-specific soil standards using state-of-the-art exposure assessment techniques. Approximately half of these projects involved regulatory interaction.

Residential Exposure to Arsenic-Containing Industrial Slag, Risk Assessment (Principal-in-Charge) — Risk assessment involving residential exposure to arsenic-containing industrial slag.

Assessing the Disposition of Priority Pollutant Metal in Industrial Slag, Human Exposure Study — Designed and conducted a human exposure study (involving the direct ingestion of soil) for the purpose of assessing the disposition of a priority pollutant metal in an industrial slag.

Public Health Risk Evaluation of Steel Slag Usage (Principal-in-Charge) — Ongoing evaluation of the public health risk associated with numerous beneficial uses of steel slag.

Assessment of Health Risk of Post-Remedial Concentrations at Industrial Site, Puerto Rico — Demonstrated that post-remedial concentrations of mercury in soil at an industrial site did not pose a significant health risk to individuals working on the property. EPA Region II then formally closed the site with no further remediation required.

Avian Health Risk Assessment, State Superfund Site — Prepared an avian health risk assessment at a state Superfund site. The assessment involved collecting and analyzing live and dead birds for cyclodiene content.

Ecological Impact Studies, Melbourne, Australia — Managed two ecological impact studies.

RCRA Risk Assessments (Principal-in-Charge) — Four separate RCRA risk assessments involving more than 400 solid waste management units.

Toxaphene-Related Risks to Human Fish Consumption, Georgia — On behalf of a former toxaphene manufacturer, conducted an analysis of toxaphene-related risks to humans consuming fish in a waterway.

Occupational Health & Safety

Hair-Straightening Products Compliance — Evaluated compliance of various hair-straightening products with OSHA formaldehyde standards.

Material Safety Data Sheets Warning Language Development — In the mid-1980s, developed warning language for Material Safety Data Sheets in accordance with the new OSHA Hazard Communication Standard.

Assessment of Petroleum Solvent Associated to Benzene Exposure — Assessed whether the manufacturer of a petroleum solvent “had knowledge” that using the solvent might be associated with exposure to significant levels of benzene.

Litigation Support and Expert Testimony

Diacetyl and Artificial Butter Exposure Litigation — Currently serving as an expert witness in exposure assessment, industrial hygiene, and toxicology in cases involving popcorn workers’ exposure to diacetyl and artificial butter.

Rug Cleaner and RADS Symptoms Expert Report — Prepared an expert report regarding likelihood of association between use of rug cleaner and plaintiff’s alleged symptoms of reactive airway disease (RADS).

Kitchen Cabinet Formaldehyde Emission Exposure and Risk Assessment Expert — Served as an exposure and risk assessment expert in a case involving formaldehyde emissions from kitchen cabinets.

Health Harm Due to Airbag Content Exposure Deposition — Deposed in a case involving claims of health harm associated with exposure to airbag contents (azide and talc) following airbag deployment and failure.

Benzene in Coal Tar Pitch Volatiles in Roofing Tar Exposure and Risk Assessment — Served as an expert in exposure and risk assessment in a case involving exposure to benzene in coal tar pitch volatiles in roofing tar.

Benzene-Containing Degreasing Solvent Deposition — Deposed in a case involving alleged exposures to benzene in a degreasing solvent.

Property Damage/Health Harm from a Groundwater Benzene Plume, Oryx Energy — Served as expert witness for Oryx Energy in a case involving property damage/health harm from a groundwater benzene plume.

Cr(VI) in Groundwater via the Use of Simulation Studies, Hinkley, California — Assessed exposure to Cr(VI) (hexavalent chromium) in groundwater via the use of simulation studies (all subsequently published in the peer-reviewed literature) and served as a testifying expert in a case involving numerous plaintiffs in Hinkley, CA.

Atrazine Databases and Health Risk Assessment Case — Testified at a hearing regarding the adequacy of several atrazine databases for use in health risk assessment.

Asbestos Exposure in Various Products — Serving as a consultant and expert witness in a series of cases involving alleged exposure to asbestos in welding rods, joint compound, and automotive and crane brake linings, clutches, and gaskets.

Bystander Exposure to Asbestos-Containing Insulation Deposition — Deposed in a premise case involving bystander exposure to asbestos-containing insulation.

Exposure to Numerous Chlorinated Solvents (TCE, TCA, and CCl₄) in Groundwater, *Comeaux v. Conde Vista* — Deposed as an expert witness in a toxic tort case involving alleged exposure to numerous chlorinated solvents (TCE, TCA, and CCl₄) in groundwater. Reviewed the existing groundwater and soil gas data and determined, based on site-specific vapor migration modeling and an evaluation of household exposure pathways, that any

inhalation exposure to chlorinated solvents that might have occurred was insufficient to cause the plaintiff's claimed health effects.

Community Exposure to Steel-Manufacturing Facility — Served as an exposure and risk assessment expert in a case involving community exposures to particulate emissions from a steel-manufacturing facility.

Recreational Exposures to Aroclor 1254 Case — Expert witness in a case concerning alleged “recreational” exposures to Aroclor 1254 in soil at a former capacitor manufacturing site.

Residential Chromium Emissions Exposure, Toxic Tort Case, Southern California — Served as an exposure and risk assessment expert witness in a toxic tort case involving residential exposure to chromium emissions from a former plating facility.

EPA et al. v. City of Los Angeles Deposition — Deposed as an exposure and risk assessment expert. EPA alleged that uncontrolled sewage spills had affected Santa Monica Bay to such a degree that beach recreators were at great risk of developing pathogen-related diseases. Dr. Finley reviewed the monitoring data and developed a pathogen exposure and risk analysis.

Creosote and Pentachlorophenol Production at a Former Wood-Treating Site, Deposition, St. Louis — Deposed as an exposure and risk assessment expert witness in a federal case involving creosote and pentachlorophenol production at a former wood-treating site.

Community Allegations of Health Effects from Historical Exposures to Emissions from a Wood-Treating Facility Case, Louisiana — Currently serving as an exposure and risk assessment expert in a case involving community allegations of health effects from historical exposures to emissions from a wood-treating facility.

Warnings and Labels, Worker Exposure to Asbestos Cases — State-of-the-art expert in warnings and labels in cases involving worker exposure to asbestos during joint-compound use and brake servicing.

Warnings and Labels, Worker Exposure to Draw Fluid Cases — Served as a state-of-the-art expert in warnings and labels in cases involving worker exposure to “draw fluids” during automobile manufacture.

Case Deposition of Coal Ash Metals and Radionuclides Migrating into Residential Private Wells — On behalf of defendants, deposed in a case involving claims that coal ash metals (arsenic and hexavalent chromium) and radionuclides had migrated off-site from a series of impoundments into private wells of residents downgradient of the impoundments. Evaluated the on-site groundwater and off-site groundwater and tap-water data and concluded that (1) a large fraction of the metals and radionuclides in the tap water were naturally occurring and unrelated to the impoundments, and (2) the tap-water constituent levels were far too low to pose a health risk to residents using the water for consumption and other purposes. The case subsequently settled.

