

Cynthia J. Langlois, M.S.

Senior Health Scientist

clanglois@gradientcorp.com



Ms. Langlois is a project manager with more than 20 years of experience in characterizing human exposures and describing scientific results to a broad range of audiences. At Gradient, her expertise contributes to a variety of projects, including litigation support. Her work involves evaluating chemical toxicity, assessing human exposure pathways, and analyzing literature to develop expert opinion documents. She started her career at *Consumer Reports*, where she assessed exposures related to consumer products.

Representative Projects

Toxic Tort: For litigation, analyzed soil and air sampling results as well as potential exposure pathways to determine the likelihood of human health effects from chemical exposure.

Data Quality: Managed the organization and data quality assessment of laboratory and field data related to chemical analyses and ecological toxicity.

Evaluation of Historical Toxicity Testing: Evaluated historical toxicity testing of PCBs in order to understand contemporaneous interpretation and how protocols and reporting changed over time for a cost allocation litigation case.

Carbon Nanotubes: Performed review of the human toxicology literature related to single-walled carbon nanotubes. This review was provided to US EPA.

Occupational Exposure: Reviewed medical and occupational records to support exposure assessment in a work-related lawsuit. This information became part of the expert opinion report.

Consumer Product Communications: Provided editorial support for a variety of communications, including press releases, websites, interviews, product labels, speeches, congressional testimony, internal reports, etc. for a consumer product manufacturer. Collaborated with internal decision-makers as well as outside consultants.

Toxicity Criteria Development: Developed health-based inhalation criteria (HBIC) for compounds that did not have US EPA-approved toxicity criteria published in the Integrated Risk Information System (IRIS).

Areas of Expertise

- Toxicology
- Exposure assessment
- Risk communication
- Litigation support
- Data quality

Education

M.S., Public Health (Environmental Health Sciences), University of Massachusetts Amherst

B.S., Public Health, University of Massachusetts Amherst

Graduate course work in Environmental Policy and Management, New York University, Wagner School of Public Policy, New York, NY

Selected Presentations and Publications

Lewis, AS; Beyer, LA; **Langlois, CJ**; Yu, CJ; Wait, AD. 2008. "Considerations in toxicology study design and interpretation: An overview." *Inside Aloe Online – The Official Publication of the IASC*. August 15.

Kostecki, P; Behbehani, M; **Langlois, C**. (Eds.). 2004. *Proceedings of the First International Congress on Petroleum Contaminated Soils, Sediments and Water*. London, UK, August 14-17.

Langlois, C. 2003. "Backgrounder on children's environmental health research centers." *Journal of Children's Health* 1:109-116.

Langlois, C; Garreffi, J; Baldwin, L; Calabrese, E. 1995. "The effect of combined exposures of chlorite, copper and nitrite on methemoglobin formation in red blood cells of Dorset sheep." In *Toxicology and Risk Assessment: Principles, Methods and Applications*. (Ed.: Fan, AM; Chang, LW), Marcel Dekker, Inc., New York, p401-410.

Langlois, C; Calabrese, E. 1992. "The interactive effect of chlorite, nitrite and copper on methemoglobin formation in red blood cells of Dorset sheep." *Hum. Exp. Toxicol.* 11:223-228.



Science and Strategies for Health and the Environment www.gradientcorp.com

One Beacon Street, 17th Floor, Boston, MA 02108 | 617-395-5000