Deborah Proctor

CHIEF BUSINESS DEVELOPMENT OFFICER

MANAGING PRINCIPAL SCIENTIST

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Ms. Deborah Proctor has more than 30 years of experience in environmental and occupational health risk assessment, specializing in applied toxicology, mode-of-action evaluations for chemical carcinogens, air toxics and air pollution risk assessment, exposure reconstruction, and quantitative dose-response analysis for the purpose of developing toxicity criteria.

Ms. Proctor has technical expertise for assessing the potential human health risk associated with contaminated air, soil, sediments, groundwater, biota, and consumer products; evaluating failure-to-warn litigation claims pursuant to California Proposition 65, including determination of Safe Harbor Levels; designing risk-based site investigations; assessing the environmental fate and toxicity of metals in the environment; determining the bioavailability of metals in soil and solid media; and risk/hazard communications. Ms. Proctor has conducted studies of oral and inhalation bioaccessibility for metals in alloys, slags, and affected soil, dust, and baghouse dust, and has designed and conducted relative bioavailability studies for cobalt, nickel, and manganese. Ms. Proctor uses state-of-the-art scientific approaches to evaluate potential hazards and develop health-protective and science-driven remediation goals. She provides technical comments to regulatory agencies on policy and guidance documents, and technical support for public communication. Ms. Proctor has designed studies involving human volunteers and is experienced with the use of Internal Review Boards (IRBs) and the ethical requirements and considerations associated with research involving humans.

Ms. Proctor is a nationally recognized expert regarding the potential health risks associated with occupational and environmental exposure to chromium. She has published extensively in this field and managed research projects that have been used to develop federal and state regulatory health criteria. Additionally, she has extensive experience in metals risk assessment and specific expertise for evaluating nickel, cobalt, titanium, manganese, lead, vanadium, beryllium, and arsenic.

Ms. Proctor is a subject matter expert regarding human health and environmental applications of steel slag and heavy metals in the environment. She has experience using physiologically based pharmacokinetic (PBPK) modeling in risk assessment for chromium, lead, manganese, and perchlorate.

Ms. Proctor's research has been applied to support regulatory decisions and inform health-based criteria. Specific examples include the United States Environmental Protection Agency (EPA) Inhalation Reference Concentration for hexavalent chromium using Malsh et al. (1994), the United States Occupational Safety and Health Administration (OSHA) risk assessment for the 2006 Hexavalent Chromium Rule and revised Permissible Exposure Limit using Luippold et al. (2003); Crump et al. (2003), and Proctor et al. (2003; 2004), EPA Office of Prevention, Pesticides and Toxic Substances 2008 Reregistration Eligibility Decision (RED) for Chromated Arsenicals using Technical Study Reports FPRL #012506 and FPRL #012406; and the New Jersey Department of Environmental Protection Soil Cleanup Criteria for dermal contact with hexavalent chromium using Fowler et al. (1999). She has published an adverse outcome pathway (AOP) analysis for rodent forestomach tumors by nongenotoxic initiating events (Proctor et al., 2018), and an AOP framework for small intestinal tumors in mice (Bhat et al. 2020).

Ms. Proctor is a regular science peer reviewer for the *Journal of Applied Toxicology*, *Toxicology*, *Regulatory Toxicology and Pharmacology*, *Chemico-Biological Interactions*, *Journal of Occupational and Environmental Medicine,* and *PLOS One,*

ACADEMIC CREDENTIALS

1988	B.S., Environmental Toxicology, University of California, Davis
1996-1998	Graduate Studies, Epidemiology, University of Pittsburgh

PROFESSIONAL AFFILIATIONS

Society for Risk Analysis (member)

Association for Environmental Health Sciences (Scientific Review Board member)

International Society of Exposure Assessment (member)

International Society of Environmental Epidemiology (member)

Society of Toxicology (Councilor, Risk Assessment Specialty Section [RASS])

PUBLICATION AND PRESENTATION AWARDS

Society of Toxicology (SOT) 2025

Awarded Second Place for Best Risk Assessment Abstract at the Society of Toxicology Annual Meeting (Proctor DM, Thompson C) by the Risk Assessment Specialty Section (RASS), Orlando, FL.

SOT 2014

Awarded Top 10 Risk Assessment Presentations at the Society of Toxicology Annual Meeting (Proctor DM, Suh M, Tachovsky JA, Abraham L, Hixon JG, Brorby GP, Campleman SL) by the RASS, Phoenix, AZ.

SOT 2013

Awarded for three of the Top Ten Risk Assessment Presentations at the Society of Toxicology Annual Meeting (Kirman et al., Thompson et al., Kopec et al.) by the RASS, San Antonio, TX.

SOT 2012
Awarded Top Nine Published Papers Advancing the Science of Risk Assessment (Thompson CM, Haws LC, Harris MA, Gatto NM, Proctor DM) by the RASS, San Francisco, CA.

SOT 2004
Awarded Top Five Risk Assessment Presentations at the Society of Toxicology Annual Meeting (Leung H, Madl A, Proctor D, Hays S, Cohen E) by the RASS, Baltimore, MD.

SOT 2002
Awarded Top Five Risk Assessment Presentations at the Society of Toxicology Annual Meeting (Crump K and Proctor D) by the RASS, Nashville, TN.

MANUSCRIPTS

Allen BC, Vincent MJ, Lipworth L, Panko JM, Suh M, Jiang X, Mumma MT, **Proctor DM**. 2025. Lung cancer risk assessment associated with exposure to hexavalent chromium: Results of pooled analysis of three cohorts. J Occup Environ Hyg 22(10):821-835; doi: 10.1080/15459624.2025.2502491.

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

Proctor D, Jiang X, Reichert H, Thompson C. 2025. Why rat oral cavity tumors should not be the basis of quantitative cancer risk assessment for oral exposure to hexavalent chromium. Toxicol Sci 208(1):42-47; doi: 10.1093/toxsci/kfaf112.

