

Future Work

Antony John Williams

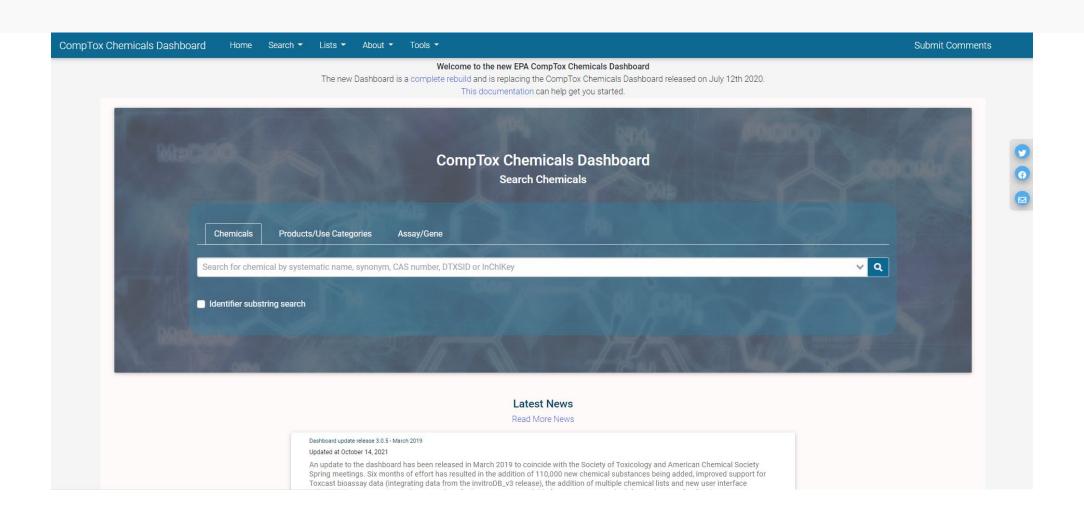
williams.antony@epa.gov

Center for Computational Toxicology and Exposure, US-EPA, RTP, NC

A4 Short Course – Tour de Force of Tools from the US Environmental Protection Agency to Support Assessments of Alternatives

Coming Soon....NEW DASHBOARD https://ccte-ccd.epa.gov/dashboard/





Proof-of-Concept Apps

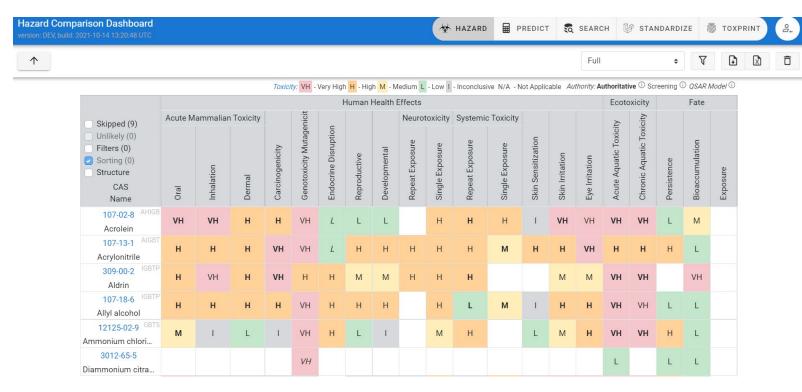


Structure-substructure-similarity searching of Dashboard

Batch prediction of physicochemical properties and toxicity

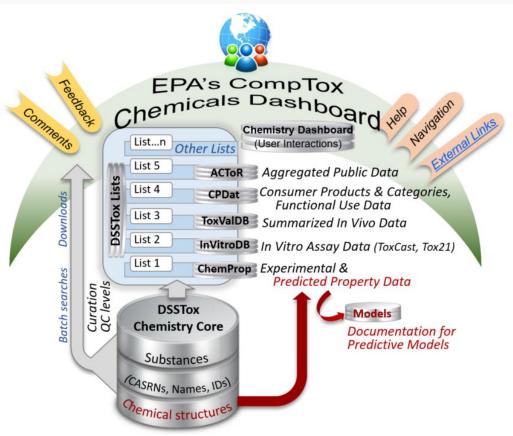
• "Hazard Comparison Dashboard" for comparing hazard profiles

