John Cowden, Biologist, in EPA's National Center for Computational Toxicology

Mailing Address

cowden.john@epa.gov

Area of Expertise: Dr. Cowden has worked for more than 10 years at the US EPA. He has performed research on chemical safety using alternative species to identify developmental neurotoxicants. He has also worked on human health risk assessments, serving as an expert in developmental biology and neurodevelopment. In his current role, Dr. Cowden manages NCCT's research portfolio for the Chemical Safety for Sustainability, Human Health Risk Assessment, and Safe and Sustainable Water Research National Programs. He helps facilitate communications between the National Programs and NCCT on initiation, progress, and delivery of research products, and he works to align NCCT scientific research with National Program strategic vision.

Select Publications:

Joca, L., Lee, J., Sachs, J., Sams, R., and Cowden J. "Systematic Review of Differential Inorganic Arsenic Exposure in Minority, Low-income, and Indigenous Populations in the United States." Environment International – in press (advance publication online) February 2016 http://dx.doi.org/10.1016/j.envint.2016.01.011 Exit

Carlin,D., Naujokas, M., Bradham, K., Cowden, J., Heacock, M., Henry, H., Lee, J., Thomas, D., Thompson, C., Tokar, E., Waalkes, M., Birnbaum, L., and Suk, W. Arsenic and Environmental Health: State of the Science and Future Research Opportunities." Environmental Health Perspective – in press (advance publication online) November 2015 DOI:10.1289/ehp.1510209 Exit

Mundy WR, Padilla S, Breier JM, Crofton KM, Gilbert ME, Herr DW, Jensen KF, Radio NM, Raffaele KC, Schumacher K, Shafer TJ, Cowden J. "Expanding the test set: Chemicals with potential to disrupt mammalian brain development. Neurotoxicology and Teratology 52 (2015) 25–35. Exit

Antonelli, R; Thomas, D., Sams, R., and Cowden. J. "Genotypic Variation in the Metabolic Pathway of Inorganic Arsenic Impacts Phenotypes for both Methylation and Disease Susceptibility" – Environ Research 2014 Jul;132:156-67. Exit

Powers, C., Bale, A., Kraft, A., Makris, S., Trecki, J., Cowden, J., Hotchkiss, A., Raffaele, K., and Gillespie, P. "Developmental Neurotoxicity of Engineered Nanomaterials: Identifying Research Needs to Support Human Health Risks Assessment." Toxicol Sci. 2013 Aug; 134(2):225-42). Exit

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Education:

- BS in Biology, minor in Chemistry, College of William and Mary
- Ph.D. in Molecular and Cell Biology, University of California at Berkeley

Professional Experience:

- ORD Bronze Medal for IRIS Outreach
- NCEA Gold Medal for inorganic arsenic public workshop
- ORD Bronze Medal for working on EPA response to E15 biofuel waiver request

Additional Publications:

National Center for Biotechnology Information Exit