



# Brent L Finley, PhD

## Current Position

Managing Principal  
Health Scientist

## Discipline Areas

- > Applied Research
- > Litigation Support
- > Regulatory Negotiations
- > Risk-based Site Investigations

## Years' Experience

30

## Joined Cardno

2005

## Education

- > PhD, Toxicology/  
Pharmacology,  
Washington State  
University, 1986
- > BA, Biological  
Sciences, Cornell  
University, 1982

## Summary of Experience

Dr. Brent Finley has over 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, 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 over 160 peer-reviewed papers on the topic of health risk assessment.

### Specific Experience with Perfluoroalkyl Substances (PFAS)

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

Currently working with several University of Columbia students MPH candidates on numerous research initiatives related to benchmarking toxicity of various PFAS polymers.

### Specific Experience with Pharmaceuticals, Medical Devices and Consumer Products

Conducted and published extensive research related to the potential risks of cobalt and chromium exposure from metal-containing hip implants.

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

Awarded Best Published Paper Regarding Medical Devices at Society of Toxicology Annual Meeting in 2014 and 2016 for papers related to metal-on-metal hip implant toxicology.

Currently serving as an expert witness in exposure assessment, industrial hygiene, and toxicology in cases involving popcorn worker exposure to diacetyl and artificial butter.

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 a different therapeutic index.

Consulted in personal injury lawsuits involving healthcare worker use of latex gloves and associated claims of dermal sensitization.

Prepared an expert report regarding likelihood of association between use of rug cleaner and plaintiff's alleged symptoms of RADS

Prepared a report and manuscript describing the possible health risks associated with exposure to rubber tire particles in the environment

Served as an expert exposure and risk assessment expert in a case involving formaldehyde emissions from kitchen cabinets.

Deposed in a case involving claims of health harm associated with exposure to airbag contents (azide and talc) following airbag deployment and failure.

Conducted an analysis of health risks associated with exposure to lead in detailing paint that contained up to 30% lead.

#### Specific Experience with Benzene

Served as an expert in exposure and risk assessment in a case involving exposure to benzene in coal tar pitch volatiles in roofing tar

On behalf of a pipeline manufacturer, evaluated health claims related to household exposure to benzene vapors following an underground leak

Deposed in a case involving alleged exposures to benzene in a degreasing solvent

Conducted over 30 environmental risk assessments in which benzene in groundwater was a significant contributor to potential human health risks

Served as expert witness for Oryx Energy in a case involving property damage/health harm from a groundwater benzene plume

#### Specific Experience with Groundwater Risk Assessment

Numerous evaluations of MTBE fate/transport and potential health risks associated with leaking underground storage tanks.

Involved in several cases (Aerojet, CNH) in which current and historical residential exposure to chlorinated solvents in groundwater and tap water is alleged. These cases involve exposure and dose reconstruction (tap water ingestion and inhalation and dermal exposures during showering) using measured and modeled data, and conclusions concerning alternative causation.

Assessed exposure to Cr(VI) 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

Testified at a hearing regarding the adequacy of several atrazine databases for use in health risk assessment.

#### Specific Experience with Asbestos

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.

Deposed in a premise case involving bystander exposure to asbestos-containing insulation.

Published eleven papers in the peer-reviewed literature pertaining to asbestos exposure, warnings, and health risks from a state-of-the art perspective.

#### Specific Experience with Chlorinated VOCs

Deposed as an expert witness in a toxic tort case involving alleged exposure to numerous chlorinated solvents (TCE, TCA and CCl<sub>4</sub>) in groundwater (Comeaux v. Conde Vista). Dr. Finley 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 plaintiffs claimed health effects.

Assisted defense counsel in litigation involving alleged residential TCE exposure in the 1950s and 1960s (Stuart v. Lockheed).

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.

Chaired an expert panel review of EPA's inhalation toxicity criteria for 1,2-dichloroethane and 1,1,2-trichloroethane.

Conducted and published a probabilistic analysis of household exposure to TCE and perchloroethylene in tap water to demonstrate the health protectiveness of the EPA's MCLs.

#### Specific Experience with Stack Emissions

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. The judge's decision to permit the incinerator to operate was based in part on Dr. Finley's findings and testimony.

Served as an expert exposure and risk assessment expert in a case involving community exposures to particulate emissions from a steel-manufacturing facility.

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.

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.

#### Specific Experience with Dioxins and PCBs

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

Involved in research with EPA and WHO scientists to refine the current TEF scheme for dioxin and PCB risk assessment.

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.

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

Evaluated dioxin levels in the blood of workers employed at magnesium facility in Utah.

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. Dr. Finley has published over 25 papers regarding the proper use of exposure and risk assessment techniques for this site.

Designed the first sediment toxicity study conducted to demonstrate that dioxin poses no risk to benthic invertebrates.

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.

Conducted (and published) an analysis of human and ecological risks associated with suspension of dioxin-contaminated sediments as a result of dredging.

Invited to speak at an EPA external peer-review workshop for the guidance document “PCBs: Cancer Dose Response Assessment and Application to Environmental Mixtures.”

Evaluated PCB-related risks to anglers consuming fish from the Fox River, Wisconsin.

#### Specific Experience with Chromium

Designed and conducted the first human sweat extraction study for the purposes of measuring bioavailability of chromium from soil.

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-impacted areas.

Served as principal-in-charge of an industry-funded investigation into OSHA's basis for lowering the permissible exposure limit for chromium (VI).

Served as an expert exposure and risk assessment witness in a toxic tort case involving residential exposure to chromium emissions from a former plating facility in Southern California.

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

Conducted a \$2M human patch-testing study for the purposes of identifying 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.

Invited to speak at an EPA Workgroup session on chromium reference doses regarding proposed methods for setting a chromium (III) reference dose.

Prepared and submitted comments to the 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.

#### Specific Experience with Arsenic

Performed an exposure assessment study evaluating impacts of arsenic in groundwater to soil and fish. A conceptual site model was constructed 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.

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.

Evaluated potential health risks associated with fish consumption among recreational and subsistence anglers in the San Diego Bay. Exposure pathways were developed to assess cancer and non-cancer risks associated with consumption of fish and shellfish. Potential chemicals of concern included PCBs, arsenic, copper, cadmium, and mercury.

### Specific Experience with Pathogens

Designed a sampling analysis program for combined sewer overflows (CSOs) in the Passaic River. The purpose of the program is to conduct a pathogen risk assessment for recreationists who come in contact with the surface water of the River. Several samples have been collected during storm events and the bacterial/viral content of the samples is currently being interpreted to develop estimates of increased risk of various diseases.

Interpreted pathogen content of tap water samples following plaintiff's assertion that ingestion had caused an array of autoimmune diseases.

Deposed as an exposure and risk assessment expert in EPA et al v. City of Los Angeles. The EPA alleged that uncontrolled sewage spills had impacted 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.

### Specific Experience with Creosote, PAHs, Coal Tar and Wood-treating Sites

Deposed as an expert exposure and risk assessment witness in a federal case involving creosote and pentachlorophenol production at a former wood-treating site in St. Louis.

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 in Louisiana.

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.

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.

Conducted over 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.

### Specific Experience with Warnings, Labels and State-of-the-Art Analyses

Evaluated compliance of various hair straightening products with OSHA formaldehyde standards.

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

State-of-the-art expert in warnings and labels in cases involving worker exposure to asbestos during joint compound use and brake servicing.

Served as a state-of-the-art expert in warnings and labels in cases involving worker exposure to “draw fluids” during automobile manufacture.

Assessed whether the manufacture of a petroleum solvent “had knowledge” that using the solvent might be associated with exposure to significant levels of benzene.

Assisted counsel in determining whether labels and warnings on a lead-containing paint were adequate and appropriate under Proposition 65.

#### Specific Experience with Coal Ash Metals and Radionuclides

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. I evaluated the on-site groundwater and off-site groundwater and tapwater data and concluded that 1) a large fraction of the metals and radionuclides in the tapwater were naturally occurring and unrelated to the impoundments, and 2) the tapwater 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.

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 include property damage and potential health harm from arsenic and other metals. There are also cross claims from other defendants that contributed to materials in the landfill. This case is still ongoing and is planned for trial in Fall 2019.

On behalf of defendants, currently evaluating claims of health risk due to wind erosion of a coal ash aggregate (AGREMAX) this is used as daily landfill cover throughout Puerto Rico. Residents living in the same regions as the landfill locations claim that deposition of ash-related radionuclides and metals onto their properties poses a substantial and imminent health hazard. I am expected to testify if/when these claims go to trial.

#### Specific Experience with Industrial Slags

Served as principal-in-charge of a risk assessment involving residential exposure to arsenic-containing industrial slag.

Designed and conducted a human exposure study (involving the direct ingestion of soil) for the purposes of assessing the disposition of a priority pollutant metal in an industrial slag.

Served as principal-in-charge of an ongoing evaluation of the public health risk associated with numerous beneficial uses of steel slag.

#### Other Projects

Demonstrated that post-remedial concentrations of mercury in soil at an industrial site in Puerto Rico 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.

Prepared an avian health risk assessment at a state Superfund site. The assessment involved collecting and analyzing live and dead birds for cyclodiene content.



Managed two ecological impact studies in Melbourne, Australia.

Served as principal-in-charge of four separate RCRA risk assessments involving more than 400 solid waste management units.

On behalf of a former toxaphene manufacturer, conducted an analysis of toxaphene-related risks to humans consuming fish in a waterway in Georgia.

## Certifications

> Diplomate, American Board of Toxicology (1991)

## Professional Honors/Awards

- > Awarded 2016 Best Published Paper for “*A preliminary evaluation of immune stimulation following exposure to metal particles and ions using the mouse popliteal lymph node assay*”, (Tox Appl Pharm. 308:77-90). Medical Device and Combination Product Specialty Section – Society of Toxicology Annual Meeting, Baltimore, MD, March 2017.
- > American Industrial Hygiene Conference & Expo (AIHce)
  - > “Best of Session” Poster Award. Session 403. 2016 - *Characterization of Naturally Occurring Airborne Diacetyl Concentrations Associated with the Preparation and Consumption of Unflavored Coffee*
- > American Industrial Hygiene Conference & Expo (AIHce)
  - > “Best of Session” Poster Award. Session 403. 2015 - *Pilot Study of Exposures to Airborne Concentrations of Naturally Occurring Diacetyl During Coffee Consumption.*
- > Best Published Paper Regarding Medical Devices. 2014 - *Toxicology-based cancer causation analysis of CoCr-containing hip implants: a quantitative assessment of genotoxicity and tumorigenicity studies.* Medical Device and Combination Product Specialty Section – Society of Toxicology Annual Meeting, San Diego, CA, March 2015.
- > American Industrial Hygiene Conference & Expo (AIHce)
  - > “Best of Session” Poster Award. Session 403. 2014 - *Diacetyl and 2,3-Pentanedione Exposures Associated with Cigarette Smoking: Implications for Risk Assessment of Food and Flavoring Workers.*
- > American Industrial Hygiene Conference & Expo (AIHce)
  - > “Best of Session” Poster Award. Session 401. 2013 - *A Comparison of Reported Peak Concentrations of Diacetyl in the Workplace and Estimated Diacetyl Concentrations in Mainstream Cigarette Smoke.*
- > American Industrial Hygiene Conference & Expo (AIHce)
  - > “Best of Session” Poster Award. Session 403. 2013 – *A Comparison of Workday-Duration Occupational Exposures to Diacetyl to Estimated Exposures Associated with Cigarette Smoking*
- > American Industrial Hygiene Association’s Exposure Assessment Strategies
  - > “Best of Session” Poster Award, 2012 - *Analysis of Time-Weighted Average Concentrations of Formaldehyde During Keratin Hair Smoothing Treatments*



- > American Industrial Hygiene Association's Indoor Environmental Quality (IEQ) Committee
  - > "Best IEQ Paper Award", 2011 - *Characterization of Formaldehyde Exposure Resulting from the Use of Four Professional Hair Straightening Products*
- > Recipient of Society of Toxicology's "Outstanding Published Paper Award", 1995
- > Recipient of Society of Toxicology's "Graduate Student Best Paper" Award, 3rd place, 1985
- > Recipient of Pharmaceutical Manufacturer's Association Research Grant, 1982

## Publications

### Peer-Reviewed Publications

- > Marsh, G.M., A.M. Ierardi, S.M. Benson, and B.L. Finley. 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 Tox*. Advance online publication, Dec. 18, 2019. doi: 10.1080/08958378.2019.1702744.
- > Jacobs, N.F.B., K.M. Towle, B.L. Finley, and S.H. Gaffney. 2019. An updated evaluation of potential health hazards associated with exposures to asbestos-containing drywall accessory products. *Crit Rev Tox*. Advance online publication Aug. 5, 2019. doi: 10.1080/10408444.2019.1639612.
- > Marsh, G.M., A.M. Ierardi, S.M. Benson, and B.L. Finley. 2019. Occupational exposures to cosmetic talc and risk of mesothelioma: An updated pooled cohort and statistical power analysis with consideration of latency period. *Inhal Tox*. Advance online publication August 5, 2019. doi: 10.1080/08958378.2019.1645768.
- > Beckett, E.M., W.D. Cyrs, A. Abelmann, A.D. Monnot, S.H. Gaffney, and B.L. Finley. 2019. Derivation of an occupational exposure limit for diacetyl using dose-response data from chronic animal inhalation exposure study. *J Appl Tox*. 39(5):688-701
- > Kovochich, M., B.L. Finley, R. Novick, A.D. Monnot, E. Donovan, K.M. Unice, E.S. Fung, D. Fung, and D.J. Paustenbach. 2019. Understanding outcomes and toxicological aspects of second generation metal-on-metal hip implants: A state-of-the-art review. *Crit Rev Toxicol*. Advance online publication, March 26, 2019. doi: 10.1080/10408444.2018.1563048.
- > Barlow, C.A., G.M. Marsh, S. Benson, and B.L. Finley. 2018. The mineralogy and epidemiology of cosmetic talc. *Tox Appl Pharm*. Advance online publication, May 30, 2018. doi: 10.1016/j.taap.2018.05.036.
- > Finley, B.L., S.M. Benson, and G.M. Marsh. 2018. Response to letters regarding "Cosmetic talc as a risk factor for pleural mesothelioma: A weight of evidence evaluation of the epidemiology." *Inhal Tox*. Advance online publication, Feb. 21, 2018. doi: 10.1080/08958378.2018.143850.

