Federal Demonstration Partnership

May 13, 2010

NATIONAL INSTITUTES OF HEALTH

NIH Research Portfolio Online Reporting Tools

http://report.nih.gov
http://projectreporter.nih.gov

James Onken, Ph.D., MPH
NIH Office of Extramural Research

Opening the Black Box

and more…

Background

"Because NIH officials have said that the NIH's own statistics on spending by disease are not very useful, it is incumbent on those officials to improve the quality and analysis of its data on allocation of NIH funds by disease for planning and priority-setting purposes."

- *Scientific Opportunities and Public Needs: Improving Priority Setting and Public Input at the National Institutes of Health* (Institute of Medicine, 1998)

" … the Committee concludes that the current lack of an information management method and infrastructure to collect, analyze, and report investment data in a timely fashion must be addressed … "

- *Enhancing the Vitality of the National Institutes of Health: Organizational Change to Meet New Challenges* (National Research Council and Institute of Medicine, 2003)

NIH Reform Act of 2006

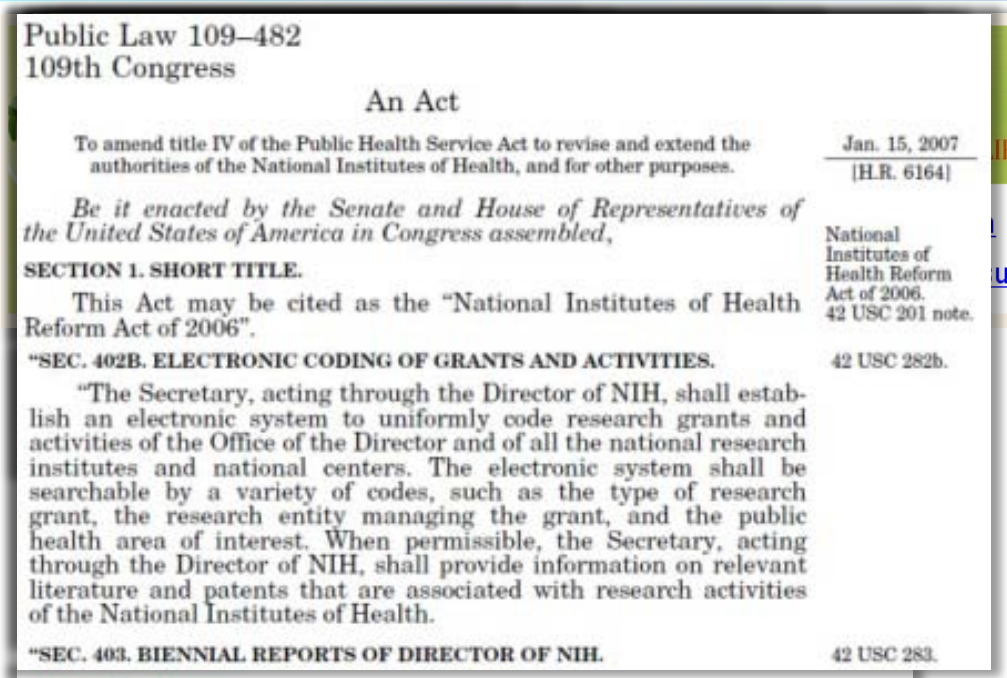
Requires establishment of electronic system to uniformly code research grants and activities of the Office of the Director and of all the national research institutes and national centers

The electronic system shall:

- *be searchable by a variety of codes, such as grant type, IC, and public health area of interest* (RCDC)
- *when permissible, shall provide information on relevant literature and patents that are associated with research activities of the National Institutes of Health* (RePORT*ER*)

Central Point of Public Access

RePORT Stakeholders



Public Law 109–482
109th Congress

An Act

To amend title IV of the Public Health Service Act to revise and extend the authorities of the National Institutes of Health, and for other purposes.

Jan. 15, 2007
[H.R. 6164]

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

National Institutes of Health Reform Act of 2006.
42 USC 201 note.

SECTION 1. SHORT TITLE.

This Act may be cited as the "National Institutes of Health Reform Act of 2006".

"SEC. 402B. ELECTRONIC CODING OF GRANTS AND ACTIVITIES.

42 USC 282b.

"The Secretary, acting through the Director of NIH, shall establish an electronic system to uniformly code research grants and activities of the Office of the Director and of all the national research institutes and national centers. The electronic system shall be searchable by a variety of codes, such as the type of research grant, the research entity managing the grant, and the public health area of interest. When permissible, the Secretary, acting through the Director of NIH, shall provide information on relevant literature and patents that are associated with research activities of the National Institutes of Health.

"SEC. 403. BIENNIAL REPORTS OF DIRECTOR OF NIH.

42 USC 283.

2009 GCN AWARDS

Honorable Mentions: 10 projects worth watching

- Oct 12, 2009

GCN Awards

National Institutes of Health, Health and Human Services Department – Office of Extramural Research for the Research Portfolio

Project: Online Reporting Tool (RePORT)

RePORT provides a publicly-accessible electronic system for searching NIH-funded research projects and supplies information on relevant literature and patents that result from that research.

SPICE

IFE

Data Recovery Center

ure Weight Loss Program

factly

- **Economists and science policy analysts**
- **Other federal science agencies**
- **Patients and their friends and family**

RePORT History

FY 2008

- Award Data for Individual Organizations
- Report Search
- Strategic Plans

FY 2009

- Award Data for Individual Organizations
- Report Search
- Strategic Plans
- CATEGORICAL SPENDING FY08
- NIH Data Book FY08
- Geo-Coding
- ReTools
- RePORT Atlas
- RECOVERY ACT New!
- BIENNIAL REPORT OF THE DIRECTOR FY07

