Sarah Rogers, M.S.

SCIENTIST III

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Mrs. Sarah Rogers is a toxicologist in ToxStrategies' Health Sciences practice. She has ten years of experience assessing the safety of, and potential risks associated with, consumer products (skin care, pesticides) and environmental exposures (endocrine disruptors, pesticides, petroleum-based contaminants). She has supported the development of toxicologically based acceptable levels of human exposure, incorporating innovative quantitative approaches, and evaluating potential remedial approaches.

Her experience in the consulting arena includes conducting safety and risk assessments for both industry and government. Mrs. Rogers has also assisted in large-scale systematic reviews, as well as smaller literature reviews for several chemicals (flavorings, constituents in tobacco and cannabis, solvents, PFAS, phthalates, food additives, heavy metals, wildlife management pesticides). These initiatives have included literature review and screening, assessment of study quality and risk of bias, data extraction and integration, hazard characterization, mode-of-action analysis, and dose-response assessment. Her skill set includes developing literature search strategies, using literature databases (PubMed, Embase), and using various literature organizational databases (EndNote, Mendeley, Zotero, Distiller SR, SysRev, SWIFT, HAWC), as well as the US Environmental Protection Agency's Benchmark Dose Software (BMDS).

EDUCATION AND DEGREES EARNED

2019 M.S., Biology, University of Louisiana at Monroe

2013 B.S., Toxicology, University of Louisiana at Monroe

PROFESSIONAL ASSOCIATIONS

2013–Present Society of Toxicology

SELECTED PROFESSIONAL EXPERIENCE

Risk Assessment, Systematic Review, Weight-of-Evidence Analysis

Assisted large-scale food ingredient landscape reviews. The work consisted of conducting literature searches, using databases such as DistillerSR and SysRev to navigate and manage large volumes of literature, application of AI tools within those databases to refine the articles to be reviewed, manual review of articles, and data output generation and clean-up. Some of the assessments were focused to highlight potential vulnerabilities according to the Delaney Clause.

Conducted literature reviews to create toxicity profiles for groups of microorganisms. The work consisted of literature searching for not only the toxicity of the microorganism, but for biological occurrence and regulatory assessments.

Assisted with literature searches using SWIFT, DistillerSR, and/or SysRev management for multiple systematic and targeted reviews (acetaminophen, vanadium, AFFF, food colorings, PFAS, phthalates, gasoline). The work consisted of conducting the searches and managing literature flow through the review processes. This work focused on TSCA or IARC readiness for upcoming assessments specifically for formaldehyde, gasoline, and phthalates.

Assisted in a multi-year project evaluating integration of the available evidence—epidemiological, toxicological, and mechanistic—regarding the potential association of formaldehyde exposure with cancer in humans, specifically leukemias and nasopharyngeal cancer.

Assisted in the development of toxicological summaries for a private client to be used as supporting documentation for the toxicity information section of the standard Material Safety Sheet.

Completed a weight-of-evidence analysis and data integration of the toxicology and epidemiology evidence for nicotine's effect on several organ systems. The approach included an Evidence Integration Framework (EIF) that included both a disease-based integration of the available data and a mechanistic-based approach for integration of the toxicological and epidemiological data.

Performed a critical review of the literature for the purpose of deriving an acceptable daily intake (ADI) for oral exposure to methyl salicylate. The evaluation included a literature search, a critical review of the literature, an assessment of study quality, and a mode-of-action and human relevance assessment.

Assisted in literature searching and reviewing mode-of-action data for previously determined priority hazardous or potentially hazardous chemicals in a chemical mixture.

Provided support and directed junior staff to extract relevant information for various litigation cases involving client products and health outcomes such as leukemias, bladder cancer, and kidney cancer. The information was extracted from various documents, including depositions, medical records, and expert reports. The work consisted of training new team members, organizing tasks, conducting QA/QC oversight, and data extraction.

Conducted a systematic review to evaluate integration of the available epidemiological, toxicological, and mechanistic evidence regarding the potential for CBD, THC, or other minor cannabinoids to cause human health effects.

Participated in evaluating and summarizing toxicological data used in safety assessments for constituents in food products such as caffeine, taurine, and epicatechin.

Assisted in the compilation and review of regulatory documents to determine levels of human health and ecological concern for multiple active ingredients in a client's products. Assessed risks based on the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and other regulatory criteria.

Performed multiple literature searches and reviews, such as the associations between dust, pest populations, and crop damage, as well as health effects to welders from exposure to welding fumes.