- > Fung, E.S., K.M. Unice, D.J. Paustenbach, B.L. Finley, and M. Kovochich. 2018. Methods for sterilizing clinically relevant wear particles isolated from metal-on-metal hip implants. *Sci Rep.* 8(1):2384.
- > Fung, E.S., A. Monnot, M. Kovochich, K.M. Unice, B.E. Tvermoes, D. Galbraith, B.L. Finley, and D.J. Paustenbach. 2017. Characteristics of cobalt-related cardiomyopathy in metal hip implant patients: An evaluation of 15 published reports. *Cardiovasc Tox.* Advance online publication, Nov. 29, 2017. doi: 10.1007/s12012-017-9433-z.
- > Finley, B.L., S.M. Benson, and G.M. Marsh. 2017. Cosmetic talc as a risk factor for pleural mesothelioma: A weight of evidence evaluation of the epidemiology. *Inhal Tox.* 29(4):179-185.
- > Kovochich, M., E.S. Fung, E. Donovan, K.M. Unice, D.J. Paustenbach, and B.L. Finley. 2017. Characterization of wear debris from metal-on-metal hip implants during normal wear versus edge-loading conditions. *J Biomed Mat Res B.* Advanced online publication, May 8, 2017. doi: 10.1002/jbm.b.33902
- > Finley, B., P.K. Scott, M.E. Glynn, D. Paustenbach, E. Donovan, and K.A. Thuett. 2017. Chromium speciation in the blood of metal-on-metal hip implant patients. *Tox Environ Chem.* 99(1):48-64.
- > Winans, B., B.E. Tvermoes, K.M. Unice, M. Kovochich, E.S. Fung, W.V. Christian, E. Donovan, B.L. Finley, I. Kimber, and D.J. Paustenbach. 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.
- > Tvermoes, B.E., K.M. Unice, B. Winans, M. Kovochich, W.V. Christian, E. Donovan, E.S. Fung, B.L. Finley, I. Kimber, and D.J. Paustenbach. 2016. A preliminary evaluation of immune stimulation following exposure to metal particles and ions using the mouse popliteal lymph node assay. *Tox Appl Pharm.* Advance online publication, July 28, 2016. doi: 10.1016/j.taap.2016.07.020.
- > Pierce, J.S., A. Abelmann, J.T. Lotter, P.S. Ruestow, K.M. Unice, E.M. Beckett, H.A. Fritz, J.L. Bare, and B.L. Finley. 2016. An assessment of formaldehyde emissions from laminate flooring manufactured in China. *Reg Tox Pharm.* Advance online publication, July 1, 2016. doi: 10.106/j.yrtph.2016.06.022.
- > Pierce, J.S., A. Abelmann, and B.L. Finley. 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.
- > Cowan, D.M., J.R. Maskrey, E.S. Fung, T.A. Woods, L.M. Stabryla, P.K. Scott, and B.L. Finley. 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. *Reg Tox Pharmacol.* 78:24-36.
- > Pierce, J.S., P.S. Ruestow, and B.L. Finley. 2016. An updated evaluation of reported no-observed adverse effect levels for chrysotile asbestos for lung cancer and

mesothelioma. Crit Rev Toxicol. Advance online publication, March 30, 2016. doi: 10.3109/10408444.2016.1150960.

- > Ruestow, P.S., T.J. Duke, B.L. Finley, and J.S. Pierce. 2015. Effects of the NFL's amendments to the Free Kick rule on injuries during the 2010 and 2011 season. J Occup Env Hyg. 12(12):875-82.
- > Gaffney, S.H., A. Abelman, J.S. Pierce, M.E. Glynn, J.L. Henshaw, L.A. McCarthy, J.T. Lotter, M. Liang, and B.L. Finley. 2015. Naturally occurring diacetyl and 2,3-pentanedione concentrations associated with roasting and grinding unflavored coffee beans in a commercial setting. Tox Reports. 2:1171-1181.
- > Pierce, J.S. A. Abelman, J.T. Lotter, C. Comerford, K. Keeton, and B.L. Finley. 2015. Characterization of naturally occurring airborne diacetyl concentrations associated with the preparation and consumption of unflavored coffee. Advance online publication, August 18, 2015. doi: 10.1016/j.toxrep.2015.08.006
- > Madl, A.K., M. Liang, M. Kovichich, B.L. Finley, D.J. Paustenbach, and G. Oberdorster. 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, A.K., M. Kovichich, M. Liang, B.L. Finley, D.J. Paustenbach, and G. Oberdorster. 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.
- > Tvermoes, B.E., D.J. Paustenbach, B.D. Kerger, B.L. Finley, and K.M. Unice. 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):367-87.
- > Kerger, B.D., K.A. Thuett, and B.L. Finley. 2014. Evaluation of four  $\alpha$ -diketones for toll-like receptor-4 (TLR-4) activation in a human transfected cell line. Food Chem Tox. 74:117-119.
- > Finley, B.L. and P.K. Scott. 2014. Diacetyl and "popcorn lung" litigation: Assessing the evidence for general causation. ABA Environ Litig Toxic Torts Newsletter. 15(2):7-10.
- > Paustenbach, D., D. Galbraith, and B. Finley. 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.
- > Christian, W.V., L.D. Oliver, D.J. Paustenbach, M.L. Kreider, and B.L. Finley. 2014. Toxicology-based cancer causation analysis of CoCr-containing hip implants: A quantitative assessment of genotoxicity and tumorigenicity studies. J Appl Tox. 34(9):939-967.

- > Monnot, A.D., W.V. Christian, D.J. Paustenbach, and B.L. Finley. 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.
- > Unice, K.M., B.D. Kerger, D.J. Paustenbach, B.L. Finley, and B.E. Tvermoes. 2014. Refined biokinetic model for humans exposed to cobalt dietary supplements and other sources of systemic cobalt exposure. *Chem-Biol Interact.* 216:53-74.
- > Pierce, J.S., A. Abelmann, L.J. Spicer, R.E. Adams, and B.L. Finley. 2014. Diacetyl and 2,3-pentanedione exposures associated with cigarette smoking: Implications for risk assessment of food and flavoring workers. *Crit Rev Tox.* 44(5):420-435.
- > Tvermoes, B.E., K.M. Unice, D.J. Paustenbach, B.L. Finley, J.M. Otani, and D.A. Galbraith. 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):632-46.
- > Paustenbach, D.J., D.A. Galbraith, and B.L. Finley. 2014. Interpreting cobalt blood concentrations in hip implant patients. *Clin Toxicol.* 52(2):98-112.
- > Finley, B.L., K.M. Unice, B.D. Kerger, J.M. Otani, D.J. Paustenbach, D.A. Galbraith, and B.E. Tvermoes. 2013. 31-day study of cobalt (II) chloride ingestion in humans: Pharmacokinetics and clinical effects. *J Tox Env Health A.* 76:1210-1224.
- > Kerger, B.D., R. Gerads, H. Gurleyuk, K.A. Thuett, B.L. Finley, and D.J. Paustenbach. 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, B.D., B.E. Tvermoes, K.M. Unice, B.L. Finley, D.J. Paustenbach, and D.A. Galbraith. 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, D.J., B.E. Tvermoes, K.M. Unice, B.L. Finley, and B.D. Kerger. 2013. A review of the health hazards posed by cobalt. *Crit Rev Tox.* 43(4):316-362
- > Tvermoes, B.E., B.L. Finley, K.M. Unice, J.M. Otani, D.J. Paustenbach, and D.A. Galbraith. 2013. Cobalt whole blood concentrations in healthy adult male volunteers following two-weeks of ingesting a cobalt supplement. *Food Chem Tox.* 53:432-439.
- > Finley, B.L., J.S. Pierce, D.J. Paustenbach, and D.A. Galbraith. 2013. Letter to the editor: Response to a letter to the editor by Dr. Murray M. Finkelstein regarding the article by Finley et al. (2012). *Reg Tox Pharm.* 65(1):180-181.
- > Finley, B.L., J.S. Pierce, A.D. Phelka, R.E. Adams, D.J. Paustenbach, K.A. Thuett, and C.A. Barlow. 2012. Evaluation of tremolite asbestos exposures associated with the use of commercial products. *Crit Rev Toxicol.* 42(2):119-146.
- > Fillos, D., L.L.F. Scott, M. Anderle De Saylor, M. Grespin, W.J. Luksemburg, and B. Finley. 2012. PCB concentrations in shrimp from major import markets and the United States. *Environ Tox Chem.* 31(5):1063-1071.

- > Knutsen, J.S., B.D. Kerger, B.L. Finley, and D.J. Paustenbach. 2012. A calibrated human PBPK model for benzene inhalation with urinary bladder and bone marrow compartments. *Risk Anal* 33 (7):1237-51.
- > Finley, B.L., A.D. Monnot, S.H. Gaffney, and D.J. Paustenbach. 2012. Dose-response relationships for blood cobalt concentrations and health effects: A review of the literature and application of a biokinetic model. *J Tox Env Health B*. 15(8):493-523.
- > Finley, B.L., A.D. Monnot, D.J. Paustenbach, and S.H. Gaffney. 2012. Derivation of a chronic reference dose for cobalt. *Reg Tox Pharm*. 64:491-503.
- > Finley, B.L., J.S. Pierce, D.J. Paustenbach, L.L.F. Scott, L. Lievens, P.K. Scott and D.A. Galbraith. 2012. Malignant pleural mesothelioma in U.S. automotive mechanics: Reported vs. expected number of cases from 1975-2007. *Reg Tox Pharm*. 64(1):14-116.
- > Unice, K.M., A.D. Monnot, S.H. Gaffney, B.E. Tvermoes, K.A. Thuett, D.J. Paustenbach and B.L. Finley. 2012. Inorganic cobalt supplementation: Prediction of cobalt levels in whole blood and urine using a biokinetic model. *Food Chem Toxicol*. 50(7):2456-2461.
- > Phelka, A.D. and B.L. Finley. 2012. Potential health hazards associated with exposures to asbestos-containing drywall accessory products: A state-of-the-science assessment. *Crit Rev Toxicol*. 42(1):1-27.
- > Fillos, D., L.L.F. Scott, M. Anderle De Saylor, W. Luksemburg, B.L. Finley. 2011. PCB Concentrations in Shrimp from Major Import Markets and the United States. *Environ Toxicol Chem*. 31(5):1063-1071.
- > Pierce, J.S., A. Abelman, L.J. Spicer, R.E. Adams, M.E. Glynn, K. Neier, B.L. Finley and S.H. Gaffney. 2011. Characterization of formaldehyde exposure resulting from the use of four professional hair straightening products. *J Occup Environ Hyg*. 8(11):686-699.
- > Marwood C., B.L. McAtee, M.L. Kreider, R.S. Ogle, B.L. Finley, L.I. Sweet and J.M. Panko. 2011. Acute aquatic toxicity of tire and road wear particles to alga, daphnid and fish. *Ecotoxicol*. 20(8):2079-2089. doi: 10.1007/s10646-011-0750-x.
- > Kreider, M.L., J.M. Panko, B.L. McAtee, L.I. Sweet, B.L. Finley. 2010. Physical and chemical characterization of tire-related particles: Comparison of particles generated using different methodologies. *Sci Total Environ*. 408(3):652-659.
- > Finley, B.L., K.A. Fehling, J. Warmerdam and E.J. Morinello. 2009. Oral bioavailability of polychlorinated dibenzo-p-dioxins/dibenzofurans in industrial soils. *Hum Ecol Risk Assess*. 15(6):1146-1167.
- > Richter, R.O., B.L. Finley, D.J. Paustenbach, P.R.D. Williams and P. Sheehan. 2009. An evaluation of short-term exposures of brake mechanics to asbestos during automotive and truck brake cleaning and machining activities. *J Expo Sci Environ Epidemiol*. 19(5):458-474.

- > Pierce, J.S., G.C.T. Jiang and B.L. Finley. 2008. A state of the science review of the potential health hazards associated with asbestos in shielded metal arc welding rods in the United States. *Toxicol & Environ Chem.* 90(5):917-956.
- > Finley, B.L., D.A. Galbraith and D. Weill. 2008. Comments on respiratory toxicity of diacetyl [Re: Morgan, D. L., Flake, G.P., Kirby, P. J. and Palmer, S. M. Respiratory toxicity of diacetyl in C57Bl/6 mice. *Toxicol Sci.* 103:169-180]. *Toxicol Sci.* 105(2):429-432.
- > Madl, A.K., L.L. Scott, D.M. Murbach, K.A. Fehling, B.L. Finley and D.J. Paustenbach. 2008. Exposure to chrysotile asbestos associated with unpacking and repacking boxes of automobile brake pads and shoes. *Ann Occup Hyg.* 52(6):463-479.
- > Jiang, G.C.T., A.K. Madl, K.J. Ingmundson, D.M. Murbach, K.A. Fehling, D.J. Paustenbach and B.L. Finley. 2008. A study of airborne chrysotile concentrations associated with handling, unpacking and repacking boxes of automobile clutch discs. *Reg Tox Pharm.* 51(1):87-97.
- > Pierce, J.S., M.A. McKinley, D.J. Paustenbach and B.L. Finley. 2008. An evaluation of reported no-effect chrysotile asbestos exposures for lung cancer and mesothelioma. *Crit Rev Toxicol.* 38(3):191-214.
- > Donovan, E.P., D.F. Staskal, K.M. Unice, J.D. Roberts, L.C. Haws, B.L. Finley and M.A. Harris. 2008. Risk of gastrointestinal disease associated with exposure to pathogens in the sediments of the lower Passaic River. *Appl Environ Microbiol.* 74(4):1004-1018.
- > Donovan, E., K.M. Unice, J.D. Roberts, M.A. Harris and B.L. Finley. 2008. Risk of gastrointestinal disease associated with exposure to pathogens in the water of the lower Passaic River. *Appl Environ Microbiol.* 74(4):994-1003.
- > Connor, K.T., M.A. Harris, M.R. Edwards, R.A. Budinsky, G.C. Clark, A.C. Chu, B.L. Finley and J.C. Rowlands. 2008. AH receptor agonist activity in human blood measured with a cell-based bioassay: Evidence for naturally occurring AH receptor. *J Expo Sci Environ Epidemiol.* 18(4):369-380.
- > Santamaria, A.B., C.A. Cushing, J.M. Antonini, B.L. Finley and F.S. Mowat. 2007. State-of-the-science-review: does manganese exposure during welding pose a neurological risk? *J Toxicol Environ Health B.* 10:417-465.
- > Finley, B.L., R.O. Richter, F.S. Mowat, S. Mlynarek, D.J. Paustenbach, J.M. Warmerdam and P.J. Sheehan. 2007. Cumulative asbestos exposure for US automobile mechanics involved in brake repair (circa 1950s-2000). *J Expo Sci Environ Epidemiol.* 17(7): 644-655.
- > Kuykendall, J.R., E.J. Jarvi, B.L. Finley and D.J. Paustenbach. 2007. DNA-protein cross-link formation in Burkitt lymphoma cells cultured with benzaldehyde and the sedative paraldehyde. *Drug Chem Toxicol.* 30(1):1-16.