Case Deposition of Coal Ash Deposited into Municipal Landfill— On behalf of defendants, deposed in a case in which several thousand tons of coal ash were deposited into a municipal landfill over a period of several years. Claims included property damage and potential health harm from arsenic and other metals. There were also cross claims from other defendants that contributed to materials in the landfill.

Claim Evaluation of Health Risk Due to Wind Erosion of a Coal Ash Aggregate (AGREMAX) — On behalf of defendants, evaluated claims of health risk due to wind erosion of a coal ash aggregate (AGREMAX). The aggregate was used as daily landfill cover throughout Puerto Rico. Residents living in the same regions as the landfill locations claimed that deposition of ash-related radionuclides and metals onto their properties posed a substantial and imminent health hazard.

Groundwater Pollution / Public Policies MTBE Fate/Transport and Potential Health Risks — Numerous evaluations of MTBE fate/transport and potential health risks associated with leaking underground storage tanks.

Impacts of Arsenic in Groundwater to Soil and Fish, Exposure Assessment Study — Performed an exposure assessment study evaluating impacts of arsenic in groundwater to soil and fish. Constructed a conceptual site

model to determine the complex potential exposure conditions that may exist offsite of a manufacturing facility in Indiana under the Indiana Voluntary Remediation Program. Work for this project included conducting an inorganic fingerprinting analysis, which demonstrated that offsite arsenic concentrations were not derived from onsite sources. A background concentration study was conducted to eliminate offsite areas that did not exceed background levels, and a survey of arsenic in fish tissue from the adjacent surface-water body indicated that arsenic concentrations in the fish were consistent with background. A health risk assessment was also conducted.

Litigation Support

Residential Exposure to Groundwater and Tap Water Chlorinated Solvents Cases, Aerojet, CNH — Involved in several cases (Aerojet, CNH) in which current and historical residential exposure to chlorinated solvents in groundwater and tap water was alleged. These cases involved exposure and dose reconstruction (tap-water ingestion and inhalation and dermal exposures during showering) using measured and modeled data, and reaching conclusions concerning alternative causation.

Residential TCE Exposure Defense Counsel Support — Assisted defense counsel in litigation involving alleged residential TCE exposure in the 1950s and 1960s (*Stuart v. Lockheed*).

Pathogen Content of Tap-Water Samples Interpretation — Interpreted pathogen content of tap-water samples following plaintiff's assertion that ingestion had caused an array of autoimmune diseases.

Chlorinated Solvents Remediation

Dermal and Inhalation Exposure to Chlorinated Contaminants Panel, International Life Sciences Institute Working Group — Served as a panel member for the International Life Sciences Institute Working Group on estimation of dermal and inhalation exposure to chlorinated contaminants (TCE, TCA, perchloroethylene) in drinking water.

EPA Inhalation Toxicity Criteria Panel Review — Chaired an expert panel review of EPA's inhalation toxicity criteria for 1,2-dichloroethane and 1,1,2-trichloroethane.

Household Exposure to TCE- and Perchloroethylene-Containing Tap-Water Analysis — Conducted and published a probabilistic analysis of household exposure to TCE and perchloroethylene in tap water to demonstrate the health protectiveness of EPA's maximum contaminant levels (MCLs).

Source Emissions / Stack Testing

Chemical Weapons Incinerator Operation Exposure and Risk Assessment, U.S. Army, Tooele, Utah — Prepared a multi-pathway exposure and risk assessment for the U.S. Army chemical weapons incinerator in Tooele, Utah. The purpose of the analysis was to assess the merits of an injunction filed by a plaintiff's consortium that operating the incinerator would pose a risk to surrounding residents. Testified twice in court on behalf of the Department of Justice. Based at least in part on these findings and testimony, the judge allowed the incinerator to operate.

Dioxin Particulates and Vapors from a Combustion Source, Health Risk Assessment — Prepared a multi-pathway assessment of the health risks associated with emissions of dioxin particulates and vapors from a combustion source. The State of California had previously determined that the dioxin risks were significant, and that the client would have to warn the surrounding residential community. Used refined risk assessment techniques to demonstrate that the potential health risks were insignificant. Exposure pathways considered included ingestion of mother's milk, vegetable crops, and local meat and dairy products.

Community Exposure and Risk Assessment to Insecticide-Formulating Facility — Prepared a multi-pathway exposure and risk assessment for a state Superfund site in Illinois. The assessment demonstrated that particulate emissions from a client's insecticide-formulating facility did not pose a significant health risk to the surrounding community. Accordingly, the Illinois EPA issued a no-action alternative for the site, and no remediation was required.

PEER-REVIEWED PUBLISHED WORK

- Price SA, Maddaloni MA, **Finley BL**, Thornton SA, Unice KM. 2023. Extending regulatory biokinetic lead models towards food safety: Evaluation of consumer baby food contribution to infant blood lead levels and variability. *Foods* 12(14):2732; <https://doi.org/10.3390/foods12142732>.
- Beckett EM, Cyrs WD, Abelmann A, Monnot AD, Gaffney SH, **Finley BL**. 2019. Derivation of an occupational exposure limit for diacetyl using dose-response data from chronic animal inhalation exposure study. *J Appl Toxicol* 39(5):688–701.
- Jacobs NFB, Towle KM, **Finley BL**, Gaffney SH. 2019. An updated evaluation of potential health hazards associated with exposures to asbestos-containing drywall accessory products. *Crit Rev Toxicol* 49(5):430–444.
- Marsh GM, Ierardi AM, Benson SM, **Finley BL**. 2019. Occupational exposures to cosmetic talc and risk of mesothelioma: An updated pooled cohort and statistical power analysis with consideration of latency period. *Inhal Toxicol* 31(6):213–223.
- Marsh GM, Ierardi AM, Benson SM, **Finley BL**. 2019. Response to letters regarding “Occupational exposures to cosmetic talc and risk of mesothelioma: An updated pooled cohort and statistical power analysis with consideration of latency period. *Inhal Toxicol* 31(11–12):387–391.
- Barlow CA, Marsh GM, Benson S, **Finley BL**. 2018. The mineralogy and epidemiology of cosmetic talc. *Toxicol Appl Pharmacol* 361:173.
- Fung ES, Unice KM, Paustenbach DJ, **Finley BL**, Kovochich M. 2018. Methods for sterilizing clinically relevant wear particles isolated from metal-on-metal hip implants. *Sci Reports* 8(1):2384.
- Kovochich M, **Finley BL**, Novick R, Monnot AD, Donovan E, Unice KM, Fung ES, Fung D, Paustenbach DJ. 2018. Understanding outcomes and toxicological aspects of second-generation metal-on-metal hip implants: A state-of-the-art review. *Crit Rev Toxicol* 48(10):839–887.
- Finley BL**, Benson SM, Marsh GM. 2017. Cosmetic talc as a risk factor for pleural mesothelioma: A weight of evidence valuation of the epidemiology. *Inhal Toxicol* 29(4):179–185.
- Finley B**, Scott PK, Glynn ME, Paustenbach D, Donovan E, Thuett KA. 2017. Chromium speciation in the blood of metal-on-metal hip implant patients. *Environ Toxicol Chem* 99(1):48–64.
- Fung ES, Monnot A, Kovochich M, Unice KM, Tvermoes BE, Galbraith D, **Finley BL**, Paustenbach DJ. 2017. Characteristics of cobalt-related cardiomyopathy in metal hip implant patients: An evaluation of 15 published reports. *Cardiovasc Toxicol* 18(3):206–220.
- Kovochich M, Fung ES, Donovan E, Unice KM, Paustenbach DJ, **Finley BL**. 2017. Characterization of wear debris from metal-on-metal hip implants during normal wear versus edge-loading conditions. *J Biomed Mat Res* 106(3):986–996.
- Cowan DM, Maskrey JR, Fung ES, Woods TA, Stabryla LM, Scott PK, **Finley BL**. 2016. Best-practices approach to determination of blood alcohol concentration (BAC) at specific time points: Combination of ante-mortem alcohol pharmacokinetic modeling and post-mortem alcohol generation and transport considerations. *Regul Toxicol Pharmacol* 78:24–36.
- Pierce JS, Abelmann A, **Finley BL**. 2016. Comment on flavoring chemicals in e-cigarettes: Diacetyl, 2,-3-pentanedione, and acetoin in a sample of 51 products, including fruit-, candy-, and cocktail-flavored e-cigarettes. *Environ Health Perspect* 124(6):A100–A101.
- Pierce JS, Abelmann A, Lotter JT, Ruestow PS, Unice KM, Beckett EM, Fritz HA, Bare JL, **Finley BL**. 2016. An assessment of formaldehyde emissions from laminate flooring manufactured in China. *Regul Toxicol Pharmacol* 81:20–32.

