



2010 Fact Book

National Cancer Institute

2010 Fact Book

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

The information set forth in this publication is compiled and amended annually by the budget and finance staff of the National Cancer Institute and is intended primarily for the use by members of the Institute and others involved in the administration and management of the National Cancer Program.

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This document is also available online on the Office of Budget and Finance homepage (<http://obf.cancer.gov/>) on the National Cancer Institute's website (<http://www.cancer.gov>).

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Executive Summary

Fiscal Year 2010 Annual Report

BUDGET IN REVIEW

This report provides a summary of the distribution of the Fiscal Year 2010 budget among the various National Cancer Institute (NCI) research programs and funding mechanisms, funding policies influencing grant awards, and comparisons with prior year allocations. Additional information on the NCI budget is accessible from the NCI Home Page (<http://www.cancer.gov>).

Summary

Funds available to the NCI in FY 2010 totaled over \$5.098 billion, reflecting an increase of 2.6% and \$131 million from the previous fiscal year.

Fiscal highlights from FY 2010 include:

- Of the total NCI budget, 43% of the funds were allocated for Research Project Grants (RPGs).
- The total number of RPGs funded was 5,079 (includes SBIR).
- Almost one-fourth of the RPGs awarded were new (Type 1) or competing renewal (Type 2) awards.
- 1,253 competing RPGs were funded.
- Almost one-third of the total NCI budget supported ongoing non-competing (Type 5) RPGs.
- R01 grants were funded to the 15th percentile.
- 207 grants – totaling almost \$86 million – were funded as Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards.
- Intramural Research comprised just under 16% of the total NCI budget in FY 2010. Of this amount, 10% was for Labs and Bench Research and 5.8% was for infrastructure and support.

NCI Dollars by Mechanism for FY 2009 and 2010
(in thousands)

	2009	2010	Change '09 to '10	
			Am't	%
Research Project Grants:				
Noncompeting	1,550,906	1,536,844	-14,062	-0.9%
Admin Supplements	33,257	28,947	-4,310	-13.0%
Competing	457,834	516,598	58,764	12.8%
Subtotal, RPG	2,041,997	2,082,389	40,392	2.0%
SBIR/STTR	91,954	85,669	-6,285	-6.8%
Total, RPG	2,133,951	2,168,058	34,107	1.6%
Cancer Centers	285,608	295,856	10,248	3.6%
SPOREs	131,360	133,810	2,450	1.9%
Other P50s/P20s	28,105	38,765	10,660	37.9%
Other Specialized Centers	116,380	142,702	26,322	22.6%
Total: Centers, Spec Ctrs, & SPOREs	561,453	611,133	49,680	8.8%
Research Career Program	79,120	74,914	-4,206	-5.3%
Cancer Education	31,945	35,444	3,499	11.0%
Clinical Cooperative Groups	234,531	254,487	19,956	8.5%
Other Grants	71,698	77,768	6,070	8.5%
Subtotal, Other	417,294	442,613	25,319	6.1%
Total, Research Grants	3,112,698	3,221,804	109,106	3.5%
National Research Service Awards	70,134	67,564	-2,570	-3.7%
R&D Contracts	610,142	613,762	3,620	0.6%
Intramural Research	781,389	805,332	23,943	3.1%
Research Management & Support	384,644	381,765	-2,879	-0.7%
Construction	-	-	-	0.0%
Buildings and Facilities	7,920	7,920	-	0.0%
Total, NCI	4,966,927 *	5,098,147 **	131,220	2.6%
AIDS research included above	[265,882]	[272,130]	6,248	2.3%

*Cancer Prevention and Control was eliminated as a Budget Mechanism in FY09.