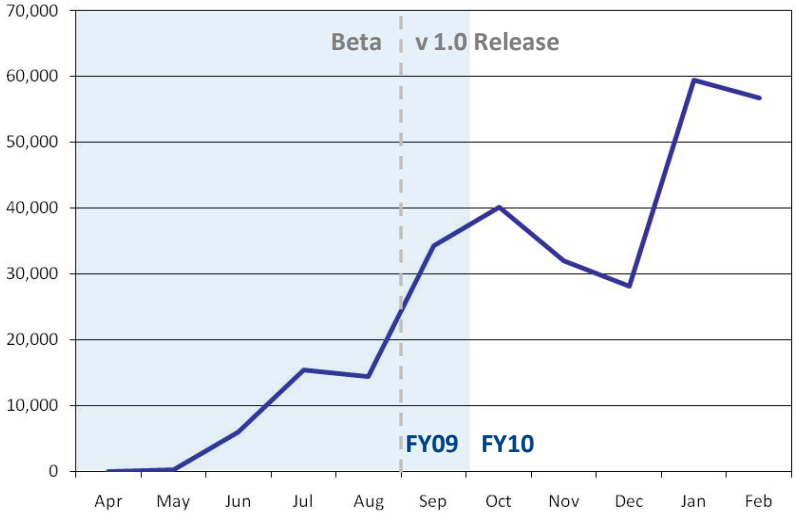
FY 2010

- Award Data for Individual Organizations
- Report Search
- Strategic Plans
- CATEGORICAL SPENDING FY09
- NIH Data Book FY09
- Geo-Coding
- ReTools
- RePORT Atlas
- RECOVERY ACT New!
- BIENNIAL REPORT OF THE DIRECTOR FY09
- NIH RePORTER v1.0
- My RePORTER Beta
- NIH Visual RePORTER Beta
- RePORTER: WIDGETS v 1.0
- ExPORTER Beta
- NIH RECOVERY ACT INVESTMENT REPORTS V 1.0
- Global RePORT Beta
- InPORT: IC-RCDC FY09

Monthly RePORT Usage

The number of unique visitors to the RePORT web site each month doubled over the course of FY 2009

Average number of users daily: 6,000



The number of RePORTER users has increased dramatically

Average number of users daily: 4,000

RePORT Modules

Report Search

Reports

ADVANCED SEARCH

Search Results for Reports and Statistics

NEW SEARCH | ADVANCED SEARCH

Research Project Grants: Applications, awards, success rates, and funding by type, activity, and IC

IC	Portfolio	Mechanism	Activity
All NIH (Aggregate)	Extramural Programs	Research Grants	DP1, DP2, P01, P42,
FIC		Research Grants, RPGs	PN1, R00, R01, R03,
NCCAM			R15, R21, R29, R33,
NCI			R34, R36, R37, R55,
NCMHD			R56, RC1, RL1, RL2,
NCRR			RL5, RL9, U01, U19,
NEI			UC1, UC7
NHGRI			
NHLBI			
NIA			
NIAAA			
NIAID			
NIAMS			
NIBIB			
NICHD			
NIDA			
NIDCD			
NIDCR			
NIDDK			
NIEHS			
NIGMS			
NIMH			
NINDS			
NINR			
NLM			
ROADMAP			

Applications, Number
Awards, Number
Awards, Total Costs
Obligations, Number
Obligations, Total Costs
Success Rates

Activity
FY
IC

2000 - 2009

VIEW REPORT

http://report.nih.gov/reportmap.aspx

Funding Facts

Coming Soon...

Funding Facts

Use the filters below to find pertinent data for your search criteria from the NIH Data Book. Slide numbers will be given along with the salient data points to assist in finding more information in the Data Book.

Topic: Awards - Number SELECT | Institute/Center: NCI SELECT
Activity: K Awards SELECT | Fiscal Year: All SELECT
Funding Mechanism: All SELECT

SUBMIT QUERY CLEAR QUERY

Data | Charts EXPORT

Slide	IC	Fiscal Year	Activity	Topic	Mechanism	Statistic
213	NCI	2003	K Awards	Awards - Number	Research Grants - Career Awards	490

Research Career Development Awards: Awards by Institute / Center

PRINTER FRIENDLY EXPORT TO WORD

Data:

Institute / Center	2003		2004		2005		2006		2007		2008		2009	
	Awards	Amount	Awards	Amount	Awards	Amount	Awards	Amount	Awards	Amount	Awards	Amount	Awards	Amount
FIC	17	$1,890,557	20	$2,233,234	0	$0	15	$1,766,928	12	$1,312,671	10	$1,114,949	11	$1,239,614
NCCAM	31	$4,513,920	39	$5,512,232	46	$6,549,993	44	$6,264,392	43	$5,847,898	51	$6,700,788	55	$7,487,419
NCI	490	$69,545,790	500	$72,410,211	537	$75,504,966	550	$79,731,039	523	$78,108,607	528	$79,837,453	501	$79,665,676

						1,860,000,000
153	All NIH	2002	Research Centers			$2,124,000,000
153	All NIH	2003	Research Centers	Budget - Appropriation	Research Grants - Centers	$2,428,000,000

Done

Annual Reports

http://report.nih.gov/funded_organizations/index.aspx

Awards by Location

Coming Soon...

