

# Report to the National Advisory Environmental Health Sciences Council

**February 15, 2012**

**Dr. Linda Birnbaum  
Director**

**National Institute of Environmental Health Sciences  
National Toxicology Program**



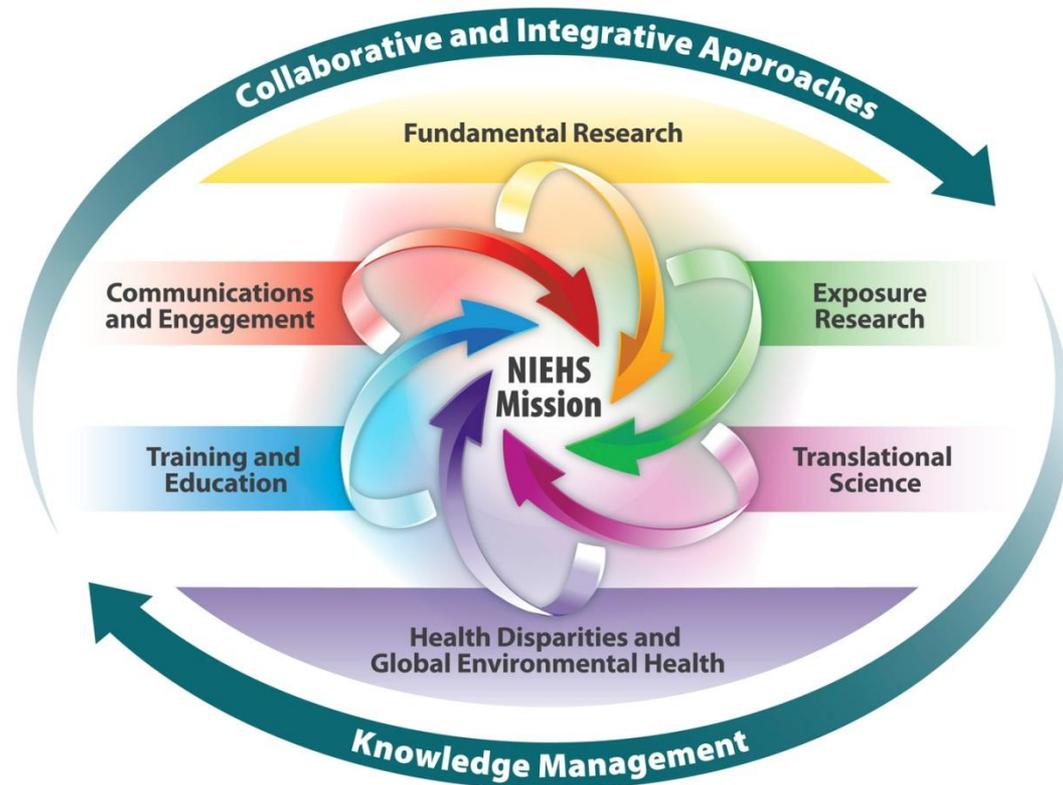
# NIEHS Strategic Planning

## Draft Mission Statement

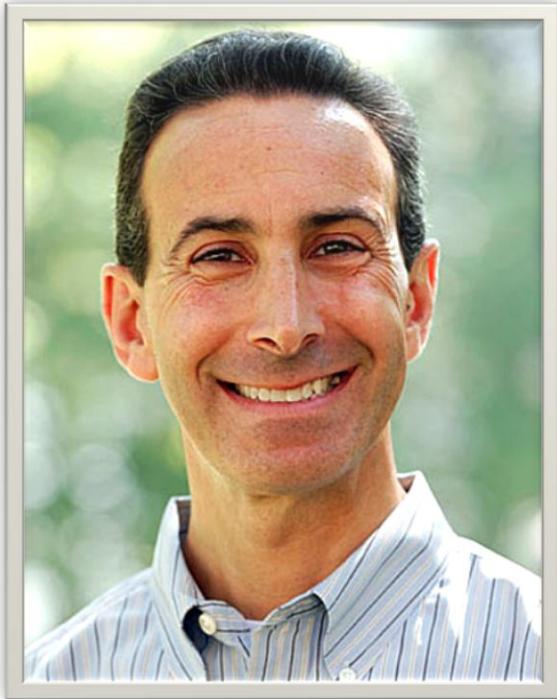
The mission of the National Institute of Environmental Health Sciences is to discover how the environment affects people in order to promote healthier lives.