Perry CS, Verwiel AH, Covington TR, **Proctor DM**. 2024. PBPK modeling demonstrates that exposure time adjustment is unnecessary for setting an acute manganese inhalation exposure guideline. Regul Toxicol Pharmacol 153(Nov):105698; doi: 10.1016/j.yrtph.2024.105698.

Mittal L, Perry C, Blanchette AD, **Proctor DM**. 2024. Probabilistic risk assessment of residential exposure to electric arc furnace steel slag using Bayesian model of relative bioavailability and PBPK modeling of manganese. Risk Anal 44(9):2169–2186; doi: 10.1111/risa.14309.

Perry CS, Blanchette AD, Vivanco SN, Verwiel AH, **Proctor DM**. 2023. Use of physiologically based pharmacokinetic modeling to support development of an acute (24-hour) health-based inhalation guideline for manganese. Regul Toxicol Pharmacol 145(Dec):105518; doi: 10.1016/j.yrtph.2023.105518.

Proctor DM, Vivanco SN, Blanchette AD. 2023. Manganese relative oral bioavailability in electric arc furnace steel slag is influenced by high iron content and low bioaccessibility. Toxicol Sci 93(2):234–243; doi: 10.1093/toxsci/kfad037.

Thompson CM, **Proctor DM**, Harris MA. 2023. Letter to "Chepelev et al. Establishing a quantitative framework for regulatory interpretation of genetic toxicity dose-response data: Margin of exposure case study of 48 compounds with both in vivo mutagenicity and carcinogenicity dose-response data." Environ Mol Mutagen 64(4):259–260; doi: 10.1002/em.22537.

Proctor DM, Bhat V, Suh M, Reichert H, Jiang X, Thompson CM. 2021. Inhalation cancer risk assessment for environmental exposure to hexavalent chromium: Comparison of margin-of-exposure and linear extrapolation approaches. Regul Toxicol Pharmacol 124(Aug):104969; doi: 10.1016/j.yrtph.2021.104969.

Bhat VS, Cohen SM, Gordon EB, Wood CE, Cullen JM, Harris MA, **Proctor DM**, Thompson CM. 2020. An adverse outcome pathway for small intestinal tumors in mice involving chronic cytotoxicity and regenerative hyperplasia: A case study with hexavalent chromium, captan, and folpet. Crit Rev Toxicol 50(8):685-706; doi: 10.1080/10408444.2020.1823934.

Thompson CM, Donahue DA, Hobbs C, Costecalde Y, Franzen A, Suh M, **Proctor DM**, Harris MA. 2020. Exposure to environmentally-relevant concentrations of hexavalent chromium does not induce ovarian toxicity in mice. Regul Toxicol Pharmacol 116(Oct):104729; doi: 10.1016/j.yrtph.2020.104729.

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

Rager JE, Suh M, Chappell G, Thompson CM, **Proctor DM**. 2019. Review of transcriptomic responses to hexavalent chromium exposure in lung cells supports a role of epigenetic mediators in carcinogenesis. Toxicol Lett 305(May):40–50; doi: 10.1016/j.toxlet.2019.01.011.

Suh M, Casteel S, Dunsmore M, Ring C, Verwiel A, **Proctor DM**. 2019. Bioaccessibility and relative oral bioavailability of cobalt and nickel in residential soil and dust affected by metal grinding operations. Sci Tot Environ 660(April 10):677–689; doi: 10.1016/j.scitotenv.2018.12.317.

Proctor DM, Suh M, Chappell G, Borghoff SJ, Thompson CM, Wiench K, Finch L, Ellis-Hutchings R. 2018. An adverse outcome pathway (AOP) for forestomach tumors induced by non-genotoxic initiating events. Regul Toxicol Pharmacol 96(July):30–40; doi: 10.1016/j.yrtph.2018.04.016.

Suh M, **Proctor DM**, Chappell G, Rager JE, Thompson CM, Borghoff S, Finch L, Ellis-Hutchings R, Wiench K. 2018. A review of the genotoxic, mutagenic, and carcinogenic potentials of several lower acrylates. Toxicology 402–403(June 1):50–67; doi: 10.1016/j.tox.2018.04.006.

Thompson CT, Suh M, Chappell G, Borghoff S, Ellis-Hutchings R, Wiench K, Finch L, **Proctor DM**. 2018. Assessment of the mode of action underlying development of forestomach tumors in rodents following oral exposure to ethyl acrylate and relevance to humans. Regul Toxicol Pharmacol 96(July):178–189; doi: 10.1016/j.yrtph.2018.05.006.

Thompson CM, Kirman CR, Hays SM, Suh M, Harvey SE, **Proctor DM**, Rager JE, Haws LC, Harris MA. 2018. Integration of mechanistic and pharmacokinetic information to derive oral reference dose and margin-of-exposure values for hexavalent chromium. J Appl Toxicol 38(3):351–365; doi: 10.1002/jat.3545.

Thompson CM, Wolf, JC, McCoy A, Suh M, **Proctor DM**, Kirman CR, Haws LC, Harris MA. 2017. Comparison of toxicity and recovery in the duodenum of B6C3F1 mice following treatment with intestinal carcinogens captan, folpet, and hexavalent chromium. Toxicol Pathol 45(8):1091–1101; doi: 10.1177/019262331yy4324.

Thompson CM, Suh M, **Proctor DM**, Haws LC, Harris MA. 2017. Ten factors for considering the mode of action of Cr(VI)-induced gastrointestinal tumors in rodents. Mutat Res/Genetic Toxicol Environ Mutagen 823(Nov):45–57; doi: 10.1016/j.mrgentox.2017.08.004.