NIH Data Book

Success Rates and Funding Rates

Research Project Grants: Applications, awards, and success rates

PRINTER FRIENDLY | EXPORT TO POWERPOINT

Export to PowerPoint

Opening NEDBSlide124_051210.ppt

You have chosen to open

NEDBSlide124_051210.ppt

which is a: Microsoft Office PowerPoint 97-2003 Presentation

from: http://www.report.nih.gov

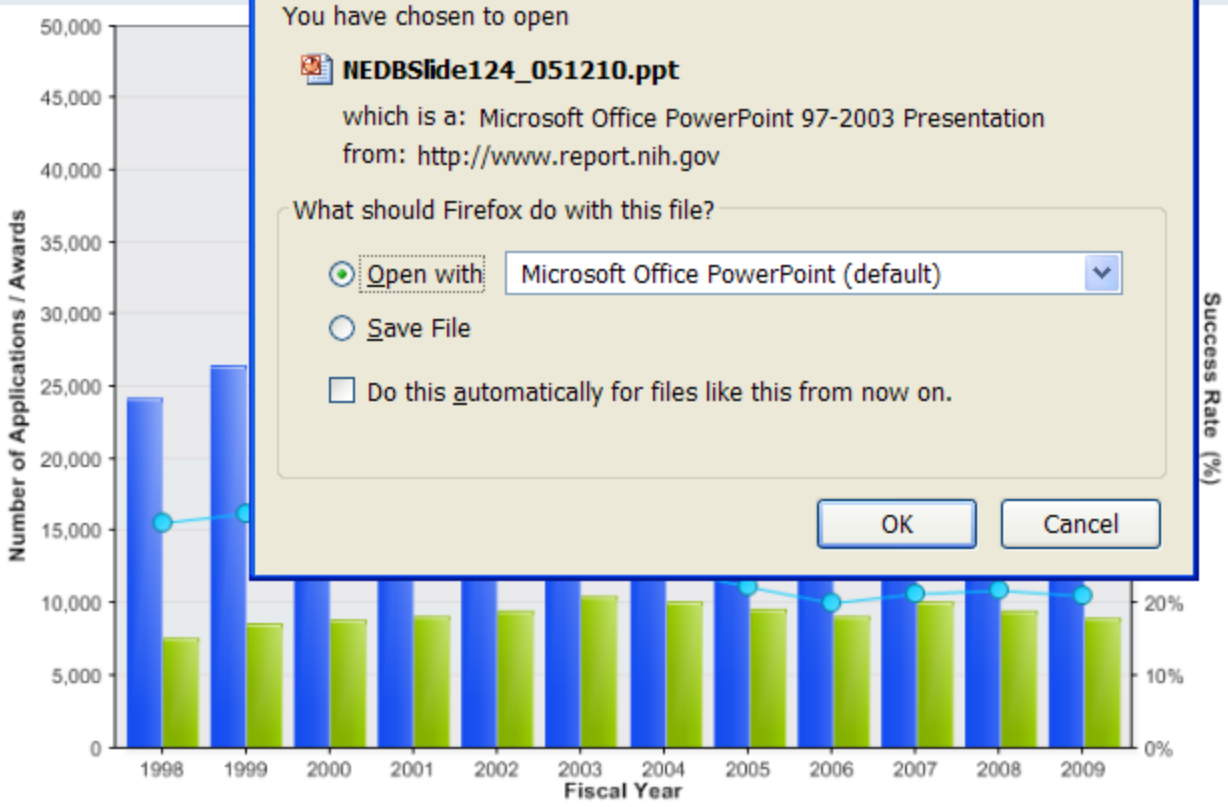
What should Firefox do with this file?

Open with: Microsoft Office PowerPoint (default)

Save File

Do this automatically for files like this from now on.

OK | Cancel



Data:

Research
Research
Nonc
Admir
Comp
Subto
SBIR/
Total,
Research
Spec/
Clinic
Biotec
Comp
RCMI
Total,

http://report.nih.gov/ndb/index.aspx

NIH Biennial Report

Notable Examples of NIH Activity

Neurodegeneration: Fighting the Effects of Age, Exposure, and Disease

Alzheimer's Disease Neuroimaging Initiative (ADNI): ADNI is an innovative public-private partnership for examining the potential for serial MRI, positron emission tomography (PET), or other biomarkers to measure earlier and with greater sensitivity the development and progression of mild cognitive impairment and Alzheimer's disease. Early results suggest that researchers may be able to reduce the costs associated with clinical trials by improving imaging and biomarker analysis. One ADNI study found that a standard model can be used to monitor the performance of MRI scanners at multiple clinical sites, ensuring the accuracy of the MRI images. In another study, investigators compared changes over time in PET scans of brain glucose metabolism in people with normal cognition, mild cognitive impairment, and Alzheimer's disease and found that scans correlated with symptoms of each condition and that images were consistent across sites. This finding suggests that PET scans may be a valid method for monitoring the effectiveness of therapies in future clinical trials. More than 200 researchers have already accessed a public database containing thousands of brain images and related clinical data obtained through blood and cerebrospinal fluid analyses.

- For more information, see http://www.loni.ucla.edu/ADNI
- For more information, see http://www.nia.nih.gov/Alzheimers/ResearchInformation/ClinicalTrials/ADNI.htm
- This example also appears in Chapter 2: *Life Stages, Human Development, and Rehabilitation.*
- (E) (**NIA**, NIBIB)

Genome-Wide Genotyping in Parkinson's Disease: NIH researchers recently conducted genome-wide genotyping of publicly available samples from a cohort of 267 patients with Parkinson's disease and 270 neurologically normal control subjects to identify any common genetic variability with significant effect on the risk for Parkinson's disease. The project has produced approximately 220 million data points in the 537 subjects, the largest collection of publicly available genotypes in a case-control cohort. The release of these data facilitates research on Parkinson's disease and other neurodegenerative disorders, and the genotypes from neurologically normal control subjects can be used as a comparison cohort for other studies, dramatically reducing the cost of future research.

- Fung HC, et al. *Lancet Neurol* 2006;5:911-6, PMID: 17052657
- For more information, see http://www.nia.nih.gov/NewsAndEvents/PressReleases/PR20060927parkinsons.htm
- This example also appears in Chapter 3: *Genomics.*
- (E/I) (**NIA**, NINDS)

http://report.nih.gov/biennialreport/

NIH Categorical Spending

Estimates of Funding for Various Research, Condition, and Disease Categories (RCDC)

RESEARCH, CONDITION, AND DISEASE CATEGORIZATION PROCESS

SEARCH RESEARCH/DISEASE AREAS GO PRINT EXPORT TO EXCEL

Research/Disease Areas (Dollars in millions and rounded)	FY 2006 Actual	FY 2007 Actual NIH Historical Method 12/	FY 2007 Actual NIH Revised Method 12/	FY 2008 Actual	FY 2009 Actual (Non-ARRA)	FY 2009 Actual (ARRA) 13/	FY 2010 Estimated (Non-ARRA)	FY 2010 Estimated (ARRA) 14/	FY 2011 Estimated
Acute Respiratory Distress Syndrome	$74	$48	$87	$82	$103	$17	$106	$9	$109
Agent Orange & Dioxin	$17	$18	$15	$1					$14
Aging	$2,431	$2,462	$1,879	$1,965	$3,015	$554	$3,093	$363	$3,172
Alcoholism	$511	$521	$443	$452	$441	$75	$452	$48	$467
Allergic Rhinitis (Hay Fever)	$4	$5	$7	$6	$4	$1	$4	$1	$4
ALS	$44	$39	$40	$43	$43	$13	$44	$11	$45
Alzheimer's Disease	$643	$645	$411	$412	$457	$77	$469	$58	$480
American Indians / Alaska Natives	$155	$141	$159	$142	$169	$19	$173	$6	$177
Anorexia	$15	$12	$8	$7	$8	$2	$8	$2	$8
Anthrax	$150	$105	$160	$134	$102	$13	$105	$10	$108
Antimicrobial Resistance	$221	$269	$209	$228	$251	$52	$257	$24	$265
Aphasia	$15	$14	$20	$22	$22	$3	$22	$1	$23
Arctic	$17	$19	$25	$22	$28	$6	$29	$1	$29

FY 2008 Actual $82M. Click here to get the detailed project listing

http://report.nih.gov/rcdc/categories/

Recovery Act RePORT

Recovery Act

- ARRA Funding Maps
- NIH Recovery Act Grant Award Downloads
- Search NIH-Funded Recovery Act Projects

NIH and the American Recovery and Reinvestment Act

NIH ARRA FY 2009 Funding Report

NIH Institute, Center, and Office Recovery Act Sites

NIH Recovery Act Investment Reports

http://report.nih.gov/recovery/

ARRA Downloads

NIH Recovery Act Grant Award Downloads

1/28/2010: Please note that the Award Date column in these spreadsheets has been replaced by Award Notice Issued date.

