

# Director's Report to the NTP Board of Scientific Counselors

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NTP Board of Scientific Counselors meeting December 2, 2015







## **Appropriations**

- House Labor, HHS, ED & Related Agencies bill reported
- Senate Labor, HHS, ED & Related Agencies bill reported
- House and Senate Interior, Environment, & Related Agencies bills reported







# **Appropriations**

	FY 2014 Appropriation	FY 2015 Omnibus	FY 2016 President's Request	FY 2016 House Appr Committee	FY 2016 Senate Appr Committee
NIEHS	\$ 665,439,000	\$ 667,333,000a/	\$ 681,782,000	\$ 675,783,000	\$ 695,900,000
NIH (LHHS)	\$29,853,513,000	\$30,084,000,000	\$31,084,000,000	\$31,184,000,000	\$32,084,000,000
Common Fund	\$ 533,039,000	\$ 545,639,000 <sup>b</sup> /	\$ 545,639,000 <sup>b/</sup>	\$ 688,239,000 <sup>b/</sup>	\$ 556,677,000 <sup>b/</sup>
Superfund	\$ 77,349,000	\$ 77,349,000	\$ 77,349,000	\$ 77,349,000	\$ 77,349,000
NIEHS/DOE Training	\$ 10,000,000	\$ 10,000,000		\$ 10,000,000	

a/ Reduced by \$169,000 transfer to the NIH Office of AIDS Research.

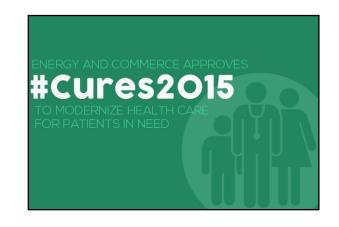
b/ Includes addition of \$12.6 million for the Gabriella Miller Kids First Act pediatric research initiative.





## **Relevant Legislation**

- 21st Century Cures Act
  - Passed by House
  - Similar Bill under Development in Senate
- Climate Change Health
  Protection and Promotion Act





Lois Capps (D-CA)





#### **TSCA Reform**

- Frank R. Lautenberg Chemical Safety for the 21<sup>st</sup> Century Act
- TSCA Modernization Act of 2015
  - Passed by House
- Alan Reinstein and Trevor Schaefer Toxic Chemical Protection Act
  - Introduced by Sen. Barbara Boxer (D-CA)





Sen. Barbara Boxer (D-CA)



## **Children's Health Exposure Analysis Resource**

#### **CHEAR**

A redirection of National Children's Study funds to provide the extramural research community access to laboratory and data analyses to add or expand the inclusion of environmental exposures in their children's health research.

- Expand the number of studies that include environmental exposure analysis in their studies,
- Implement the exposome concept in children's health studies,
- Create a public resource of children's exposures across the country, and
- Develop data and metadata standards for the environmental health sciences community.



+\$4M for NTP!

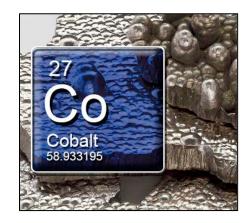




Cell-Based High-Throughput Screening for Aromatase Inhibitors in the Tox21 10K Library. Chen S, Hsieh JH, R Huang R, Sakamuru S, Hsin LY, Xia M, Shockley KR, Auerbach S, Kanaya N, Lu H, Svoboda D, Witt KL, Merrick BA, TengCT and RR Tice RR. Toxicol. Sci. 2015. [InPress] (SP Goal 1)

Kras, egfr, and tp53 mutations in b6c3f1/n mouse and f344/ntac rat alveolar/bronchiolar carcinomas resulting from chronic inhalation exposure to cobalt metal. Hong HH, Hoenerhoff MJ, Ton TV, Herbert RA, Kissling GE, Hooth MJ, Behl M, Witt KL, Smith-Roe SL, Sills RC, Pandiri AR. Toxicol Pathol. 2015. 2015/06/11 (SP Goal 1)





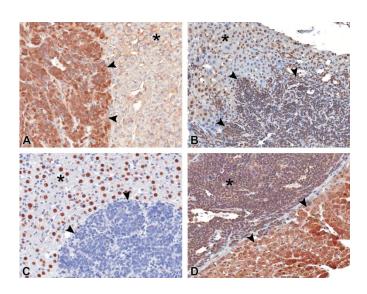




Population-based *in vitro* hazard and concentration-response assessment of chemicals: The 1000 genomes high-throughput screening study. Abdo N, Xia M, Brown CC, Kosyk O, Huang R, Sakamuru S, Zhou Y-H, Jack JR, Gallins P, Xia K, Li Y, Chiu WA, Motsinger-Reif AA, Austin CP, Tice RR, Rusyn I, Wright FA. EHP. 2015.