**EXCLUDES projects awarded with Stamp Out Breast Cancer funds.

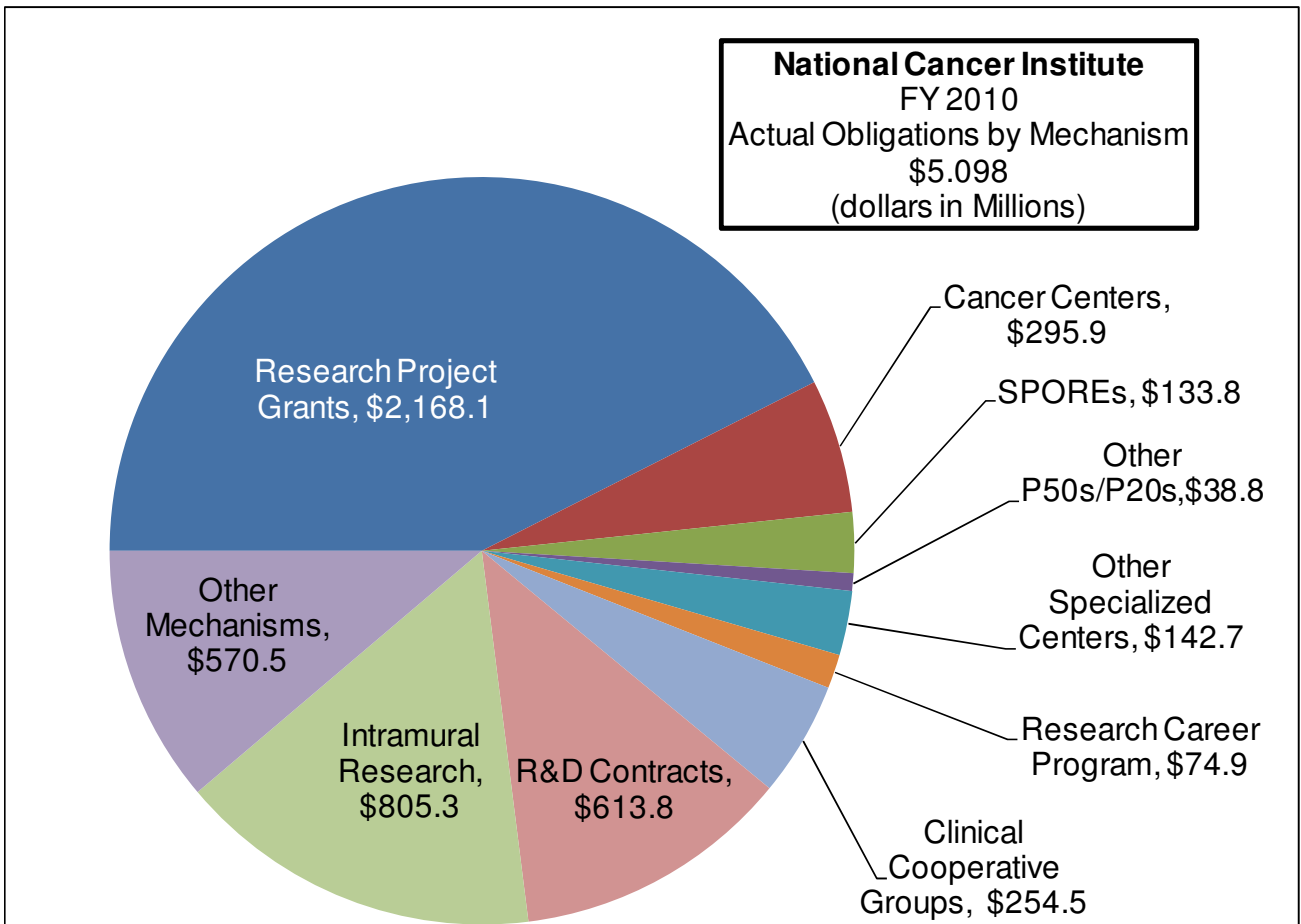
Percent Share of Total NCI Dollars

Summary Points

- The mechanism shares of the total budget have remained relatively stable from FY 2006 to FY 2010, taking into account the elimination of Cancer Prevention and Control as a budget mechanism in FY 2009

Percent Share of Total NCI Dollars					
	2006	2007	2008	2009	2010
Research Project Grants	45.4%	44.1%	43.3%	43.0%	42.5%
Cancer Centers	5.6%	5.7%	5.7%	5.8%	5.8%
SPOREs	2.6%	2.6%	2.6%	2.6%	2.6%
Specialized Centers	1.6%	1.6%	1.6%	2.3%	2.8%
Other P50s/P20s	-	-	-	0.6%	0.8%
Clinical Cooperative Groups	3.1%	3.1%	3.0%	4.7%	5.0%
R&D Contracts	7.3%	8.7%	9.2%	12.3%	12.0%
Intramural Research	14.5%	14.7%	14.9%	15.7%	15.8%
Cancer Prevention & Control*	10.7%	10.4%	9.9%	0.0%	0.0%
Other Mechanisms	9.3%	9.2%	9.9%	13.0%	12.7%

*Cancer Prevention and Control Eliminated as a Budget Mechanism in FY09.