NIH Recovery Act Grant Awards: Fiscal Year 2009

This is a frozen file of ARRA-funded grants awarded through 9/30/2009. It does not include other NIH ARRA-funded activities, such as contracts.

- Data frozen on 10/1/2009

NIH Readiness Tool: For quarterly ARRA recipient reporting, April 1-10, 2010

Note: The congressional district information contained in this spreadsheet has not been confirmed. If you are unable to successfully submit your report using the district code provided here, you can verify it on the US House of Representatives website.

- Data as of 4/1/2010

NIH Recovery Act Grant Awards: Awarded-To-Date

This is a list of all ARRA-funded grants awarded to date, including any award modifications. It does not include other NIH ARRA-funded activities, such as contracts.

For more information, see Understanding the NIH Recovery Act Grant Award Spreadsheet

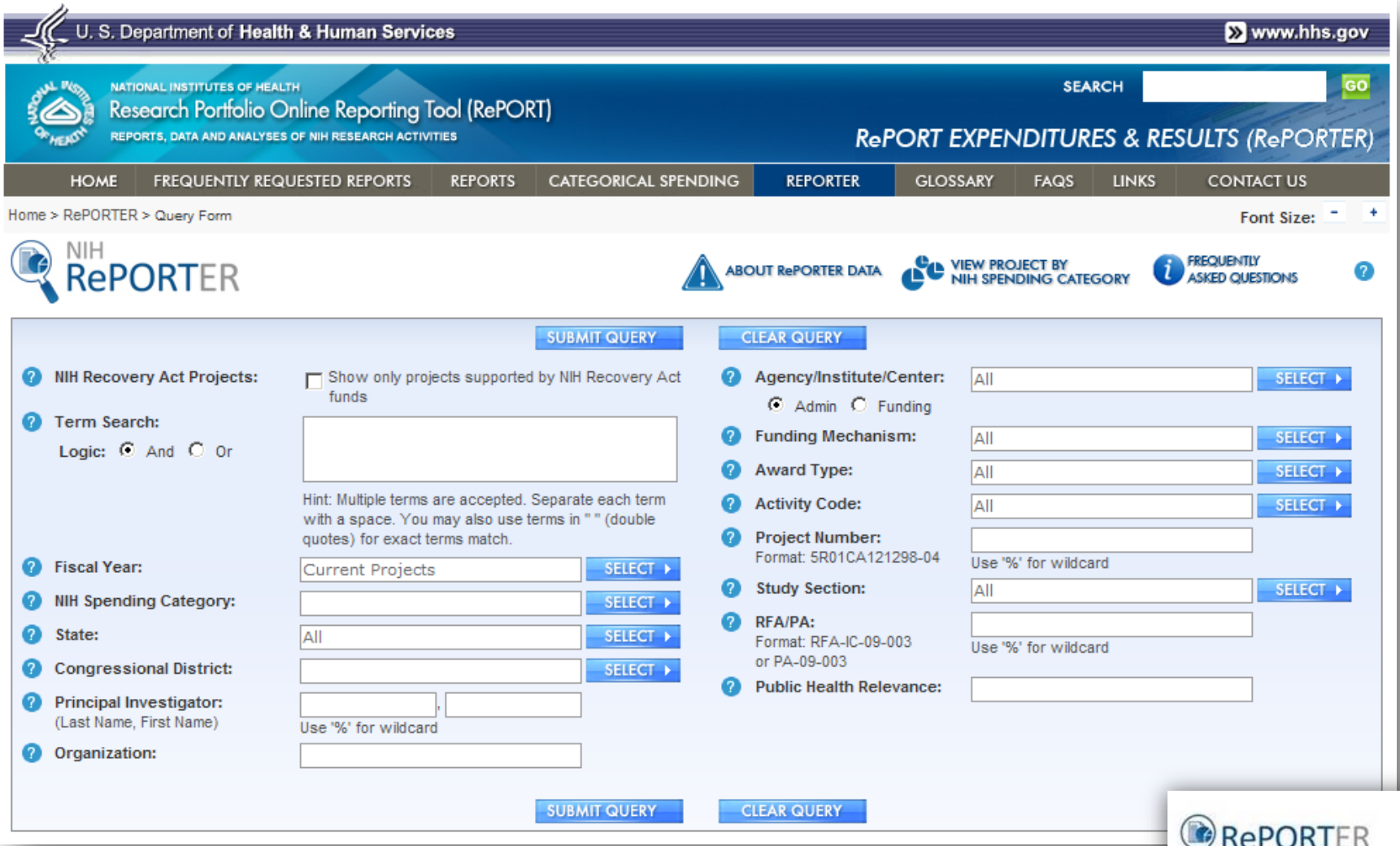
- Data as of 5/11/2010

http://report.nih.gov/recovery/#downloads

ARRA Funding Maps

http://report.nih.gov/recovery/#maps

RePORTER



http://projectreporter.nih.gov/reporter.cfm

Hit List

Search Results

BACK TO QUERY FORM

ABOUT RePORTER RESULTS

= PubMed = PubMed Central = Google Scholar

HIT LIST | PUBLICATIONS | PATENTS

EXPORT

Year of Publication: 2010 Records per page: 25

Show/Hide Search Criteria

In **2010**, there were **64** publications citing support from projects in the hit list.