## Draft Vision Statement

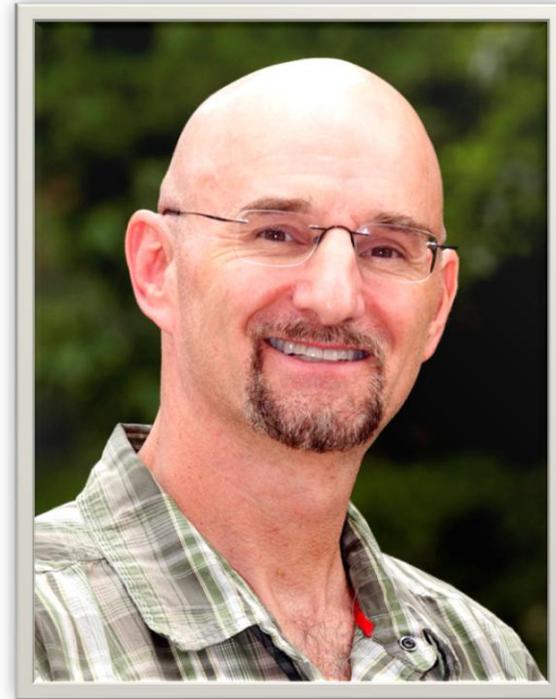
The vision of the National Institute of Environmental Health Sciences is to provide global leadership for innovative research that improves public health by preventing disability and disease from our environment.