- Pierce JS, Ruestow PS, **Finley BL**. 2016. An updated evaluation of reported no-observed adverse effect levels for chrysotile asbestos for lung cancer and mesothelioma. *Crit Rev Toxicol* 46(7):561-586.
- Tvermoes BE, Unice KM, Winans B, Kovoichich M, Christian WV, Donovan E, Fung ES, **Finley BL**, Kimber I, Paustenbach DJ. 2016. A preliminary evaluation of immune stimulation following exposure to metal particles and ions using the mouse popliteal lymph node assay. *Toxicol Appl Pharmacol* 308:77-90; doi: 10.1016/j.taap.2016.07.020.
- Winans B, Tvermoes BE, Unice KM, Kovoichich M, Fung ES, Christian WV, Donovan E, **Finley BL**, Kimber I, Paustenbach DJ. 2016. Data on the histological and immune cell response in the popliteal lymph node in mice following exposure to metal particles and ions. *Data in Brief* 9:388-397.
- Gaffney SH, Abelmann A, Pierce JS, Glynn ME, Henshaw JL, McCarthy LA, Lotter JT, Liong M, **Finley BL**. 2015. Naturally occurring diacetyl and 2,3-pentanedione concentrations associated with roasting and grinding unflavored coffee beans in a commercial setting. *Toxicol Reports* 2:1171-1181.
- Madl AK, Liong M, Kovoichich M, **Finley BL**, Paustenbach DJ, Oberdorster G. 2015. Toxicology of wear particles of cobalt-chromium alloy metal-on-metal hip implants Part I: Physicochemical properties in patient and simulator studies. *Nanomed: Nanotech Biol Med* 11(5):1201-1215.
- Madl AK, Kovoichich M, Liong M, **Finley BL**, Paustenbach DJ, Oberdorster G. 2015. Toxicology of wear particles of cobalt-chromium alloy metal-on-metal hip implants Part II: Importance of physicochemical properties and dose in animal and in vitro studies as a basis for risk assessment. *Nanomed: Nanotech Biol Med* 11(5):1285-1298.
- Pierce JS, Abelmann A, Lotter JT, Comerford C, Keeton K, **Finley BL**. 2015. Characterization of naturally occurring airborne diacetyl concentrations associated with the preparation and consumption of unflavored coffee. *Toxicol Reports* 2:1200-1208; doi: 10.1016/j.toxrep.2015.08.006.
- Ruestow PS, Duke TJ, **Finley BL**, Pierce JS. 2015. Effects of the NFL's amendments to the Free Kick rule on injuries during the 2010 and 2011 season. *J Occup Environ Hyg* 12(12):875-882.
- Tvermoes BE, Paustenbach DJ, Kerger BD, **Finley BL**, Unice KM. 2015. Review of cobalt toxicokinetics following oral dosing: Implications for health risk assessments and metal-on-metal hip implant patients. *Crit Rev Toxicol* 45(5):367-387.
- Christian WV, Oliver LD, Paustenbach DJ, Kreider ML, **Finley BL**. 2014. Toxicology-based cancer causation analysis of CoCr-containing hip implants: A quantitative assessment of genotoxicity and tumorigenicity studies. *J Appl Toxicol* 34(9):939-967.
- Finley BL**, Scott PK. 2014. Diacetyl and "popcorn lung" litigation: Assessing the evidence for general causation. *ABA Environmental Litigation and Toxic Torts Newsletter* 15(2):7-10.
- Kerger BD, Thuett KA, **Finley BL**. 2014. Evaluation of four α -diketones for toll-like receptor-4 (TLR-4) activation in a human transfected cell line. *Food Chem Toxicol* 74:117-119.
- Monnot AD, Christian WV, Paustenbach DJ, **Finley BL**. 2014. Correlation of blood Cr(III) and adverse health effects: Application of PBPK modeling to determine non-toxic blood concentrations. *Crit Rev Toxicol* 44(7):618-637.
- Paustenbach DJ, Galbraith DA, **Finley BL**. 2014. Interpreting cobalt blood concentrations in hip implant patients. *Clin Toxicol* 52(2):98-112.
- Paustenbach D, Galbraith D, **Finley B**. 2014. Letter to the editor: Authors' response to letters to the editor re: Interpreting cobalt blood concentrations in hip implant patients. *Clin Toxicol* 52(5):569-570.