Click on the column header to sort the results

Page 1 of 3 Next Last

Core Project Number	Title (Link to full-text in PubMed Central)	Journal (Link to PubMed abstract)	Authors	Related Publications	Cited By
RC1CA147096	In vivo magnetomotive optical molecular imaging using targeted magnetic nanoprobes.	Proceedings Of The National Academy Of Sciences Of The United States Of America. 2010 May 4; 107 (18) :8085-90	John, Renu; Rezaeipoor, Robabeh; Adie, Steven G; Chaney, Eric J; Oldenburg, Amy L; Marjanovic, Marina; Haldar, Justin P; Sutton, Bradley P; Boppart, Stephen A		
RC1DK086304	Effect of indomethacin on bile acid-phospholipid interactions: implication for small intestinal injury induced by nonsteroidal anti-inflammatory drugs.	American Journal Of Physiology. Gastrointestinal And Liver Physiology. 2010 May; 298 (5) :G722-31	Zhou, Yong; Dial, Elizabeth J; Doyen, Rand; Lichtenberger, Lenard M		
RC1HL099534	Cardiovascular consequences of obese and nonobese obstructive sleep apnea.	The Medical Clinics Of North America. 2010 May; 94 (3) :465-78	Ramar, Kannan; Caples, Sean M		
RC1HL100474	The host response to sepsis and developmental impact.	Pediatrics. 2010 May; 125 (5) :1031-41	Wynn, James; Cornell, Timothy T; Wong, Hector R; Shanley, Thomas P; Wheeler, Derek S		
RC1HL100556	gp96, an endoplasmic reticulum master chaperone for integrins and Toll-like receptors, selectively regulates early T and B lymphopoiesis.	Blood. 2010 Mar 25; 115 (12) :2380-90	Staron, Matthew; Yang, Yi; Liu, Bei; Li, Janet; Shen, Yuankai; Zuniga-Pflucker, Juan Carlos; Aguila, Hector L; Goldschneider, Irving; Li, Zihai		

DISORDERS IN ADOLESC

http://projectreporter.nih.gov/reporter.cfm

Project Information

Project Information

BACK TO QUERY FORM | BACK TO SEARCH RESULTS | PRINT VERSION

DESCRIPTION | DETAILS | RESULTS | HISTORY | SUB-PROJECTS

Project Number:	1RC1CA147096-01	**Contact Principal Investigator:**	WEI, ALEXANDER
Title:	INVESTIGATING TUMOR GROWTH DYNAMICS USING MULTIMODAL CONTRAST AGENTS AND OPTICAL	**Awardee Organization:**	PURDUE UNIVERSITY WEST LAFAYETTE

ABOUT RePORTER RESULTS

= PubMed = PubMed Central = Google Scholar

Publications: Publications missing? Principal Investigators click here

Click on the column header to sort the results

Page 1 of 1

Title (Link to full-text in PubMed Central)	Journal (Link to PubMed abstract)	Authors	Related Publications	Cited By
In vivo magnetomotive optical molecular imaging using targeted magnetic nanoprobes.	Proceedings Of The National Academy Of Sciences Of The United States Of America. 2010 May 4; 107 (18) :8085-90	John, Renu; Rezaeipoor, Robabeh; Adie, Steven G; Chaney, Eric J; Oldenburg, Amy L; Marjanovic, Marina; Haldar, Justin P; Sutton, Bradley P; Boppart, Stephen A		

Patents:

Patent Number	Patent Title
No patents information available for 1RC1CA147096-01	

Project Funding Information for 2009:

Total Funding: $500,000

Year	Funding IC	FY Total Cost by IC
2009	NATIONAL CANCER INSTITUTE	$500,000

Categorical Spending by IC:

Click here for more information on NIH Categorical Spending

Imaging, Three-Dimensional; In Vitro; Leakage; Magnetism; Mammals, Mice; Measurement; Measures; Mechanics; Medical Imaging, Three Dimensional; Metric; Mice; Multimodal Imaging; Multimodality; Murine; Mus; OCT Tomography; Optical Coherence Tomography; Optics; Plastics; Property; Property, LOINC Axis 2; Radiopaque Media; Resolution; Spillage; Technology; Tensile Strength; Three-Dimensional Imaging; Tissues; Tomography, Optical Coherence; Tumor Cell; Tumor Tissue; Visual; epithelial carcinoma; imaging; macrophage; magnetic; migration; nano particle; nano probe; nanoparticle; nanoprobe; neoplastic cell; optic imaging; optical imaging; physical science; tumor; tumor growth; tumor xenograft

http://projectreporter.nih.gov/reporter.cfm

Log into the NIH Manuscript Submission System
http://nihms.nih.gov/

Log In

Proceed to the NIHMS system if you are ready to submit a manuscript.

Grant Lookup Tool

Search the NIHMS grant database to find current grant numbers.

Statistics

Review NIHMS submission statistics that are compiled on a monthly basis.

… through the eRA Commons

NIH Manuscript Submission System

Login Options

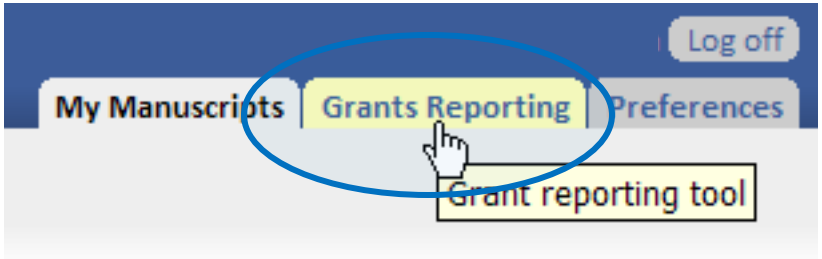
The NIH Manuscript Submission allows you to submit an electronic version of your peer-reviewed final manuscript for inclusion in PubMed Central. Eligible manuscripts must have been funded by one of the participating groups listed in the login table below.

