

# American Recovery and Reinvestment Act (ARRA)- Impact of Economic Stimulus on NIH

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NATIONAL INSTITUTES OF HEALTH



One Hundred Eleventh Congress  
of the  
United States of America

AT THE FIRST SESSION

*Begun and held at the City of Washington on Tuesday,  
the sixth day of January, two thousand and nine*

An Act

Making supplemental appropriations for job preservation and creation, infrastructure investment, energy efficiency and science, assistance to the unemployed, and State and local fiscal stabilization, for the fiscal year ending September 30, 2009, and for other purposes.

*Be it enacted by the Senate and House of Representatives of  
the United States of America in Congress assembled,*

**SECTION 1. SHORT TITLE.**

This Act may be cited as the “American Recovery and Reinvestment Act of 2009”.



NIH is grateful to President Obama and Congress for the opportunity for NIH to play its part in improving the Nation's health and economy

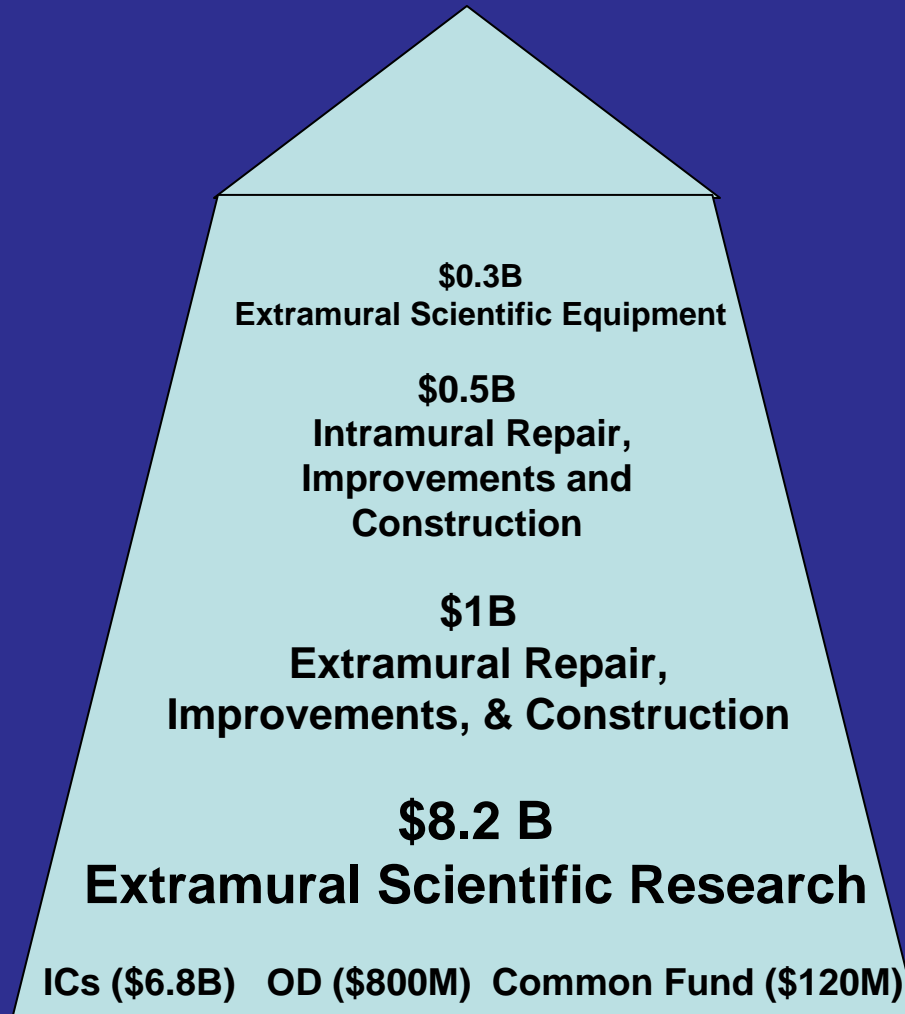


# Funding Impact

- Stimulate the economy
- Create and preserve jobs
- Advance biomedical research



# ARRA appropriated \$10B directly to NIH



# ARRA appropriated \$400M to NIH via AHRQ



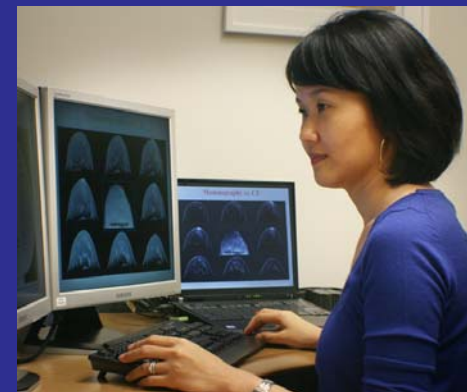
# Instrumentation, Resources, Construction and Repair of Extramural Facilities

- Recovery Act Limited Competition: Core Facility Renovation, Repair, and Improvement (G20)
- Recovery Act Limited Competition: Extramural Research Facilities Improvement Program (C06) **Instrumentation**
- Addition of Recovery Funds to the Shared Instrumentation Grant Program
  - \$100-500,000
- Act Limited Competition: High-End Instrumentation Grant Program (S10) \$600,000 – \$8,000,000
- Enabling National Networking of Scientists and Resource Discovery (U24 )
  - Limited to those already institutions holding an NCRR center or center like program



# Scientific Research Approach

- Stimulate and accelerate biomedical research with existing mechanisms