- > Ray, R., V. Craven, M. Bingham, J. Kinnell, E. Hastings and B.L. Finley. 2007. Human health exposure factor estimates based upon a creel/angler survey of the lower Passaic River (Part 3). *J Toxicol Environ Health A*. 70(6):512-528.
- > Ray, R., V. Craven, J. Kinnell, M. Bingham, M. Freeman and B.L. Finley. 2007. A statistical method for analyzing data collected by a creel/angler survey (Part 2). *J Toxicol Environ Health A*. 70(6):496-511.
- > Morinello, E.J., J.M. Warmerdam and B.L. Finley. 2006. The oral bioavailability of polychlorinated dibenzo-pdioxins/dibenzofurans in the soil: review of the state of the science. *Organohalogen Compd*. 68:1581-1584.
- > Haws, L.C., S.H. Su, M. Harris, M.J. Devito, N.J. Walker, W.H. Farland, B.L. Finley and L.S. Birnbaum. 2006. Development of a refined database of mammalian relative potency estimates for dioxin-like compounds. *Toxicol Sci*. 89(1):4-30.
- > Paustenbach, D.J., B.L. Finley, P.J. Sheehan and G.P. Brorby. 2006. Re: Evaluation of the size and type of free particulates collected from unused asbestos-containing brake components as related to potential for respirability. *Am J Ind Med*. 49:60-61.
- > Finley, B.L. and A. Santamaria. 2005. Current evidence and research needs regarding the risk of manganese-induced neurological effects in welders. *Neurotoxicol*. 26(2):285-289.
- > Connor K.T., M. Eversen, S.H. Su and B.L. Finley. 2005. Quantitation of polychlorinated biphenyls in fish for human cancer risk assessment: a comparative case study. *Environ Toxicol Chem*. 24(1):17-24.
- > Li A.A., P.J. Mink, L.J. McIntosh, M.J. Teta and B.L. Finley. 2005. Evaluation of epidemiologic and animal data associating pesticides with Parkinson's disease. *J Occup Environ Med*. 47(10):1059-1087.
- > Connor, K., M. Harris, M. Edwards, A. Chu, G. Clark and B.L. Finley. 2004. Estimating the total TEQ in human blood from naturally-occurring vs. anthropogenic dioxins: a dietary study. *Organohalogen Compd*. 66:3408-3413.
- > Haws, L., M. Harris, S. Su, L. Birnbaum, M. Devito, W. Farland, N. Walker, K. Connor, A. Santamaria and B.L. Finley. 2004. Development of a refined database of relative potency estimates to facilitate better characterization of variability and uncertainty in the current mammalian TEFs for PCDDs, PCDFs and dioxin-Like PCBs. *Organohalogen Compd*. 66:3391-3397.
- > Haws, L., M. Harris, S. Su, N. Walker, L. Birnbaum, M. DeVito, W. Farland, K. Connor, A. Santamaria and B.L. Finley. 2004. A preliminary approach to characterizing variability and uncertainty in the mammalian PCDD/F and PCB TEFs. *Organohalogen Compd*. 66:3439-3445.
- > Paustenbach, D.J., B.L. Finley, E.T. Lu, G.P. Brorby and P.J. Sheehan. 2004. Environmental and occupational health hazards associated with the presence of asbestos in brake linings and pads (1900 to present): a "state-of-the-art" review. *J Toxicol Environ Health B Crit Rev*. 7(1):25-80.

- > Finley, B.L. and K.T. Connor. 2003. Naturally occurring Ah-receptor agonists in foods: Implications regarding dietary dioxin exposure and health risk. *Human Ecol Risk Assess* 9:1747-1763.
- > Finley, B.L., K.T. Connor and P.K. Scott. 2003. The use of toxic equivalency factor distributions in probabilistic risk assessments for dioxins, furans and PCBs. *J Toxicol Environ Health A*. 66(6):533-550.
- > Finley, B.L., T. Iannuzzi, N. Wilson, J.C. Kinnell, V.A. Craven, S. Lemeshow, C.M. Teaf, E.J. Calabrese and P.T. Kostecki. 2003. The Passaic Creel/Angler survey: Expert panel review, findings and recommendations. *Human Ecol Risk Assess*. 9:829-855.
- > Finley, B.L., D.R. Ownby and S.M. Hays. 2003. Airborne tire particulates in the environment: A possible asthma risk from latex proteins? *Human Ecol Risk Assess*. 9:1505-1518.
- > Paustenbach, D.J., B.L. Finley, F.S. Mowat and B.D. Kerger. 2003. Human health risk and exposure assessment of chromium (VI) in tap water. *J Toxicol Environ Health A*. 66(14):1295-1339.
- > Paustenbach, D.J., R.O. Richter, B.L. Finley and P.J. Sheehan. 2003. An evaluation of the historical exposures of mechanics to asbestos in brake dust. *Appl Occup Environ Hyg*. 18(10):786-804.
- > Proctor, D., J. Panko, E. Liebig, K. Mundt, M. Buczynski, R. Barnhart, M. Harris, R. Morgan, B.L. Finley and D. Paustenbach. 2003. Workplace concentrations of airborne hexavalent chromium for the Painesville, Ohio chromate production plant. *Appl Occup Environ Hyg J*. 18(6):430-449.
- > Aylward, L., S. Hays and B.L. Finley. 2002. Temporal trends in intake of dioxins from foods in the U.S. and Western Europe: Issues with intake estimates and parallel trends in human body burden. *Organohalogen Compd*. 55:235-238.
- > Proctor, D.M., J.M. Otani, B.L. Finley, D.J. Paustenbach, J.A. Bland, N. Speizer and E.V. Sargent. 2002. Is hexavalent chromium carcinogenic via ingestion? A weight-of-evidence review. *J Toxicol Environ Health A*. 65(10):701-746.
- > Proctor D.M, E.C. Shay, K.A. Fehling and B.L. Finley. 2002. Assessment of human health and ecological risks posed by the uses of steel-industry slags in the environment. *Human Ecol Risk Assess*. 8(4):681-711.
- > Su, S.H., L.C. Pearlman, J.A. Rothrock, T.J. Iannuzzi and B.L. Finley. 2002. Potential long-term ecological impacts caused by disturbance of contaminated sediments: a case study. *Environ Manage*. 29(2):234-249.
- > Scott, P.K., A. Pittignano and B.L. Finley. 2001. Evaluation of the physical hazards associated with two remedial alternatives at a Superfund site. *Risk Anal*. 21(1):53-61.

- > Su, S.H., J. Rothrock, L. Pearlman and B.L. Finley. 2001. Health-based criteria for sediment disposal options: a case study of the Port of New York/New Jersey. *Human Ecol Risk Assess.* 7(6):1737-1756.
- > Hays, S.M., L.L. Aylward, B.L. Finley and D.J. Paustenbach. 2001. Implementing a cancer risk assessment for dioxin using a margin of exposure approach and an internal measure of dose. *Organohalogen Compd.* 53:225-228.
- > Finley, B.L., P.K. Scott and C. Kirman. 2000. PCBs in Passaic River sediments: Some analytical considerations. *Soil Sediment Contam.* 9(3):167-179.
- > Kirman, C.R., L.L. Aylward, N.J. Karch, D.J. Paustenbach, B.L. Finley and S.M. Hays. 2000. Is dioxin a threshold carcinogen? A quantitative analysis of the epidemiological data using internal dose and Monte Carlo methods. *Organohalogen Compd.* 48:219-222.
- > Finley, B.L., C. Kirman and P.K. Scott. 1999. Derivation of probabilistic distributions for the W.H.O. mammalian toxic equivalency factors. *Organohalogen Compd.* 42:225-229.
- > Fowler, J.F., Jr., C.L. Kauffman, J.G. Marks, Jr., D.M. Proctor, M.M. Fredeick, J.M. Otani, B.L. Finley, D.J. Paustenbach and J.R. Nethercott. 1999. An environmental hazard assessment of low-level dermal exposure to hexavalent chromium in solution among chromium-sensitized volunteers. *J Occup Environ Med.* 41(3):150-160.
- > Paustenbach, D.J. and B.L. Finley. 1999. DNA-protein cross-links as a biomarker of Cr(VI) exposure. *Environ Health Perspect.* 107(10):A494-A495.
- > Proctor, D.M., J.M. Panko, B.L. Finley, W.J. Butler and R.J. Barnhart. 1999. Need for improved science in standard setting for hexavalent chromium. *Regul Toxicol Pharm.* 29(2 Pt 1):99-101.
- > Barber, T.R., D.J. Chappie, D.J. Duda, P.C. Fuchsman and B.L. Finley. 1998. Using a spiked sediment bioassay to establish a no-effect concentration for dioxin exposure to the amphipod *Ampelisca abdita*. *Environ Toxicol Chem.* 17(3):420-424.
- > Corbett, G.E., D.G. Dodge, E. O'Flaherty, J. Liang, L. Throop, B.L. Finley and B.D. Kerger. 1998. In vitro reduction kinetics of hexavalent chromium in human blood. *Environ Res.* 78(1):7-11.
- > Finley, B.L., C. Kirman, R.J. Wenning and D. Mathur. 1998. Does the available toxicological evidence warrant identification of hexachlorobenzene as a dioxin-like chemical? *Organohalogen Compd.* 38:325-329.
- > Huntley, S.L., H. Carlson-Lynch, G.W. Johnson, D.J. Paustenbach and B.L. Finley. 1998. Identification of historical PCDD/F sources in Newark Bay Estuary subsurface sediments using polytopic vector analysis and radioisotope dating techniques. *Chemosphere.* 36(6):1167-1185.
- > Proctor, D.M., M.M. Fredrick, P.K. Scott, D.J. Paustenbach and B.L. Finley. 1998. The prevalence of chromium allergy in the United States and its implications for

- setting soil cleanup: a cost-effectiveness case study. *Regul Toxicol Pharm.* 28(1):27-37.
- > Corbett, G.E., B.L. Finley, D.J. Paustenbach and B.D. Kerger. 1997. Systemic uptake of chromium in human volunteers following dermal contact with hexavalent chromium (22 mg/L). *J Expo Anal Environ Epidemiol.* 7(2):179-189.
  - > Finley, B.L., B.D. Kerger, M.W. Katona, M.L. Gargas, G.C. Corbett and D.J. Paustenbach. 1997. Human ingestion of chromium (VI) in drinking water: pharmacokinetics following repeated exposure. *Toxicol Appl Pharmacol.* 142(1):151-159.
  - > Finley, B.L. and D.J. Paustenbach. 1997. Using applied research to reduce uncertainty in health risk assessment: five case studies involving human exposure to chromium in soil and groundwater. *J Soil Contam.* 6:649-705.
  - > Finley, B.L., K.R. Trowbridge, S. Burton, D.M. Proctor, J.M. Panko and D.J. Paustenbach. 1997. Preliminary assessment of PCB risks to human and ecological health in the lower Passaic River. *J Toxicol Environ Health.* 52(2):95-118.
  - > Huntley, S.L., T.J. Iannuzzi, J.G. Ducey, H. Carlson-Lynch, C.W. Schmidt and B.L. Finley. 1997. Combined sewer overflows (CSOs) as sources of sediment contamination in the lower Passaic River, New Jersey. II. Polychlorinated dibenzo-p-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls. *Chemosphere.* 34(2):233-250.
  - > Iannuzzi, T.J., S.L. Huntley, C.W. Schmidt, B.L. Finley, R.P. McNutt and S.J. Burton. 1997. Combined sewer overflows (CSOs) as source of sediment contamination in the lower Passaic River, New Jersey. I. Priority pollutants and inorganic chemicals. *Chemosphere.* 34(2):213-231.
  - > Kerger, B.D., B.L. Finley, G.E. Corbett, D.G. Dodge and D.J. Paustenbach. 1997. Ingestion of chromium(VI) in drinking water by human volunteers: absorption, distribution and excretion of single and repeated doses. *J Toxicol Environ Health.* 50(1):67-95.
  - > Paustenbach, D.J., B.L. Finley and T.F. Long. 1997. The critical role of house dust in understanding the hazards posed by contaminated soils. *Int J Toxicol.* 16:339-362.
  - > Paustenbach, D.J., J.M. Panko, M.M. Fredrick, B.L. Finley and D.M. Proctor. 1997. Urinary chromium as a biological marker of environmental exposure: what are the limitations? *Regul Toxicol Pharmacol.* 26(1 Pt 2):S23-S34.
  - > Scott, P.K., B.L. Finley, M.A. Harris and D.E. Rabbe. 1997. Background air concentrations of Cr(VI) in Hudson County, New Jersey: implications for setting health-based standards for Cr(VI) in soil. *J Air Waste Manag Assoc.* 47(5):592-600.
  - > Scott, P.K., B.L. Finley, H.M. Sung, R.H. Schulze and D.B. Turner. 1997. Identification of an accurate soil suspension/dispersion modeling method for use in estimating health-based soil cleanup levels of hexavalent chromium in chromite ore processing residues. *J Air Waste Manag Assoc.* 47(7):753-765.