Choose a login route:

Route	Users	Policy
eRA Commons	NIH extramural principal investigators, grantees or applicants	
NIH	NIH intramural scientists	
publisher	publishers	
HHMI	Howard Hughes Medical Institute investigators	
myNCBI	others	

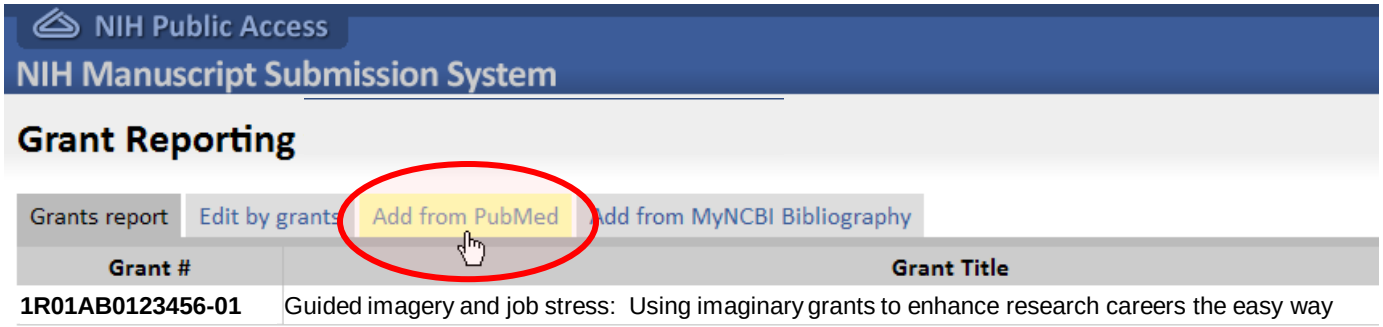
Adding Publications to RePORTER

Linking Publications to Grants
Step 2



- Select Grants Reporting

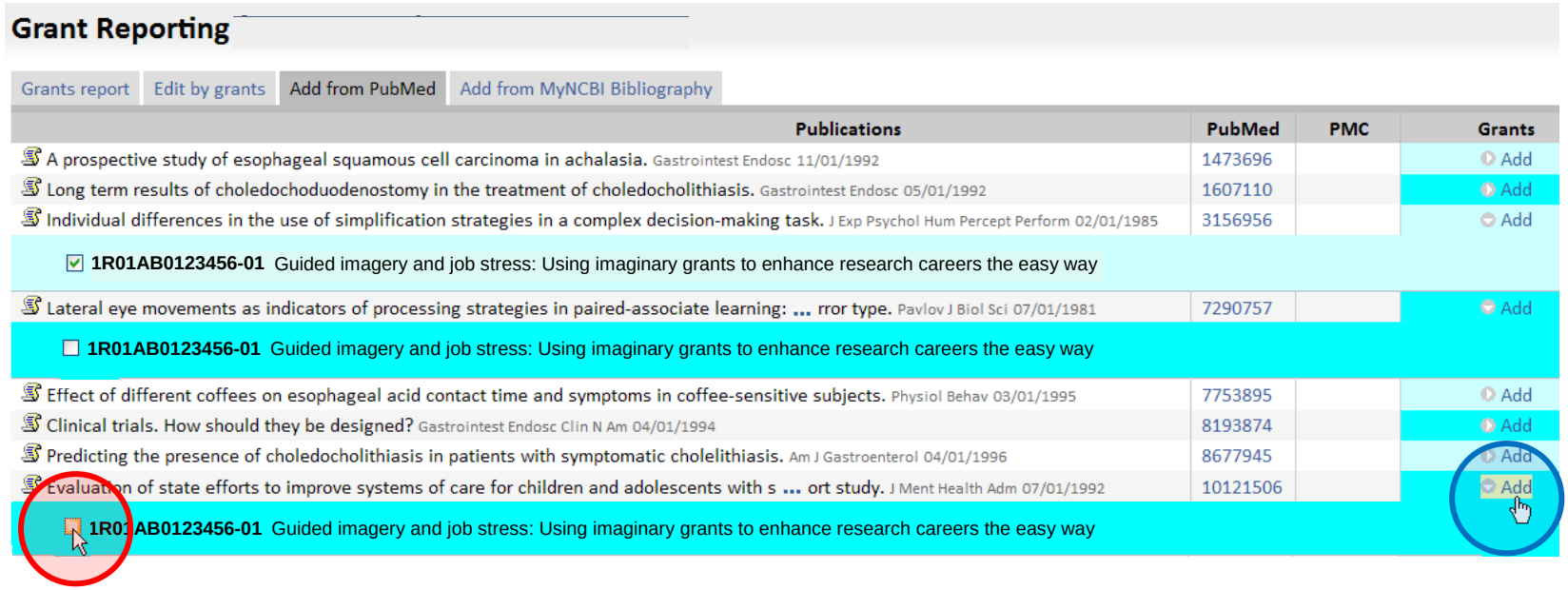
- … and Add from PubMed



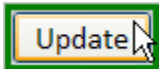
Adding Publications to RePORTER

Linking Publications to Grants
Step 3

Select publication(s) to be added …



Select the grant(s) providing support for each publication …



And update the database

Changes can take up to **one week** to appear in RePORTER—please check back!

[Adding Publications to RePORTER]

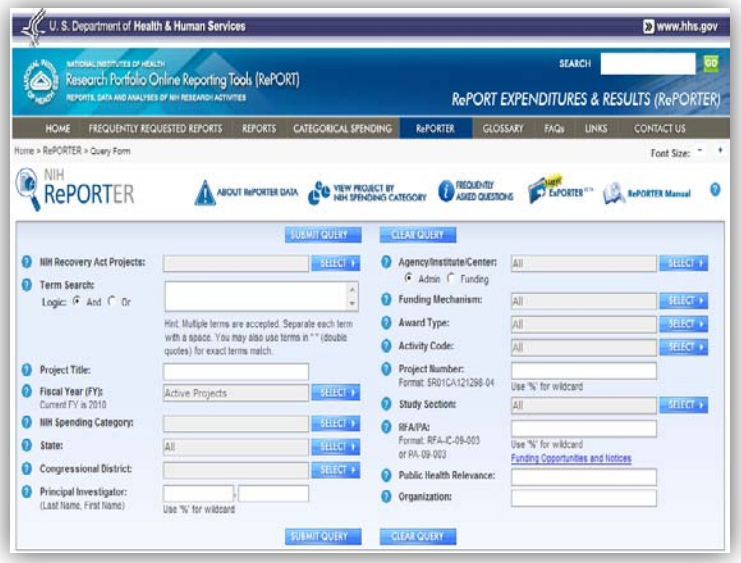
ExPORTER

http://projectreporter.nih.gov/exporter/

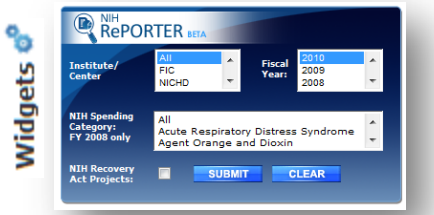
RePORT and Open Government

FY 2011 Provisional Plans
RePORTER v2.0

NIH RePORTER v2.0



- *My*RePORTER
  - Notifications
  - Saved Portfolios
  - Custom Data Book
  - Saved Searches