  - Funding additional meritorious RO1s, R21s and R03s that have been peer reviewed and approved by IC Councils
  - Administrative supplements to accelerate ongoing research
- Expand science with new programs
  - Revisions to extant programs (“Competitive supplements”)
  - New ARRA NIH-wide programs
  - New ARRA IC-specific programs



# New ARRA NIH-wide Programs

- Challenge Grants
- Grand Opportunities (“GO” Grants)
- Recruit new faculty to conduct research
- Provide summer jobs for high school / college students and teachers to work in science labs
- AREA (R15) Grants



# Challenge Grants

- Challenge Grants (at least \$200M total) provide:
  - Priority avenues of research
  - Up to \$500K total costs/year for up to two years



# Challenge Grants

## **Links to High Priority Topics Within Broad Challenge Areas** (PDF - 556 KB):

- (01) [Behavior, Behavioral Change, and Prevention](#)
- (02) [Bioethics](#)
- (03) [Biomarker Discovery and Validation](#)
- (04) [Clinical Research](#)
- (05) [Comparative Effectiveness Research \(CER\)](#)
- (06) [Enabling Technologies](#)
- (07) [Enhancing Clinical Trials](#)
- (08) [Genomics](#)
- (09) [Health Disparities](#)
- (10) [Information Technology for Processing Health Care Data](#)
- (11) [Regenerative Medicine](#)
- (12) [Science, Technology, Engineering and Mathematics Education \(STEM\)](#)
- (13) [Smart Biomaterials - Theranostics](#)
- (14) [Stem Cells](#)
- (15) [Translational Science](#)



# 2009 Tentative Review Timeline for Challenge Grant Applications

**For Applicants**

Over 11,000 applications received!

Scientific Review Group meetings (rank order scoring)

**July 13 - 24**

**APRIL**

**MAY**

**JUNE**

**JULY**

Receipt and referral of grant applications

**Apr 27-30**

Reviewers receive access to applications & assignments

**May 11 - 29**

Scores & Summary Statements\*\* available in eRA Commons!!

**July 31**

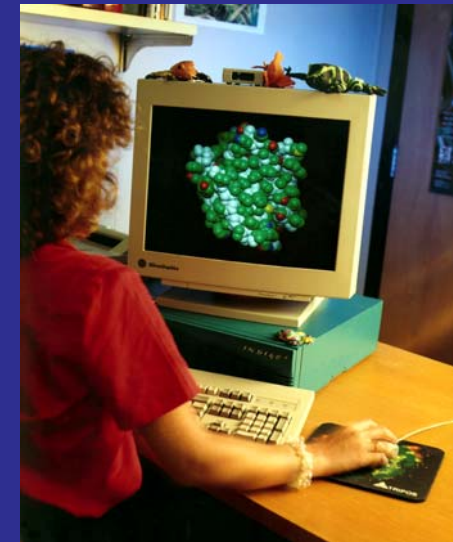
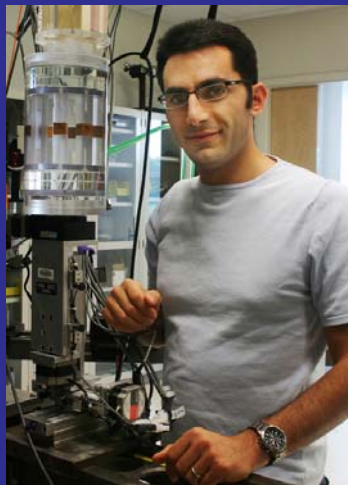
\*\*Discussed get overall impact/priority score, resume and summary of discussion, criterion scores, & two or three critiques