Thompson CM, Young RR, Dinesdurage H, Suh M, Harris MA, Rohr AC, **Proctor DM**. 2017. Assessment of the mutagenic potential of hexavalent chromium in the duodenum of big blue® rats. Toxicol Appl Pharmacol 330(Sept 1):48-52; doi: 10.1016/j.taap.2017.07.002.

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Kirman CR, **Suh M, Proctor DM**, Hays SM. 2017. Improved physiologically based pharmacokinetic model for oral exposures to chromium in mice, rats, and humans to address temporal variation and sensitive populations. Toxicol Appl Pharmacol 325(Jan 15):9–17; doi: 10.1016/j.taap.2017.03.023.

Thompson CM, Wolf, JC, McCoy A, Suh M, **Proctor DM**, Kirman CR, Haws LC, Harris MA. 2017. Comparison of toxicity and recovery in the duodenum of B6C3F1 mice following treatment with intestinal carcinogens captan, folpet, and hexavalent chromium. Toxicol Pathol 45(8):1091–1101; doi: 10.1177/019262331yy4324.

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Kirman CR, Suh M, Hays SM, Gurleyuk H, Gerads R, De Flora S, Parker W, Lin S, Haws LC, Harris MA, **Proctor DM**. 2016. Reduction of hexavalent chromium by fasted and fed human gastric fluid. II. Ex vivo gastric reduction modeling. Toxicol Appl Pharmacol 306(Sep 1):120–133; doi: 10.1016/j.taap.2016.07.002.

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Thompson CM, Suh M, Mittal L, Wikoff DS, Welsh B and **Proctor DM**. 2016. Development of linear and threshold no significant risk levels for inhalation exposure to titanium dioxide using systematic review and mode of action considerations. Regul Toxicol Pharmacol 80(Oct):60–70; doi: 10.1016/j.yrtph.2016.05.031.

Proctor DM, Suh MS, Mittal L, Hirsch S, Valdes Salgado R, Bartlett C, Van Landingham C, Rohr A, Crump K. 2016. Inhalation cancer risk assessment of hexavalent chromium based on updated mortality for Painesville chromate production workers. J Expo Sci Environ Epidemiol 26(2):224–231; doi: 10.1038/jes.2015.77.

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Thompson CM, Young RR, Suh M, Dinesdurage HR, Elbekai RH, Harris MA, Rohr AC, **Proctor DM**. 2015. Assessment of the mutagenic potential of Cr(VI) in the oral mucosa of Big Blue® transgenic F344 rats. Environ Mol Mutagen 56(7):621–628; doi: 10.1002/em.21952.

Young RR, Thompson CM, Dinesdurage HR, Elbekai RH, Suh M, Rohr AC, and **Proctor DM**. 2015. A robust method for assessing chemically induced mutagenic effects in the oral cavity of transgenic Big Blue® rats. Environ Mol Mutagen 56(7):629–636; doi: 10.1002/em.21951.

Thompson CM, Seiter J, Chappell MA, Tappero RV, **Proctor DM**, Suh M, Wolf JC, Haws LC, Vitale R, Mittal L, Kirman CR, Hays SM, Harris MA. 2015. Synchrotron-based imaging of chromium and γ-H2AX immunostaining in the duodenum following repeated exposure to Cr(VI) in drinking water. Toxicol Sci 143(1):16–25; doi: 10.1093/toxsci/kfu206.

Proctor DM, Suh M, Campleman S, Thompson C. 2014. Assessment of the mode of action for hexavalent chromium-induced lung cancer following inhalation exposures. Toxicology 325(Nov 5):160–179; doi: 10.1016/j.tox.2014.08.009.

Thompson CM, Kirman CR, **Proctor DM**, Haws LC, Suh M, Hays S, Hixon JG, Harris MA. 2013. A chronic oral reference dose for hexavalent chromium-induced intestinal cancer. J Appl Toxicol. 34(5):525–536. doi: 10.1002/jat.2907.

Suh M, Thompson C, Kirman C, Carakostas M, Haws LC, Harris M, **Proctor D**. 2014. High concentrations of hexavalent chromium in drinking water alter iron homeostasis in F344 rats and B6C3F1 mice. Food Chem Toxicol 65(March):381–388; doi: 10.1016/j.fct.2014.01.009.

Suh M, Troese MJ, Hall DA, Yasso B, Yzenas JJ, **Proctor DM**. 2014. Evaluation of electric arc furnace-processed steel slag for dermal corrosion, irritation, and sensitization from dermal contact. J Appl Toxicol 34(12):1418-25; doi: 10.1002/jat.2974.

Suh M, Abraham L, Hixon JG, **Proctor D**. 2014. The effects of perchlorate, nitrate, and thiocyanate on free thyroxine for potentially sensitive subpopulations of the 2001–2002 and 2007–2008 National Health and Nutrition Examination Surveys. J Expo Sci Epidemiol 24(6):579-87; doi: 10.1038/jes.2013.67.

Kirman CR, Aylward LL, Suh M, Harris MA. Thompson CM, Haws KC, **Proctor DM**, Parker W, Hays SM. 2013. Physiologically based pharmacokinetic model for humans orally exposed to chromium. Chem Biol Interact 204(1):13–27; doi: 10.1016/j.cbi.2013.04.003.

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Proctor DM, Suh M, Aylward LL, Kirman CR, Harris MA, Thompson CM, Gürleyük H, Gerads R. Haws LC, Hays SM. 2012. Hexavalent chromium reduction kinetics in rodent stomach contents. Chemosphere 89(5):487–493; doi: 10.1016/j.chemosphere.2012.04.065.

Thompson CM, Fedorov Y, Brown DD, Suh M, **Proctor DM**, Kuriakose L, Haws LC, Harris MA. 2012. Assessment of Cr(VI)-induced cytotoxicity and genotoxicity using high content analysis. PLOS One 7(8):e42720; doi: 10.1371/journal.pone.0042720.