- Pierce JS, Abelman A, Spicer LJ, Adams RE, **Finley BL**. 2014. Diacetyl and 2,3-pentanedione exposures associated with cigarette smoking: Implications for risk assessment of food and flavoring workers. *Crit Rev Toxicol* 44(5):420–435.
- Tvermoes BE, Unice KM, Paustenbach DJ, **Finley BL**, Otani JM, Galbraith DA. 2014. Effects and blood concentrations of cobalt after ingestion of 1 mg/d by human volunteers for 90 d1-3. *Am J Clin Nutr* 99(3):632–646.
- Unice KM, Kerger BD, Paustenbach DJ, **Finley BL**, Tvermoes BE. 2014. Refined biokinetic model for humans exposed to cobalt dietary supplements and other sources of systemic cobalt exposure. *Chem-Biol Interact* 216:53–74.
- Finley BL**, Pierce JS, Paustenbach DJ, Galbraith DA. 2013. Letter to the editor: Response to a letter to the editor by Dr. Murray M. Finkelstein regarding the article by Finley et al. *Regul Toxicol Pharmacol* 65(1):180–181.
- Finley BL**, Unice KM, Kerger BD, Otani JM, Paustenbach DJ, Galbraith DA, Tvermoes BE. 2013. 31-day study of cobalt (II) chloride ingestion in humans: Pharmacokinetics and clinical effects. *J Toxicol Environ Health A* 76:1210–1224.
- Kerger BD, Gerads R, Gurleyuk H, Thuett KA, **Finley BL**, Paustenbach DJ. 2013. Cobalt speciation assay for human serum, Part I. Method for measuring large and small molecular cobalt and protein-binding capacity using size exclusion chromatography with inductively-coupled plasma-mass spectroscopy detection. *Toxicol Environ Chem* 95(4):687–708.
- Kerger BD, Tvermoes BE, Unice KM, **Finley BL**, Paustenbach DJ, Galbraith DA. 2013. Cobalt speciation assay for human serum, Part II. Method validation in a study of human volunteers ingesting cobalt (II) chloride dietary supplement for 90 days. *Toxicol Environ Chem* 95(4):709–718.
- Paustenbach DJ, Tvermoes BE, Unice KM, **Finley BL**, Kerger BD. 2013. A review of the health hazards posed by cobalt. *Crit Rev Toxicol* 43(4):316–362.
- Tvermoes BE, **Finley BL**, Unice KM, Otani JM, Paustenbach DJ, Galbraith DA. 2013. Cobalt whole blood concentrations in healthy adult male volunteers following two-weeks of ingesting a cobalt supplement. *Food Chem Toxicol* 53:432–439.
- Fillos D, Scott LLF, Anderle De Saylor M, Grespin M, Luksemburg WJ, **Finley B**. 2012. PCB concentrations in shrimp from major import markets and the United States. *Environ Toxicol Chem* 31(5):1063–1071.
- Finley BL**, Monnot AD, Gaffney SH, Paustenbach DJ. 2012. Dose-response relationships for blood cobalt concentrations and health effects: A review of the literature and application of a biokinetic model. *J Toxicol Environ Health B*, 15(8):493–523.
- Finley BL**, Monnot AD, Paustenbach DJ, Gaffney SH. 2012. Derivation of a chronic reference dose for cobalt. *Regul Toxicol Pharmacol* 64:491–503.
- Finley BL**, Pierce JS, Paustenbach DJ, Scott LLF, Lievense L, Scott PK, Galbraith DA. 2012. Malignant pleural mesothelioma in U.S. automotive mechanics: Reported vs. expected number of cases from 1975-2007. *Regul Toxicol Pharmacol* 64(1):14–116.
- Finley BL**, Pierce JS, Phelka AD, Adams RE, Paustenbach DJ, Thuett KA, Barlow CA. 2012. Evaluation of tremolite asbestos exposures associated with the use of commercial products. *Crit Rev Toxicol* 42(2):119–146.
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BOOK CHAPTERS

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PRESENTATIONS

Chen K, Price S, **Finley B**. An evaluation of the biokinetics of bone lead levels in children following tap water exposure using the All Ages Lead Model (AALM). Abstract 4079, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Price S, Chen K, **Finley B**. Estimating infant blood levels from baby food consumption: A biokinetic model analysis. Abstract 4080, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Laurer D, Benson S, Marshall L, Wood L, Keeton K, Steigerwald D, Dobyns L, **Finley B**. Asbestos and laryngeal cancer: A fiber-type specific meta-analysis. Poster presentation at Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, 2024.

Thornton S, Marshall LP, Chen K, Chen E, Benson SM, **Finley B**, Maddaloni M. Influence of endogenous exposure on blood lead levels measured in secondary intervention studies. Poster presentation at Society of Toxicology 62nd Annual Meeting, Nashville, TN, 2023.

Ierardi AM, Lotter JT, Jacobs N, **Finley BL**, Pierce JS. Derivation of a proposed asbestiform tremolite NOAEL for lung cancer. Virtual poster Presentation at Society of Toxicology 60th Annual Meeting, Virtual, 2021.

Killius A, **Finley BL**. Contribution of demolition activities to Flint, Michigan, childhood blood lead levels in 2013-2015. Virtual poster presentation at Society of Toxicology 60th Annual Meeting, Virtual, 2021.

Mathis C, Beckett E, Bates C, Maier A, **Finley BL**. Derivation of adverse deep lung effect thresholds for α -diketone compounds. Virtual poster presentation at Society of Toxicology 60th Annual Meeting, Virtual, 2021.

Killius A, **Finley BL**. Analyzing the effect of pooled samples on interpreting the NHANES dioxin serum data. Virtual poster presentation at Society of Toxicology 59th Annual Meeting, Virtual, 2020.

Killius A, **Finley BL**. Dioxin and furan congener contributions to blood TEQ in current NHANES database. Virtual poster presentation at Society of Toxicology 59th Annual Meeting, Virtual, 2020.

Ierardi AM, Urban A, Jacobs NFB, McMenemy C, **Finley BL**, Gaffney SH. Characterization of airborne asbestos exposures from the use of dental products: A comprehensive review. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), Minneapolis, MN, 2019.

Towle KM, Riordan AS, Pierce JS, **Finley BL**, Hollins DM. Exposure to asbestos and risk of ovarian cancer: A systematic literature review and meta-analysis. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), Minneapolis, MN, 2019.

Burns AM, Benson SM, Best E, Hollins DM, **Finley BL**. An ecological epidemiology investigation of talc consumption in the US and trends in female cancer rates. Poster presentation at Society of Toxicology 57th Annual Meeting, San Antonio, TX, 2018.

Kovochich M, Fung ES, Mahoney SL, Unice KM, Fung D, Paustenbach DJ, **Finley BL**. Characterizing cytotoxic and inflammatory responses to metal-on-metal wear debris from normal versus edge-loading conditions. Poster presentation at Society of Toxicology 57th Annual Meeting, San Antonio, TX, 2018.

Kovochich M, Fung D, Unice KM, Mahoney SL, Paustenbach DJ, **Finley BL**. Understanding divergent outcomes in MoM-THA patient populations with well-fixed components: A critical appraisal of patient management protocols and revision trends (2000-2017). Poster presentation at Society of Toxicology 57th Annual Meeting, San Antonio, TX, 2018.

Shay Hynds EC, Ierardi AM, Burns AM, **Finley BL**. Derivation of a chronic oral RfD for antimony. Poster presentation at Society of Toxicology 57th Annual Meeting, San Antonio, TX, 2018.

Benson SM, Marsh GM, **Finley BL**. Cosmetic talc as a risk factor for mesothelioma: A weight-of-evidence evaluation. Abstract #1290. Poster presentation at Society of Toxicology 56th Annual Meeting, Baltimore, MD, 2017.

Finley BL, Donovan ED, Kovochich M, Paustenbach DJ, Urban AM. Perineal use of cosmetic talc as a risk factor for ovarian cancer: a weight-of-evidence evaluation. Abstract #1288. Poster presentation at Society of Toxicology 56th Annual Meeting, Baltimore, MD, 2017.

Finley BL, Glynn ME, Cyrs WD, Beckett EW, Gaffney SH, Monnot AD, Abelmann A, Parker A, Maier MA. Derivation of an occupational exposure limit for diacetyl: A preliminary analysis. Late-breaking poster presentation at Society of Toxicology 56th Annual Meeting, Baltimore, MD, 2017.