\*\*Not Discussed get criterion scores and two or three critiques

**Applications involving stem cells held for review after final guidance issued**

# Grand Opportunity Grants

- Grand Opportunity (GO) Grants (at least \$200M total):
  - High impact
  - Well defined
  - Large scale



# Signature Initiatives

- Support exceptionally creative projects to address major challenges in biomedical research, e.g.:
  - Nanotechnology
  - Genome-wide association studies
  - Alzheimer's disease
  - Oral fluids as biomarkers
  - Large scale sequencing
  - Community-based research



# Summer Jobs in Research for Students and Teachers

- Engage students and educators in research
- Encourage students to pursue research careers
- Provide summer internships at NIH-funded laboratories for science teachers



# New Faculty

Core Centers for Enhancing Research Capacity in U.S.  
Academic Institutions

Newly trained scientists

Start-up packages

Pilot research projects

Recruitment of Bioethicists among the priorities



# Academic Research Enhancement Awards (AREA) \$30m

- Applicants must be a domestic (United States) institution/organization listed below. The United States institution/organization must be located in the 50 states, territories and possessions of the U.S.
- Offer a baccalaureate or advanced degrees in sciences related to biomedical and behavioral sciences
- Institution received less than \$6.0 million in each of four or more of the last 7 years
- \$300,000 direct costs for up to 3 years.



# IC-specific RFAs: e.g. \$60M Grants for Strategic Autism Research

- Research to Address the Heterogeneity in Autism Spectrum Disorders
  - Develop / test diagnostic screening tools
  - Assess risk from exposures
  - Test early interventions / adapt existing pediatric treatments for older groups



# OD ARRA Funds (800M)

- 509 M to be determined
- 200M for Challenge grants
- 30M for OD-IC Community Signature projects
- 30M for IC-OD Signature projects
- 21M for summer training (20M extramural/1M intramural)
- 10M for faculty recruitment (Bioethics faculty)
- 30 M for AREA



# CF ARRA Funds (120M)

- Stimulate and accelerate biomedical research with existing mechanisms
  - Fund additional New Innovator Grants that have been peer reviewed and approved by Council
  - Administrative supplements to accelerate ongoing research
- Expand science with new programs
  - Revisions to extant programs (“Competitive supplements”)
  - New ARRA NIH-wide programs



# Comparative Effectiveness Research

U.S. Department of Health & Human Services  
**HHS.gov** *Improving the health, safety, and well-being of America*

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FOR IMMEDIATE RELEASE  
Thursday, March 19, 2009

Contact: HHS Press Office  
(202) 690-6343

### HHS Names Federal Coordinating Council for Comparative Effectiveness Research

#### **Recovery Act Allocates \$1.1 Billion for Comparative Effectiveness Research**

The U.S. Department of Health and Human Services today announced the members of the Federal Coordinating Council for Comparative Effectiveness Research. Authorized by the American Recovery and Reinvestment Act (ARRA), the new council will help coordinate research and guide investments in comparative effectiveness research funded by the Recovery Act.

"Comparative effectiveness research can improve care for all Americans and is an important element of President Obama's health reform plan," said HHS Spokeswoman Jenny Backus. "President Obama is committed to openness and transparency and the Coordinating Council will host open meetings and a listening session as it begins its important work."