Genomic profiling reveals unique molecular alterations in hepatoblastomas and adjacent hepatocellular carcinomas in B6C3F1 mice. Bhusari S, Pandiri AR, Nagai H, Wang Y, Foley J, Hong HL, Ton TV, DeVito M, Shockley KR, Peddada SD, Gerrish KE, Malarkey DE, Hooth MJ, Sills RC, Hoenerhoff MJ Tox Path. 2015.







#### Bisphenol A, Bisphenol S, and 4-Hydroxyphenyl 4-Isoprooxyphenylsulfone (BPSIP) in Urine and Blood of Cashiers.

Thayer KA, Taylor KW, Garantziotis S, Schurman S, Kissling GE, Hunt D, Herbert B, Church R, Jankowich R, Churchwell MI, Scheri RC, Birnbaum LS, Bucher JR. EHP. 2015.

BPS

BPSIP (D-8)

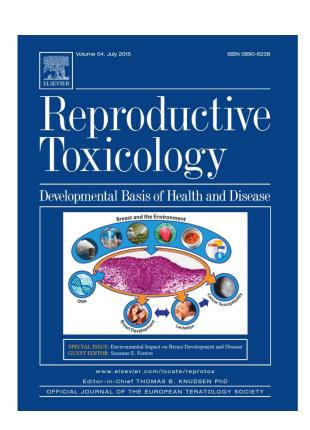




### **Environmental Impact on Breast Development and Disease:**

a special issue of *Reproductive Toxicology* (July 2015)

- Environmental exposures, breast development and cancer risk: Through the looking glass of breast cancer prevention. Forman MR, Winn DM, Collman GW, Rizzo J, Birnbaum LS
- The mammary glad is a sensitive pubertal target in CD-1 and C57B1/6 mice following perinatal perfluorooctanoic acid (PFOA) exposure. Tucker DK, Macon MB, Stryner MJ, Dagnino S, Andersen, E, Fenton SE
- Application of Scholl analysis to quantify changes in growth and development in rat mammary gland whole mounts. Stanko JP, Easterling MR, Fenton SE
- Concentrations of environmental phenols and parabens in milk, urine and serum of lactating North Carolina women. Hines EP, Mendola P, von Ehrenstein OS, Ye X, Calafat AM, Fenton SE





## **Meetings and Events**

 Elucidating Environmental Dimensions of Neurological Disorders and Diseases: Understanding New Tools from Federal Chemical Testing Programs at UC Davis (Jun 18-19) (SP Goals: 1, 3)

 Strengthening the Scientific Basis for Chemical Safety Assessments at EPA, RTP (Jul 15-16)

(SP Goals: 1, 2, 3, 4)









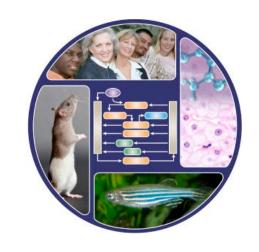
- Peer Review of Draft NTP Technical Report on Pentabromodiphenyl Ether Mixture [DE71 Technical Grade] at NIEHS (Jun 25)
- Peer Review of Draft Report on Carcinogens Monograph on Cobalt and Certain Cobalt Compounds at NIEHS (Jul 22)
- Scientific Advisory Committee on Alternative Toxicological Methods at NIEHS (Sept 2)
- Alternative Approaches for Identifying Acute Systemic Toxicity: Moving from Research to Regulatory Testing at NIH, Bethesda, MD (Sept 24-25)





## **Upcoming Meetings**

- OECD Validation Management Group-Non-Animal, in Budapest, Hungary (Dec 1-3)
- In Vitro to In Vivo Extrapolation for High Throughput Prioritization and Decision Making
  - Webinars: Dec 3 and Jan 6
  - Workshop at EPA, RTP: Feb 17-18
- Peer Review of Draft Report on Carcinogens Monographs on Selected Viruses at NIEHS (Dec 17)





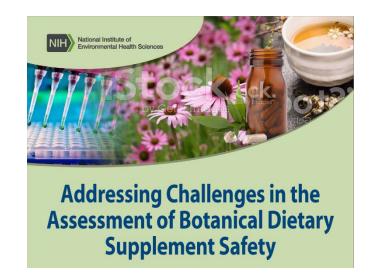
Visit from Representatives David Price and Rosa DeLauro (Dec 14)



## **Upcoming Meetings (cont.)**

- ICCVAM Communities of Practice Webinar: Basic Principles of QSARs and Read Across (Jan 26)
- Peer Review of Draft NTP Technical Reports on Antimony Trioxide and TRIM® VX at NIEHS (Feb 16)
- Workshop: Addressing Challenges in the Assessment of Botanical Dietary Supplement Safety at NIH, Bethesda, MD (Apr 26-27)
- ICCVAM Public Forum at NIH, Bethesda, MD (May 25)







## **Retiring BSC members:**

- Robert Chapin, PhD
- David Dorman, DVM, PhD, DABVT, DABT, ATS
- Jack Harkema, DVM, PhD, DACVP
- Dale Hattis, PhD
- Sonya Sobrian, PhD





# **Thank You!**