## Leadership and Staff



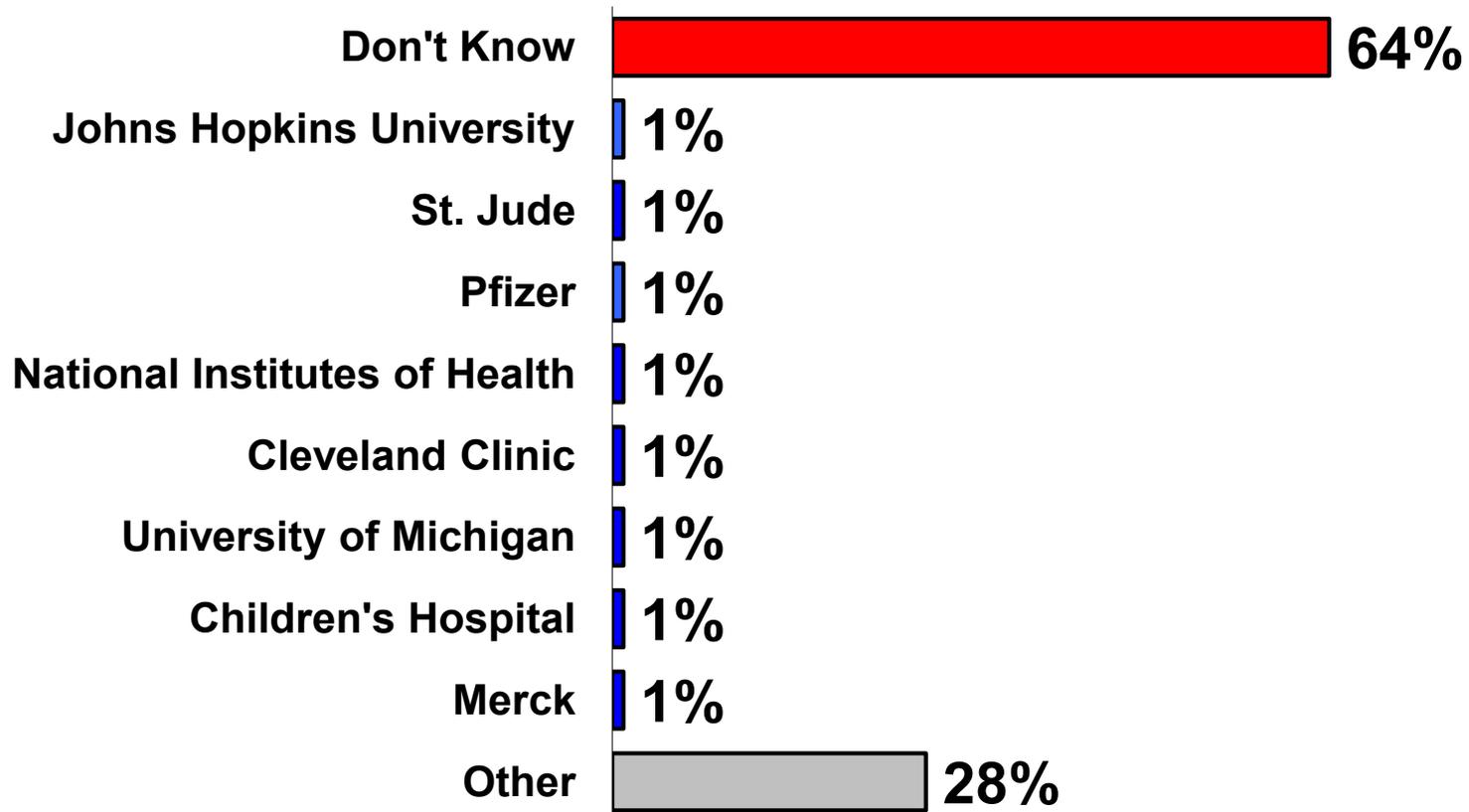
Dr. Darryl Zeldin



Dr. William Copeland

# Americans Don't Know Where Research is Conducted

Do you know of any institutions, companies or organizations where medical or health research is conducted?



# The NIH



NIAAA



NIDDK



center for  
scientific review



NATIONAL INSTITUTE OF  
NEUROLOGICAL  
DISORDERS AND STROKE



NATIONAL INSTITUTES  
OF HEALTH



NCAM  
NATIONAL CENTER FOR COMPLEMENTARY  
AND ALTERNATIVE MEDICINE

*Eunice Kennedy Shriver*  
**NICHD**  
National Institute of Child Health  
& Human Development



