

The American Recovery and Reinvestment Act: NIEHS Grant Opportunities



The American Recovery and Reinvestment Act of 2009 (Recovery Act) was signed into law by President Obama on February 17th, 2009. It is an unprecedented effort to jumpstart our economy, create or save millions of jobs, and put a down payment on addressing long-neglected challenges so our country can thrive in the 21st century.

The NIH and its institutes are well positioned to fund the best science in pursuit of improving the length and the quality of the lives of our citizens, while at the same time stimulating the economy.

How much money will NIH and NIEHS Receive?

The Recovery Act provides a total of \$10.4 billion for the National Institutes of Health (NIH) over two years — through September 2010. The National Institute of Environmental Health Sciences (NIEHS) will receive a proportional share of the \$7.4 billion that is going to Institutes and Centers. The majority of the funds (approximately \$8.2 billion of the NIH money) will go to extramural funding. For a breakdown of NIH funding decisions, visit, http://www.nih.gov/about/director/02252009statement_arra.htm

What grant opportunities are out there for me?

Challenge Grants

NIH has designated at least \$200 million in Challenge Grants to support research on topics that address specific scientific and health research challenges in biomedical and behavioral research that would benefit from significant 2-year jumpstart funds (http://grants.nih.gov/grants/funding/challenge_award/). NIEHS has selected several specific topic areas to support within the NIH Challenge Areas (see complete listing on enclosed).

Other Funding

- RO1s will be the priority. Recently peer reviewed highly meritorious research grant applications (RO1s and others) that can be accomplished in 2 years or less.
- New research applications.
- Targeted supplements to current grants.
- Other funding mechanisms as appropriate.

Important Date:
**The application due date for
NIH Challenge Grants is April 27, 2009.**

The Recovery Act also provides \$1 billion to the National Center for Research Resources (NCRR) to support extramural construction, repairs, and alterations in support of all NIH-funded research institutions, and \$300 million for shared instrumentation and other capital equipment to support all NIH activities.

- For shared instruments in the range of \$100,000 to \$500,000, eligible organizations should apply under PAR-09-028 (<http://grants.nih.gov/grants/guide/pa-files/PAR-09-028.html>). The due date for PAR 09-028 is March 23, 2009.
- For instruments in the range of \$600,000 to \$8 million, eligible organizations should apply under PAR-09-118. The due date for PAR-09-118 is May 6, 2009.
- To renovate or repair core facilities, eligible organizations should apply under RFA-RR-09-007. The due date for RFA-RR-09-007 is September 17, 2009.

How do I apply for funding?

Institutions must apply for Recovery Act funds under NIH's grant application process, in which applications undergo review by experts (http://grants.nih.gov/grants/how_to_apply.htm).

Who do I contact at NIEHS for more information about Recovery opportunities?

Investigators interested in submitting a grant application to the NIEHS are encouraged to talk with NIEHS program staff prior to beginning the application process. There are numerous opportunities available, and NIEHS staff can help applicants strategically plan which funding opportunities might be best for them. For a complete listing of NIEHS program staff, visit <http://niehs.nih.gov/funding/grants/contacts.cfm>.

Continue to check <http://grants.nih.gov/recovery/> for the latest announcements.

The NIEHS website at <http://www.niehs.nih.gov/recovery/index.cfm> will also provide Recovery funding updates.



Behavior, Behavioral Change, and Prevention

01-ES-101

The role of environmental exposure on genotype-phenotype interaction in behavioral toxicology.

Dr. Annette Kirshner
kirshner@niehs.nih.gov, (919) 541-0488

01-OD(OBSSR)-102*

Methods for studying the interactions among behaviors, environments, and genetic/epigenetic processes.

Dr. Kimberly McAllister
mcallis2@niehs.nih.gov, (919) 541-4528

Bioethics

02-ES-101

Responsible dissemination of research results.

Mr. Liam O'Fallon
ofallon@niehs.nih.gov, (919) 541-7733

02-OD(OSP)-101*

Unique Ethical Issues Posed by Emerging Technologies.

Dr. David Balshaw
balshaw@niehs.nih.gov, (919) 541-2448

02-OD(OSP)-102

Ethical Issues in Health Disparities and Access to Participation in Research.

Mr. Liam O'Fallon
ofallon@niehs.nih.gov, (919) 541-7733

02-OD(OSP)-104*

Ethical Issues in the Translation of Genetic Knowledge to Clinical Practice.

Dr. Kimberly McAllister
mcallis2@niehs.nih.gov, (919) 541-4528

02-OD(OSP)-105*

Ethical Issues Raised by the Blurring between Treatment and Research.

Dr. Kim Gray
gray6@niehs.nih.gov, (919) 541-0293

Biomarker Discovery and Validation

03-ES-101

Validation of new exposure assessment methodologies.

