

Allison Killius, M.E.M., M.B.A.

MANAGING SCIENTIST

ASSOCIATE DIRECTOR, CAUSATION ANALYSIS

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Ms. Allison Killius is a toxicologist in ToxStrategies' Causation Analysis practice. She specializes in quantitative human health risk assessment and complex environmental litigation support involving PFAS, metals, VOCs, dioxins, PAHs, pesticides, and other emerging contaminants. Her expertise includes exposure reconstruction, biomonitoring interpretation, dose-response assessment, and specific causation analysis using environmental sampling data, toxicological literature, and epidemiologic evidence. She holds a Master of Environmental Management degree and an Executive Master of Business Administration degree.

Ms. Killius has performed more than 100 human health risk assessments studying oral, dermal, and inhalation exposure to dioxins and PCBs, heavy metals, VOCs, PAHs, food flavoring compounds, fragrance compounds, phthalates, electronic nicotine delivery systems (ENDS), petroleum products, asbestos, and talcum powder. Her recent work has included serving as an expert witness in PFAS NRD litigation, providing deposition testimony on potential human health risks associated with PFAS in ground water, surface water, soils, and biota. She has also served as a consulting expert providing litigation support in multiple East Palestine, Ohio train derailment cases, research support on the chemical hair relaxer MDL, and has conducted many environmental risk assessments of air, water, and soils relating to Clean Water Act, Clean Air Act, and RCRA violations. In her previous work with an American agrochemical company, Ms. Killius managed a fungicide portfolio of more than 20 active ingredients and conducted fungicide-based risk assessments in support of new product registration, label expansion, and scoping projects.

EDUCATION AND DEGREES EARNED

- 2024 Executive Master of Business Administration, Duke University, Durham, NC
- 2017 Master of Environmental Management, Ecotoxicology and Environmental Health, Duke University, Durham, NC
- 2014 Bachelor of Science, Ecology and Evolutionary Biology, Tulane University, New Orleans, LA

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

2016-Present Member, Society of Toxicology (SOT)

SELECTED PROFESSIONAL EXPERIENCE

Health Science Consulting

Provided toxicological guidance on the potential risks of trace contaminants entering the food supply to a global supplier of food-grade acid products.

Reviewed literature to determine risk of lead take-home exposure in children with parents employed in the lead-acid battery industry.

Assessed potential health risks related to childhood exposure to lead in drinking water in Flint, MI.

Consumer Product Safety

Evaluated consumer product use and urine samples to investigate sources of childhood exposure to phthalates.

Performed toxicological reviews of flavoring compounds utilized in electronic cigarettes via inhalation.

Conducted risk assessments to determine the risk of mesothelioma from the use of cosmetic talcum powder.

Environmental Risk Assessments

Evaluated the human health risks of exposure to PFAS via evaluation of public and private drinking water data compared to the USEPA MCLs.

Conducted an environmental risk assessment evaluating human exposure to PFAS via fish consumption, surface water contact, soil contact, and drinking water consumption.

Analyzed data and conducted risk assessments of air, water, and soil to determine the extent of environmental contamination and potential risk to human health following the East Palestine, Ohio, train derailment.

Assessed potential health risks related to childhood exposure to lead in drinking water in Flint, MI.

Assessed potential silica exposure and health risks associated with frac sand mining operations.

Performed air dispersion and vapor intrusion modeling to conduct an exposure assessment in a medical monitoring case in which residents were allegedly exposed to benzene from a neighboring petroleum tank farm.

Superfund Site Risk Assessment

Evaluated the human health risks of dioxin-contaminated fish consumption near a Superfund site.

Performed fate and transport analyses via mass balance of dioxins and furans from a Superfund site.

Performed a risk assessment of residential and industrial exposures to heavy metals in coal fly ash disposed at a Superfund site.

Reviewed human health and ecological risk assessments investigating the potential of a complete exposure pathway of vapor intrusion of VOCs and SVOCs from a landfill to surrounding commercial buildings.

Pesticides

Conducted dietary and operator risk assessments of fungicides in support of new product registration and existing label expansion.

Refined the EPA's residential pesticide exposure model in anticipation of increased conservativeness in the regulatory environment.

Reviewed pesticide toxicity studies for data cleaning and QA/QC prior to entry into the EPA's ToxRef database.

BOOK CHAPTERS

Kougias DG, **Killius A**, Collins J, Russman E, Maddaloni M. 2024. Per- and polyfluoroalkyl substances (PFAS) in drinking water: A retrospective case series with risk assessments. In: Paustenbach DJ, Feinberg (eds), Human and Ecological Risk Assessment: Theory and Practice, Third Edition. Wiley. pp. 337-396; doi: [10.1002/9781119742975.ch7](https://doi.org/10.1002/9781119742975.ch7).

MANUSCRIPTS

Killius A, Wheeler M, Covell L, Price S, Finley B. 2026. Derivation of provisional chronic oral toxicity values (PCOTV) for novel short-chain PFAS congeners. J Appl Toxicol 46(10):3415-3423; doi: [10.1002/jat.70156](https://doi.org/10.1002/jat.70156). PMID: 41814952.

ABSTRACTS AND PRESENTATIONS

Killius A, Covell LT. Characterization of PFAS in Vermont public water systems. Abstract 3892, Society of Toxicology 65th Annual Meeting, San Diego, CA, March 2026.

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

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

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