**CIT**  
Center for Information Technology

**NIMH**  
National Institute  
of Mental Health



**NATIONAL  
CANCER  
INSTITUTE**

NATIONAL INSTITUTE OF  
**NURSING  
RESEARCH**

**NATIONAL  
LIBRARY OF  
MEDICINE**



**FOGARTY**  
INTERNATIONAL CENTER

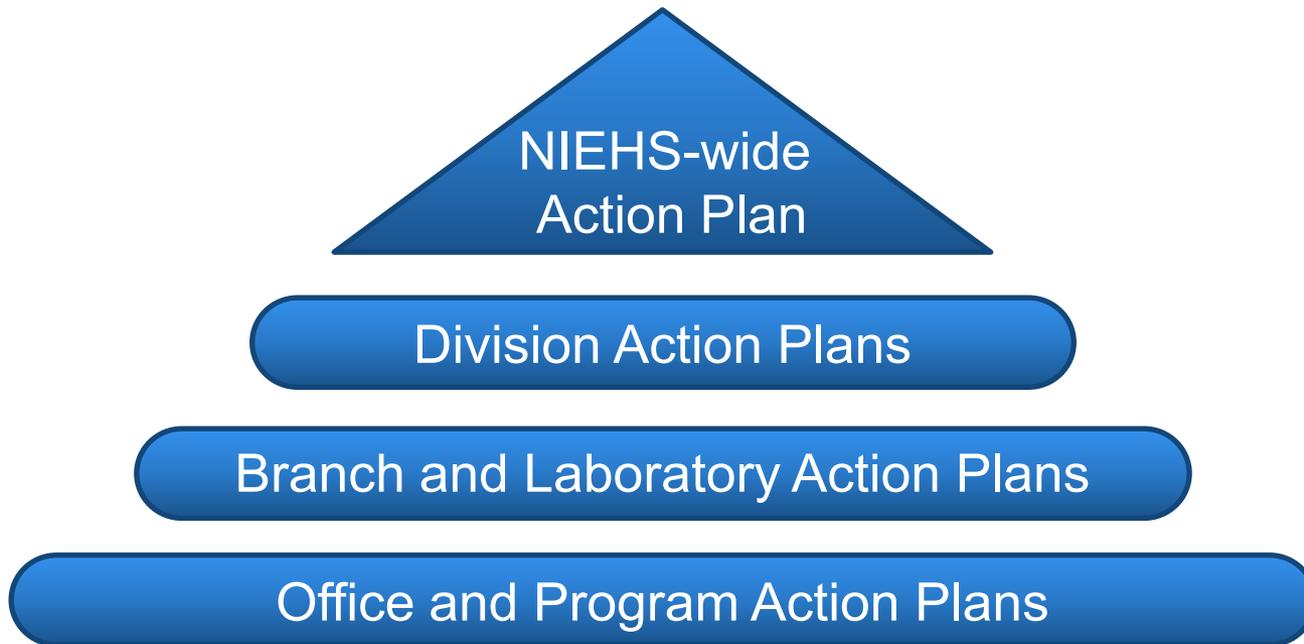
**NIDA**  
NATIONAL INSTITUTE  
ON DRUG ABUSE

## EHP Is Going Paperless

- Most readers already access EHP online
- Reduced cost for printing and distribution
- Reduces carbon footprint – no trees used, eliminates fuel for transportation
- Faster publication and dissemination to readers
- More dynamic to include new multimedia
- Frees up resources to develop new applications to reach a wider audience



# Improving Organizational Climate Pulse Survey and Action Plan



**NIEHS**  
**Pulse Survey**

Investing in Our Workplace.



## NIEHS Budget – Update

	<b>FY 2009 Appropriation</b>	<b>FY 2010 Appropriation</b>	<b>FY 2011 Full-Year CR</b>	<b>FY 2012 Appropriation</b>	<b>FY 2013 Request</b>
<b>NIH (HHS)</b>	<b>\$ 30,545,098,000</b>	<b>\$ 31,008,788,000</b>	<b>\$ 30,688,286,000</b>	<b>\$30,631,985,000</b>	<b>\$30,623,259,000</b>
<b>NIEHS</b>	<b>\$ 662,820,000</b>	<b>\$ 689,781,000</b>	<b>\$ 683,724,312</b>	<b>\$685,570,818</b>	<b>\$684,030,000</b>
<b>Superfund</b>	<b>\$ 78,074,000</b>	<b>\$ 79,212,000</b>	<b>\$ 79,053,576</b>	<b>\$ 78,927,514</b>	<b>\$ 78,928,000</b>
<b>NIEHS/DOE Training</b>	<b>\$ 10,000,000</b>	<b>\$ 10,000,000</b>	<b>\$ 10,000,000</b>	<b>\$ 10,000,000</b>	

