Report to the National Advisory Environmental Health Sciences Council

19 May 2011

Dr. Linda Birnbaum
Director
National Institute of Environmental Health Sciences
National Toxicology Program
Staff Updates

- Joellen Austin selected as Associate Director for Management
- Dr. J. Patrick Mastin permanent Deputy Director of Division of Extramural Research and Training (DERT).
- Dr. Claudia Thompson is permanent Chief of the Susceptibility and Population Health Branch, DERT.
- Dr. Anton Jetten is permanent Chief of the NIEHS Laboratory of Respiratory Biology.
- Scientific Director announcement closed March 31
- Clinical Director announcement open until June 13
In Memoriam

Dr. James Fouts
## FY 2009 – FY 2012 Appropriations

**Dollars in Thousands**

<table>
<thead>
<tr>
<th></th>
<th>FY 2009</th>
<th>Stimulus FY09-10</th>
<th>Approp. FY2010</th>
<th>Full Year CR FY2011</th>
<th>President’s Request FY2012</th>
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<tr>
<td><strong>NIEHS</strong></td>
<td>$662,820</td>
<td>$168,057</td>
<td>$689,781</td>
<td>$683,725</td>
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<td><strong>NIH</strong></td>
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<td><strong>Superfund</strong></td>
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<td><strong>NIEHS/DOE Training</strong></td>
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<td>$10,000</td>
<td>$10,000</td>
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Legislative Update

- Friends of NIEHS Congressional staff briefing
- Reauthorization of the Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) programs
- Lung Cancer Mortality Reduction Act of 2011 (HR1394)
- Gulf Coast Health Monitoring and Research Program Act of 2011 (HR 832)
- Radiation Exposure Compensation Act
- Reinstating the Superfund Tax (HR1596)
Recent Science Advances

• Interleukin-10 in ozone-induced pulmonary inflammation

• Human SNPs modulate cellular stress response
  – Binding of the p53 tumor suppressor to a specific sequence of DNA, which activates transcription of the target genes, was altered by SNPs., Bandele OJ, et al. *Nucleic Acids Res.*

• Mechanism of Cell Memory of Genotoxic Insult
  – Methyltransferases mediate cell memory of a genotoxic insult., Rugo RE, et al. *Oncogene*
**Recent Science Advances**

- **Rapid evolution in Hudson River tomcod**

- **Disruption of the thymus by DES, DEX, CPS, and TCDD**

- **Arsenic, stem cells, and the developmental basis of adult cancer**
Institute Highlights— Oil Spill Work Continues

- **GuLF (Gulf Longitudinal Follow-up) STUDY** currently in the field, recruiting subjects from all Gulf Coast states.
- New Orleans Community Forum, Feb 23.
- Deepwater Horizon “Lessons Learned” in Mobile, AL on June 5.
Institute Highlights – IC Outreach

- March 1 visit by Dr. Thomas Insel, Director of the National Institute of Mental Health

- April 11 visit by Dr. Eric Green, Director of the National Human Genome Research Institute.
NIEHS/NTP Reorganization

- Reorganization signed by Secretary Feb 22, 2011
- Federal Register notice April 28, 2011
- Reorganization within NIEHS; NTP no longer within DIR, but its own Division
- John Bucher, PhD is now Director of DNTP and Associate Director of NTP
Institute Highlights – NTP News

• March 10 Tox21 high-speed robot screening system unveiled at the NIH Chemical Genomics Center

• Comparative Toxicogenomics Database (CTD) becomes part of ToxNet

• NICEATM peer review panel on endocrine-disrupting compounds (EDCs)

• International Cooperation on Alternative Test Methods agreement signed; Republic of Korea signs on

• Green Chemistry and Environmental Health Sciences
Institute Highlights – EHP Outreach

- Environmental Health Perspectives (EHP) is expanding the reach of its Science Education Program with the launch of a new and improved website and redesigned lessons.

- Launch of EHP iPhone app, which gives readers of the peer-reviewed journal access to research and news as soon as it is published online.
Institute Highlights – Meetings and Events

• March 29: Dr. Nancy Andrews, Dean of Duke University School of Medicine, delivered the Spirit Lecture “Reflections on the Glass Ceiling” in honor of National Women’s Month

• March 6–10: NIEHS and NTP marked the 50th anniversary of the Society of Toxicology with more than 75 poster presentations and 30 scientific talks at its annual meeting in Washington, DC

• April 14: NIEHS hosted the final GEI Exposure Biology Program grantee meeting

• April 27–28: The NRC Committee on Emerging Science for Environmental Health Decisions hosted "Interplay of the Microbiome, Environmental Stressors, and Human Health" to explore this new field of study
Institute Highlights – Awards and Recognition

• New AAAS Fellows:
  – James Mason, head of the Drosophila Chromosome Structure Group in the NIEHS Laboratory of Molecular Genetics. He serves on the editorial boards of the *International Journal of Biological Sciences* and *Journal of Biomedicine and Biotechnology*
  – NIEHS Grantees, neurobiologist Marie-Francoise Chesselet, MD, PhD, and exposure science expert Barbara J. Turpin, PhD
  – NIEHS Superfund Research Program Grantee Agnes Kane, MD, PhD

• Paper led by Ken Korach earned Faculty of 1000 award, meaning it is in the top 2% of published articles in biology and medicine.

• Superfund Research Program grantee and Louisiana State University chemist Barry Dellinger’s paper earned Editor's Choice Award as one of ES&T's Best Papers of 2010

• 2011 Science Communication Fellows announced, half from NIEHS
Institute Highlights – Dr. Linda Birnbaum

- Pew Workshop: *Enhancing FDA’s Evaluation of Science to Ensure Chemicals Added to Human Food are Safe*

- Health Affairs inaugural issue on Environmental Health
NIH Update

• New Common Funds Awards in Global Health

• Discrepancy in grant title field lengths between Grants.gov (submission of proposals) and IMPAC II (grant tracking database)

• Government Performance and Results Act (GPRA) Measure Development Working Group
NIEHS Strategic Planning - Overview

• Planning Institute direction for next 5 years
• Three phase process
• Visit our website:

http://www.niehs.nih.gov/strategicplan
Thank you!

NIEHS Strategic Plan Website
http://www.niehs.nih.gov/strategicplan