- Export publications to reference manager
- Publication search
- Hit list analysis and graphing
- Network analysis/clustering of hit lists (PIs, institutions, project terms)
- Links to PI profile pages
- Institution Profile/Dashboard page
- IC Profile/Dashboard page
- Link Categorical Spending page (RCDC project lists) to RePORTER
- Next generation widgets for sharing beyond NIH
- Integrate reports database with RePORTER (provide access to any pre-generated reports that match a user's query)
- Continue improving data and data quality
  - ClinicalTrials.gov linkage
  - Other databases

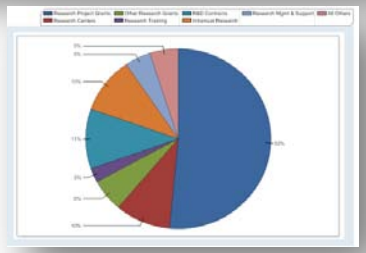
FY 2011 Provisional Plans
NIH Data Book v2.0 and *My*Data Book v1.0

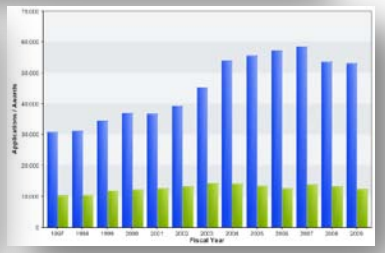
NIH DATA BOOK

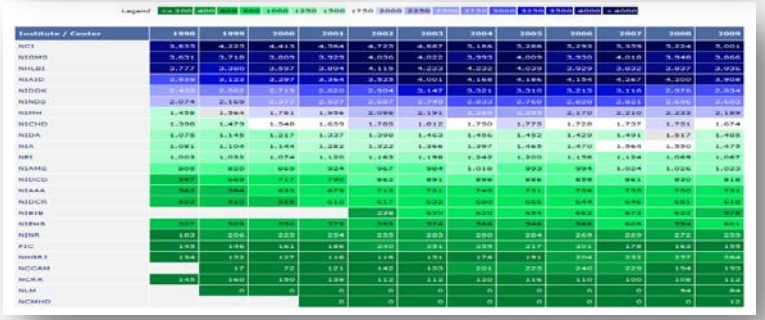
The NIH Data Book (NDB) provides basic summary statistics on extramural grants and contract awards, grant applications, the organizations that NIH supports, the scientific workforce, and trainees and fellows supported through NIH programs. Tables and charts are provided in a variety of formats, including PowerPoint (PPT) slides and Portable Document Format (PDF) files.

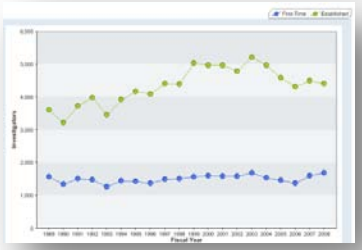
NIH Data Book v 2.0

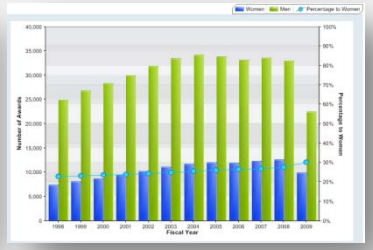
- Make the current NIH Data Book personalizable
- Enhanced Funding Facts: quick search for specific NIH budget or funding information
- Enhance current NIH Data Book: increase interactivity
- Automate generation of IC-specific Data Books