Finley BL, Scott PK, Burns AM, Marsh GM. Does PCB exposure cause non-Hodgkins lymphoma? A weight of evidence evaluation. Late-breaking poster presentation at Society of Toxicology 56th Annual Meeting, Baltimore, MD, 2017.

Fung ES, Monnot AD, Tvermoes BE, Unice KM, Kovochich M, Galbraith DA, **Finley BL**, Paustenbach DJ. Characteristics of cobalt related cardiomyopathy in metal hip implant patients. Abstract #2142. Poster presentation at Society of Toxicology 56th Annual Meeting, Baltimore, MD, 2017.

Kovochich M, Fung ES, Donovan EP, Unice KM, Paustenbach DJ, **Finley BL**. Characterization of wear debris from metal-on-metal hip implants during normal wear versus edge loading conditions. Abstract #2143. Poster presentation at Society of Toxicology 56th Annual Meeting, Baltimore, MD, 2017.

Williams BH, Monnot AD, Patton A, **Finley BL**. Proposed chronic oral reference doses for thallium. Late-breaking poster presentation at Society of Toxicology 56th Annual Meeting, Baltimore, MD, 2017.

Cyrs WD, Dussex D, Glynn M, **Finley BL**. Benchmark dose modeling for respiratory irritation from 2,3-pentanedione exposure. Podium presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2016.

Pierce JS, Abelmann A, Lotter J, Comerford CE, Keeton K, **Finley BL**. Characterization of naturally occurring airborne diacetyl concentrations associated with the preparation and consumption of unflavored coffee. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2016.

Pierce JS, Ruestow PS, **Finley BL**. An updated evaluation of reported chrysotile asbestos no observed adverse effect levels (NOAELs) for lung cancer and mesothelioma. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2016.

Benson SM, Batdorf S, Hitchcock KM, Galbraith DA, **Finley BL**. Asbestos exposure and pharyngeal and laryngeal cancer risk: A fiber-type specific meta-analysis. Abstract #2974. Poster presentation at Society of Toxicology 55th Annual Meeting, New Orleans, LA, 2016.

Burns AM, **Finley BL**. Potential tremolite exposures associated with talc-containing products. Abstract #2672. Poster presentation at Society of Toxicology 55th Annual Meeting, New Orleans, LA, 2016.

Finley BL, Glynn ME, Abelmann A, Pierce JS. Diacetyl exposure and respiratory disease: An evaluation of the current weight of evidence. Abstract #2140. Poster presentation at Society of Toxicology 55th Annual Meeting, New Orleans, LA, 2016.

Glynn ME, Adams RE, Beckett EM, Scott PK, Pierce JS, **Finley BL**. Human equivalent concentrations for diacetyl based on minimal bronchiolar respiratory effects observed in animals: A refined analysis using current toxicology data and dosimetry models. Abstract #1300. Poster presentation at Society of Toxicology 55th Annual Meeting, New Orleans, LA, 2016.

Pierce JS, Ruestow PS, **Finley BL**. An updated evaluation of reported chrysotile asbestos no observed adverse effect levels (NOAELs) for lung cancer and mesothelioma. Abstract #2139. Poster presentation at Society of Toxicology 55th Annual Meeting, New Orleans, LA, 2016.

Tvermoes BE, Unice KM, Winans B, Kovochich M, Christian WV, Donovan ED, **Finley BL**, Kimber I, Paustenbach DJ. Evaluation of immune stimulation following exposure to metal particles and ions using the mouse popliteal lymph node assay. Abstract #3896. Poster presentation at Society of Toxicology 55th Annual Meeting, New Orleans, LA, 2016.

Abelmann A, Unice KM, Gaffney SH, Urban AM, Liong M, McCarthy L, Hollins DM, Henshaw JL, **Finley BL**. Airborne concentrations of naturally occurring diacetyl associated with various coffee products. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2015.

Gaffney SH, Abelmann A, Pierce JS, Glynn ME, McCarthy L, Lotter J, Liong M, Henshaw JL, **Finley BL**. Potential exposure to naturally occurring diacetyl, 2,3-pentanedione and respirable dust from roasting and grinding coffee beans in an industrial setting. Podium presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2015.

Ruestow PS, Pierce JS, Duke TJ, Roberts LJ, **Finley BL**. Evaluation of the impact of the “Restraining Line Rule” on the incidence of total and head injuries occurring during NFL kickoffs. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2015.

Spicer LJ, Lotter CE, Comerford CE, Abelmann A, Pierce JS, **Finley BL**. Pilot study of exposures to airborne concentrations of naturally occurring diacetyl during coffee consumption. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2015.

Beckett EM, Glynn ME, Adams RE, Pierce JS, Scott PK, **Finley BL**. Refined derivation of a human equivalent concentration for hyperplasia of bronchiolar epithelium following airborne diacetyl exposure. Poster presentation at Society of Toxicology 54th Annual Meeting, San Diego, CA, 2015.

Christian WV, Oliver LD, Paustenbach DJ, Kreider ML, **Finley BL**. Toxicology based cancer causation analysis of COCR-containing hip implants: A quantitative assessment of genotoxicity and tumorigenicity studies. Poster presentation at Society of Toxicology 54th Annual Meeting, San Diego, CA, 2015.

Cowan DM, Maskrey JR, Fung E, Woods T, Stabryla L, Scott PK, **Finley BL**. Evaluation of empirically-based PBPK modeling approaches for modeling ante- and post mortem ethanol concentrations in biological matrices. Poster presentation Society of Toxicology 54th Annual Meeting, San Diego, CA, 2015.

Glynn ME, Adams RE, Beckett EM, Pierce JS, Scott PK, **Finley BL**. Derivation of a human equivalent concentration for chronic inflammation in the bronchial and bronchiolar epithelium of the lung following inhalation exposure to diacetyl. Poster presentation at Society of Toxicology 54th Annual Meeting, 2015.

Pierce JS, Abelmann A, Lotter J, Comerford C, Keeton K, **Finley BL**. Characterization of diacetyl exposures associated with the preparation and consumption of unflavored coffee. Poster presentation at Society of Toxicology 54th Annual Meeting, San Diego, CA, 2015.

Urban AM, Gaffney SH, McCarthy L, Hollins DM, Abelmann A, Unice K, Liong M, **Finley BL**, Henshaw JL. Volatile organic compounds released from spreading ground coffee during a simulated industrial task. Poster presentation at Society of Toxicology 54th Annual Meeting, San Diego, CA, 2015.

Christian WV, Oliver LD, Kreider ML, **Finley BL**. Toxicology-based cancer causation analysis of CoCr-containing hip implants: A quantitative assessment of in vitro genotoxicity studies. Poster presentation at Society for Risk Analysis Annual Meeting, 2014.

Pierce JS, Abelmann A, Spicer LJ, Adams RE, **Finley BL**. Diacetyl and 2,3-pentanedione exposures associated with cigarette smoking: Implications for risk assessment of food and flavoring workers. Presented at American Industrial Hygiene Conference & Exposition (AIHce), 2014.

Adams RE, Glynn ME, Pierce JS, **Finley BL**. Derivation of a human equivalent concentration for diacetyl for hyperplasia of the bronchiolar epithelium. Presented at Society of Toxicology 53rd Annual Meeting, 2014.