- > Costa, M., A. Zhitkovich, M. Gargas, D. Paustenbach, B.L. Finley, J. Kuykendall, R. Billings, T.J. Carlson, K. Wetterhahn, J. Xu, S. Patierno and M. Bogdanffy. 1996. Interlaboratory validation of a new assay for DNA-protein crosslinks. *Mutat Res.* 369(1-2):13-21.
- > Finley, B.L., B.D. Kerger, D.G. Dodge, S.M. Meyers, R.O. Richter and D.J. Paustenbach. 1996. Assessment of airborne hexavalent chromium in the home following use of contaminated tapwater. *J Expo Anal Environ Epidemiol.* 6(2):229-245.
- > Finley, B.L., P.K. Scott, R.L. Norton, M.L. Gargas and D.J. Paustenbach. 1996. Urinary chromium concentrations in humans following ingestion of safe doses of hexavalent and trivalent chromium: implications for biomonitoring. *J Toxicol Environ Health.* 48(5):479-499.
- > Gargas, M., M. Harris, D.J. Paustenbach and B.L. Finley. 1996. Response to the letter-to-the-editor written by Stern et al. regarding the paper "Urinary Excretion of Chromium Following Ingestion of Chromite-Ore Processing Residues in Humans: Implications for Biomonitoring". *Risk Anal.* 16(5):609-612.
- > Iannuzzi, T., S.L. Huntley and B.L. Finley. 1996. Comments on "Levels of PCDD/Fs in crab tissue from the Newark, Raritan System" and "Mass-profile monitoring in trace analysis: identification of polychlorodibenzothiophenes in crab tissues collected from the Raritan Bay System. *Environ Sci Technol.* 30(2):721-722.
- > Kerger, B.D., D.J. Paustenbach, G.E. Corbett and B.L. Finley. 1996. Absorption and elimination of trivalent and hexavalent chromium in humans following ingestion of a bolus dose in drinking water. *Toxicol Appl Pharmacol.* 141(1):145-158.
- > Kerger, B.D., R.O. Richter, S.M. Chute, D.G. Dodge, S.K. Overman, J. Liang, B.L. Finley and D.J. Paustenbach. 1996. Refined exposure assessment for ingestion of tapwater contaminated with hexavalent chromium: consideration of exogenous and endogenous reducing agents. *J Expo Anal Environ Epidemiol.* 6(2):163-179.
- > Paustenbach, D.J., B.L. Finley and S. Kacew. 1996. Biological relevance and consequences of chemical- or metal-induced DNA cross-linking. *Proc Soc Exp Biol Med.* 211(3):211-217.
- > Shear, N.M., C.W. Schmidt, S.L. Huntley, D.W. Crawford and B.L. Finley. 1996. Evaluation of the factors relating combined sewer overflows with sediment contamination of the lower Passaic River. *Mar Poll Bull.* 32(2):288-304.
- > Paustenbach DJ, B.L. Finley, J. Nethercott and J. Fowler. 1995. Response to Stern and Hazen letter-to-the-editor. *J Toxicol Environ Health.* 44:377-383.
- > Anderson, R.A., T. Colton, J. Doull, J.G. Marks, R.G. Smith, G.M. Bruce, B.L. Finley and D.J. Paustenbach. 1995. Response to Fagliano et al. and Gochfeld & Lioy letter-to-the-editor. *J Toxicol Environ Health.* 44:123-134.

- > Finley, B.L., D.J. Paustenbach, J. Nethercott and J. Fowler. 1995. Risk assessment of the allergic dermatitis potential of environmental exposure to hexavalent chromium. *J Toxicol Environ Health*. 44(3):377-383.
- > Gargas, M.L., B.L. Finley, R.L. Norton and D.J. Paustenbach. 1995. Response to Fagliano et al letter-to-the-editor on urine chromium screening. *Drug Metab Disp*. 23(6):607-609.
- > Iannuzzi, T., S.L. Huntley, N.L. Bonnevie, B.L. Finley and R.J. Wenning. 1995. Distribution and possible sources of polychlorinated biphenyls in dated sediments from the Newark Bay Estuary, New York. *Arch Environ Contam Toxicol*. 28:108-117.
- > Nethercott, J.R., D.J. Paustenbach and B.L. Finley. 1995. Response to Stern and Hazen letter-to-the-editor. *Occup Env Med*. 52(10):702-704.
- > Finley, B.L. and D.J. Paustenbach. 1994. The benefits of probabilistic exposure assessment: three case studies involving contaminated air, water and soil. *Risk Anal*. 14(1):53-73.
- > Finley, B.L., D.M. Proctor, P.K. Scott, N. Harrington, D.J. Paustenbach and P. Price. 1994. Recommended distributions for exposure factors frequently used in health risk assessment. *Risk Anal*. 14(4):533-553.
- > Finley, B.L. and D.A. Mayhall. 1994. Airborne concentrations of chromium due to contaminated interior building surfaces. *Appl Occup Environ Hyg*. 9(6):433-441.
- > Finley, B.L., P.K. Scott, D.A. Mayhall. 1994. Development of a standard soil-to-skin adherence probability density function for use in Monte Carlo analyses of dermal exposure. *Risk Anal*. 14(4):555-569.
- > Gargas, M.L., R.L. Norton, M.A. Harris, D.J. Paustenbach and B.L. Finley. 1994. Urinary excretion of chromium following ingestion of chromite-ore processing residues in humans: implications for biomonitoring. *Risk Anal*. 14(6):1019-1024.
- > Gargas, M.L., R.L. Norton, D.J. Paustenbach and B.L. Finley. 1994. Urinary excretion of chromium by humans following ingestion of chromium picolinate. Implications for biomonitoring. *Drug Metab Dispos*. 22(4):522-529.
- > Horowitz, S.B. and B.L. Finley. 1994. Setting health-protective soil concentrations for dermal contact allergens: a proposed methodology. *Regul Toxicol Pharmacol*. 19(1):31-47.
- > Keenan, R.E., B.L. Finley and P.S. Price. 1994. Exposure assessment: then, now and quantum leaps in the future. *Risk Anal*. 14(3):225-230.
- > Malsch, P.A., D.M. Proctor and B.L. Finley. 1994. Estimation of a chromium inhalation reference concentration using the benchmark dose method: a case study. *Regul Toxicol Pharmacol*. 20(1 Pt 1):58-82.
- > Nethercott, J., D. Paustenbach, R. Adams, J. Fowler, J. Marks, C. Morton, J. Taylor, S. Horowitz and B.L. Finley. 1994. A study of chromium induced allergic contact



dermatitis with 54 volunteers: Implications for environmental risk assessment. *Occup Environ Med.* 51(6):371-380.

- > Nethercott, J.R., B.L. Finley, S. Horowitz and D. Paustenbach. 1994. Safe concentrations for dermal allergens in the environment. *N J Med.* 91(10):694-697.
- > Wenning, R.J., W. Mitterhuemer and B.L. Finley. 1994. New directions in the conduct of health risk assessment: Pitfalls and lessons learned. *InterData Environ Handbook, 5th Edition.* 22-26.
- > Anderson, R.A., T. Colton, J. Doull, J.G. Marks, R.G. Smith, G.M. Bruce, B.L. Finley and D.J. Paustenbach. 1993. Designing a biological monitoring program to assess community exposure to chromium: conclusions of an expert panel. *J Toxicol Environ Health.* 40(4):555-583.
- > Finley, B.L., K.A. Fehling, M. Falerios and D.J. Paustenbach. 1993. Field validation for sampling and analysis of airborne hexavalent chromium. *Appl Occup Environ Hyg.* 8(3):191-200.
- > Finley, B.L., E.M. Johnson and J.F. Holson. 1993. Comments on comparative effects of trivalent and hexavalent chromium on spermatogenesis of the mouse. *Toxicol Environ Chem.* 39:133-137.
- > Finley, B.L., P. Scott and D.J. Paustenbach. 1993. Evaluating the adequacy of maximum contaminant levels as health-protective cleanup goals: an analysis based on Monte Carlo techniques. *Regul Toxicol Pharmacol.* 18(3):438-455.
- > Horowitz, S.B. and B.L. Finley. 1993. Using human sweat to extract chromium from chromite ore processing residue: applications to setting health-based cleanup levels. *J Toxicol Environ Health.* 40(4):585-599.
- > Wenning, R.J., M.A. Harris, B.L. Finley, D.J. Paustenbach and H. Bedbury. 1993. Application of pattern recognition techniques to evaluate polychlorinated dibenzo-p-dioxin and dibenzofuran distributions in surficial sediments from the lower Passaic River and Newark Bay. *Ecotoxicol Environ Safety.* 25(1):103-125.
- > Finley, B.L., V. Lau and D.J. Paustenbach. 1992. Using an uncertainty analysis of direct and indirect exposure to contaminated groundwater to evaluate EPA's MCLs and health-based cleanup goals. *J Haz Mat.* 32:263-274.
- > Finley, B.L., D.M. Proctor and D.J. Paustenbach. 1992. An alternative to the USEPA's proposed inhalation reference concentrations for hexavalent and trivalent chromium. *Regul Toxicol Pharmacol.* 16(2):161-176.
- > Graham, J., K.D. Walker, M. Berry, E.F. Bryan, M.A. Callahan, A. Fan, B.L. Finley, J. Lynch, T. McKone, H. Ozkaynak, K. Sexton. 1992. Role of exposure databases in risk assessment. *Arch Environ Health.* 47(6):408-420.
- > Paustenbach, D.J., P.J. Sheehan, J.M. Paull, L.M. Wisser and B.L. Finley. 1992. Review of the allergic contact dermatitis hazard posed by chromium-contaminated soil: identifying a "safe" concentration. *J Toxicol Environ Health.* 37(1):177-207.

- > Paustenbach, D.J., T.T. Sarlos, V. Lau, B.L. Finley, D.A. Jeffrey and M.J. Unga. 1991. The potential inhalation hazard posed by dioxin contaminated soil. *J Air Waste Manag Assoc.* 41(10):1334-1340.
- > Finley, B.L. and D.J. Paustenbach. 1990. Assessment of pesticide-related hazards to birds in a residential community. *Proc HazMat Central.*
- > Finley, B.L. and D.J. Paustenbach. 1990. Using risk assessment to design cost-effective remedial investigation: A case study. *Econ.* 5(1):57-59.
- > Paustenbach, D.J., B.L. Finley, R. Kalmes and B. Fishman. 1990. Methodology for setting airborne emissions limits for chloroform, chlorine dioxide and chlorine from paper and pulp mills. pp. 133-136, Book 1. TAPPI Environmental Conference, Seattle, WA.
- > Paustenbach, D.J., J.D. Jernigan, B.L. Finley, S.R. Ripple and R.E. Keenan. 1990. The current practice of health risk assessment: Potential impact on standards for toxic air contaminants. *J Air Waste Manag Assoc.* 40(12):1620-1630.
- > Finley, B.L. 1989. Using risk assessment requirements to design cost-effective remedial investigations. *HazMat West Proc.*
- > Finley, B.L. and B.D. Hammock. 1988. Increased activity of cholesterol epoxide hydrolase subsequent to clofibrate treatment. *Biochem Pharmacol.* 37:3169-3175.
- > Finley, B.L., P.J. Ashley, A.G. Neptune and G.S. Yost. 1986. Substrate-selective induction of rabbit hepatic UDP-glucuronyltransferases by ethanol and other xenobiotics. *Biochem Pharmacol.* 35:2875-2881.
- > Yost, G.S. and B.L. Finley. 1985. Stereoselective glucuronidation as a probe of induced forms of UDP-glucuronyltransferases. *Drug Metab Dispos.* 13:5-8.
- > Yost, G.S. and B.L. Finley. 1983. Ethanol as an inducer of UDP-glucuronyltransferases. *Biochem Biophys Res Comm.* 111:219-223.

#### Book Chapters

- > Finley, B.L. and S.H. Su. 2002. Contaminated sediments and bioaccumulation criteria: Procedures for evaluating dredging and open ocean disposal permits in the New York/New Jersey Harbor. pp. 217-25. In: *Characterization of Contaminated Sediments*. Pellei, P., A. Porta and R. Hinchee, (eds.). Battelle Press, Columbus, OH.
- > Hays, S.M. and B.L. Finley. 2002. Qualitative health risk assessment of natural rubber latex in consumer products. Chapter 18, pp. 1033-1065. In: *Human and Ecological Health Risk Assessment: Theory and Practice*. D.J. Paustenbach, (ed.). John Wiley & Sons, Inc., New York, NY.
- > Gargas, M., B.L. Finley, D. Paustenbach and T.F. Long. 2000. Environmental health risk assessment; theory and practice. Chapter 82, pp. 1749-1809. In: *General and Applied Toxicology*. Ballantyne, M., T. Marrs and T. Syversen, (eds.). MacMillan Reference. Woodbridge, CT.

## Presentations

- > Kangas, M.J., P. Scott, B.L. Finley and D. Paustenbach. 1996. A comparison of generic human health risk-based soil remediation criteria in Canada and the US: Two case studies. pp. 138-164. In: ASTM STP (1262): Environmental Toxicology and Risk Assessment. American Society for Testing and Materials. Philadelphia, PA.
  