Thompson CM, Hixon JG, **Proctor DM**, Haws LC, Suh M, Urban JD, Harris MA. 2012. Assessment of genotoxic potential of Cr(VI) in the mouse duodenum: An in silico comparison with mutagenic and nonmutagenic carcinogens across tissues. Regul Toxicol Pharmacol 64(1):68–76; doi: 10.1016/j.yrtph.2012.05.019.

Thompson CM, **Proctor DM**, Suh M, Haws LC, Hebert CD, Mann JF, Shertzer HG, Hixon JG, Harris MA. 2012. Comparison of the effects of hexavalent chromium in the alimentary canal of F344 rats and B6C3F1 mice following exposure in drinking water: Implications for carcinogenic modes of action. Toxicol Sci 125(1):79–90; doi: 10.1093/toxsci/kfr280.

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Thompson CM, **Proctor DM**, Haws LC, Hebert CD, Grimes SD, Shertzer HG, Kopec AK, Hixon JG, Zacharewski TR, Harris MA. 2011. Investigation of the mode of action underlying the tumorigenic response induced in B6C3F1 mice exposed orally to hexavalent chromium. Toxicol Sci 123(1):58–70; doi: 10.1093/toxsci/kfr164.

Thompson CM, Haws LC, Harris MA, Gatto NM, **Proctor DM**. 2011. Application of the U.S. EPA mode of action framework for purposes of guiding future research: A case study involving the oral carcinogenicity of hexavalent chromium. Toxicol Sci 119(1):20–40; doi: 10.1093/toxsci/kfq320.

Gatto NM, Kelsh KA, Mai DH, Suh M **Proctor DM**. 2010. Occupational exposure to hexavalent chromium and cancers of the gastrointestinal tract: a meta-analysis. Cancer Epidemiol 34(4):388–99; doi: 10.1016/j.canep.2010.03.013.

Driscoll SK, McArdle ME, Plumlee MH, **Proctor D**. 2009. Evaluation of hexavalent chromium in sediment pore water of the Hackensack River, New Jersey, USA. Environ Toxicol Chem 29(3):617–620; doi: 10.1002/etc.93.

Menzie C, Ziccardi L, **Proctor D**. 2009. Importance of considering the framework principals in risk assessment of metals. Environ Sci Technol 43(22):8478–8482 (Feature Article); doi: 10.1021/es9006405.

Scott PK, **Proctor D**. 2008. Soil suspension/dispersion modeling methods for estimating health-based soil cleanup levels of hexavalent chromium at chromite ore processing residue sites. J Air Waste Manag Assoc 58(3):384–403; doi: 10.3155/1047-3289.58.3.384.

Proctor DM, Gatto NM, Hong SJ, Allamneni KP. 2007. Mode-of-action framework for evaluating the relevance of rodent forestomach tumors in cancer risk assessment. Toxicol Sci 98(2):313–326; doi: 10.1093/toxsci/kfm075.

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Luippold RS, Mundt KA, Austin RP, Liebig E, Panko JP, Crump C, Crump K, **Proctor DM**. 2003. Lung cancer mortality among chromate workers. Occup Environ Med 60(6):451–457; doi: 10.1136/oem.60.6.451.

Proctor DM, Otani JA, Paustenbach DJ. 2002. Is hexavalent chromium carcinogenic via ingestion? A weight-of-evidence review. J Toxicol Environ Health A 65(10):701–746; doi: 10.1080/00984100290071018.

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Proctor DM, Fredrick MM. 1998. Prevalence of chromium allergy in the United States and its implications for setting soil cleanup levels: A cost-effectiveness case study. Regul Toxicol Pharmacol 28(1):27–37; doi: 10.1006/rtph.1998.1211.

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BOOK CHAPTERS

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CONFERENCE SYMPOSIA SESSION CHAIR

2018 ASSOCIATION OF ENVIRONMENTAL HEALTH SCIENCES: Session 5b: The Evolving Risk Assessment Landscape in California.

2017 AMERICAN INDUSTRIAL HYGIENE ASSOCIATION CONFERENCE: Challenges in Protecting Worker Health and Achieving Compliance in the World of Low Submicrogram Concentrations: A Case Study of Beryllium.

2016 SOCIETY OF TOXCIOLOGY: The Cancer Risk Assessment for Ingested Hexavalent Chromium: Challenges and Controversies

2015 SOCIETY OF TOXICOLOGY: Advanced Approaches for Quantitative Risk Assessment Using Human Data with Applications Across Disciplines

2014 TOXICOLOGY AND RISK ASSESSMENT: Using New Data and Methods to Improve the Risk Assessment of Environmental Perchlorate Exposure

2011 SOCIETY OF TOXICOLOGY: Using Mode of Action Data to Guide Quantitative Cancer Risk Assessment: A Case Study of Hexavalent Chromium in Drinking Water

2003 SOCIETY OF TOXICOLOGY: Health Risk Assessment of Hexavalent Chromium in Drinking Water: Carcinogenicity, Research and Regulation.

1996 ASSOCIATION FOR THE ENVIROMENTAL HEALTH OF SOIL: Chromium in Soil: Perspectives in Chemistry, Health and Environmental Regulation.

ABSTRACTS AND PRESENTATIONS

Fender CL, Bare J, Kennedy S, Panko J, **Proctor D**. Characterization and considerations of atmospheric deposition as an aquatic exposure pathway. Poster 4.18.P-Tu276, SETAC North America 47th Annual Meeting, Montreal, Canada, November 2026.

Price SA, Bare JL, Verwiel AH, **Proctor DM**. Novel application of the EPA All Ages Lead Model (AALM) to determine an acute (24-hour) inhalation threshold for lead protective of neurotoxicity in children. Abstract 4604, Society of Toxicology 65th Annual Meeting, San Diego, CA, March 2026.