Assisted with a hazardous materials report for the California Wildlife Damage Management Program to identify the risk to humans and non-target wildlife from the exposure to chemical wildlife damage management practices. The work consisted of a literature search and review for multiple chemical descriptions, product uses, environmental fates, and human health and ecological hazard identification.

Environmental Science

Conducted site evaluations of homes affected by natural disasters (flooding, hurricanes) throughout Louisiana. The work included identifying potential hazards in the homeowners' surrounding area according to the Right to Know Act.

Executed facility inspections and maintaining stormwater compliance for a local facility. Work included visual facility and stormwater inspections, stormwater sampling, and compliance reporting.

Performed low-flow sampling and monitoring of well water for gasoline contamination from underground bulk petroleum storage at a site in Grenada, Mississippi, and at another petroleum contamination site in Crupp, Mississippi. The work included measuring and documenting depth to groundwater, dissolved oxygen, conductivity, and other parameters; filling out chain-of-custody documents; collecting samples; and working with on-site equipment.

Participated in multiple groundwater sampling events (Illinois, Texas, North Carolina), a wetland delineation in Alabama, and various air monitoring events in Louisiana.

Listed as on-call personnel for two emergency response clients for shipping accidents on the Mississippi River and for the recovery of wildlife exposed to petroleum in the Gulf area.

PUBLISHED WORK

Thompson CM, Heintz MM, **Rogers SI**, Vincent MJ, Haws LC. 2026. Integration of mechanistic and repeat dose toxicity data in the derivation of an oral reference dose for HFPO-DA. Toxicol Sci 209(5):kfag045; doi: 10.1093/toxsci/kfag045.

Lea IA, Rivera B, **Rogers S**, Borghoff SJ. 2026. Assessment of the carcinogenic potential of automotive gasoline in humans based on mechanistic evidence. Curr Res Toxicol 10:100284; doi: 10.1016/j.crtox.2026.100284.

Mattes RD, Rivera BN, Rutigliani GR, **Rogers S**, Mendoza ID, Wang L, Beckemeier K, Wikoff D. 2024. A review of low- and no-calorie sweetener safety and weight management efficacy. Nutrition Today 59(6):261-288; doi: 10.1097/NT.0000000000000723.

Vincent MJ, Fitch S, Bylsma L, Thompson C, **Rogers S**, Britt J, Wikoff D. 2024. Assessment of associations between inhaled formaldehyde and lymphohematopoietic cancer through the integration of epidemiological and toxicological evidence with biological plausibility. Toxicol Sci 199(2):172–193; doi: 10.1093/toxsci/kfae039.

Greene T, **Rogers S**, Franzen A, Gentry PR. 2017. A critical review of the literature to conduct a toxicity assessment for oral exposure to methyl salicylate. Crit Rev Toxicol 47(2):98–120; doi: 10.1080/10408444.2016.1236071.

PRESENTATIONS

Buerger AN, Lea IA, Vincent MJ, Rivera BN, Choksi NY, Britt J, Fitch S, **Rogers S**, et al. Systematic evaluation of the carcinogenic potential of di-isononyl phthalate in humans. Abstract 3314, Society of Toxicology 65th Annual Meeting, San Diego, CA, March 2026.

Lea I, Rivera B, **Rogers S**, Borghoff SJ. Assessment of the carcinogenic potential of automotive gasoline in humans based on mechanistic evidence. Abstract 5206, Society of Toxicology 65th Annual Meeting, San Diego, CA, March 2026.

Franke K, Vincent M, **Rogers S**, Rivera B, Wikoff D. Assessment of non-occupational exposures to cleaning products and the incidence of asthma and respiratory disease. Abstract 3393, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Thompson CM, Heintz MM, **Rogers SI**, Fitch SE, Rivera BN, Klaren WD, Vincent MJ, Wikoff DS, Haws LC. Evidence identification and appraisal supporting development of an updated toxicity value for HFPO-DA. Abstract 3654, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Vincent M, Fitch S, Bylsma L, Thompson C, **Rogers S**, Britt J, Wikoff D. Integration of toxicological and epidemiological information to evaluate biological plausibility and causality of associations between inhaled formaldehyde (FA) and lymphohematopoietic (LHP) cancers. Abstract 5157, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Rogers S. Autism spectrum disorder in zebrafish after exposure to four organophosphate pesticides. Master's degree defense, University of Louisiana at Monroe, 2019.