- > Ierardi, A.M., J.T. Lotter, N. Jacobs, B.L. Finley, and J.S. Pierce. 2021. Derivation of a Proposed Asbestiform Tremolite NOAEL for Lung Cancer. Virtual Poster Presentation at the 2021 Society of Toxicology (SOT) Annual Meeting. March 12-26.
- > Killius, A. and B.L. Finley. 2021. Contribution of Demolition Activities to Flint, Michigan, Childhood Blood Lead Levels in 2013-2015. Virtual Poster Presentation at the 2021 Society of Toxicology (SOT) Annual Meeting. March 12-26.
- > Mathis, C., E. Beckett, C. Bates, A. Maier and B.L. Finley. 2021. Derivation of adverse Deep Lung Effect Thresholds for  $\alpha$ -Diketone Compounds. Virtual Poster Presentation at the 2021 Society of Toxicology (SOT) Annual Meeting. March 12-26.
- > Ierardi, A.M., A. Urban, N.F.B. Jacobs, C. McMenemy, B.L. Finley and S.H. Gaffney. 2019. Characterization of Airborne Asbestos Exposures from the use of Dental Products: A Comprehensive Review. Poster presentation at The American Industrial Hygiene Conference & Exposition (AIHce), May 20-22, 2019, Minneapolis, MN.
- > Towle, K.M., A.S. Riordan, J.S. Pierce, B.L. Finley, and D.M. Hollins. 2019. Exposure to Asbestos and Risk of Ovarian Cancer: A Systematic Literature Review and Meta-analysis. Poster presentation at The American Industrial Hygiene Conference & Exposition (AIHce), May 20-22, 2019, Minneapolis, MN.
- > Burns; A.M., S.M. Benson, E. Best; D.M. Hollins and B.L. Finley. 2018. An Ecological Epidemiology Investigation of Talc Consumption in the US and Trends in Female Cancer Rates. Poster Presentation at Society of Toxicology Annual Meeting, March 11-15, 2018, San Antonio, TX.
- > Kovochich, M. E.S. Fung, S.L. Mahoney, K.M. Unice, D. Fung, D.J. Paustenbach and B.L. Finley. 2018. Characterizing Cytotoxic and Inflammatory Responses to Metal-On-Metal Wear Debris from Normal versus Edge-Loading Conditions. Poster Presentation at Society of Toxicology Annual Meeting, March 11-15, 2018, San Antonio, TX.
- > Kovochich, M., D. Fung, K.M. Unice, S.L. Mahoney, D.J. Paustenbach and B.L. Finley. 2018. 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 Annual Meeting, March 11-15, 2018, San Antonio, TX.
- > Shay Hynds, E.C., A.M. Ierardi, A. M. Burns and B.L. Finley. 2018. Derivation of a Chronic Oral RfD for Antimony. Poster Presentation at Society of Toxicology Annual Meeting, March 11-15, 2018, San Antonio, TX.
- > Benson, S.M., G.M. Marsh and B.L. Finley. 2017. Cosmetic Talc as a Risk Factor for Mesothelioma: A Weight-of-Evidence Evaluation. Abstract #1290. Poster Presentation at Society of Toxicology Annual Meeting. March 12-16, 2017. Baltimore, MD.
- > Finley, B.L., E.D. Donovan, M. Kovochich, D.J. Paustenbach and A.M. Urban. 2017. 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 Annual Meeting. March 12-16, 2017. Baltimore, MD.

- > Finley, B.L., M.E. Glynn, W.D. Cyrs, E.W. Beckett, S.H. Gaffney, A.D. Monnot, A. Abelmann, A. Parker and M.A. Maier. 2017. Derivation of an Occupational Exposure Limit for Diacetyl: A Preliminary Analysis. Late Breaking Poster Presentation at Society of Toxicology Annual Meeting. March 12-16, 2017. Baltimore, MD.
- > Finley, B.L., P.K. Scott, A.M. Burns and G.M. Marsh. 2017. Does PCB Exposure Cause Non-Hodgkins Lymphoma? A Weight of Evidence Evaluation. Late Breaking Poster Presentation at Society of Toxicology Annual Meeting. March 12-16, 2017. Baltimore, MD.
- > Fung, E.S., A.D. Monnot, B.E. Tvermoes, K.M. Unice, M. Kovochich, D.A. Galbraith, B.L. Finley and D.J. Paustenbach. 2017. Characteristics of Cobalt Related Cardiomyopathy in Metal Hip Implant Patients. Abstract #2142. Poster Presentation at Society of Toxicology Annual Meeting. March 12-16, 2017. Baltimore, MD.
- > Kovochich, M. E.S. Fung, E.P. Donovan, K.M. Unice, D.J. Paustenbach and B.L. Finley. 2017. 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 Annual Meeting. March 12-16, 2017. Baltimore, MD.
- > Williams, B.H., A.D. Monnot, A. Patton and B.L. Finley. 2017. Proposed Chronic Oral Reference Doses for Thallium. Late Breaking Poster Presentation at Society of Toxicology Annual Meeting. March 12-16, 2017. Baltimore, MD.
- > Cyrs, W.D., D. Dussex, M. Glynn and B.L. Finley. 2016. Benchmark Dose Modeling for Respiratory Irritation from 2,3-Pentanedione Exposure. (Accepted). Podium Presentation at American Industrial Hygiene Conference & Exposition (AIHce) May 21-26, 2016, Baltimore, MD.
- > Pierce, J.S., A. Abelmann, J. Lotter, C.E. Comerford, K. Keeton and B.L. Finley. 2016. Characterization of Naturally Occurring Airborne Diacetyl Concentrations Associated with the Preparation and Consumption of Unflavored Coffee. (Accepted). Poster Presentation at American Industrial Hygiene Conference & Exposition (AIHce) May 21-26, 2016, Baltimore, MD.
- > Pierce, J.S., P.S. Ruestow and B.L. Finley. 2016. An Updated Evaluation of Reported Chrysotile Asbestos No Observed Adverse Effect Levels (NOAELs) for Lung Cancer and Mesothelioma. (Accepted). Poster Presentation at American Industrial Hygiene Conference & Exposition (AIHce) May 21-26, 2016, Baltimore, MD.
- > Benson, S.M., S. Batdorf, K.M. Hitchcock, D.A. Galbraith and BL Finley. 2016. Asbestos exposure and pharyngeal and laryngeal cancer risk: A fiber-type specific meta-analysis. Abstract #2974. Poster Presentation at Society of Toxicology Annual Meeting. March 13-17, 2016. New Orleans, Louisiana.
- > Burns, A.M. and B.L. Finley. 2016. Potential tremolite exposures associated with talc- containing products. Abstract #2672. Poster Presentation at Society of Toxicology Annual Meeting. March 13-17, 2016. New Orleans, Louisiana.
- > Finley, B.L., M.E. Glynn, A. Abelmann and J.S. Pierce. 2016. Diacetyl exposure and respiratory disease: an evaluation of the current weight of evidence. Abstract #2140. Poster Presentation at Society of Toxicology Annual Meeting. March 13-17, 2016. New Orleans, Louisiana.
- > Glynn, M.E., R.E. Adams, E.M. Beckett, P.K. Scott, J.S. Pierce and B.L. Finley. 2016. 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 Annual Meeting. March 13-17, 2016. New Orleans, Louisiana.
- > Pierce, J.S., P.S. Ruestow and B.L. Finley. 2016. 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 Annual Meeting. March 13-17, 2016. New Orleans, Louisiana.
  - > Tvermoes, B.E., K.M. Unice, B. Winans, M. Kovochich, W.V. Christian, E.D. Donovan, B.L. Finley, I. Kimber and D.J. Paustenbach. 2016. 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 Annual Meeting. March 13-17, 2016. New Orleans, Louisiana.
  - > Abelmann, A, KM Unice, SH Gaffney, AM Urban, M Liong, L McCarthy, DM Hollins, JL Henshaw and BL Finley, Airborne Concentrations of Naturally Occurring Diacetyl Associated with Various Coffee Products. Poster presentation at the American Industrial Hygiene Conference & Expo (AIHce). May 30-June 4, 2015. Salt Lake City, UT.
  - > Gaffney, SH, A Abelmann, JS Pierce, ME Glynn, L McCarthy, J Lotter, M Liong, JL Henshaw and BL Finley. 2015. 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 the American Industrial Hygiene Conference & Expo (AIHce). May 30-June 4, 2015. Salt Lake City, UT.
  - > Ruestow, PS, JS Pierce, TJ Duke, LJ Roberts and BL Finley. 2015. Evaluation of the Impact of the "Restraining Line Rule" on the Incidence of Total and Head Injuries Occurring During NFL Kickoffs. Poster presentation at the American Industrial Hygiene Conference & Expo (AIHce). May 30-June 4, 2015. Salt Lake City, UT.
  - > Spicer, LJ, J Lotter, CE Comerford, A Abelmann, JS Pierce and BL Finley. 2015. Pilot Study of Exposures to Airborne Concentrations of Naturally Occurring Diacetyl During Coffee Consumption. Poster presentation at the American Industrial Hygiene Conference & Expo (AIHce). May 30-June 4, 2015. Salt Lake City, UT.
  - > Beckett EM, ME Glynn, RE Adams, JS Pierce, PK Scott and BL Finley. 2015. Refined Derivation of a Human Equivalent Concentration for Hyperplasia of Bronchiolar Epithelium Following Airborne Diacetyl Exposure. Poster presentation at the 54th Annual Meeting and Society of Toxicology (SOT) Meeting at the San Diego Convention Center, San Diego, CA; March 22-26, 2015.
  - > Christian, WV, LD Oliver, DJ Paustenbach, ML Kreider and BL Finley. 2015. Toxicology Based Cancer Causation Analysis of CoCr-Containing Hip Implants: A Quantitative Assessment of Genotoxicity and Tumorigenicity Studies. Poster presentation at the 54th Annual Meeting and Society of Toxicology (SOT) Meeting at the San Diego Convention Center, San Diego, CA; March 22-26, 2015.
  - > Cowan, DM, JR Maskrey, E Fung, T Woods, L Stabryla, PK Scott and BL Finley. 2015. Evaluation of Empirically-based PBPK Modeling Approaches for Modeling Ante- and Post Mortem Ethanol Concentrations in Biological Matrices. Poster presentation at the 54th Annual Meeting and Society of Toxicology (SOT) Meeting at the San Diego Convention Center, San Diego, CA; March 22-26, 2015.
  - > Glynn, ME, RE Adams, EM Beckett, JS Pierce, PK Scott and BL Finley. 2015. 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 the 54th Annual Meeting and Society of Toxicology (SOT) Meeting at the San Diego Convention Center, San Diego, CA; March 22-26, 2015.

- > Pierce, JS, A Abelmann, J Lotter, C Comerford, K Keeton and BL Finley. 2015. Characterization of Diacetyl Exposures Associated with the Preparation and Consumption of Unflavored Coffee. Poster presentation at the 54th Annual Meeting and Society of Toxicology (SOT) Meeting at the San Diego Convention Center, San Diego, CA; March 22-26, 2015.
- > Urban, AM, SH Gaffney, L McCarthy, DM Hollins, A Abelmann, K Unice, M Liong, BL Finley, JL Henshaw. 2015. Volatile Organic Compounds Released from Spreading Ground Coffee during a Simulated Industrial Task. Poster presentation at the 54th Annual Meeting and Society of Toxicology (SOT) Meeting at the San Diego Convention Center, San Diego, CA; March 22-26, 2015.
- > Christian WV, LD Oliver, ML Kreider ML and BL Finley. 2014. Toxicology-based cancer causation analysis of CoCr-containing hip implants: A quantitative assessment of in vitro genotoxicity studies. Poster presentation at the 2014 Society for Risk Analysis Annual Meeting, December 7 – 10, 2014. #P133, Plaza Ballroom ABC, 6:00 to 8:00 pm, December 8, 2014. Denver, CO.
- > Pierce, J.S., A. Abelmann, L.J. Spicer, R.E. Adams, B.L. Finley. Diacetyl and 2,3-Pentanedione Exposures Associated with Cigarette Smoking: Implications for Risk Assessment of Food and Flavoring Workers. Presented at the American Industrial Hygiene Conference & Exposition (AIHce); San Antonio, TX; May 31-June 5, 2014.
- > Adams, R.E., M.E. Glynn, J.S. Pierce, and B.L. Finley. 2014. Derivation of A Human Equivalent Concentration for Diacetyl for Hyperplasia of the Bronchiolar Epithelium. Presented at Society of Toxicology 53rd Annual Meeting and ToxExpo; Phoenix, AZ; March 23-27, 2014.
- > Christian, W.V., L.D. Oliver, M.L. Kreider, and B.L. Finley. 2014. 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 and ToxExpo; Phoenix, AZ; March 23-27, 2014.
- > Finley, B.L., J.S. Pierce, K. Neier and L.J. Roberts. 2014. Weight-of-Evidence Evaluation of the Respiratory Effects Associated with Diacetyl. Presented at Society of Toxicology 53rd Annual Meeting and ToxExpo; Phoenix, AZ; March 23-27, 2014.
- > Fritz, H.A., M.E. Glynn, K.E. Neier, J.S. Pierce, A.M. Urban, S.H. Gaffney, and B.L. Finley. 2014. Comparison of the Upper Respiratory Tract Uptake Efficiencies of Vapors in Rats and Mice. Presented at Society of Toxicology 53rd Annual Meeting and ToxExpo; Phoenix, AZ; March 23-27, 2014.
- > Gaffney, S.H, C.J. Ronk, B.L. Finley, J.L. Henshaw, J.S. Pierce, L. McCarthy, J. Lotter, and A. Abelmann. 2014. Naturally-Occurring Airborne Diacetyl Concentrations Resulting from Roasting and Grinding Coffee Beans in an Industrial Setting. Presented at Society of Toxicology 53rd Annual Meeting and ToxExpo; Phoenix, AZ; March 23-27, 2014.
- > Grespin, M.E., E.D. Donovan, R.J. Ward, A.K. Madl, and B.L. Finley. 2014. Asbestos Content of Heavy Equipment Brake-Wear Debris and Associated Airborne Exposure During Brake Work. Presented at Society of Toxicology 53rd Annual Meeting and ToxExpo; Phoenix, AZ; March 23-27, 2014.
- > Kerger, B.D, C.J. Ronk, M.E. Glynn, B.L. Finley, and D.J. Paustenbach. 2014. 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 and ToxExpo; Phoenix, AZ; March 23-27, 2014.
- > Liong, M., M. Kovoichich, B.L. Finley, D.J. Paustenbach, and A.K. Madl. 2014. 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 and ToxExpo; Phoenix, AZ; March 23-27, 2014.
  - > Monnot, A.D., W.V. Christian, B.L. Finley, and D.J. Paustenbach. 2014. 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 and ToxExpo; Phoenix, AZ; March 23-27, 2014.
  - > Neier, K., M.E. Glynn, H. Fritz, A. Urban, S.H. Gaffney, and B.L. Finley. 2014. Quantitative Evaluation Of The Relationship Between Vapor Characteristics And Upper Respiratory Tract Uptake Efficiencies In Rodents Presented at Society of Toxicology 53rd Annual Meeting and ToxExpo; Phoenix, AZ; March 23-27, 2014.
  - > Pierce, J.S., A. Abelmann, L.J. Spicer, R.E. Adams, and B.L. Finley. 2014. Concentrations of Diacetyl and 2,3-Pentanedione in Mainstream Cigarette Smoke: A Comparison to Workplace Exposures. Presented at Society of Toxicology 53rd Annual Meeting and ToxExpo; Phoenix, AZ; March 23-27, 2014.
  - > Thuett, K.A., B.D. Kerger, B.L. Finley, and D.J. Paustenbach. 2014. 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 and ToxExpo; Phoenix, AZ; March 23-27, 2014.
  - > Glynn, M.E., J.S. Pierce, B.H. Williams, L.E. Johns, R. Adhikari and B.L. Finley. 2013. Residential and occupational exposure to wood treating operations and bladder cancer: A meta-analysis. Poster presentation at the 2013 Society for Risk Analysis Annual Meeting, December 8 – 11, 2013. #P36, Key Ballroom, December 9, 2013. Baltimore, MD.
  - > Williams, B.H., J.S. Pierce, M.E. Glynn, L.E. Johns, R. Adhikari and B.L. Finley. Residential and Occupational Exposure to Wood Treating Operations and Risk of Non-Hodgkin Lymphoma: A Meta-Analysis. Poster presentation at the 2013 Society for Risk Analysis Annual Meeting, December 8 – 11, 2013. #P35, Key Ballroom, December 9, 2013. Baltimore, MD.
  - > Monnot, A., A.L. Perez and B.L. Finley. 2013. Establishing Blood Biological Screening Indices for Cobalt Exposure. Invited platform presentation: Society of Environmental Toxicology and Chemistry, 34th Annual Meeting, Nashville, TN, November 11-14, 2013.
  - > Johns, L. E., J. S. Pierce, A. Abelmann, and B. L. Finley. Residential and Occupational Exposure to Wood Treating Operations as Risk Factors for Bladder Cancer. Society for Epidemiologic Research 46th Annual Meeting. June 18-21, 2013. Boston, MA.
  - > Pierce J.S, A. Abelmann, L.J. Spicer, L.E. Johns, L.J. Roberts, H.A. Fritz, M.E. Glynn, and B.L. Finley. 2013. 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 The American Industrial Hygiene Conference & Exposition (AIHce) in Montreal, Quebec, Canada. May 20, 2013; 10:00 AM – 12:00 PM. Presentation Number: SR-401-11