Comparative effectiveness research provides information on the relative strengths and weakness of various medical interventions. Such research will give clinicians and patients valid information to make decisions that will improve the performance of the U.S. health care system



# Expected Reporting Requirements

- All ARRA grants must have separate accounts and draw downs are from each account.
  - Includes supplements
- Sect. 1512 (c): (may be monthly)
  - Components
    - Expenditures
    - Jobs created or retained
    - Project Status
  - Likely to report directly into the Recovery.gov site
  - Likely to start – July 1 (expect September 30)
  - OMB has proposed data elements (comments closed May 1)
- Established NIH reporting requirements
  - NIH will report obligations
  - Annual Progress
  - Quarterly and annual financials (272 and 269)
  - Final Reporting



# http://www.nih.gov/recovery



The screenshot shows the NIH website's recovery page. At the top, it features the U.S. Department of Health & Human Services logo and the NIH logo with the tagline 'The Nation's Medical Research Agency'. A navigation bar includes links for HOME, HEALTH, GRANTS, NEWS, RESEARCH, INSTITUTES, and ABOUT NIH. A search box and 'Advanced Search' link are also present. The main content area is titled 'NIH and the ARRA' and includes a 'Quick Links' sidebar with categories like Mission, Leadership, and Budget. The central text provides an overview of the American Recovery and Reinvestment Act of 2009, signed by President Obama, and lists several key links for more information, including an overview, implementation programs, and grant opportunities. An 'Announcements' section at the bottom highlights the availability of \$1.5 billion in Recovery Act funds and the designation of \$200 million for NIH Challenge Grants.

U.S. Department of Health & Human Services [www.hhs.gov](http://www.hhs.gov)

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**National Institutes of Health**  
The Nation's Medical Research Agency

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## NIH and the ARRA

### Quick Links

- Mission
- Leadership
- Research Planning
- Budget
- Organization
- History
- Photo Galleries
- NIH Almanac
- Outreach & Education
- Public Involvement
- Small Business Opportunities
- Jobs
- FAQ
- Visitor Information
- Contact NIH
- Find NIH Staff

### American Recovery & Reinvestment Act

✉ [Sign up to receive NIH and the American Recovery & Reinvestment Act e-mail updates.](#)

**Overview of the American Recovery and Reinvestment Act of 2009 (Recovery Act).** 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 Act is an extraordinary response to a crisis unlike any since the Great Depression, and includes measures to modernize our nation's infrastructure, enhance energy independence, expand educational opportunities, preserve and improve affordable health care, provide tax relief, and protect those in greatest need.

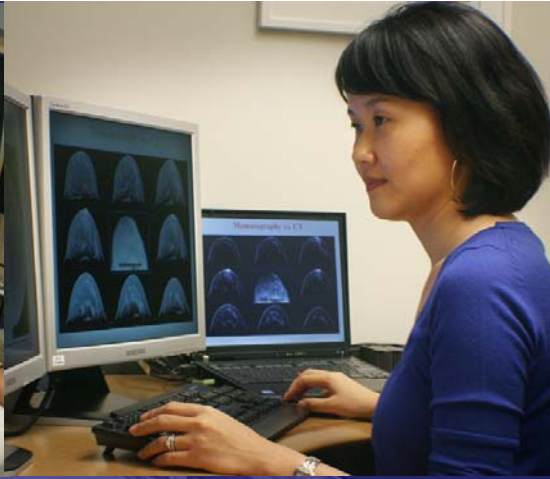
- » [Overview of the Recovery Act](http://www.hhs.gov/recovery/overview/index.html)

### RECOVERY.gov

- » [Implementing the Recovery Act](http://www.hhs.gov/recovery/programs/index.html)
- » [Learn more about programs that issue grants under the Recovery Act](http://grants.nih.gov/recovery/)

### Announcements

- » [Applications for \\$1.5 Billion in Recovery Act Funds Now Available](http://www.nih.gov/news/health/mar2009/od-10.htm)
- » [The NIH has designated at least \\$200 million in FYs 2009—2010 for a new initiative called the NIH Challenge Grants in Health and Science Research. This new program will support research on topic areas that address specific scientific and health research challenges in biomedical and behavioral research that would benefit from significant 2-year](#)



# NIH and ARRA

Stimulating the economy  
Creating and preserving jobs  
Advancing biomedical research  
Improving people's health

