**Russell Thomas, Director, in EPA's National Center for Computational Toxicology**

Mailing Address

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**Area of Expertise:** Dr. Thomas' area of expertise is in the application of high-throughput and high data content approaches to chemical toxicity testing.  He has a broad, multidisciplinary background and experience but his formal academic training was in chemistry, radiation health physics, and toxicology.  He then received postdoctoral training in molecular biology and genomics.  Following his academic training, Dr. Thomas performed bioinformatics and genomics research in the biotechnology sector and gained experience in high-throughput screening and *in vitro* assay development in the biopharma sector. Prior to coming to the U.S. EPA, Dr. Thomas worked as an investigator and the the director of the Institute for Chemical Safety Sciences at The Hamner Institutes for Health Sciences.

**Select Publications:**

Shah, I., Liu, J., Judson, R.S., Thomas, R.S., Patlewicz, G. (2016). Systematically evaluating read-across prediction and performance using a local validity approach characterized by chemical structure and bioactivity information. Regul Toxicol Pharmacol. 79:12-24. Exit

Kuo, B., Francina Webster, A., Thomas, R.S., Yauk, C.L. (2016). BMDExpress Data Viewer - a visualization tool to analyze BMDExpress datasets. J Appl Toxicol. 36(8):1048-59. Exit

Harrill, J.A., Layko, D., Nyska, A., Hukkanen, R.R., Manno, R.A., Grassetti, A., Lawson, M., Martin, G., Budinsky, R.A., Rowlands, J.C., Thomas, R.S. (2015). Aryl hydrocarbon receptor knockout rats are insensitive to the pathological effects of repeated oral exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. J Appl Toxicol. 36(6):802-14. Exit

Judson, R.S., Magpantay, F.M., Chickarmane, V., Haskell, C., Tania, N., Taylor, J., Xia, M., Huang, R., Rotroff, D.M., Filer, D.L., Houck, K.A., Martin, M.T., Sipes, N., Richard, A.M., Mansouri, K., Setzer, R.W., Knudsen, T.B., Crofton, K.M., Thomas, R.S. (2015). Integrated Model of Chemical Perturbations of a Biological Pathway Using 18 In Vitro High Throughput Screening Assays for the Estrogen Receptor. Toxicol Sci. 148(1):137-54. Exit

View more research publications by Russell Thomas.

**Education:**

- B.A., Tabor College, Hillsboro, KS; Chemistry, 1991
- M.S., Colorado State University, Fort Collins, CO; Radioecology and Health Physics, 1993
- Ph.D., Colorado State University, Fort Collins, CO; Toxicology, 1997
- Post-doc, McArdle Laboratory for Cancer Research, Madison, WI; Genomics and Molecular Biology, 2000

**Professional Experience:**

- Member, Society of Toxicology Speaker Bureau, 2015 – Present

- Member, Expert Advisory Panel, Safety Evaluation Ultimately Replacing Animal Testing (SEURAT-1), Joint Program by European Commission and European Cosmetics Association, 2012 – Present
- Society of Toxicology Board of Publications Best Paper Award, 2014
- Best Paper Advancing the Science of Risk Assessment by the Risk Assessment Specialty Section, Society of Toxicology, 2014

**Additional Publications:**

National Center for Biotechnology Information Exit