



Exponent[®]
Engineering & Scientific Consulting

Sarah Dahlberg, M.S.

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Professional Profile

Ms. Dahlberg is an environmental health scientist who specializes in health risk assessment, practical toxicology, and regulatory science. She has extensive experience with conducting systematic literature reviews and meta-analyses, evaluating and assessing biases in epidemiologic studies, data visualization including the use of GIS software, quantitative exposure science, and using novel paradigms for hazard identification. Her experience includes assessing human health risk from exposure to a variety of chemical agents, such as volatile and semi-volatile organic compounds (e.g., benzene, methacrylates, toluene), metals / metalloids (e.g., lead, arsenic, cadmium, nickel), perfluorinated compounds (e.g., perfluorooctanoic acid or PFOS), and silicates (e.g., asbestos, crystalline silica).

Prior to joining Exponent, Ms. Dahlberg received her M.S. in environmental health sciences with a concentration in toxicology from UC Berkeley School of Public Health. Additionally, she brings a strong foundation in the core sciences. She received her B.S. in biology and B.A. in chemistry from Pepperdine University, where she was heavily involved in laboratory research in the fields of microbiology and physical chemistry.

Academic Credentials & Professional Honors

M.S., Environmental Health Sciences, University of California, Berkeley, 2020

B.S., Biology, Pepperdine University, 2018

B.A., Chemistry, Pepperdine University, 2018

Prior Experience

Graduate Student Researcher, Superfund Research Group, UC Berkeley, 2019-2020

Graduate Student Instructor, Department of Environment, Science, Policy and Management, UC Berkeley, 2019

Graduate Student Instructor, Department of Molecular and Cellular Biology UC Berkeley, 2019

Professional Affiliations

American Industrial Hygiene Association, 2020-present

- Toxicology Subcommittee

- Women in IH Subcommittee
- Stewardship and Sustainability Subcommittee

Genetic and Environmental Toxicology Association of Northern California, 2021-present

- Business Representative

Society of Toxicology (Associate Member), 2021-present

Languages

Mandarin Chinese

Publications

Castriota F, Rieswijk L, Dahlberg S, La Merrill MA, Steinmaus C, Smith MT, Wang JC. A State-of-the-Science Review of Arsenic's Effects on Glucose Homeostasis in Experimental Models. *Environmental Health Perspectives* 2020; 128 (1):16001.

Presentations

Rigutto G, Louie A, Smith M, Guo H, Zhao Y, Dahlberg S, Sholinbeck M, and Zhang LP. Identifying Studies on the Key Characteristics of Carcinogens Related to Chronic Inflammation and Immunosuppression. Poster presentation, Superfund Research Program Annual Conference, 2020.

Dahlberg S, Louie A, Nguyen P, Ranjbar K. Risk Assessment of Glycidyl Methacrylate: A Cause for Concern. Poster presentation, Northern California Society of Toxicology Spring Symposium, South San Francisco, CA, 2019.

Louie A, Dahlberg S. An Analysis of Benzene Exposure and B-cell Lymphoma. Poster presentation, Northern California Society of Toxicology Spring Symposium, South San Francisco, CA, 2019.

Project Experience

Proposition 65

Conducted Proposition 65 evaluations to assess potential exposure to metals (e.g., arsenic, cadmium, lead) and semi-volatile organic compounds (e.g. methylene diphenyl diisocyanate) during various consumer product use scenarios. Example products include appliances and tableware.

Evaluated reproductive toxicity and developmental neurotoxicity outcomes reported in published studies concerning a pesticide that is undergoing review by the Proposition 65 Developmental and Reproductive Toxicant Identification Committee (DARTIC).

Exposure Simulations

Simulated the use of a colored cosmetic product and quantified potential personal breathing zone exposures to respirable crystalline silica. Contextualized data in terms of lung cancer risk, using established regulatory guidance.

Pharmacoepidemiology

Conducted a systematic literature review and critically assessed the peer-reviewed literature of

pharmaceutical contaminants and potential health effects. Reconstructed acceptable intake limits for contaminants from animal studies.

Dermal Sensitization

Conducted testing to understand the potential for known dermal sensitizers to leach from wearable products during use. Used leach data in a model to predict allergic contact dermatitis elicitation risk. Utilized common chemical databases (e.g. PubChem, ECHA, ATSDR) to identify potential dermal sensitizers and dermal irritants in consumer products.

Litigation Support

Reviewed discovery documentation and generated narratives of plaintiff exposure histories in support of expert testimony in asbestos and talc product liability litigation. Described the nature of alleged exposures (e.g., frequency, duration) to the product of interest and other relevant exposure risk factors (e.g., tobacco smoke, therapeutic radiation).

Additional Education & Training

Managing the COVID-19 Pandemic, UC Berkeley, 2020

Contact Tracing for COVID-19, Johns Hopkins University, 2020

Editorships & Editorial Review Boards

Archives of Toxicology (editorial advisory board member)

Peer Reviewer

Environment International

Environmental Research

Toxicology and Industrial Health

International Archives of Occupational and Environmental Health

Journal of Toxicology and Environmental Health, Part B: Critical Reviews

Ecotoxicology and Environmental Safety