- > Spicer, L.J., J.S. Pierce, M.E. Glynn, A. Abelmann, L.J. Roberts, L.E. Johns, H.A. Fritz, and B.L. Finley . 2013. A Comparison of Workday-Duration Occupational Exposures to Diacetyl to Estimated Exposures Associated with Cigarette Smoking. Session: IH General Practice. Poster presentation at The American Industrial Hygiene Conference & Exposition (AIHce) in Montreal, Quebec, Canada. May 20, 2013; 2:00 PM – 4:00 PM. Presentation Number: SR-402-03
- > Vishnevskaya, L., K.A. Thuett, W.D. Cyrs, P.S. Chapman, D.J. Paustenbach, and B.L. Finley. 2013. Evolution of Warnings and Labels on Encapsulated Asbestos-Containing Products (1930–1990). Session: Legal, Regulatory, Guidelines, Standards. Poster presentation at The American Industrial Hygiene Conference & Exposition (AIHce) in Montreal, Quebec, Canada. May 21, 2013; 10:00 AM – 12:00 PM. Presentation Number: SR-403-08
- > Finley, B.L., B.E. Tvermoes, K.M. Unice, J.M. Otani, D.J. Paustenbach and D.A. Galbraith. 2013. Cobalt whole blood concentrations in healthy adult volunteers following two-weeks of ingesting a cobalt supplement. Presented at the Society of Toxicology's (SOT) 52nd Annual Meeting, March 10-14, 2013 at the Henry B. Gonzalez Convention Center in San Antonio, Texas. March 12, 2013.
- > Kerger, B.D., R. Gerads, B.L. Finley and D.J. Paustenbach. 2013. Method: measuring protein-bound and free cobalt(II) in human serum - size exclusion liquid chromatography with ICP-MS. Presented at the Society of Toxicology's (SOT) 52nd Annual Meeting, March 10-14, 2013 at the Henry B. Gonzalez Convention Center in San Antonio, Texas.
- > Monnot, A.D., S.H. Gaffney, D.J. Paustenbach, and B.L. Finley. 2013. Dose-response relationships for blood cobalt concentrations and associated health effects. Presented at the Society of Toxicology's (SOT) 52nd Annual Meeting, March 10-14, 2013 at the Henry B. Gonzalez Convention Center in San Antonio, Texas.
- > Paustenbach, D.J., B.E. Tvermoes, J.M. Otani, K.M. Unice, B.L. Finley, and D.A. Galbraith. 2013. Cobalt blood concentrations and health effects in adult volunteers during a 90 day cobalt supplement ingestion study. Presented at the Society of Toxicology's (SOT) 52nd Annual Meeting, March 10-14, 2013 at the Henry B. Gonzalez Convention Center in San Antonio, Texas.
- > Thuett, K.A., B.L. Finley, P.K. Scott and D.J. Paustenbach. 2013. Speciation of Chromium Released from Metal-on-Metal Hip Implants. Presented at the Society of Toxicology's (SOT) 52nd Annual Meeting, March 10-14, 2013 at the Henry B. Gonzalez Convention Center in San Antonio, Texas.
- > Tvermoes, B.E., B.L. Finley, J.M. Otani, K.M. Unice, D.J. Paustenbach and D.A. Galbraith. 2013. Effects of cobalt dietary supplementation on cobalt body burden, steady-state levels and selected biochemical parameters. Presented at the Society of Toxicology's (SOT) 52nd Annual Meeting, March 10-14, 2013 at the Henry B. Gonzalez Convention Center in San Antonio, Texas.
- > Finley, B.L., J.S. Pierce, A. Abelmann, L.J. Spicer, R.E. Adams. 2012. Diacetyl Exposure from cigarette smoke: Implications for assessing diacetyl exposure-response in popcorn and flavor manufacturing workers. Presented at the 2012 Society for Risk Analysis (SRA) Annual Meeting; December 9-12, 2012; San Francisco, CA.
- > Monnot, A.D., Gaffney, S.H., Paustenbach, D.J., and Finley, B.L. Derivation of a Chronic Oral Reference Dose for Cobalt. Presented at the 2012 Society for Risk Analysis Annual Meeting; December 9-12, 2012; San Francisco, CA.

- > Roberts, L.J., J.S. Pierce, L.E. Johns, L. Lievens, and B.L. Finley. 2012. Weight of evidence evaluation of diacetyl dose response relationship in popcorn and flavoring worker studies. Presented at the 2012 Society for Risk Analysis (SRA) Annual Meeting; December 9-12, 2012; San Francisco, CA.
- > Tvermoes, B.E., J. Otani, K. Unice, B. Finley, D.J. Paustenbach, D. Galbraith. Investigation of Cobalt Steady-State Levels in Five Healthy Adult Volunteers Taking 14-Days of a Cobalt Supplement. Presented at the 2012 Society for Risk Analysis Annual Meeting; December 9-12, 2012; San Francisco, CA.
- > Abelmann A., J.S. Pierce, L.J. Spicer, R.E. Adams, and B.L. Finley. 2012. Exposure to diacetyl vapors associated with secondhand cigarette smoke. Presented at the 2012 Annual Meeting of The International Society of Exposure Science (ISES). October 28 – November 1, in Seattle, WA.
- > Pierce, J.S., A. Abelmann, L.J. Spicer, R.E. Adams, and B.L. Finley. 2012. Diacetyl exposure from active cigarette smoking: implications for characterizing health risks in popcorn and flavor manufacturing workers. Presented at the 2012 Annual Meeting of The International Society of Exposure Science (ISES). October 28 – November 1, in Seattle, WA.
- > Johns, L.E., J.S. Pierce, L.J. Roberts, L.J. Lievens and B.L. Finley. 2012. Assessment of the exposure-response relationship between diacetyl and respiratory health outcomes among popcorn and flavor manufacturing workers. Presented at the 45th Society for Epidemiologica Research (SER) Annual Meeting. June 27 - 30, in Minneapolis, MN.
- > Pierce, J.S., L.J. Spicer, A. Abelmann, R.E. Adams, L. Roberts, L. Johns, L., D.M. Hollins and B.L. Finley. 2012. Characterization of airborne diacetyl concentrations associated with consuming different types of wine. Presented at the Institute of Food Technologists (IFT) 2012 Annual Meeting & Food Expo June 25 – June 28, in Las Vegas Nevada.
- > Pierce, J.S., A. Abelmann, L.J. Spicer, R.E. Adams, B.L. Finley and S.H. Gaffney. 2012. Characterization of formaldehyde exposure resulting from the use of four professional hair straightening products. Presented at 2012 American Industrial Hygiene Conference & Expo (AIHce), June 16-21, in Indianapolis, IN.
- > Spicer, L.J., J.S. Pierce, A. Abelmann, R.E. Adams, B.L. Finley and S.H. Gaffney. 2012. Analysis of time weighted average concentrations of formaldehyde during keratin hair smoothing treatments. Presented at 2012 American Industrial Hygiene Conference & Expo (AIHce), June 16-21, in Indianapolis, IN.
- > Kreider, M.L., J.M. Panko and B.L. Finley. 2012. Effects of subacute inhalation exposure to tire and road wear particles in rats. Presented at the 2012 Health Effects Institute (HEI) Annual Conference. Chicago, IL, April 15-17, 2012.
- > Adams R., B.L. Finley, J.S. Pierce, A.D. Phelka, D.J. Paustenbach, K. Thuett and C. Barlow. 2012. Derivation of LOAEL and NOAEL for tremolite asbestos. Presented at Society of Toxicology's (SOT) 51st Annual Meeting, March 11–15, 2012, at the Moscone Convention Center in San Francisco, California. March 14, 2012. Exposure Assessment: Case-Specific Characterizations; 9:00 AM - 12:30 PM; Exhibit Hall; 2114 Poster Board -538.
- > Knutsen J.S., B.D. Kerger, B.L. Finley and D.J. Paustenbach. 2012. Human PBPK modeling of benzene inhalation based Chinese worker urinary metabolite data: comparison of human and mouse metabolism. Presented at Society of Toxicology's (SOT) 51st Annual Meeting, March 11–15, 2012, at the Moscone Convention Center

in San Francisco, California. March 14, 2012. Disposition and Pharmacokinetics; 9:00 AM - 12:30 PM; Exhibit Hall; 1893 Poster Board -226.

- > Phelka A., B.L. Finley, J. Pierce, R. Adams, D.J. Paustenbach, K. Thuett and C. Barlow. 2012. Tremolite asbestos exposures associated with the use of commercial products. Presented at Society of Toxicology's (SOT) 51st Annual Meeting, March 11–15, 2012, at the Moscone Convention Center in San Francisco, California. March 14, 2012. Exposure Assessment: Case-Specific Characterizations; 9:00 AM - 12:30 PM; Exhibit Hall; 2115 Poster Board -539.
- > Finley, B.L., S. Gaffney, A. Abelmann, and J.S. Pierce. Evaluation of Pentachlorophenol and PCDD/Fs Exposure as Risk Factors for Multiple Myeloma. International Symposium on Halogenated Persistent Organic Pollutants – Dioxin 2011. August 21-25, 2011. Brussels, Belgium.
- > Hollins, D., D. Galbraith, B. Finley, and J. Pierce. Occupational Exposure to Artificial Butter Flavorings: A State-of-the-Art Analysis. Presentation at American Industrial Hygiene Conference and Expo (AIHce), May 14 – May 19, 2011, Portland, Oregon. PO 121-2. Wednesday May 18, 2011. 10:20am. OCC Oregon 204.
- > Kreider, M., J. Panko, J. McDonald, B. McAtee, B.L. Finley and J. Seagrave. 2011. 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 the Society of Toxicology (SOT) Annual Meeting, Wednesday March 9, 2011.
- > Finley, B.L., L.L.F. Scott and D.A. Galbraith. 2010. Pleural mesothelioma in U.S. auto mechanics: Expected vs. reported cases from 1975-2007. Presented at the 2010 Society for Risk Analysis Conference. December 5-8, 2010. Salt Lake City, UT.
- > Phelka, A.D. and B.L. Finley. 2010. Potential health hazards associated with exposures to asbestos-containing drywall accessory products: A state-of-the-science assessment. Presented at the 2010 Society for Risk Analysis Conference. December 5-8, 2010. Salt Lake City, UT.
- > Hollins, D.M., D.A. Galbraith and B.L. Finley. 2010. Occupational exposure to diacetyl and potential health effects: A weight of evidence analysis. Poster presentation at the 2010 Society for Risk Analysis Conference. Poster #47. December 5-8, 2010. Salt Lake City, UT.
- > Shay, E., K. Thuett and B.L. Finley. 2010. Atrazine in Drinking water: Comparison of measured and estimated peak concentration vs. acute health benchmarks. Poster presentation at the 2010 Society for Risk Analysis Conference. Poster #49. December 5-8, 2010. Salt Lake City, UT.
- > Marwood C., B.L. McAtee, M.L. Kreider, R. Ogle, B.L. Finley and J.M. Panko. 2010. Identification of toxic constituents in tire and road wear particle extracts. Poster presentation at the 2010 Society of Environmental Toxicology and Chemistry (SETAC) Conference. November 7-11, 2010. Portland, OR.
- > Marwood C, B.L. McAtee, M.L. Kreider, B.L. Finley, J.M. Panko. 2010. Chronic toxicity of tire/road wear particles in sediment to aquatic organisms. Poster presentation at the 2010 Society of Environmental Toxicology and Chemistry (SETAC) Conference. November 7-11, 2010. Portland, OR.
- > Fillos, D.J., W.J. Luksemburg, M. Anderle de Saylor, L.L.F. Scott and B.L. Finley. 2010. Measurements of PCDD and PCDF concentrations in wild-caught and farm-raised shrimp from the U.S. retail market. Poster presentation at the 30th