Proctor DM, Verwiel AH, Covington TR, Thompson CM. Acute (24-hour) nickel inhalation reference concentration for use in air toxics risk assessment. Abstract 3997, Society of Toxicology 65th Annual Meeting, San Diego, CA, March 2026.

Proctor D, Thompson C. Why oral cavity tumors should not be the basis of the hexavalent chromium oral cancer slope factor-weight of evidence review. Abstract 3136, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

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

Allen B, Vincent M, Lipworth L, Panko J, Suh M, Jiang X, Mumma, **Proctor D**. Lung cancer risk and exposure to hexavalent chromium: Results of extended mortality study of workers with low level exposures and quantitative risk assessment using pooled analysis of three cohorts. Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Perry CS, Vivanco SN, Verwiel AH, **Proctor DM**. Derivation of manganese 24-hour acute inhalation guideline protective of respiratory and neurological effects. Abstract 4751, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Racz L, Mittal L, Perry CS, Blanchette A, **Proctor D**. Assessing sustainable applications of electric arc furnace steel slag as construction aggregate: Applications of probabilistic risk assessment and physiologically-based pharmacokinetic modeling. Poster presented at Society of Environmental Toxicology and Chemistry North America 44th Annual Meeting, Louisville, KY, November 2023.

Proctor DM, Vivanco S, Blanchette A. Relative oral bioavailability of manganese in electric arc furnace steel slag is influenced by high iron content and low bioaccessibility. Poster presented at Society of Toxicology 62nd Annual Meeting, Nashville, TN, March 2023.

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

Perry C, **Proctor D**. Short-term environmental inhalation toxicity criteria for airborne manganese protective of neurological and respiratory effects for use in air toxics risk assessment. Presentation 5-15.t-04 to Society of Environmental Toxicology and Chemistry, Pittsburgh PA, November 2022.

Proctor D, Mittal L, Vivanco S, Perry C, Blanchette A. Probabilistic health risk assessment for residential exposures to metals in electric arc furnace (EAF) steel slag. Presentation 5.15.P-Th123 to Society of Environmental Toxicology and Chemistry, Pittsburgh PA, November 2022.

Proctor DM, Mittal L, Vivanco S, Antonijevic T. Probabilistic health risk assessment for residential exposures to metals in electric arc furnace (EAF) steel slag. Poster at Society of Environmental Toxicology and Chemistry (SETAC), Philadelphia, PA, November 2022.

Proctor DM, Antonijevic T. Refined health risk assessment for residential exposures to manganese in EAF steel slag. Poster presented at Society of Toxicology 61st Annual Meeting, San Diego, CA, March 2022.

Thompson CM, Chappell GA, Mittal L, Gorman B, **Proctor DM**, Haws LC, Harris MA. Use of targeted mode-of-action research to inform human health risk assessment of hexavalent chromium. Poster presented at Society of Toxicology 61st Annual Meeting, San Diego, CA, March 2022.

Suh M, Verwiel A, **Proctor D**. Oral and inhalation bioaccessibility of cobalt and nickel in metal alloys: A critical consideration for site-specific human health risk assessments and read across. Poster for Society of Toxicology 59th Annual Meeting, Virtual, 2020, https://eventpilotadmin.com/web/page.php?page=Session&project=SOT20&id=P3190.

Proctor D. Use of the latest science in cancer risk assessment for hexavalent chromium: Is it time to step away from the default regulatory approaches? Invited presentation to the International Union of Toxicology (IUTOX) / International Congress of Toxicology (ICT) meeting, Honolulu, HI, June 17, 2019.

Ring CL, Suh M, Casteel S, Dunsmore M, Verwiel A, **Proctor D**. Relative oral bioavailability of cobalt and nickel in residential soil and dust affected by metal grinding operations. Presented at Joint Annual Meeting of International Society of Exposure Science and International Society for Environmental Epidemiology (ISES-ISEE 2018), Ottawa, Canada, August 2018.

Suh M, Wikoff D, Harvey S, Mittal L, Lipworth L, Goodman M, Goodmanson A, Ring C, Rohr A, **Proctor D**. Hexavalent chromium and stomach cancer: A systematic review and meta-analysis. Presented at Joint Annual Meeting of International Society of Exposure Science and International Society for Environmental Epidemiology (ISES-ISEE 2018), Ottawa, Canada, August 2018.

Proctor, DM. Hexavalent chromium in drinking water: When is the science sufficient to deviate from defaults? Invited Speaker, Genetic and Environmental Toxicology Association (GETA). Thresholds in Toxicology and Risk Assessment Fall Symposium, Oakland, CA, November 14, 2018.

Proctor, DM. Updating the regulatory risk assessment for hexavalent chromium in California: Implications for regulatory standards. Association of Environmental Health Sciences, San Diego, CA, March 20, 2018.

Thompson CM, Suh M, **Proctor DM**, Harris MA. Ten factors for considering the mode of action of Cr(VI)-induced intestinal tumors in rodents. Society of Toxicology 57th Annual Meeting, San Antonio, TX, March 11-15, 2018.

Thompson CM, Wolf JC, Suh M, **Proctor DM**, Haws LC, Harris MA. Toxicity and recovery in the duodenum of B6C3F1mice following treatment with intestinal carcinogens; captan, folpet, and hexavalent chromium: Evidence for an adverse outcome pathway. Society of Toxicology 57th Annual Meeting, San Antonio, TX, March 11-15, 2018.

Proctor DM, Corbett ME. The world of low submicrogram beryllium concentrations. Session F5, American Industrial Hygiene Conference and Exhibition (AIHce), Seattle, WA, June 6, 2017.