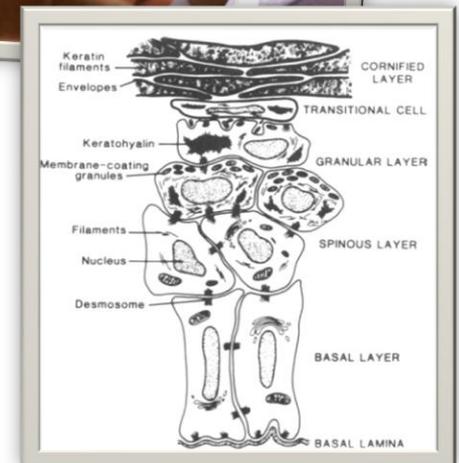
## Legislative Report

- Elimination of \$300 million Global AIDS Transfer
- Elimination of NCRR
- Creation of the National Center for Advancing Translational Sciences (NCATS), with a budget of \$576,456,000
- Continuation of the National Children's Study with \$193,880,000
- \$10 million within NCATS for the Cures Acceleration Network
- \$487,767,000 for the Clinical and Translational Science Awards
- \$545,962,000 for the NIH Common Fund
- 0.189 percent across-the-board cut for NIH and discretionary programs



## Science Advances

- Caffeine-induced synaptic potentiation in hippocampal CA2 neurons. **Simons SB, Caruana DA, Zhao M, Dudek SM.** *Nat Neurosci.*
- Early-life exposures and early onset uterine leiomyomata in black women in the Sister Study. **D'Aloisio AA, Baird DD, Derroo LA, Sandler DP.** *Environ Health Perspect.*
- Arsenic transformation predisposes human skin keratinocytes to UV-induced DNA damage yet enhances their survival apparently by diminishing oxidant response. **Sun Y, Kojima C, Chignell C, Mason R, Waalkes MP.** *Toxicol Appl Pharmacol.*



## Science Advances

- Folic acid supplements in pregnancy and severe language delay in children. *Roth C et al. JAMA*
- Serum vaccine antibody concentrations in children exposed to PFCs. *Grandjean P et al. JAMA*
- Parental stress increases the detrimental effect of traffic exposure on children's lung function. *Islam T et al. Am J Respir Crit Care Med.*



# NIEHS News and Highlights

## Autism and Neurotoxicology

- 27<sup>th</sup> International Neurotoxicology Conference: *Environmentally Triggered Neurodevelopmental Disorders: Focus on Endocrine Disruption and Sex Differences in Autism, ADHD, and Schizophrenia*
- *Bioinformatics and Computational Approaches to Integrate Genes and Environment in Autism Research* meeting
- National Database for Autism Research combines with Autism Genetic Resource Exchange
- *Environmental Influences on Neurodevelopment* workshop