- International Symposium on Halogenated Persistent Organic Pollutants. Abstract #1498, Poster Board #59. September 12-17, 2010. San Antonio, TX.
- > Fillos, D.J., W.J. Luksemburg and B.L. Finley. 2010. TEQ calculations and daily intake estimates associated with PCBs in shrimp from the U.S. retail market. Poster presentation at the 30th International Symposium on Halogenated Persistent Organic Pollutants. Abstract #1624, Poster Board #609. September 12-17, 2010. San Antonio, TX.
  - > Scott, P.K. Fillos, D., W.J. Luksemburg and B.L. Finley. 2010. Principal components analysis (PCA) of PCB concentrations in shrimp from the U.S. retail market. Poster presentation at the 30th International Symposium on Halogenated Persistent Organic Pollutants. Abstract #1497, Poster Board #259. September 12-17, 2010. San Antonio, TX.
  - > Scott, L.F., D.A. Galbraith and B.L. Finley. 2010. Mesothelioma in U.S. automotive mechanics: Reported vs expected number of cases in 1975-2007. Poster presentation at the Society of Toxicology's Annual Meeting. #2312PB643. March 7-11, 2010. Salt Lake City, UT.
  - > Donovan, B., E.P. Donovan, S.H. Gaffney, P. Scott and B.L. Finley. 2010. Human health risks associated with fish and shellfish consumption in an industrial leasehold in a southern California bay. Poster presentation at the Society of Toxicology's Annual Meeting #2315PB646. March 7-11, 2010. Salt Lake City, UT.
  - > McAtee, B.L., Kreider, M.L., Panko, J.M., Sweet, L.I., Finley, B.L. Biological leaching of metals from respirable tire wear particles. Presentation at 46th Congress of the European Societies of Toxicology. September 13-16, 2009. Dresden, Germany.
  - > Panko, J.M., McAtee, B.L., Kreider, M.L., Gustafsson, M., Blomqvist, G., Gudmundsson, A., Sweet, L.I., Finley, B.L. Physio-Chemical Analysis of Airborne Tire Wear Particles. Presentation at 46th Congress of the European Societies of Toxicology. September 13-16, 2009. Dresden, Germany.
  - > Finley, B.L. 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 and Expo (AIHce), May 31 - Jun 4, 2009, Toronto, Canada
  - > Scott, L.F., J. Keenan, B.L. Finley and S.H Gaffney. 2009. Using blood measurements to assess exposure to dioxin/furans: Potential influence of elevated detection limits. Presented at the Society of Toxicology's Annual Meeting. #1621 PB 533. March 15-19, 2009. Baltimore, MD.
  - > Williams, C., E.C. Shay, K.M. Unice, P.K. Scott and B.L. Finley. 2009. Evaluation of fluoropolymer toxicity from outbreak reports and animal studies. Poster presentation at The Society of Toxicology's Annual Meeting. #1208 PB 533. March 15-19, 2009. Baltimore, MD.
  - > Donovan, E.P., B.L. Donovan, S.H. Gaffney, P.K. Scott and B.L. Finley. 2008. Human health risks associated with fish and shellfish consumption in an industrialized leasehold in a southern California bay. Abstract #1723. Presented at the International Society for Environmental Epidemiology & International Exposure Analysis (ISEE/ISEA) Joint Annual Conference, October 12-16, 2008. Pasadena, CA.
  - > Finley, B.L. 2008. A screening level evaluation of noncancer hazards for occupational exposures to decachlorobiphenyl from indoor dust. Poster presentation



- at the 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs) – Dioxin Conference. #321. August 17-22, 2008. Birmingham, England, U.K.
- > Finley, B.L. 2008. Site-specific dermal risk assessment for industrial workers. Poster presentation at the 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs) – Dioxin Conference. #305. August 17-22, 2008. Birmingham, England, U.K.
  - > Finley, B.L., A.K. Madl, D.M. Murbach, K.A. Fehling, D.J. Paustenbach and G.C. Jiang. 2008. A study of airborne chrysotile concentrations associated with handling, unpacking and repacking boxes of automobile clutch discs (circa 1950-1980). Abstract # 1458. Presented at Society of Toxicology's 47th Annual Meeting, March 16-20, 2008. Seattle, WA.
  - > Haws, L.C., M.J. DeVito, J.N. Walker, L.S. Birnbaum, K.M. Unice, P. Scott, M.A. Harris, J.A. Tachovsky, W.H. Farland, B.L. Finley and D.F. Staskal. 2008. Development of weighted distributions of REPs for dioxin-like compounds: implications for risk assessment. Abstract # 1178. Presented at Society of Toxicology's 47th Annual Meeting, March 16-20, 2008. Seattle, WA.
  - > Haws, L.C., M.J. DeVito, J.N. Walker, L.S. Birnbaum, K.M. Unice, P. Scott, M.A. Harris, J.A. Tachovsky, W.H. Farland, B. Finley, and D.F. Staskal. Development of Weighted Distributions of REPs for Dioxin-Like Compounds: Implications for Risk Assessment. Poster presentation at the Society of Toxicology's Annual Meeting. #617. March 16-20, 2008. Seattle, WA.
  - > Jiang, G.C., A.K. Madl, D.J. Paustenbach and B.L. Finley. 2008. Detailed asbestos fiber size and morphology analyses of automobile clutch discs, brake pads and brake shoes. Abstract # 1468. Presented at Society of Toxicology's 47th Annual Meeting, March 16-20, 2008. Seattle, WA.
  - > Phelka, A.D., J.A. Clarke, D.J. Paustenbach and B.L. Finley. 2008. The importance of asbestos fiber length as a predictor of potency for asbestos-related disease. Abstract # 1185. Presented at Society of Toxicology's 47th Annual Meeting, March 16-20, 2008. Seattle, WA.
  - > Scott, L., L. Haws, D.F. Staskal, M. Harris and B.L. Finley. 2008. Evaluation of dioxin-like compounds in workers from a primary magnesium production facility relative to levels observed in the general US population. Abstract # 1741. Presented at Society of Toxicology's 47th Annual Meeting, March 16-20, 2008. Seattle, WA.
  - > Staskal, D.E., E.P. Donovan, K.M. Unice, L.C. Haws, J. Roberts, B.L. Finley and M. Harris. 2008. Human health risks associated with exposure to pathogens in waters and sediments of the lower Passaic River. Abstract # 1800. Presented at Society of Toxicology's 47th Annual Meeting, March 16-20, 2008. Seattle, WA.
  - > Jiang G.C-T., A.K. Madl, D.M. Murbach, K.A. Fehling, B.L. Finley. Exposure to Chrysotile Asbestos Associated with Handling, Unpacking, and Repacking Boxes of Automobile Clutch Discs. 17<sup>th</sup> Annual Conference of the International Society for Exposure Analysis. October 14-18, 2007. Raleigh, NC.
  - > Finley, B.L., E.J. Morinello and K.A. Fehling. 2007. Relative oral bioavailability of polychlorinated dibenzo-p-dioxins / dibenzofurans in soil. Abstract # P258. Presented at Dioxin 2007. September 2-7, 2007. Tokyo, Japan.
  - > Haws, L.C., L.L.F. Scott, D.F. Staskal, M.A. Harris and B.L. Finley. 2007. Dioxin-like compounds in workers at a primary magnesium production facility. Abstract # P261. Presented at Dioxin 2007. September 2-7, 2007. Tokyo, Japan.



- > Finley, B.L. and J. Pierce. 2007. Characterization of risks to welders due to exposures to asbestos in welding rod flux. Abstract #1922-211. Presented at Society of Toxicology's 46th Annual Meeting, March 25-29, 2007. Charlotte, NC.
- > Haws, L., N. Walker, M. DeVito, L. Birnbaum, K. Unice, P. Scott, M. Harris, W. Farland, B.L. Finley and D. Staskal. 2007. Development of weighted distributions of reps for dioxin-like compounds (DLCs). Abstract # 1560. Presented at Society of Toxicology's 46th Annual Meeting, March 25-29, 2007. Charlotte, NC.
- > Morinello, E.J., J.M. Warmerdam and B.L. Finley. 2007. Absolute oral bioavailability of polychlorinated dibenzo-p-dioxins/dibenzofurans in soil. Abstract # 825-302. Presented at Society of Toxicology's 46th Annual Meeting. March 25-29, 2007. Charlotte, NC.
- > Moy, P., J. Pierce and B.L. Finley. 2007. Assessment of health effects resulting from possible emissions from a pesticide formulation facility. Abstract # 1540-415. Presented at Society of Toxicology's 46th Annual Meeting. March 25-29, 2007. Charlotte, NC.
- > Pierce, J., J. Warmerdam and B.L. Finley. 2007. Estimating health risks in workers aboard crude oil tankers due to exposure to n-hexane, toluene and benzene. Abstract # 1999-218. Presented at Society of Toxicology's 46th Annual Meeting. March 25-29, 2007. Charlotte, NC.
- > Roberts, J., D.A. Galbraith and B.L. Finley. 2007. A comprehensive review of occupational exposure to diacetyl in microwave popcorn facilities. Abstract # 2000-219. Presented at Society of Toxicology's 46th Annual Meeting. March 25-29, 2007. Charlotte, NC.
- > Staskal, D., E. Donovan, J. Roberts, K. Unice, B.L. Finley and M. Harris. 2007. Human health risk associated with exposure to pathogen-contaminated sediments. Abstract # 1618-120. Presented at Society of Toxicology's 46th Annual Meeting. March 25-29, 2007. Charlotte, NC.
- > Warmerdam, J.M., E.J. Morinello and B.L. Finley. 2007. Relative oral bioavailability of polychlorinated dibenzo-p-dioxins/dibenzofurans in soil. Abstract # 824-301. Presented at Society of Toxicology's 46th Annual Meeting. March 25-29, 2007. Charlotte, NC.
- > Paustenbach, D.J., J.R. Kuykendall, B.L. Finley, J.M. Warmerdam, and P.P. Moy. Presented by J.S. Knutsen. Factors Affecting Bioaccessibility and Bioavailability of Hexavalent Chromium and Dioxin Contaminants in Soil, and Their Relevance to Risk Assessment. International Conference on Environmental Epidemiology and Exposure. September 2-6, 2006. #MS1-05. Paris, France.
- > Haws, L.C., M.J. DeVito, L.S. Birnbaum, N.J. Walker, P.K. Scott, P.K., K.M. Unice, M.A. Harris, W.H. Farland, B.L. Finley, and D.F. Staskal. An alternative method for establishing TEFs for dioxin-like compounds. Part 2. Development of an approach to quantitatively weight the underlying potency data. 26<sup>th</sup> International Symposium on Halogenated Persistent Organic Pollutants-Dioxin. August 21-25, 2006. Oslo, Norway.
- > Scott, P.K., L.C. Haws, D.F. Staskal, L.S. Birnbaum, N.J. Walker, M.J. DeVito, M.A. Harris, W.H. Farland, B.L. Finley, and K.M. Unice. An alternative method for establishing TEFs for dioxin-like compounds. Part 1. Evaluation of decision analysis methods for use in weighting relative potency data. 26<sup>th</sup> International Symposium on Halogenated Environmental Organic Pollutants and POPs-Dioxin. August 21-25, 2006. Oslo, Norway.

- > Staskal, D.F., K. Unice, N.J. Walker, M.J. DeVito, L.S. Birnbaum, P.K. Scott, M.A. Harris, W.H. Farland, B.L. Finley, and L.C. Haws. 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. International Symposium on Halogenated Persistent Organic Pollutants and POPs-Dioxin. August 21-25, 2006. # 68. Oslo, Norway.
- > Hong, S., D. Proctor and B.L. Finley. 2006. Assessment of L.A. sewage spills on Santa Monica Bay beaches. Abstract #1612. Presented at Society of Toxicology's 45th Annual Meeting. March 5-9, 2006. San Diego, CA.
- > Mellinger, K.N., J.R. Kuykendall, K.L. Miller, A.V. Cain, B.L. Finley and D.J. Paustenbach. 2006. DNA-Protein crosslinks as a potential biomonitor of hexavalent chromium exposure in rainbow trout. Abstract # 1264. Presented at Society of Toxicology's 45th Annual Meeting. March 5-9, 2006. San Diego, CA.
- > Perry, M.W., J.R. Kuykendall, K.L. Miller, K.N. Mellinger, A.V. Cain, B.L. Finley and D.J. Paustenbach. 2006. Persistence of DNA-Protein crosslinks in erythrocytes of channel catfish after acute hexavalent chromium exposure. Abstract # 1266. Presented at Society of Toxicology's 45th Annual Meeting. March 5-9, 2006. San Diego, CA.
- > Pierce, J.S. and B.L. Finley. 2006. Characterization of chrysotile asbestos exposures for garage mechanics. Abstract #:854. Presented at Society of Toxicology's 45th Annual Meeting. March 5-9, 2006. San Diego, CA.
- > Scott, P., M.A. Harris, B.L. Finley, L. Ferriby, and R. Budinsky. Development of a Relative Estimate of Potency Distribution for 2,3,7,8-TCDF: A Proposed Approach. 25<sup>th</sup> International Symposium on Halogenated Environmental Organic Pollutants and POPs-Dioxin. August 21-26, 2005. Toronto, Canada.
- > Finley, B.L., F. Mowat, R. Richter, G. Brobry, V. Craven and P. Sheehan. 2005. Evaluation of Proposed Threshold doses for chrysotile exposure and respiratory diseases. Abstract # 409. Presented at Society of Toxicology's 44th Annual Meeting. March 6-10. New Orleans, LA.
- > Harris, M.A. and B.L. Finley. 2005. The TCDD TEQ in human blood from dietary vs. anthropogenic dioxins: A dietary study. Abstract #392. Presented at Society of Toxicology's 44th Annual Meeting. March 6-10. New Orleans, LA.
- > Finley, B.L., R.O. Richter, F.S. Mowat, S. Mlynarek, D.J. Paustenbach, J.L. Warmerdam, and P.J. Sheehan. Cumulative Occupational Asbestos Exposures of U.S. Brake Repair Mechanics. Annual Meeting of the Society for Risk Analysis Conference. December 5-8, 2004. #T6.2. Palm Springs, CA.
- > Paustenbach, D.J., R.O. Richter, B.L. Finley, P. Williams, and P.J. Sheehan. Evaluating Asbestos Exposures Associated with Vehicle Brake Cleaning and Machining Activities using Short-Term and TWA Measurements. Annual Meeting of the Society for Risk Analysis. December 5-8, 2004. #T6.3. Palm Springs, CA.
- > Richter, R.O., B.L. Finley, P.J., D.J. Paustenbach, and P. Williams. Short-Term Asbestos Exposures Associated with Vehicle Brake Cleaning and Machining Activities from 1970 to 1990. International Society of Exposure Analysis' Annual Conference. October 17-21, 2004. #W2D-01. Philadelphia, PA.
- > Connor, K., M.A. Harris, M.A. Edwards, A. Chu, G. Clark, and B.L. Finley. Estimating the total TEQ in human blood from naturally-occurring vs.. anthropogenic

