Report to the National Advisory Environmental Health Sciences Council

September 11, 2012

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Director
National Institute of Environmental Health Sciences
National Toxicology Program
Strategic Plans

The NICEATM-ICCVAM Five-Year Plan

A plan to advance innovative test methods of high scientific quality to protect and improve the health of people, animals, and the environment

DRAFT: May 14, 2012

Prepared by the Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM) and the National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM)

National Institute of Environmental Health Sciences
National Institutes of Health
U.S. Public Health Service
Department of Health and Human Services
Challenge.gov

My Air My Health
U.S. Department of Health and Human Services
U.S. Environmental Protection Agency

A joint competition to create the best personal sensor system to simultaneously measure air pollution and associated physiological responses
Phase I - 4 finalists, $15K each
Phase II - $100K
Office of Fellows’ Career Development

Dr. Tammy Collins
## FY 2013 Appropriations

<table>
<thead>
<tr>
<th></th>
<th>FY 2010 Appropriation</th>
<th>FY 2011 Full-Year CR</th>
<th>FY2012 Appropriation</th>
<th>FY2013 President’s Request</th>
<th>FY2013 House Subcommittee</th>
<th>FY2013 Senate Committee</th>
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<tr>
<td>NIEHS</td>
<td>$ 689,781,000</td>
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<td>Superfund*</td>
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*Interior & Environment FY13 appropriations bill passed House appropriations committee. No action in Senate.
Legislative Report

• Senate Labor HHS allocation reported with $100M increase for NIH and $2M for NIEHS
  – Highlighted research priorities in women’s health
  – Expand Tox21 type tools and methods
  – $165M for continuation of National Children’s Study

• House Labor bill includes $725,000 cut for NIEHS
  – Prohibition on NIEHS using funds for RoC until 30 days after NAS peer review of process
  – $175M for National Children’s Study

  – House Interior/Environment bill reported but not voted on cuts funding for NIEHS Superfund by $4M
  – House Energy and Water bill passed with no mention of the NIHES/DOE WETP. Senate report directs DOE to fund the program but doesn’t give amount

  – Sequestration effects - testimony by Dr. Collins
Legislative Report (cont.)

- **Title 42 bill**
  - Limit use of Title 42 to HHS
  - Limit total number of Title 42s to 5% of employees
  - Salary cap on Title 42s to 150% of Level 1 of SES ($199,000)
  - Annual report to Congress on Title 42 numbers
  - Exemption for up to 50 people by Secretary HHS

- **Conference and Travel Support**
  - Prohibit paying travel for >50 employees to intl meetings unless Secretary deems necessary
  - Require quarterly posts on agency websites detailing travel expenses for conferences
  - Limit FY2013-2017 travel costs to 70% of FY2010 amts.
  - Prohibit spending >$500,000 on a single conference
  - Require posting of conference presentations
Science Advances

• Prevalence and sociodemographic correlates of antinuclear antibodies in the United States.
  Satoh M, EKL Chan, LA Ho, KM Rose, CG Parks(DIR), RD Cohn, TA Jusko(DIR), NJ Walker(DNTP), DR Germolec(DNTP), IZ Whitt, PW Crockett, BA Pauley, JYF Chan, SJ Ross, LS Birnbaum(OD), DC Zeldin(DIR) and FW Miller(DIR). *Arthritis Rheum*, July 2012

• Criteria for environmentally associated autoimmune diseases.
  Miller FW(DIR), KM Pollard, CG Parks(DIR), DR Germolec(DNTP), PSC Leung, C Selmi, MC Humble(DERT) and NR Rose. R. *J Autoimmun*, July 2012

• Cerium dioxide nanoparticles induce apoptosis and autophagy in human peripheral blood monocytes.
  Hussain S(CRU), F Al-Nsour(CRU), AB Rice(CRU), J Marshburn(CRU), B Yingling(CRU), Z Ji, JI Zink, NJ Walker(DNTP) and S Garantziotis (CRU). *ACS Nano*
Science Advances (cont.)


NIEHS News and Highlights

Science Data and Translation

• NTP Systematic Review Methodology

• Chemical Effects in Biological Systems Database Improvements

• Nanomaterial Registry

• Journal of Visualized Experiments (JoVE)
NIEHS News and Highlights
Global Environmental Health and Sustainable Development

- Rio+20 Sustainability Indicators
- WHO Collaborating Centre
  - A literature search on climate change and human health for the NCA
  - A research paper on indoor air assessment and biomarkers of exposure to support the work of the Global Alliance for Clean Cookstoves
  - A pre-event meeting at PPTox III that brought together researchers on NCDs and DOHAD
  - Assistance to the NTP literature review and screening of children’s health outcomes related to air pollution exposures
  - Support for expert participation in international meetings on children’s health, low-dose response and endocrine disrupting chemicals, and international chemical management
- GEHSD Program Plans
- Clean Cookstoves Support Act of 2012
NIEHS News and Highlights

Environmental Health Ethics

• NIEHS Office of Ethics headed by Bruce Androphy, J.D.
  – Annual Ethics Day
  – Ethics Insights Newsletter

• "Environmental Health Ethics"
  by resident bioethicist David Resnik, J.D., Ph.D.
NIEHS News and Highlights
Meetings and Events

• Emerging Issues in Large Scale Genetic Studies
• Parkinson’s Premotor Symptoms Symposium
• NAS Emerging Science Workshop on Systems Biology and Informed Risk Assessment
• EPA-NIEHS Climate Change Student Workshop
• Genes, Environment, and Health Initiative Grantees
NIEHS News and Highlights
Meetings and Events

- Environmental Justice Stakeholders Meeting
- NAS workshop on underlying individual susceptibility
- Nanotechnology Health Implications Research Consortium
- ATSDR-NIEHS Superfund Research Programs
- SRP Stakeholder Meeting on Oil Spills and Environmental Disasters: Engaging Experts and Communities
NIEHS News and Highlights

Upcoming Meetings

- Low-Dose Effects of Non-Monotonic Dose Responses for Endocrine Active Chemicals, Berlin, Germany, September 11-13, 2012


- 2012 Fall WETP Awardee Meeting and Workshop, RTP, NC, October 10-12, 2012

- Superfund 25th Anniversary Celebration, Raleigh, NC, October 21-24, 2012


- 20th Anniversary Celebration of the NIEHS (NTP)FDA(NCTR) Interagency Agreement, Silver Springs, MD, 14 November, 2012

- IOM Roundtable on Environmental Health Sciences, Research, and Medicine: Ecosystem Services, Washington, DC, November 2012 and Energy Future and Health: Transportation Fuels, January 2013
NIEHS News and Highlights
Awards and Recognition

Dr. Xiaohua Gao

Ms. Yasmin Crespo-Mejias
NIEHS News and Highlights
Awards and Recognition

Dr. Kenneth Olden
Mr. David Ciplet

Photo of Dr. Kenneth Olden courtesy of CUNY Media Relations
Thank you!
Questions?