

FASTER SCIENCE FOR BETTER DECISIONS: CHARACTERIZING ENVIRONMENTAL CONTAMINANT RISK FROM HIGH THROUGHPUT DATA

High Throughput Screening for Hazard and Risk of Environmental Contaminants

David Dix

Defining the Exposure-Dose-Toxicity Relationships in High-Throughput Screens
Using In Vitro Pharmacokinetic Assays and Reverse Dosimetry

Rusty Thomas

Consideration of “Dose” in Evaluation of ToxCast Data: Use of Biomonitoring and
Pharmacokinetic Data

Sean Hays

Accounting For Uncertainty in the Application of High Throughput Datasets

Woody Setzer

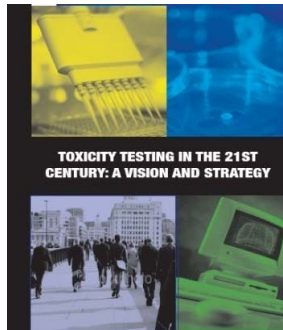
Putting High Throughput Chemical Risk Characterization into Real-World Practice

Ila Cote

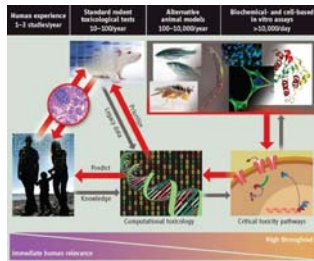


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The Present and Future

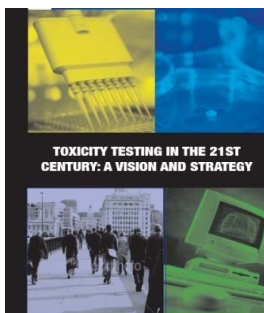
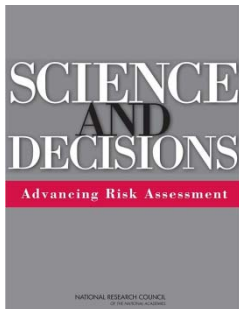


- Over the past 3 years, we have seen a large effort towards using *in vitro* HTS data for hazard identification and prioritization.
- In looking to the future, the next logical step is to ask whether the same *in vitro* HTS data can be used in quantitative risk assessment.



Collins *et al.*, Science
319:906, 2008

Putting it into Practice



- If we do plan on using *in vitro* HTS data in risk assessment...
 - Do we proceed using traditional risk assessment approaches?
 - Do we need to explore other alternatives?
- The main purpose behind the symposium is to begin the discussion

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