Thompson C, Rager J, Suh M, **Proctor D**, Haws L, Harris M. Mechanistic support for nonlinear risk assessment of rat oral cavity tumors induced by exposure to Cr(VI) in drinking water. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 15, 2017.

Proctor DM, Suh M, Dunsmore D, Verwiel A, Casteel S. Bioaccessibility and relative oral bioavailability of cobalt and nickel from metal alloys in soil and dust. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 15, 2017.

Kirman CR, **Proctor D**, Suh M, Haws L, Harris M, Thompson C, Hays S. Using physiologically-based pharmacokinetic modeling to address potentially sensitive subpopulations exposure to hexavalent chromium. Poster presented at Society of Toxicology 5[6th] Annual Meeting. Baltimore, MD, March 15, 2017.

Thompson C, Kirman C, Suh M, **Proctor D**, Haws L, Harris M, Hays S. Risk assessment of oral exposure to Cr(VI): Integration of mode of action, pharmacokinetics, and dose-response modeling. Poster presented at Society of Toxicology Annual Meeting, Baltimore, MD, March 14, 2017.

Suh M, Harvey S, Wikoff D, Mittal L, Ring C, Goodmanson A, **Proctor D**. Meta-analysis of hexavalent chromium and stomach cancer. Poster presented at Society of Toxicology 56th Annual Meeting, Baltimore, MD, March 13, 2017.

Verwiel A, **Proctor D**, Tachovsky A. Principal component analysis of metals in soil and dust to distinguish background and anthropogenic sources in an urban area. Association for Environmental Health and Sciences Foundation Annual Meeting, San Diego, CA, March 14, 2016.

Verwiel A, **Proctor DM**. Oral bioaccessibility of nickel and cobalt from metal alloy emissions in soil and dust. Society for Risk Analysis Annual Meeting, Arlington, VA, December 7, 2015.

Proctor, DM. Overview of hexavalent chromium mode of action (MOA) and implications for determining safe drinking water concentrations. Naturally occurring compounds of regulatory concern. Groundwater Resources Association Symposium, Garden Grove, CA, November 18, 2015.

Brorby G, Suh M, Bichteler A, **Proctor D**. Use of cluster analysis and homogeneity testing to characterize distributions of exposures among beryllium workers: Tools for developing occupational exposure limits from quantitative risk assessment. 2015 International Society for Exposure Science Annual Meeting, Henderson, NV, October 22, 2015.

Kirman CR, **Proctor DM**, Suh M, Hays S. Reduction of hexavalent chromium by gastric fluids from fed and fasted individuals with applications to toxicokinetic modeling. Presented at Society of Toxicology 54th Annual Meeting, San Diego, CA, March 22-26, 2015.

Suh M, Mittal L, Hirsch S, Valdes R, Bartlett C, Rohr A, **Proctor D**. Lung cancer risk in chromate production workers exposed to hexavalent chromium. Presented at Society of Toxicology 54th Annual Meeting, San Diego, CA, March 22-26, 2015.

Proctor D, Suh M, Thompson C, Hixon G. Inhalation Cancer Risk Assessment of Titanium Dioxide. Presented at the Society of Toxicology 54th Annual Meeting, San Diego, CA, March 22-26, 2015.

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

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

Crump KS, Suh M, Bichteler A, Brorby GP, Hixon JG, and **Proctor DM**. Chronic beryllium disease risk assessment for occupational beryllium exposure. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, March 23-27, 2014.

Proctor DM, Suh M, Tachovsky JA, Abraham L, Hixon JG, Brorby GP, Campleman SL. Cumulative risk assessment of urban air toxics: A pilot study in San Antonio, TX. Presented at the Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, March 23-27, 2014.

Suh M, Yzenas JJ, **Proctor DM**. Evaluation of electric arc furnace-processed steel slag for dermal corrosion, irritation, and sensitization. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, March 23-27, 2014.

Hays SM, Kirman CR, Suh M, **Proctor DM**. Gastric reduction of hexavalent chromium [Cr(VI)] in fed and fasted human stomach samples. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, March 23-27, 2014.

Thompson CM, **Proctor DM**, Suh M, Wolf JC, Haws LC, Seiter JM, Chappell MA, Harris MA. X-ray Fluorescence microspectroscopic analysis of duodenal mucosae following Cr(VI) exposure in drinking water. Presented at Society of Toxicology 53rd Annual Meeting, Phoenix, AZ, March 23-27, 2014.

Suh M, Thompson CM, Hixon JG, Harris MA, Kirman C, Hays S, Haws L, **Proctor D**. Potential involvement in the development of oral cavity tumors in rats exposed to hexavalent chromium. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, March 10-14, 2013.

Kirman C, Thompson C, **Proctor D**, Suh M, Haws L, Harris MA, Hays S. Using PBPK modeling to address diurnal variation and age differences in hexavalent chromium toxicokinetics in humans. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX March 10-14, 2013.

Thompson C, Kirman C, **Proctor D**, Suh M, Hays S, Haws L, Harris MA. A chronic oral reference dose for hexavalent chromium. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, March 10-14, 2013.

Proctor D, Suh M, Thompson, C., Harris, M.A. Mode of action evaluation for hexavalent-induced lung cancer. A chronic oral reference dose for hexavalent chromium. Presented at Society of Toxicology 52nd Annual Meeting, San Antonio, TX, March 10-14, 2013.

Brorby G, **Proctor D**, Perry C, Fitzgerald L, Tachovsky A. Probabilistic risk assessment of human exposure to iron and steel slag. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 11-15, 2012.

Harris MA, Thompson CM, Wolf JC, Fedorov Y, Hixon JG, **Proctor DM**, Suh M, Haws LC. Assessment of genotoxic potential of Cr(VI) in the intestine via in vivo intestinal micronucleus assay and in vitro high content analysis in differentiated and undifferentiated caco-2. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 11-15, 2012.

