

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

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**Area of Expertise:** Dr. Judson develops databases and computer applications to model and predict toxicological effects of a wide range of chemicals. He is a member of the EPA ToxCast team where he leads the effort in bioinformatics. His team has developed the ACToR (Aggregated Computational Toxicology Resource) database and application which compiles all publicly available data on environmental chemicals. Dr. Judson has authored research publications in areas including computational biology and chemistry, bioinformatics, genomics, human genetics, toxicology and applied mathematics.

**Select Publications:**

**RS Judson**, FM Magpantay, V Chickarmane, C Haskell, N Tania, J Taylor, M Xia, R Huang, DM Rotroff, DL Filer, KA Houck, MT Martin, N Sipes, AM Richard, K Mansouri, RW Setzer, TB Knudsen, KM Crofton, RS Thomas, "[Integrated Model of Chemical Perturbations of a Biological Pathway Using 18 In Vitro High Throughput Screening Assays for the Estrogen Receptor](#)", ToxSci 148 (1) pp 137-154 (2015)

**R Judson**, K Houck, M Martin, AM Richard, TB Knudsen, I Shah, S Little, J Wambaugh, RW Setzer, P Kothya, J Phuong, D Filer, D Smith, D Reif, D Rotroff, N Kleinstreuer, N Sipes, M Xia, R Huang, K Crofton, RS Thomas, "[Analysis of the Effects of Cell Stress and Cytotoxicity on In Vitro Assay Activity in the ToxCast Dataset](#)", Tox.Sci. doi: 10.1093/toxsci/kfw092 (2016)

K Mansouri [39 other authors], **R.S. Judson**, "[CERAPP: Collaborative Estrogen Receptor Activity Prediction Project](#)", Environ. Health Perspec. 124:7 pp 1023-1033 (2016)

**R. S. Judson**, D.J. Dix, R. J. Kavlock, R.W. Setzer, E.A. Cohen Hubal, M.T. Martin, T.B. Knudsen, K.A. Houck, R. S. Thomas, B.A. Wetmore, "[Estimating Toxicity-Related Biological Pathway Altering Doses for High-Throughput Chemical Risk Assessment](#)" Chem. Research in Toxicology, 24 (4), 451-462 (2011)

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

**Education:**

- B.A., Rice University, Houston, TX; Chemistry and Chemical Physics, 1981
- M.A., Princeton University, Princeton, NJ; Chemistry, 1984
- Ph.D., Princeton University, Princeton, NJ; Chemistry, 1988

**Professional Experience:**

- EPA / ORD Gold Coin Award for Response to Gulf Oil Spill (2011)
- EPA Science and Technological Achievement Award / National Honor Award "For outstanding accomplishment establishing a computational toxicology program" (2011)

- EPA / OSCPP Honor Award: “Endocrine Disruptor Screening Program Team, Silver Medal for Superior Service” (2013)
- EPA / ORD Honor Award: Exceptional/Outstanding ORD Technical Assistance to the Regions or Program Offices, Endocrine Disruptor Screening Program Assistance Team (2014)

**Additional Publications:**

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