Christian WV, Oliver LD, Kreider ML, **Finley BL**. In vitro genotoxicity assays with Co and Cr(III) ions and alloy particles: Implications for cancer risks to hip implant patients. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Finley BL, Pierce JS, Neier K, Roberts LJ. Weight-of-evidence evaluation of the respiratory effects associated with diacetyl. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Fritz HA, Glynn ME, Neier KE, Pierce JS, Urban AM, Gaffney SH, **Finley BL**. Comparison of the upper respiratory tract uptake efficiencies of vapors in rats and mice. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Gaffney SH Ronk CJ, **Finley BL**, Henshaw JL, Pierce JS, McCarthy L, Lotter J, Abelmann A. Naturally-occurring airborne diacetyl concentrations resulting from roasting and grinding coffee beans in an industrial setting. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Grespin ME, Donovan ED, Ward RJ, Madl AK, **Finley BL**. Asbestos content of heavy equipment brake-wear debris and associated airborne exposure during brake work. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Kerger BD, Ronk CJ, Glynn ME, **Finley BL**, Paustenbach DJ. Age-related trends in us pleural mesothelioma and soft tissue sarcoma rates: Evidence for a longevity effect. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Liong M, Kovochich M, **Finley BL**, Paustenbach DJ, Madl AK. Nanoparticles from the wear of cobalt-chromium alloy metal-on-metal hip implants: Physicochemical and dose analysis of patient and toxicology studies. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Monnot AD, Christian WV, **Finley BL**, Paustenbach DJ. Correlation of blood Cr(III) and adverse health effects: Application of PBPK modeling to determine non-toxic blood concentrations. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Neier K, Glynn ME, Fritz H, Urban A, Gaffney SH, **Finley BL**. Quantitative evaluation of the relationship between vapor characteristics and upper respiratory tract uptake efficiencies in rodents. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Pierce JS, Abelmann A, Spicer LJ, Adams RE, **Finley BL**. Concentrations of diacetyl and 2,3-pentanedione in mainstream cigarette smoke: A comparison to workplace exposures. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Thuett KA, Kerger BD, **Finley BL**, Paustenbach DJ. Evaluation of four alpha-diketones for toll-like receptor-4 (TLR-4) activation in human embryonic kidney cells. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, 2014.

Glynn ME, Pierce JS, Williams BH, Johns LE, Adhikari R, **Finley BL**. Residential and occupational exposure to wood treating operations and bladder cancer: A meta-analysis. Poster presentation at Society for Risk Analysis Annual Meeting, 2013.

Williams BH, Pierce JS, Glynn ME, Johns LE, Adhikari R, **Finley BL**. Residential and occupational exposure to wood treating operations and risk of non-Hodgkin lymphoma: A meta-analysis. Poster presentation at Society for Risk Analysis Annual Meeting, 2013.

Monnot A, Perez AL, **Finley BL**. Establishing blood biological screening indices for cobalt exposure. Invited platform presentation at Society of Environmental Toxicology and Chemistry 34th Annual Meeting, 2013.

Johns LE, Pierce JS, Abelmann A, **Finley BL**. Residential and occupational exposure to wood treating operations as risk factors for bladder cancer. Society for Epidemiologic Research 46th Annual Meeting, 2013.

Pierce JS, Abelman A, Spicer LJ, Johns LE, Roberts LJ, Fritz HA, Glynn ME, **Finley BL**. A comparison of reported peak concentrations of diacetyl in the workplace and estimated diacetyl concentrations in mainstream cigarette smoke. Session: Indoor Environmental Quality. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2013.

Spicer LJ, Pierce JS, Glynn ME, Abelman A, Roberts LJ, Johns LE, Fritz HA, **Finley BL**. A comparison of workday-duration occupational exposures to diacetyl to estimated exposures associated with cigarette smoking. Session: IH General Practice. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2013.

Vishnevskaya L, Thuett KA, Cyrs WD, Chapman PS, Paustenbach DJ, **Finley BL**. Evolution of warnings and labels on encapsulated asbestos-containing products (1930–1990). Session: Legal, Regulatory, Guidelines, Standards. Poster presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2013.

Finley BL, Tvermoes BE, Unice KM, Otani JM, Paustenbach DJ, Galbraith DA. Cobalt whole blood concentrations in healthy adult volunteers following two-weeks of ingesting a cobalt supplement. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, 2013.

Kerger BD, Gerads R, **Finley BL**, Paustenbach DJ. Method: Measuring protein-bound and free cobalt(II) in human serum — Size exclusion liquid chromatography with ICP-MS. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, 2013.

Monnot AD, Gaffney SH, Paustenbach DJ, **Finley BL**. Dose-response relationships for blood cobalt concentrations and associated health effects. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, 2013.

Paustenbach DJ, Tvermoes BE, Otani JM, Unice KM, **Finley BL**, Galbraith DA. Cobalt blood concentrations and health effects in adult volunteers during a 90 day cobalt supplement ingestion study. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, 2013.

Thuett KA, **Finley BL**, Scott PK, Paustenbach DJ. Speciation of chromium released from metal-on-metal hip implants. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, 2013.

Tvermoes BE, **Finley BL**, Otani JM, Unice KM, Paustenbach DJ, Galbraith DA. Effects of cobalt dietary supplementation on cobalt body burden, steady-state levels and selected biochemical parameters. Presented at the Society of Toxicology 52nd Annual Meeting, San Antonio, TX, 2013.

Finley BL, Pierce JS, Abelman A, Spicer LJ, Adams RE. Diacetyl exposure from cigarette smoke: Implications for assessing diacetyl exposure-response in popcorn and flavor manufacturing workers. Presented at Society for Risk Analysis Annual Meeting, 2012.

Monnot AD, Gaffney SH, Paustenbach DJ, **Finley BL**. Derivation of a chronic oral reference dose for cobalt. Presented at Society for Risk Analysis Annual Meeting, 2012.

Roberts LJ, Pierce JS, Johns LE, Lievens L, **Finley BL**. Weight of evidence evaluation of diacetyl dose response relationship in popcorn and flavoring worker studies. Presented at Society for Risk Analysis Annual Meeting, 2012.

Tvermoes BE, Otani J, Unice K, **Finley B**, Paustenbach DJ, Galbraith D. Investigation of cobalt steady-state levels in five healthy adult volunteers taking 14-days of a cobalt supplement. Presented at Society for Risk Analysis Annual Meeting, 2012.

Abelman A, Pierce JS, Spicer LJ, Adams RE, **Finley BL**. Exposure to diacetyl vapors associated with secondhand cigarette smoke. Presented at International Society of Exposure Science Annual Meeting, 2012.

Pierce JS, Abelman A, Spicer LJ, Adams RE, **Finley BL**. Diacetyl exposure from active cigarette smoking: implications for characterizing health risks in popcorn and flavor manufacturing workers. Presented at International Society of Exposure Science Annual Meeting, 2012.

Johns LE, Pierce JS, Roberts LJ, Lievens LJ, **Finley BL**. Assessment of the exposure-response relationship between diacetyl and respiratory health outcomes among popcorn and flavor manufacturing workers. Presented at Society for Epidemiologic Research 45th Annual Meeting, 2012.