Hays SM, Kirman C, Aylward L, Suh M, **Proctor D**. Gastric reduction of Cr(VI) in mice, rats and humans. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 11-15, 2012.

Hixon JG, **Proctor D**. Use of constrained logistic regression models for the dose-response analysis of beryllium sensitization and chronic beryllium disease with mean exposure. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 11-15, 2012.

Kirman CR, Hays SM, Aylward LL, Suh M, **Proctor D**. Physiologically-based pharmacokinetic model for mice, rats and humans orally exposed to chromium. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 11-15, 2012.

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

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

Thompson CM, Hixon JG, Kopec AK, Harris MA, **Proctor DM**, Haws LC. Assessment of genotoxic potential of Cr(VI) in the mouse duodenum via toxicogenomic profiling. Presented at Society of Toxicology 51st Annual Meeting, San Francisco, CA, March 11-15, 2012.

Haws L, **Proctor D**, Thompson C, Harris M. Research plan to fill data gaps in the mode of action for cancer risk assessment of hexavalent chromium in drinking water. Presented at Society of Toxicology 50th Annual Meeting, Washington, DC, March 6-10, 2011.

Proctor D, Thompson C, Haws L, Harris M. Use of mode of action and pharmacokinetic findings to inform the cancer risk assessment of ingested Cr(VI): A case study. Presented at Society of Toxicology 50th Annual Meeting, Washington, DC, March 6-10, 2011.

Proctor D, Meek B. Using mode of action data to guide quantitative cancer risk assessment: A case study of hexavalent chromium in drinking water. Presented at Society of Toxicology 50th Annual Meeting, Washington, DC, March 6-10, 2011.

Thompson C, **Proctor D**, Haws L, Harris M. Mode-of-action for the cancer risk assessment of ingested hexavalent chromium: Identifying and resolving data gaps. Abstract 1937, Society of Toxicology 49th Annual Meeting, Salt Lake City, UT, March 2010.

Proctor D, Haws L, Tachovsky A, Harris M. Critical Evaluation of the data underlying the USA Today rankings of air quality at schools. Toxicologist. Abstract 1909. Presented at Society of Toxicology 49th Annual Meeting, Salt Lake City, UT, March 2010.

Gatto N, Kelsh M, HaMa D, Shu M, **Proctor D**. A meta-analysis of the relationship between occupational exposure to hexavalent chromium and cancers of the gastrointestinal tract. Abstract, Society of Toxicology 48th Annual Meeting, Baltimore, MD, March 2009.

Proctor D, HaMai D. Human health risk assessment for environmental applications of steel slag: Differences between material-specific and default approaches. Poster Presentation, Society of Toxicology 48th Annual Meeting, Baltimore, MD, March 2009.

Gujral JS, **Proctor DM**, Su SH, Fedoruk MJ. Water adherence factors for human skin. Poster, International Society for Exposure Analysis and International Society for Environmental Epidemiology, Pasadena, CA, October 13–16, 2008.

Gujral JS, Fowler JF Jr, Su SH, Morgan D, **Proctor DM**. Repeated open application tests for allergic contact dermatitis due to hexavalent chromium [Cr(VI)]: Risk assessment for dermal contact with Cr(VI). 3rd Conference of Occupational and Environmental Exposure of Skin to Chemicals, Golden, CO, June 17–20, 2007.

Hong S, **Proctor D**, Finley B. Assessment of LA sewage spills on Santa Monica Bay beaches. Society of Toxicology 45th Annual Meeting, San Diego, CA, March 2006.

Hong SJ, **Proctor DM**, Finley BL. Exposure to sewage spill-related pathogens at Santa Monica Bay beaches. 4th Society of Environmental Toxicology and Chemistry World Congress and 25th Annual Meeting, Portland, OR, November 2004.

Proctor D. Exposure assessment for perchlorate in milk. Abstract 421, Society of Toxicology 45th Annual Meeting, New Orleans, LA, 2005.

Proctor D, Hong S. Relevance of rodent forestomach tumors in cancer risk assessment. Abstract 382, Society of Toxicology 45th Annual Meeting, New Orleans, LA, 2005.

Proctor D, Cohen E, Leung H, Hays S, Barraj L, Madl A. Exposure assessment for perchlorate in drinking water. Abstract 1754, Society of Toxicology 44th Annual Meeting, Baltimore, MD, 2004.

Madl A, **Proctor D**, Leung H, Goswami E, Hays S, Cohen E. Derivation of an RfD for perchlorate: Identifying a Critical Health Endpoint and Most Sensitive Subpopulation. Abstract 1755, Society of Toxicology 44th Annual Meeting, Baltimore, MD, 2004.

Leung H Madl A, **Proctor D**, Hays S, Cohen E. Scientific rational for the derivation of an RfD for perchlorate. Abstract 1756, Society of Toxicology 44th Annual Meeting, Baltimore, MD, 2004.

Proctor D, Ohanian E. Health risk assessment of hexavalent chromium in drinking water: Carcinogenicity, research and regulation. Symposium Chairman. Abstract 277, Society of Toxicology 42nd Annual Meeting, Salt Lake City, UT, 2003.

Proctor D, Lau E, Cahill J, Kelsh M. Alternative reference population sensitivity analysis for the morality assessment of a hexavalent chromium exposed worker cohort. Abstract 2008, International Society of Environmental Epidemiology, 2002.

Proctor D, Hays S, et al. Rate of hexavalent chromium reduction by human gastric fluid. Abstract 1700, Society of Toxicology 41st Annual Meeting, Nashville, TN, March 2002.

Proctor D, Williams P. Costs and benefits of compliance with alternative remediation standards at hexavalent chromium-contaminated sites. Abstract 1073, Society of Toxicology 41st Annual Meeting, Nashville, TN, March 2002.