for chemicals

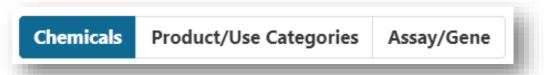


Summary and Conclusion





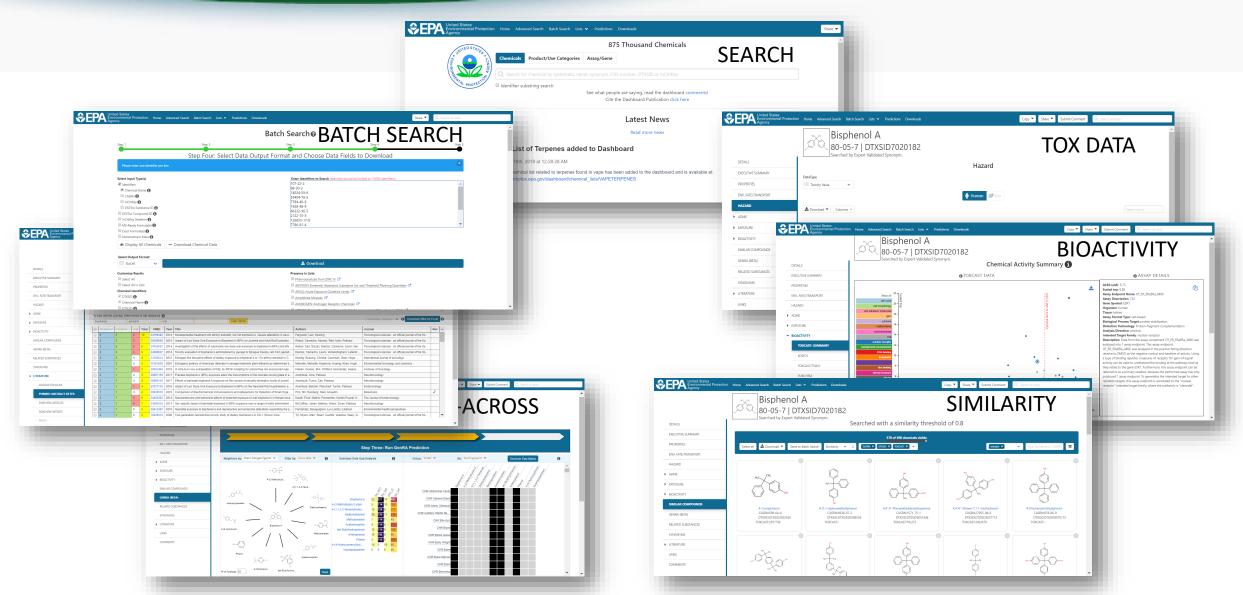
- CompTox Chemicals Dashboard a central hub for environmental data
 - ~883k chemical substances (right now...)
 - Integrating property data, hazard data, exposure data, in vitro bioactivity data
 - Interrogation of bioactivity data -
 - Multiple types of searches



- Batch search for thousands of chemicals
- Real-time property and toxicity predictions
- Downloadable files CSV, TSV and Excel

CompTox Chemicals Dashboard https://comptox.epa.gov/dashboard

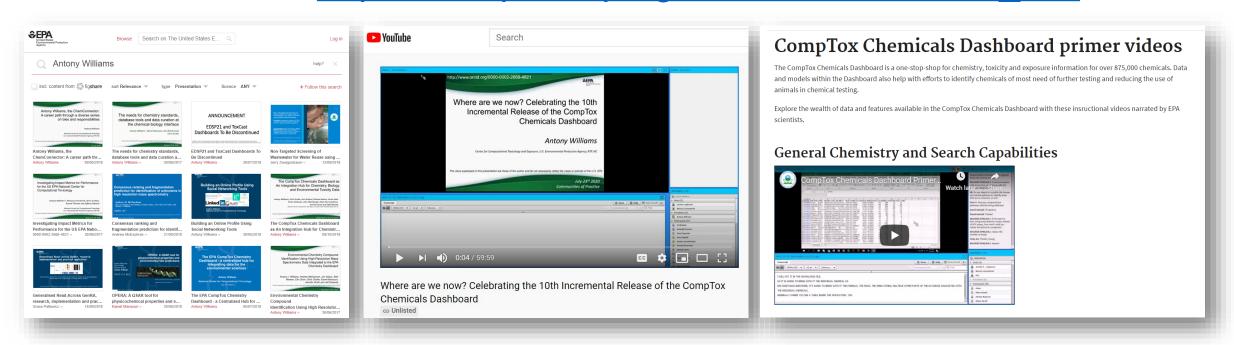




You want to know more...



- Lots of resources available
 - Presentations: https://tinyurl.com/w5hqs55
 - Communities of Practice Videos: https://rb.gy/qsbno1
 - Manual: https://rb.gy/4fgydc
 - Latest News: https://comptox.epa.gov/dashboard/news info



Recommended Reading





Environment International

Volume 154, September 2021, 106566



Review article

Sourcing data on chemical properties and hazard data from the US-EPA CompTox Chemicals Dashboard: A practical guide for human risk assessment

Antony J. Williams ^a $\stackrel{\triangle}{\sim}$ M, Jason C. Lambert ^a, Kris Thayer ^b, Jean-Lou C.M. Dorne ^c

Acknowledgments



Contacts:

- Martin.Todd@epa.gov
- Phillips.Katherine@epa.gov
- Williams.Antony@epa.gov
- Feedback and follow-up is welcomed!
 Your questions help
- The dashboard is based on the efforts of many more team members than us. Many collaborators provide data also.



EPA's Center for Computational Toxicology and Exposure