Pierce JS, Spicer LJ, Abelman A, Adams RE, Roberts L, Johns L, Hollins DM, **Finley BL**. Characterization of airborne diacetyl concentrations associated with consuming different types of wine. Presented at Institute of Food Technologists Annual Meeting & Food Exposition, 2012.

Pierce JS, Abelman A, Spicer LJ, Adams RE, **Finley BL**, Gaffney SH. Characterization of formaldehyde exposure resulting from the use of four professional hair straightening products. Presented at American Industrial Hygiene Conference & Exposition (AIHce), 2012.

Spicer LJ, Pierce JS, Abelman A, Adams RE, **Finley BL**, Gaffney SH. Analysis of time weighted average concentrations of formaldehyde during keratin hair smoothing treatments. Presented at American Industrial Hygiene Conference & Exposition (AIHce), 2012.

Kreider ML, Panko JM, **Finley BL**. Effects of subacute inhalation exposure to tire and road wear particles in rats. Presented at Health Effects Institute Annual Conference, 2012.

Adams R, **Finley BL**, Pierce JS, Phelka AD, Paustenbach DJ, Thuett K, Barlow C. Derivation of LOAEL and NOAEL for tremolite asbestos. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, 2012.

Knutsen JS, Kerger BD, **Finley BL**, Paustenbach DJ. Human PBPK modeling of benzene inhalation based Chinese worker urinary metabolite data: Comparison of human and mouse metabolism). Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, 2012.

Phelka A, **Finley BL**, Pierce J, Adams R, Paustenbach DJ, Thuett K, Barlow C. Tremolite asbestos exposures associated with the use of commercial products. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, 2012.

Finley BL, Gaffney S, Abelman A, Pierce JS. Evaluation of pentachlorophenol and PCDD/Fs exposure as risk factors for multiple myeloma. Presented at International Symposium on Halogenated Persistent Organic Pollutants — Dioxin 2011, 2011.

Hollins D, Galbraith D, **Finley B**, Pierce J. Occupational exposure to artificial butter flavorings: A state-of-the-art analysis. Presentation at American Industrial Hygiene Conference & Exposition (AIHce), 2011.

Kreider M, Panko J, McDonald J, McAtee B, **Finley BL**, Seagrave J. Effects of intratracheal instillation of tire and road wear particles (TRWP) and tread particles (TP) on inflammation and cytotoxicity in rat lung: A comparative toxicity study. Presented at Society of Toxicology Annual Meeting, Washington, D.C., 2011.

Finley BL, Scott LLF, Galbraith DA. Pleural mesothelioma in U.S. auto mechanics: Expected vs. reported cases from 1975-2007. Presented at Society for Risk Analysis Conference, 2010.

Hollins DM, Galbraith DA, **Finley BL**. Occupational exposure to diacetyl and potential health effects: A weight of evidence analysis. Poster presentation at Society for Risk Analysis Conference, 2010.

Phelka AD, **Finley BL**. Potential health hazards associated with exposures to asbestos-containing drywall accessory products: A state-of-the-science assessment. Presented at Society for Risk Analysis Conference, 2010.

Shay E, Thuett K, **Finley BL**. Atrazine in drinking water: Comparison of measured and estimated peak concentration vs. acute health benchmarks. Poster presentation at Society for Risk Analysis Conference, 2010.

Marwood C, McAtee BL, Kreider ML, Ogle R, **Finley BL**, Panko JM. Identification of toxic constituents in tire and road wear particle extracts. Poster presentation at Society of Environmental Toxicology and Chemistry Conference, 2010.

Marwood C, McAtee BL, Kreider ML, **Finley BL**, Panko JM. Chronic toxicity of tire/road wear particles in sediment to aquatic organisms). Poster presentation at Society of Environmental Toxicology and Chemistry Conference, 2010.

Fillos DJ, Luksemburg WJ, Anderle de Saylor M, Scott LLF, **Finley BL**. Measurements of PCDD and PCDF concentrations in wild-caught and farm-raised shrimp from the U.S. retail market. Poster presentation at 30th International Symposium on Halogenated Persistent Organic Pollutants, 2010.

Fillos DJ, Luksemburg WJ, **Finley BL**. TEQ calculations and daily intake estimates associated with PCBs in shrimp from the U.S. retail market. Poster presentation at 30th International Symposium on Halogenated Persistent Organic Pollutants, 2010.

Scott PK, Fillos D, Luksemburg WJ, **Finley BL**. Principal components analysis (PCA) of PCB concentrations in shrimp from the U.S. retail market. Poster presentation at 30th International Symposium on Halogenated Persistent Organic Pollutants, 2010.

Donovan B, Donovan EP, Gaffney SH, Scott P, **Finley BL**. Human health risks associated with fish and shellfish consumption in an industrial leasehold in a southern California bay. Poster presentation at Society of Toxicology 49th Annual Meeting, Salt Lake City, UT, 2010.

Scott LF, Galbraith DA, **Finley BL**. Mesothelioma in U.S. automotive mechanics: Reported vs expected number of cases in 1975-2007. Poster presentation at Society of Toxicology 49th Annual Meeting, Salt Lake City, UT, 2010.

McAtee BL, Kreider ML, Panko JM, Sweet LI, **Finley BL**. Biological leaching of metals from respirable tire wear particles. Presentation at European Societies of Toxicology 46th Congress, 2009.

Panko JM, McAtee BL, Kreider ML, Gustafsson M, Blomqvist G, Gudmundsson A, Sweet LI, **Finley BL**. Physico-chemical analysis of airborne tire wear particles. Presentation at European Societies of Toxicology 46th Congress, 2009.

Finley BL. The use of risk assessment principles in welding rod litigation. Presenter at Global Welding Practices: Manganese Exposure Assessment, Control, and Litigation (RT 241) at American Industrial Hygiene Conference & Exposition (AIHce), 2009.

Scott LF, Keenan J, **Finley BL**, Gaffney SH. Using blood measurements to assess exposure to dioxin/furans: Potential influence of elevated detection limits. Presented at Society of Toxicology 48th Annual Meeting, Baltimore, MD, 2009.

Williams C, Shay EC, Unice KM, Scott PK, **Finley BL**. Evaluation of fluoropolymer toxicity from outbreak reports and animal studies. Poster presentation at Society of Toxicology 48th Annual Meeting, Baltimore, MD, 2009.

Donovan EP, Donovan BL, Gaffney SH, Scott PK, **Finley BL**. Human health risks associated with fish and shellfish consumption in an industrialized leasehold in a southern California bay. Presented at International Society for Environmental Epidemiology & International Exposure Analysis Joint Annual Conference, 2008.

Finley BL. Site-specific dermal risk assessment for industrial workers. Poster presentation at the 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs) – Dioxin Conference, 2008.

Finley BL, Madl AK, Murbach DM, Fehling KA, Paustenbach DJ, Jiang GC. A study of airborne chrysotile concentrations associated with handling, unpacking and repacking boxes of automobile clutch discs (circa 1950-1980). Presented at Society of Toxicology 47th Annual Meeting, Seattle, WA, 2008.