Proctor D, Luippold R, et al. Lung cancer mortality among workers exposed to airborne hexavalent chromium. Abstract 773, Society of Toxicology 41st Annual Meeting, Nashville, TN, March 2002.

Crump C, **Proctor D**, et al. Dose-response assessment for lung cancer mortality of an occupational cohort exposed to airborne hexavalent chromium. Abstract 774, Society of Toxicology 41st Annual Meeting, Nashville, TN, March 2002. *Awarded top five Risk Assessment Presentations at the conference*.

Proctor D, Kelsh M, Lau E, Exuzides A, Cahill J. Analysis beyond publication: Further evaluation of an occupational study of chromium workers. Abstract 318, Society of Epidemiological Research, 2003.

Proctor DM, Su S, Finley BL. Multi-media exposure scenario survey for defining the conceptual site model of a human health risk assessment for a highly urbanized area. Society of Risk Analysis Conference, December 8, 2002.

Shay E, **Proctor D**, Long T. Community response and health risk assessment of a PCB release from a natural gas pipeline rupture. Association for the Environmental Health of Soils, San Diego, CA, March 2000.

Proctor DM. Use of bench top laboratory studies to quantify potential health risks due to mercury vapors: A case study. Society for Risk Analysis, 1998.

Proctor DM, et al. Methods for refining health-based remediation goals for PAHs in soil. Association for the Environmental Health of Soil, March 12, 1998.

Proctor DM, et al. Prevalence of chromium allergy in the United States and it implications for setting soil cleanup levels: A cost-benefit case study. Society of Risk Analysis, December 1997.

Proctor D, Nethercott J, Fredrick M, Finley B, Paustenbach D. Assessing the potential for elicitation of allergic contact dermatitis in Cr(VI)-sensitized subjects following prolonged contact with Cr(VI) in solution. Society of Toxicology 36th Annual Meeting, Cincinnati, OH, March 1997.

Scott P, **Proctor D**, Paustenbach D. Evaluating the 10% elicitation threshold for Cr(VI) in terms of mass per surface area using benchmark dose methods. Society of Toxicology 36th Annual Meeting, Cincinnati, OH, March 1997.

Proctor DM. Strategies for approaching liability using risk based corrective action (RBCA). Industrial Site Recycling Conference (ISRC), Pittsburgh, PA, April 8, 1997.

Proctor D, Shay E, Scott P. Health-based soil action levels for trivalent and hexavalent chromium: A comparison to state and federal standards. Association for the Environmental Health of Soils (AEHS), Newport Beach, CA, March 13, 1996.

Proctor D, Fehling KA, Scott PK. Use of health risk assessment to facilitate redevelopment of a former steel production site. Society for Risk Analysis Annual Conference and Exposition, December 7, 1995.

Proctor DM, Scott PK, Finley BL. Approach for determining generic health based soil action levels for trivalent and hexavalent chromium at residential and industrial sites. Abstract F4.16, Society for Risk Analysis Annual Conference and Exposition, December 6, 1994.

Proctor DM, Malsch PA, Gargas ML. Considerations for determining appropriate reference doses for soluble and insoluble trivalent chromium compounds. Abstract P1.26, Society for Risk Analysis Annual Conference and Exposition, December 5, 1994.

Proctor DM. Chromium speciation and risk assessment issues. Ohio Chapter Society for Risk Analysis, June 29, 1994.

Malsch PA, **Proctor DM**, Finley BL. Estimation of chromium inhalation RfC by the benchmark dose method. Society of Toxicology 33rd Annual Meeting, Dallas, TX, March 1994.

Gargas ML, Finley BL, Norton RL, **Proctor DM**, Paustenbach DJ. Biomonitoring of chromium (Cr) exposure by urinary excretion: Bioavailability and sampling design. Society of Toxicology 33rd Annual Meeting, Dallas, TX, March 1994.

Proctor DM, Finley BL. A methodology for setting soil cleanup goals based on protection of allergic contact dermatitis. Society for Risk Analysis Annual Meeting, December 5–8, 1993.

Proctor DM, Finley BL. Using real human sweat to extract chromium from chromite ore processing residue: Implications for setting standards based on allergic contact dermatitis. Society for Risk Analysis Annual Meeting, December 5–8, 1993.

Proctor DM, Scott PK, Fehling KA. Comparison of exposure estimates obtained using conservative state-mandated methodology, refined point estimate approach, and Monte Carlo analyses. Society for Risk Analysis Annual Meeting, December 5–8, 1993.

Proctor DM, Ulrich GA, Agnew WW. Application of human health risk assessment in oil and gas production. No 26362, Society of Petroleum Engineers International Annual Technical Conference and Exhibition, October 3–6, 1993.

Proctor DM, Finley BL, Paustenbach DJ. An alternative to the USEPA's proposed inhalation reference concentration for hexavalent and trivalent chromium. Society of Toxicology 32nd Annual Meeting, New Orleans, LA, March 1993.

Proctor DM, Trowbridge KR. An analysis of risk driven site investigation and remediation. Abstract 9970, Society of Environmental Toxicology and Chemistry 13th Annual Meeting, October 8-12, 1992.

PUBLISHED TECHNICAL STUDY REPORTS

Proctor DM, Gujral J, Su S, Fowler Jr. JF. Repeated open application test for allergic contact dermatitis due to hexavalent chromium [Cr(VI)] as CopperShield®: Risk assessment for dermal contact with Cr(VI). FPRL #012506. Environmental Protection Agency. Washington, DC, July 2006.

Proctor DM, Gujral J, Su S, Fowler Jr. JF. Repeated open application test for allergic contact dermatitis due to hexavalent chromium [Cr(VI)] as potassium dichromate: Risk assessment for dermal contact with Cr(VI). FPRL #012406. Environmental Protection Agency Washington, DC, September 2006.