Dr. Daniel Shaughnessy
shaughn1@niehs.nih.gov, (919) 541-2506

03-OD(OBSSR)-101*

Developing high-throughput biomarker assays from finger-stick dried blood spots.

Dr. Daniel Shaughnessy
shaughn1@niehs.nih.gov, (919) 541-2506

04-ES-101

Intervention strategies for environmentally-induced diseases.

Dr. Claudia Thompson
thomps14@niehs.nih.gov, (919) 541-4638

04-ES-102

Investigating gene x environment interaction using controlled human exposures.

Dr. Sri Nadadur
nadadurs@niehs.nih.gov, (919) 541-5327

Enabling Technologies

06-ES-101*

Measuring the body burden of emerging contaminants: Biosensors and lab "on-chip" technology for measuring in vivo environmental agents.

Dr. David Balshaw
balshaw@niehs.nih.gov, (919) 541-2448

06-ES-102*

3-D or virtual models to reduce use of animals in research: Creation of miniature multi-cellular organs for high throughput screening for chemical toxicity testing.

Dr. David Balshaw
balshaw@niehs.nih.gov, (919) 541-2448

06-ES-103

Markers of DNA repair capacity and response.

Dr. Les Reinib
reinlib@niehs.nih.gov, (919) 541-4998

Genomics

08-ES-101

Replication of GWAS findings in populations with known environmental exposures.

Dr. Kimberly McAllister
mcallis2@niehs.nih.gov, (919) 541-4528

08-ES-102

Explore the functional analysis of environmentally-responsive genes through high-throughput approaches.

Dr. Kimberly McAllister
mcallis2@niehs.nih.gov, (919) 541-4528

08-ES-103

Statistical tools for GxE analysis.

Dr. Kimberly McAllister
mcallis2@niehs.nih.gov, (919) 541-4528

08-ES-104

Identification of alterations in epigenetic marks related to environmental exposures.

Dr. Fred Tyson
tyson2@niehs.nih.gov, (919) 541-0176

08-ES-105

Demonstration of the functional consequences of changes in epigenetic marks resulting from environmental exposures.

Dr. Fred Tyson
tyson2@niehs.nih.gov, (919) 541-0176

08-ES-106

The role of environmental exposure in copy number variation (CNV).

Dr. Cindy Lawler
lawler@niehs.nih.gov, (919) 316-4671

08-ES-107

Integrated analysis of epigenetic and genetics alterations in human disease.

Dr. Kimberly McAllister
mcallis2@niehs.nih.gov, (919) 541-4528



Health Disparities

09-ES-101*

Building trust between researchers and communities through capacity building in Environmental Public Health.

Mr. Liam O'Fallon

ofallon@niehs.nih.gov, (919) 541-7733

09-ES-102

Environmental justice and public health.

Dr. Caroline Dilworth

dilworthch@niehs.nih.gov, (919) 541-7727

09-ES-103

Improving Environmental Health literacy.

Mr. Liam O'Fallon

ofallon@niehs.nih.gov, (919) 541-7733

Science, Technology, Engineering and Mathematics (STEM) Education

12-ES-101

Material development for Environmental Health curriculum.

Mr. Liam O'Fallon

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12-ES-102

Professional development in issues in Environmental Health.

Mr. Liam O'Fallon

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12-ES-103

Engagement of scientists in Environmental Health science education.

Mr. Liam O'Fallon

ofallon@niehs.nih.gov, (919) 541-7733

Smart Biomaterials – Theranostics

13-ES-101*

Methods to evaluate the health and safety of nanomaterials.

Dr. Sri Nadadur

nadadurs@niehs.nih.gov, (919) 541-5327

Stem Cells

14-ES-101

Effects of exposures to pluripotent cells growth, development and function.

Dr. Les Reinlib

reinlib@niehs.nih.gov, (919) 541-4998

14-ES-102

Use of stem cells for predictive toxicology.

Dr. William Suk

suk@niehs.nih.gov, (919) 541-0797

Translational Science

15-ES-101*

Effects of environmental exposures on phenotypic outcomes using non-human models.

Dr. Cindy Lawler

lawler@niehs.nih.gov, (919) 316-4671

15-ES-102

The developmental basis of human disease.

Dr. Jerry Heindel

heindelj@niehs.nih.gov, (919) 541-0781

15-TW-101

Models to predict health effects of climate change.

Dr. Caroline Dilworth

dilworthch@niehs.nih.gov, (919) 541-7727

For the NIEHS implementation of NIH Challenge Grants, contact:

Gwen Collman, Ph.D.

Interim Director, Division

of Extramural Research & Training

National Institute of

Environmental Health Sciences

National Institutes of Health

Tel (919) 541-4980

collman@niehs.nih.gov

For Financial or Grants Management questions, contact:

Dorothy Duke

Chief, Grants Management

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Note: Those marked with an asterisk () are the highest priority topics; however, applicants may apply to any of the topics.*