- dioxins: a dietary study. 24<sup>th</sup> International Symposium of Halogenated Environmental Organic Pollutants and POPs-Dioxin. September 6-10, 2004. Berlin, Germany.
- > Haws, L.C., M.A. Harris, S. Su, N. Walker, L. Birnbaum, M.J. DeVito, W. Farland, K.Connor, A. Santamaria, and B.L. Finley. A preliminary approach to characterizing variability and uncertainty in the mammalian PCDD/F and PCB TEFs. International Symposium of Halogenated Environmental Organic Pollutants and POPs-Dioxin. September 6-10, 2004. Berlin, Germany.
  - > Haws, L.C., M.A. Harris, S. Su, L.Birnbaum, M.J. DeVito, W. Farland, N. Walker, K.Connor, A. Santamaria, and B.L. Finley. Development of a refined database of relative potency estimates to facilitate better characterization of variability and uncertainty in the current mammalian TEFs for PCDDs, PCDFs, and dioxin-like PCBs. International Symposium of Halogenated Environmental Organic Pollutants and POPs-Dioxin. September 6-10, 2004. Berlin, Germany.
  - > Li, A.A., P. Mink, L. McIntosh, J. Teta and B.L. Finley. 2004. Evaluation of epidemiological and animal data associating pesticides with Parkinson's Disease. Abstract #1352. Presented at Society of Toxicology's 43rd Annual Meeting. March 21-25. Baltimore, MD.
  - > Santamaria, A., A. Li, F. Mowat, C. Cushing and B.L. Finley. 2004. Potential neurological effects of manganese exposure during welding: A "State-of-the-Science" review. Abstract # 394. Presented at Society of Toxicology's 43rd Annual Meeting. March 21-25. Baltimore, MD.
  - > Paustenbach, D. J., G. Brorby, and B.L. Finley. Environmental and Occupational Health Hazards Associated with the Presence of Asbestos in Brake Linings and Pads (1900 to Present). Society For Risk Analysis Annual Meeting. December 7-10, 2003. #T14.6. Baltimore, MD.
  - > Connor, K.T. and B.L. Finley. 2003. A framework for evaluating relative potency data in the developments of toxicity equivalency factors (TEFs). Abstract # 664. Presented at Society of Toxicology's 42nd Annual Meeting. March 9-14. Salt Lake City, UT.
  - > Cushing, C.A., K.C. Holicky, D.W. Pyatt, D. Staskal, B.L. Finley, D.J. Paustenbach and S.M. Hays. 2003. Estimated children's exposure to decabromodiphenyl oxide in the U.S. Abstract #1906. Presented at Society of Toxicology's 42nd Annual Meeting. March 9-14. Salt Lake City, UT.
  - > Paustenbach, D.J., B.L. Finley, and A.K. Madl. Quantitating dose and risk: A case involving chromium in groundwater. Workshop on Recent Improvements in the Practice of Risk Assessment as Illustrated through Case Studies. 18th Annual International Conference on Contaminated Soils, Sediments, and Water. October 22, 2002. Amherst, MA.
  - > Finley, B.L. and S.H. Su. 2002. Contaminated sediments and bioaccumulation criteria: procedures for evaluating dredging and open ocean disposal permits in the New York/New Jersey harbor. Presented at Proceedings of International Conference on Remediation of Contaminated Sediments. October 10-12, 2002. Venice, Italy.
  - > Madl, A.K., B.L. Finley, J. Warmerdam, R. Richter and D.J. Paustenbach. 2001. Contributions of individual truck operations to ambient diesel particulate matter (DPM) concentrations: Implications for Risk Assessment and Management. Abstract #2063. Presented at Society of Toxicology's 40th Annual Meeting. March 25-29. San Francisco, CA.

- > Proctor, D.M., B.L. Finley and D.J. Paustenbach. 2001. Is hexavalent chromium carcinogenic via the oral route of exposure an evaluation of the state of the science and implications for drinking water regulations? Abstract # 1499. Presented at Society of Toxicology's 40th Annual Meeting. March 25-29. San Francisco, CA.
- > Finley, B.L., K. Fehling, J. Green and S.M. Hays. 2000. The presence of the Ah-receptor agonists in the diet: Implications for risk assessment and risk management. Presented at the International Dioxin Meeting 2000. Monterey, CA.
- > Finley, B.L., K. Conner, J. Otani and P.K. Scott. 2000. Weighted PCDD/F and PCB REP distributions and their use in probabilistic risk assessment. Presented at the International Dioxin Meeting 2000. Monterey, CA.
- > Bernhardt, T., B.L. Finley, M. Goodman and K. Connor. 2000. An estrogen equivalents comparison of daily doses of bisphenol A from polycarbonate baby bottles vs. naturally-occurring compounds. Abstract #1201. Presented at Society of Toxicology's 39th Annual Meeting. March 19-23. Philadelphia, PA.
- > Connor, K., V. Craven, N. Wilson, T. Iannuzzi, D. Ludwig and B.L. Finley. 2000. A probabilistic human health risk assessment for the intake of polychlorinated biphenyls (PCBS) in ANGLERS OF THE Lower Fox River, Wisconsin. Abstract # 1173. Presented at Society of Toxicology's 39th Annual Meeting. March 19-23. Philadelphia, PA.
- > Exuzides, A. and B.L. Finley. 2000. A study of latex allergy using the national health and nutrition examination survey. Abstract # 590. Presented at Society of Toxicology's 39th Annual Meeting. March 19-23. Philadelphia, PA.
- > Finley, B.L., D.J. Cher and S.M. Hays. 2000. Natural rubber latex allergy: A critical review. Abstract # 1160. Presented at Society of Toxicology's 39th Annual Meeting. March 19-23. Philadelphia, PA.
- > Proctor, D.M., J.R. Nethercott, M.M. Fredrick, B.L. Finley and D.J. Paustenbach. 1997. Assessing the potential for elicitation of allergic contact dermatitis in Cr(VI)-sensitized subjects following prolonged contact with Cr(VI) in solution. Abstract # 1051. Presented at Society of Toxicology's 36th Annual Meeting. March 9-13. Cincinnati, Ohio.
- > Chute, S.M., S.K. Overman, B.D. Kerger, B.L. Finley and D.J. Paustenbach. 1996. The chromium (VI) reductive capacity of household beverages: implications for risk assessment. Abstract #37. Presented at Society of Toxicology's 35th Annual Meeting. March 10-14. Anaheim, CA.
- > Clark, J.J.J., G.E. Corbett, B.D. Kerger, B.L. Finley and D.J. Paustenbach. 1996. Dermal uptake of hexavalent chromium in human volunteers: Measures of systematic uptake from immersion in water at 22 ppm. Abstract # 74. Presented at Society of Toxicology's 35th Annual Meeting. March 10-14. Anaheim, CA.
- > Corbett, G.C., E. O'Flaherty, B.D. Kerger, B.L. Finley and D.J. Paustenbach. 1996. Reduction kinetics of hexavalent chromium in human blood. Abstract #77. Presented at Society of Toxicology's 35th Annual Meeting. March 10-14. Anaheim, CA.
- > Dodge, D.G., J.J.J Clark, B.D. Kerger, R.O. Richter, B.L. Finley and D.J. Paustenbach. 1996. Assessment of airborne hexavalent chromium in the home following use of contaminated tapwater. Abstract #600. Presented at Society of Toxicology's 35th Annual Meeting. March 10-14. Anaheim, CA.
- > Finley, B.L., B.D. Kerger, G.C. Corbett and D.J. Paustenbach. 1996. Pharmacokinetics of drinking water exposure to selected chromium (III and VI)

- ompounds in human volunteers. Abstract #73. Presented at Society of Toxicology's 35th Annual Meeting. March 10-14. Anaheim, CA.
- > Kerger, B.D., B.L. Finley, D.J. Paustenbach and E. O'Flaherty. 1996. A Physiologically-based pharmacokinetic model for ingestion of chromium (III and VI) in drinking water: Validation with Human Studies. Abstract #1282. Presented at Society of Toxicology's 35th Annual Meeting. March 10-14. Anaheim, CA.
  - > Kuykendall, J.R., S.K. Overman, B.D. Kerger, B.L. Finley and D.J. Paustenbach. Testing for DNA-protein crosslinking after drinking water exposure to chromium (III and VI) in human volunteers. Abstract #76. Presented at Society of Toxicology's 35th Annual Meeting. March 10-14. Anaheim, CA.
  - > Paustenbach, D.J., S.M. Hays, B.D. Kerger and B.L. Finley. 1996. An analysis of interindividual variability in uptake and elimination of chromium from human volunteers. Abstract #180. Presented at Society of Toxicology's 35th Annual Meeting. March 10-14. Anaheim, CA.
  - > Finley, B.L., R.L. Norton and M.L. Gargas. 1995. Urinary chromium concentrations in humans following ingestion of safe doses of hexavalent and trivalent chromium: implications for biomonitoring. *The Toxicologist* 15:1036. Presented at the 34th Annual Meeting of the Society of Toxicology. Baltimore, MD.
  - > Kerger, B.D., B.L. Finley and D.J. Paustenbach. 1995. Cost-benefit analysis of California policy on cancer risk: A case study on chromium (VI). Abstract #203. Presented at Society of Toxicology's 34th Annual Meeting. March 5-9. Baltimore, MD.
  - > Gargas, M.L., B.L. Finley, R.L. Norton, D.M. Proctor and D. J. Paustenbach. 1994. Biomonitoring of chromium (Cr) exposure by urinary excretion: bioavailability and sampling design. *The Toxicologist* 14:383. Presented at the 1994 Society of Toxicology Meeting. Dallas, TX.
  - > Gargas, M.L., P.K. Scott, B.L. Finley and R.H. Reitz. 1994. Refinements in the exposure assessment process. Presented at the Conference on Temporal Aspects in Risk Assessment for Non-Cancer Endpoints. April 18-20, 1994. Wright-Patterson AFB, OH.
  - > Malsch, P.A., D.M. Proctor and B.L. Finley. 1994. Estimation of chromium inhalation RfC by the benchmark dose method. Presented at the Society of Toxicology 33rd Annual Meeting.
  - > Finley, B.L., D.M. Proctor and D.J. Paustenbach. 1993. An alternative to the USEPA's proposed inhalation reference concentrations for hexavalent chromium. Abstract #1643. Presented at 32nd Annual Meeting of the Society of Toxicology, New Orleans, LA.
  - > Gargas, M.L., M.A. Bono, P.K. Scott, B.L. Finley and D.J. Paustenbach. 1993. Approaches to assessing human exposure to soil contaminants at wood preserving facilities. *The Toxicologist* 13:1045. Presented at the 32nd Annual Meeting of the Society of Toxicology. March 14-18, 1993. New Orleans, LA.
  - > Proctor, D.M. and B.L. Finley. 1993. A methodology for setting soil cleanup goals based on protection of allergic contact dermatitis. Presented at the Society for Risk Analysis Annual Meeting. December 5-8, 1993.
  - > Finley, B.L., M. Harris and D.J. Paustenbach. 1991. Recent changes in regulatory toxicity rankings for wood-treating chemicals and their impact on risk assessment



and remediation at wood-treating sites. Presented at the American Wood Preservers Institute. Scottsdale, AZ.

- > Harris, M.A., B.L. Finley, R.J. Wenning and D.J. Paustenbach. 1991. Evaluation of potential sources of 1,2,8,9-TCDD in aquatic biota from Newark Bay. Abstract #729. Presented at Society of Toxicology's 30th Annual Meeting.
- > Wenning, R.J., M.A. Harris, M.J. Unga, B.L. Finley and D.J. Paustenbach. 1991. PCDD and PCDF fingerprint patterns in surficial sediments from the lower Passaic River and Newark Bay using multivariate statistics. Abstract #446. Presented at 12th Annual Meeting of Society of Environmental Toxicology and Chemistry. November 3-7, 1991. Seattle, WA.
- > Finley, B.L., R.J. Wenning, M.J. Unga, S. Huntley and D.J. Paustenbach. 1990. PCDDs and PCDFs in surficial sediments from the lower Passaic River and Newark Bay. pp. 409-414. In: Proc. Presented at 10th International Symposium on Chlorinated Dioxin and Related Compounds.
- > Finley, B.L., J. Jernigan, R.J. Wenning and D.J. Paustenbach. 1990. Evaluation of potential sources of 1,2,8,9-TCDD in aquatic biota from Newark Bay. Abstract #P023. Presented at 11th Annual Meeting of the Society of Environmental Toxicology and Chemistry. November 11-15, 1990. Washington, DC.
- > Finley, B.L. and B.D. Hammock. 1987. Introduction of microsomal cholesterol epoxide hydrolase by Clofibrate. Abstract #86. Presented at Society of Toxicology's 26th Annual Meeting.
- > Finley, B.L. and G.S. Yost. 1986. Isolation and partial characterization of ethanol-induced UDP-gluconyltransferase from rabbit hepatic microsomes. Abstract #46. Presented at Society of Toxicology's 25th Annual Meeting.
- > Finley, B.L. and G.S. Yost. 1985. Stereoselective glucuronidation in rabbit hepatic microsomes. Abstract #141. Presented at Society of Toxicology's 24th Annual Meeting.
- > Finley, B.L. 1986. Characterization and isolation of ethanol-induced UDP-Glucuronyltransferase. This research addressed the issue of stereo-selective metabolism of chiral drugs such as oxazepam. PhD Research Thesis, Washington State University.