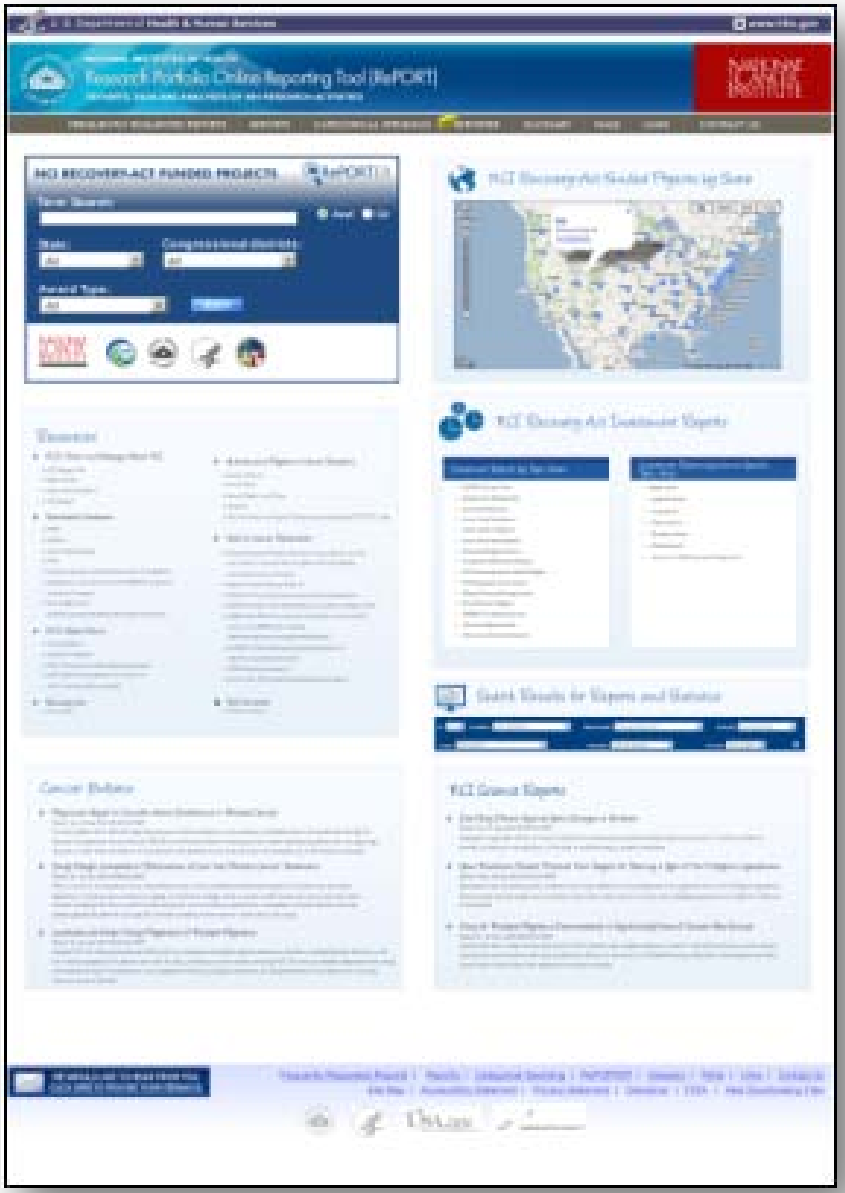




FY 2011 Provisional Plans
IC-Specific RePORTs

Institute RePORTs

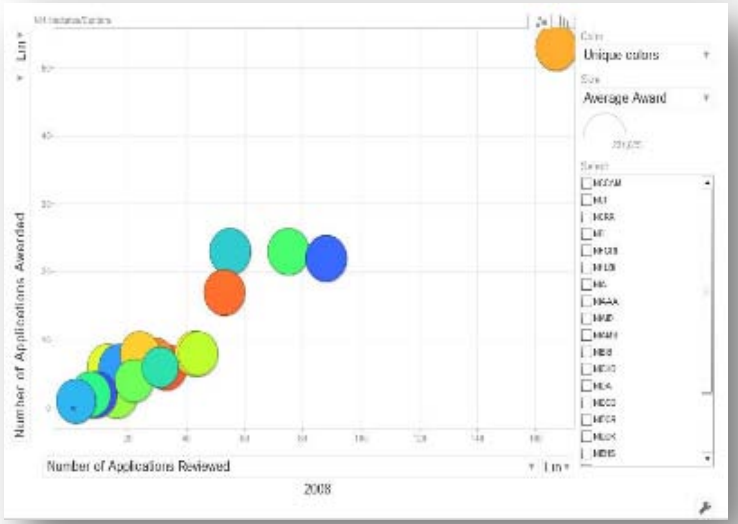
- IC-specific RePORT
  - IC-specific view of RePORT
  - Extend RePORT Content Management System (CMS) to allow IC's to maintain their own content on RePORT
- IC-specific RePORTER
- IC-Specific GIS integration
- Widgets, RSS, Mash-ups



FY 2011 Provisional Plans
Visual RePORTER

NIH Visual RePORTER v 1.0

- Graphing capabilities for RePORT
- Interactive analysis capabilities
- Expand ReTools to include latest developments in visualization technologies
- Web Service development

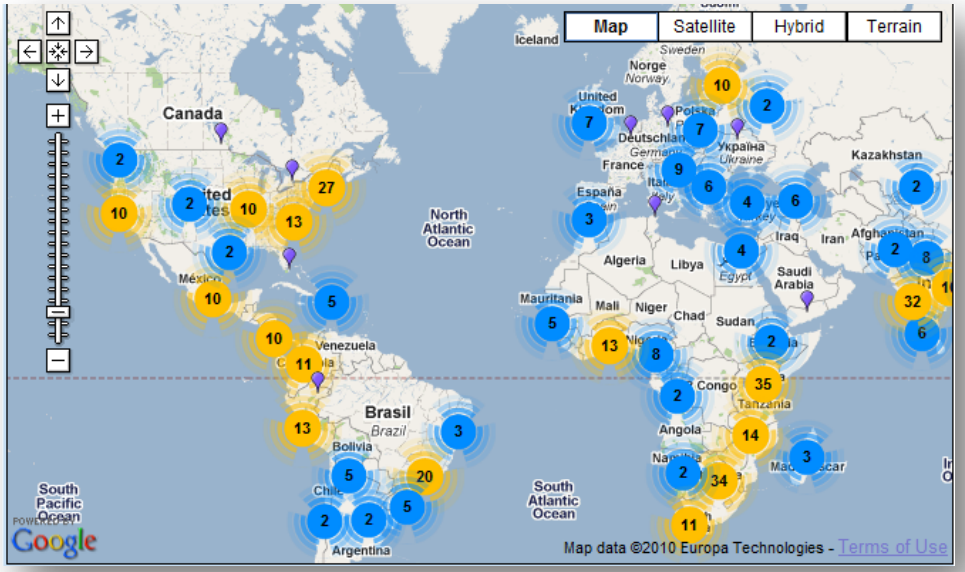


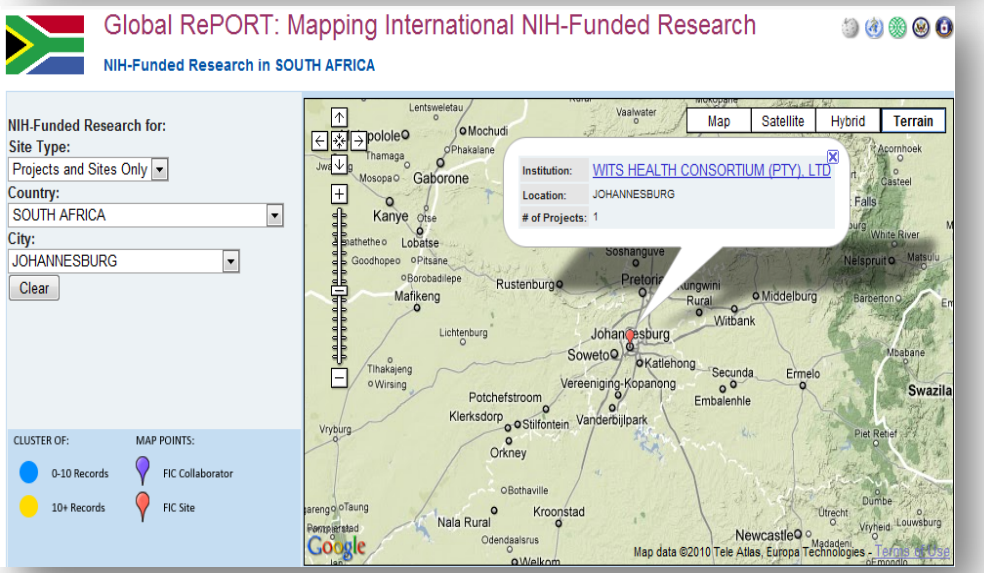
FY 2011 Provisional Plans
Global RePORT v1.0

Global RePORT v 1.0

Improve reporting on NIH-support research conducted in foreign countries

- Country pages
- IC Global research pages
- GIS map interfaces
- Country fact sheets





THANK YOU

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NOTES: