

Ann Richard, Research Chemist, in EPA's National Center for Computational Toxicology

[Mailing Address](#)

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Area of Expertise: Dr. Richard has worked as a computational chemist researcher in EPA's Office of Research and Development for over 30 years, joining the National Center for Computational Toxicology (NCCT) in 2005. Within NCCT, she has led the DSSTox project and chemical management efforts in support of EPA's ToxCast and Tox21 programs. Her research interests lie in creating a knowledge-informed cheminformatics interface between the chemical landscape and the in vitro and in vivo data landscapes that can be used to guide modeling into productive areas of mechanistic inquiry.

Select Publications:

Richard, A.M., Judson, R.S., Houck, K.A., Grulke, C.M., Volarath, P., Thillainadarajah, I., Yang, C., Rathman, J., Martin, M.T., Wambaugh, J.F., Knudsen, T.B., Kancherla, J., Mansouri, K., Patlewicz, G., Williams, A.J., Little, S.B., Crofton, K.M., and Thomas, R.S. [The ToxCast Chemical Landscape: Paving the Road to 21st Century Toxicology](#). Chem. Res. Toxicol. DOI: 10.1021/acs.chemrestox.6b00135, 2016. [Exit](#)

Mansouri, K., Abdelaziz, A., Rybacka, A., Roncaglioni, A., Tropsha, A., Varnek, A., Zakharov, A., Worth, A., Richard, A.M., (31 other authors), Judson, R.J. [CERAPP: Collaborative Estrogen Receptor Activity Prediction Project](#), Environ. Health Perspec. 124:1023–1033, 2016. [Exit](#)

Rager, J.E., Strynar, M.J., Liang, S., McMahan, R.L., Richard, A.M., Grulke, C.M., Wambaugh, J.F., Isaacs, K.K., Judson, R., Williams, A.J., Sobus, J.R. [Linking High Resolution Mass Spectrometry Data with Exposure and Toxicity Forecasts to Advance High-Throughput Environmental Monitoring](#), Environmental International. Environ. International, 88:269-280, 2016. [Exit](#)

Yang, C., Tarkhov, A., Marusczyk, J., Bienfait, B., Gasteiger, J., Kleinoeder, T., Magdziarz, T., Sacher, O., Schwab, C.H., Schwoebel, J., Terfloth, L., Arvidson, K., Richard, A., Worth, A., Rathman, J. [New publicly available chemical query language, CSRML, to support chemotype representations for application to data mining and modeling](#). J. Chem. Inf. Model. 55:510-28, 2015. [Exit](#)

View more research publications by [Ann Richard](#).

Education:

- B.A./B.S., State University of New York at Oswego, NY; Math/Chemistry, 1978
- Ph.D., University of North Carolina at Chapel Hill, NC; Theoretical Physical Chemistry, 1983

Professional Experience:

- ORD Science & Technology Achievement Awards, Level III, 2011, 2012, 2015

- EPA National Honor Award: Science Achievement Awards, 2012, 2013, 2014
- White House Invitation for Champions of Change: Open Science Award Ceremony, 2013
- EPA Superior Achievement Recognition Awards, 2009-2015

Additional Publications:

[National Center for Biotechnology Information](#) [Exit](#)