

Report to the National Advisory Environmental Health Sciences Council

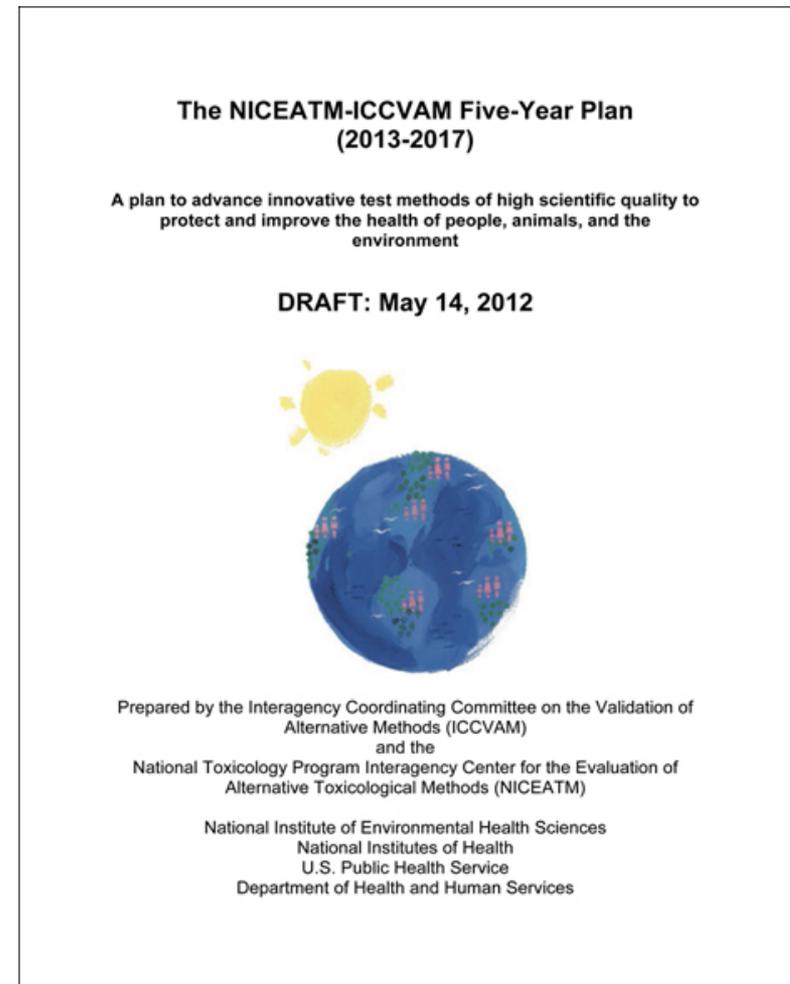
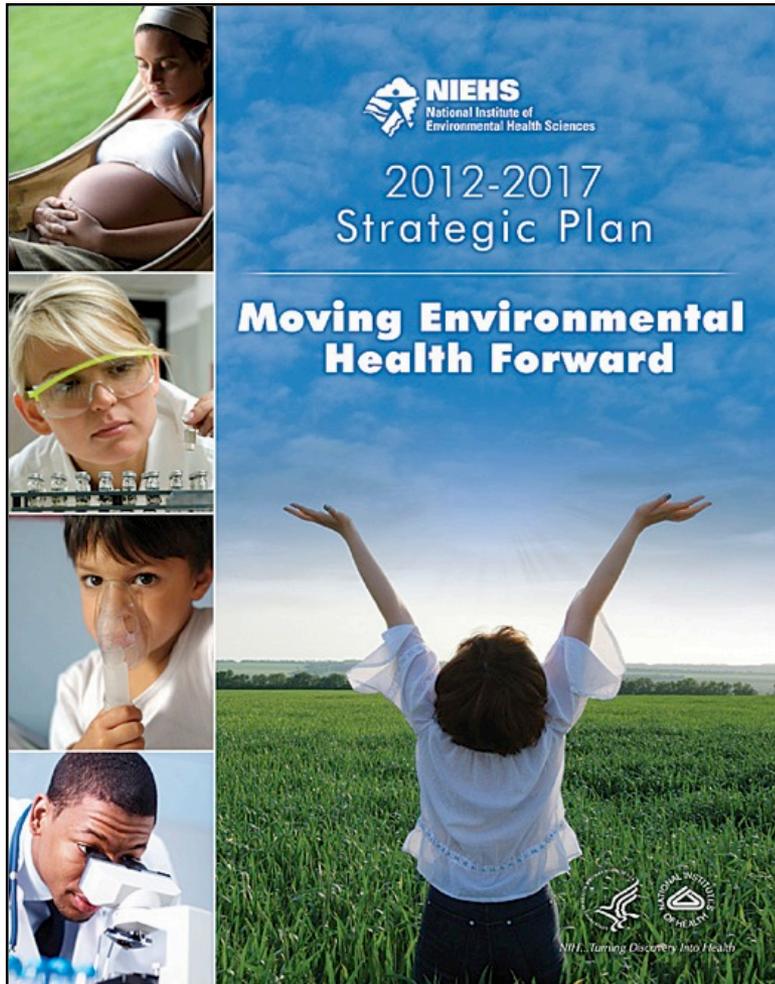
September 11, 2012

**Linda Birnbaum, PhD, DABT, ATS
Director**

National Institute of Environmental Health Sciences
National Toxicology Program



Strategic Plans



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

	FY 2010 Appropriation	FY 2011 Full-Year CR	FY2012 Appropriation	FY2013 President's Request	FY2013 House Subcommittee	FY2013 Senate Committee
NIEHS	\$ 689,781,000	\$ 683,724,312	\$ 685,570,818	\$ 684,030,000	\$ 684,755,000	\$ 686,103,000
NIH	\$31,008,788,000	\$30,688,286,000	\$30,631,986,000	\$30,631,459,000	\$30,623,259,000	\$30,731,459,000
Common Fund	\$ 544,109,000	\$ 543,021,000	\$ 544,930,000	\$ 544,930,000	\$ 544,930,000	\$ 544,930,000
Superfund*	\$ 79,212,000	\$ 79,053,576	\$ 78,927,514	\$ 78,928,000	\$ 74,928,000	
NIEHS/DOE Training	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000			

* 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 NIEHS/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.