# NIEHS News and Highlights

## Public Health Leadership

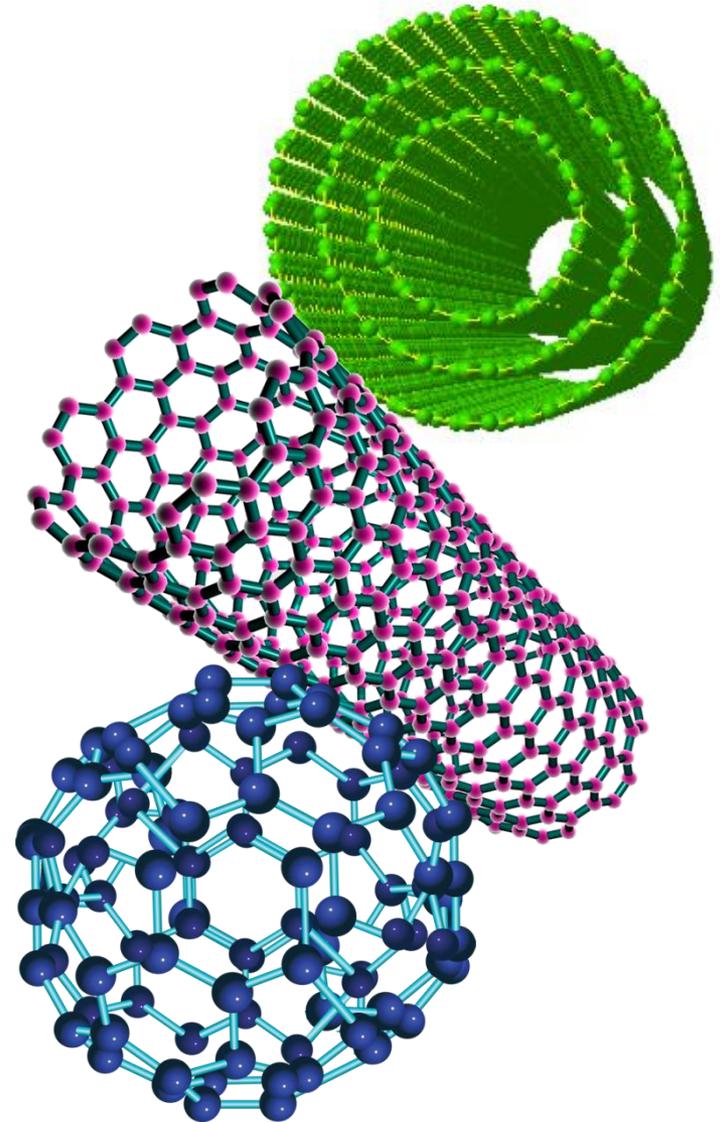
- NIEHS–PAHO/WHO SDE Collaborating Centers Meeting
- NIEHS Community Forum in Los Angeles
- NIEHS-supported National Research Council Report: *Improving Health in the United States: The Role of Health Impact Assessment*



# NIEHS News and Highlights

## Meetings and Events

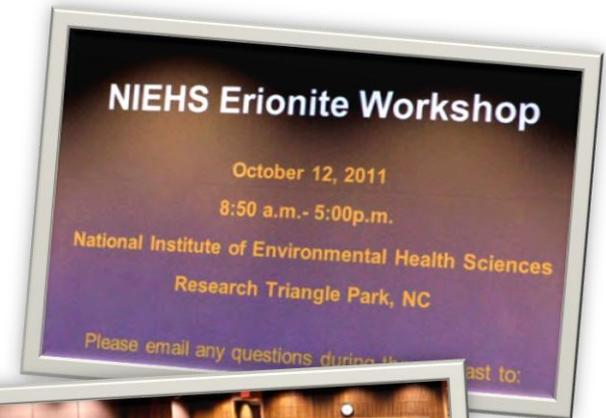
- *Toxicology and Infectious Disease* workshop
- NIEHS nanotechnology Grand Opportunities
- mHealth Summit



# NIEHS News and Highlights

## Meetings and Events

- *NAS: Emerging Technologies for Measuring Individual Exposomes*
- Erionite Workshop
- NIEHS Data Sharing Workshop



# NIEHS News and Highlights

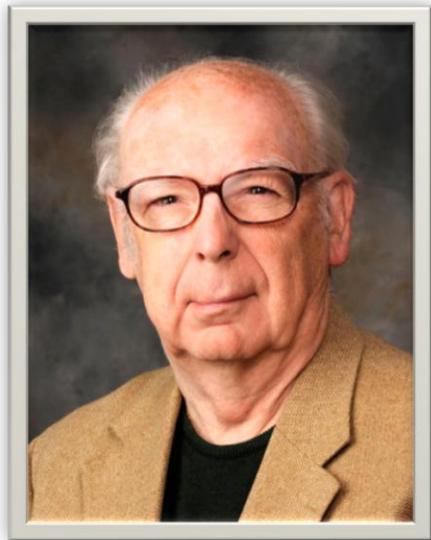
## Upcoming Meetings

- 5th Annual NIH Conference on the Science of Dissemination and Implementation: Research at the Crossroads, March 19-20, 2012
- Children's Environmental Health & Disease Prevention Research Meeting, NIH, March 6, 2012
- Partners in Environmental Public Health 2012 Meeting: *Strengthening a Dynamic Environmental Public Health Network for Tomorrow*, NIH, March 7-8, 2012
- NAS Emerging Science for Environmental Health Decisions: *Individual Variability*, April 18-19, 2012