Haws LC, DeVito MJ, Walker JN, Birnbaum LS, Unice KM, Scott P, Harris MA, Tachovsky JA, Farland WH, **Finley B**, Staskal DF. Development of weighted distributions of REPs for dioxin-like compounds: Implications for risk assessment. Poster presentation at Society of Toxicology 47th Annual Meeting, Seattle, WA, 2008.

Jiang GC, Madl AK, Paustenbach DJ, **Finley BL**. Detailed asbestos fiber size and morphology analyses of automobile clutch discs, brake pads and brake shoes. Presented at Society of Toxicology 47th Annual Meeting, Seattle, WA, 2008.

Phelka AD, Clarke JA, Paustenbach DJ, **Finley BL**. The importance of asbestos fiber length as a predictor of potency for asbestos-related disease. Presented at Society of Toxicology 47th Annual Meeting, Seattle, WA, 2008.

Scott L, Haws L, Staskal DF, Harris M, **Finley BL**. Evaluation of dioxin-like compounds in workers from a primary magnesium production facility relative to levels observed in the general US population. Presented at Society of Toxicology 47th Annual Meeting, Seattle, WA, 2008.

Staskal DE, Donovan EP, Unice KM, Haws LC, Roberts J, **Finley BL**, Harris M. Human health risks associated with exposure to pathogens in waters and sediments of the lower Passaic River. Presented at Society of Toxicology 47th Annual Meeting, Seattle, WA, 2008.

Jiang GC-T, Madl AK, Murbach DM, Fehling KA, **Finley BL**. Exposure to chrysotile asbestos associated with handling, unpacking, and repacking boxes of automobile clutch discs. Presented at International Society for Exposure Analysis 17th Annual Conference, 2007.

Finley BL, Morinello EJ, Fehling KA. Relative oral bioavailability of polychlorinated dibenzo-p-dioxins / dibenzofurans in soil. Presented at Dioxin 2007, 2007.

Haws LC, Scott LLF, Staskal DF, Harris MS, **Finley BL**. Dioxin-like compounds in workers at a primary magnesium production facility. Presented at Dioxin 2008, 2007.

Finley BL, Pierce J. Characterization of risks to welders due to exposures to asbestos in welding rod flux. Presented at Society of Toxicology 46th Annual Meeting, Charlotte, NC, 2007.

Haws L, Walker N, DeVito M, Birnbaum L, Unice K, Scott P, Harris M, Farland W, **Finley BL**, Staskal D. Development of weighted distributions of reps for dioxin-like compounds (DLCs). Presented at Society of Toxicology 46th Annual Meeting, Charlotte, NC, 2007.

Morinello EJ, Warmerdam JM, **Finley BL**. Absolute oral bioavailability of polychlorinated dibenzo-p-dioxins/dibenzofurans in soil. Presented at Society of Toxicology 46th Annual Meeting, Charlotte, NC, 2007.

Moy P, Pierce J, **Finley BL**. Assessment of health effects resulting from possible emissions from a pesticide formulation facility. Presented at Society of Toxicology 46th Annual Meeting, Charlotte, NC, 2007.

Pierce J, Warmerdam J, **Finley BL**. Estimating health risks in workers aboard crude oil tankers due to exposure to n-hexane, toluene and benzene. Presented at Society of Toxicology 46th Annual Meeting, Charlotte, NC, 2007.

Roberts J, Galbraith DA, **Finley BL**. A comprehensive review of occupational exposure to diacetyl in microwave popcorn facilities. Presented at Society of Toxicology 46th Annual Meeting, Charlotte, NC, 2007.

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

Warmerdam JM, Morinello EJ, **Finley BL**. Relative oral bioavailability of polychlorinated dibenzo-p-dioxins/dibenzofurans in soil. Presented at Society of Toxicology 46th Annual Meeting, Charlotte, NC, 2007.

Paustenbach DJ, Kuykendall JR, **Finley BL**, Warmerdam JM, Moy PP. Factors affecting bioaccessibility and bioavailability of hexavalent chromium and dioxin contaminants in soil, and their relevance to risk assessment. Presented at International Conference on Environmental Epidemiology and Exposure, 2006.

Haws LC, DeVito MJ, Birnbaum LS, Walker NJ, Scott PK, Unice KM, Harris MA, Farland WH, **Finley BL**, Staskal DF. An alternative method for establishing TEFs for dioxin-like compounds. Part 2. Development of an approach to quantitatively weight the underlying potency data. Presented at 26th International Symposium on Halogenated Persistent Organic Pollutants-Dioxin, 2006.

Scott PK, Haws LC, Staskal DF, Birnbaum LS, Walker NJ, DeVito MJ, Harris MA, Farland WH, **Finley BL**, Unice KM. An alternative method for establishing TEFs for dioxin-like compounds. Part 1. Evaluation of decision analysis methods for use in weighting relative potency data. Presented at 26th International Symposium on Halogenated Persistent Organic Pollutants-Dioxin, 2006.

Staskal DF, Unice K, Walker NJ, DeVito MJ, Birnbaum LS, Scott PK, Harris MA, Farland WH, **Finley BL**, Haws LC. Part 3. An alternative method for establishing TEFs for dioxin-like compounds. Development of weighted distributions of REPs for PCB126 and 2,3,4,7,8-PeCDF. Presented at International Symposium on Halogenated Persistent Organic Pollutants and POPs-Dioxin, 2006.

Hong S, Proctor D, **Finley BL**. Assessment of L.A. sewage spills on Santa Monica Bay beaches. Presented at Society of Toxicology 45th Annual Meeting, San Diego, CA, 2006.

Mellinger KN, Kuykendall JR, Miller KL, Cain AV, **Finley BL**, Paustenbach DJ. DNA-Protein crosslinks as a potential biomonitor of hexavalent chromium exposure in rainbow trout. Presented at Society of Toxicology 45th Annual Meeting, San Diego, CA, 2006.

Perry MW, Kuykendall JR, Miller KL, Mellinger KN, Cain AV, **Finley BL**, Paustenbach DJ. Persistence of DNA-Protein crosslinks in erythrocytes of channel catfish after acute hexavalent chromium exposure. Presented at Society of Toxicology 45th Annual Meeting, San Diego, CA, 2006.

Pierce JS, **Finley BL**. Characterization of chrysotile asbestos exposures for garage mechanics. Presented at Society of Toxicology 45th Annual Meeting, San Diego, CA, 2006.

Scott P, Harris MA, **Finley BL**, Ferriby L, Budinsky R. Development of a relative estimate of potency distribution for 2,3,7,8-TCDF: A proposed approach. Presented at 25th International Symposium on Halogenated Environmental Organic Pollutants and POPs-Dioxin, 2005.

Finley BL, Mowat F, Richter R, Brorby G, Craven V, Sheehan P. Evaluation of proposed threshold doses for chrysotile exposure and respiratory diseases. Presented at Society of Toxicology 44th Annual Meeting, New Orleans, LA, 2005.

Harris MA, **Finley BL**. The TCDD TEQ in human blood from dietary vs. anthropogenic dioxins: A dietary study. Presented at Society of Toxicology 44th Annual Meeting, New Orleans, LA, 2005.

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