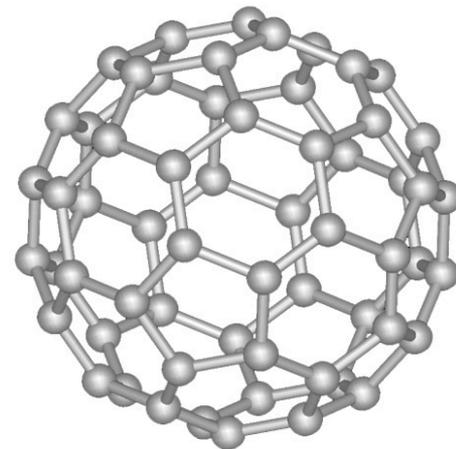
Satoh M, EKL Chan, LA Ho, KM Rose, CG Parks(DIR), RD Cohn, TA Jusko(DIR), NJ Walker(DNTP), DR Germolec(DNTP), IZ Whitt, PW Crockett, BA Pauley, JYF Chan, SJ Ross, LS Birnbaum(OD), DC Zeldin(DIR) and FW Miller(DIR). *Arthritis Rheum*, July 2012

- 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

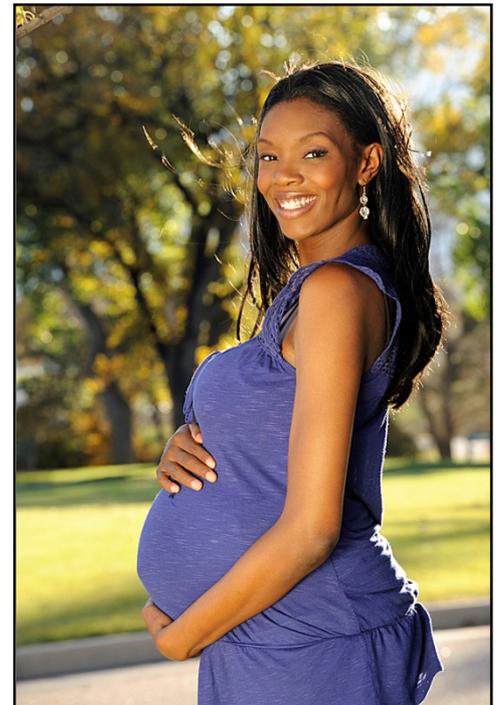
- Cerium dioxide nanoparticles induce apoptosis and autophagy in human peripheral blood monocytes.

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 Garantzotis (CRU). *ACS Nano*



Science Advances (cont.)

- Systematic localization of common disease-associated variation in regulatory DNA.
Maurano MT, Humbert R, Rynes E, et al. *Science* Sept 2012.
- Gestational exposure to bisphenol A produces transgenerational changes in behaviors and gene expression.
Wolstenholme JT, Edwards M, Shetty SR, et al. *Endocrinology*, June 2012
- Regulating the regulators: The pervasive effects of Pol II pausing on stimulus-responsive gene networks.
Gilchrist DA, Fromm G, dos Santos G, et al. *Genes Dev*, May 2012
- Testing an Aflatoxin B1 Gene Signature in Rat Archival Tissues.
Merrick BA, SS Auerbach, PS Stockton, et al. *Chem Res Toxicol*, May 2012



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
- **International Workshop on Alternative Methods for Leptospira Vaccine Potency Testing: State of the Science and the Way Forward**, Ames, Iowa, September 19-21, 2012
- **NAS Emerging Science for Environmental Health Decisions: Exploring Human Genomic Plasticity and Environmental Stressors: Emerging Evidence on Telomeres, Copy Number Variation, and Transposons**, Washington, DC, October 4-5, 2012
- **2012 Fall WETP Awardee Meeting and Workshop**, RTP, NC, October 10-12, 2012
- **Superfund 25th Anniversary Celebration**, Raleigh, NC, October 21-24, 2012
- **Breast Cancer & the Environment Research Program Annual Meeting**, San Francisco, CA, November 14-16, 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



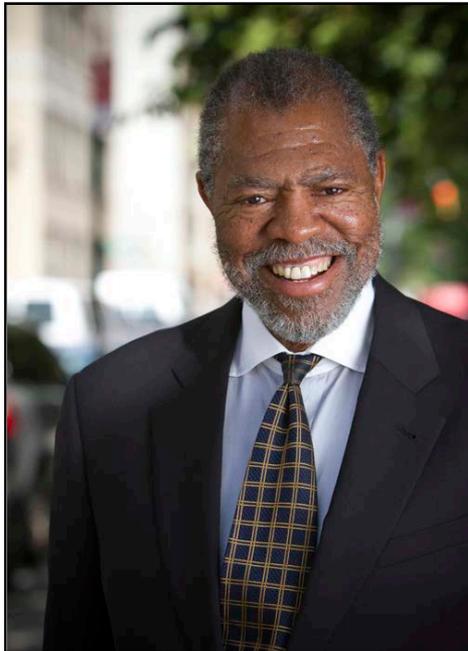
Dr. Xiaohua Gao



Ms. Yasmin Crespo-Mejias

NIEHS News and Highlights

Awards and Recognition



Dr. Kenneth Olden



Mr. David Ciplet

Thank you!
Questions?