# NIEHS News and Highlights

## Awards and Recognition



Dr. Lutz Birnbaumer



Dr. Scott Williams



Dr. Geoffrey Mueller



Dr. Donna Baird

# NIEHS News and Highlights

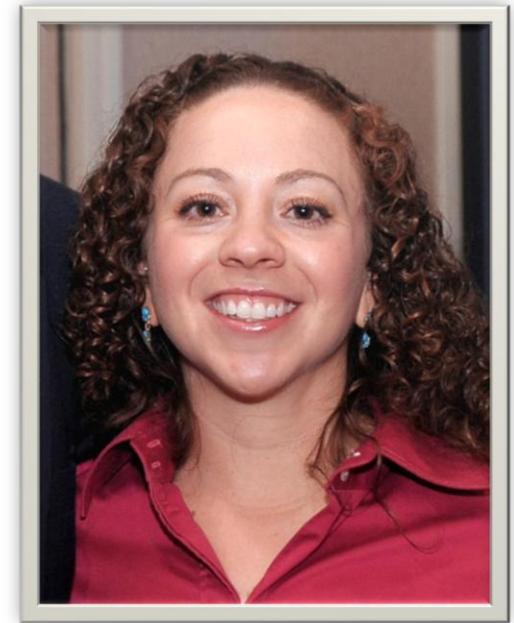
## Awards and Recognition



Dr. David Eastmond



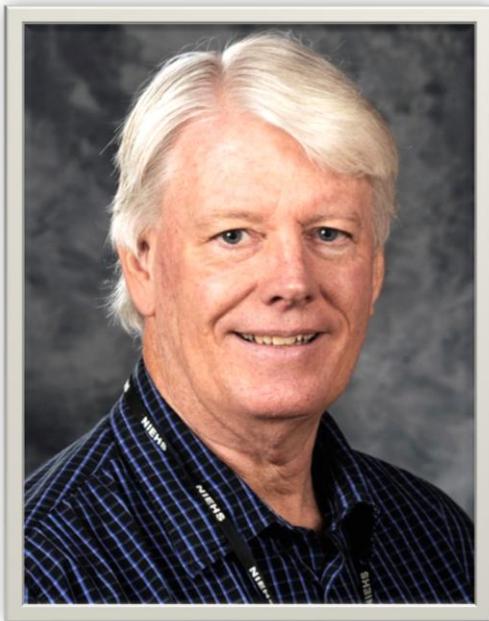
Dr. David Eaton



Dr. Monica Ramirez-Andreotta

# NIEHS News and Highlights

## Awards and Recognition



Mr. Joseph "Chip" Hughes



Dr. Paul Foster



Dr. Kenneth Olden

# NIEHS News and Highlights

## Awards and Recognition



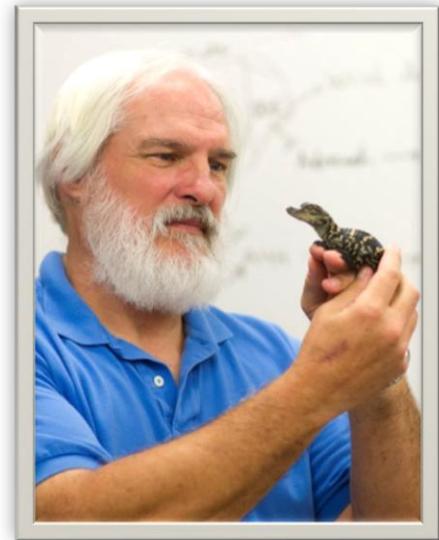
Ms. Melissa Kerr



Dr. Arthur Grollman



Dr. Karen Huen



Dr. Louis Guillette

**Thank you!**