Funding Trends

Summary Points

- The NCI budget has increased by \$350.9 million – or 7.4% – since FY 2006.
- Increase for R&D contracts, Clinical Cooperative Groups, and other mechanisms are due in part to the elimination of the Cancer Prevention and Control Mechanism

	Historical Funding Trends				
	(Dollars in Millions)				
	2006	2007	2008	2009	2010
Total NCI	\$4,747.2	\$4,792.6	\$4,827.6	\$4,966.9	\$5,098.1
Research Project Grants	2,156.9	2,111.8	2,089.9	2,134.0	2,168.1
Cancer Centers	265.0	273.2	274.5	285.6	295.9
SPOREs	124.9	123.8	123.3	131.4	133.8
Other P50s/P20s	-	-	-	28.1	38.8
Other Specialized Centers	73.9	74.7	79.3	116.4	142.7
Clinical Cooperative Groups	145.9	148.2	144.0	234.5	254.5
R&D Contracts	347.8	416.9	444.2	610.1	613.8
Intramural Research	687.3	706.2	718.4	781.4	805.3
*Cancer Prevention & Control	505.6	498.4	471.5	-	-
Other Mechanisms	439.8	439.4	482.5	645.5	645.4

	% Growth by Mechanism				
	2006 to 2007	2007 to 2008	2008 to 2009	2009 to 2010	2006 to 2010
Total NCI	1.0%	0.7%	2.9%	2.6%	7.4%
Research Project Grants	-2.1%	-1.0%	2.1%	1.6%	0.5%
Cancer Centers	3.1%	0.5%	14.3%	3.6%	11.6%
SPOREs	-0.9%	-0.4%	6.5%	1.9%	7.1%
Other P50s/P20s	-	-	100.0%	37.9%	100.0%
Specialized Centers	1.0%	6.2%	46.8%	22.6%	93.0%
Clinical Cooperative Groups	1.6%	-2.8%	62.9%	8.5%	74.4%
R&D Contracts	19.9%	6.6%	6.6%	0.6%	76.5%
Intramural Research	2.7%	1.7%	8.8%	3.1%	17.2%
*Cancer Prevention & Control	1.4%	-5.4%	-100.0%	0.0%	-100.0%
Other Mechanisms	-0.1%	9.8%	33.8%	0.0%	46.7%

*Cancer Prevention and Control Eliminated as a Budget Mechanism in FY09.

Research Project Grants

Summary Points

- 91% of competing dollars supported grants awarded within the established payline; 9% supported grants as an exception to the payline.
- RFA funds increased from FY 2009 dollar level and accounted for 12.6% of FY 2010 competing dollars.
- Research Project Grant applications submitted to NCI increased by approximately 14%.
- A total of 1,253 competing RPG's were funded.

Research Project Grants*				
(Dollars in Thousands)				
	2009		2010	
	No.	Amount	No.	Amount
Total funding for RPGs	5,179	\$2,133,951	5,078	\$2,169,058
SBIR/STTR	261	\$91,954	207	\$85,669
Funding for RPGs without SBIR/STTR Program	4,918	\$2,041,997	4,871	\$2,082,389
Competing grants funded	1,235	\$457,834	1,253	\$516,598
Administrative Supplements	267	\$33,257	258	\$29,022
Partial assessment for DHHS Program Evaluation		\$70,912		\$75,329
Funds set aside within competing dollars for:				
Grants within Paylines:	1,169	\$423,668	1,134	\$468,594
Traditional R01	680	\$259,819	726	\$284,237
Program Projects (P01)	23	\$39,339	26	\$53,174
RFA Grants	89	\$49,001	95	\$65,168
Share of competing grant funds		10.7%		12.6%
Exception Grants	66	\$34,165	119	\$48,004
Share of competing grant funds		7.5%		9.3%
Competing Application Requests	6,419	\$2,570,862	7,338	\$3,065,725
Funding Success Rate		19.2%		20.2%
Percentile funding for R01 grants		16th		15th
Average Cost-Competing		\$371		\$412
Average Reduction from recommended/requested levels		-17%		-17%
*EXCLUDES projects awarded with Stamp Out Breast Cancer funds.				

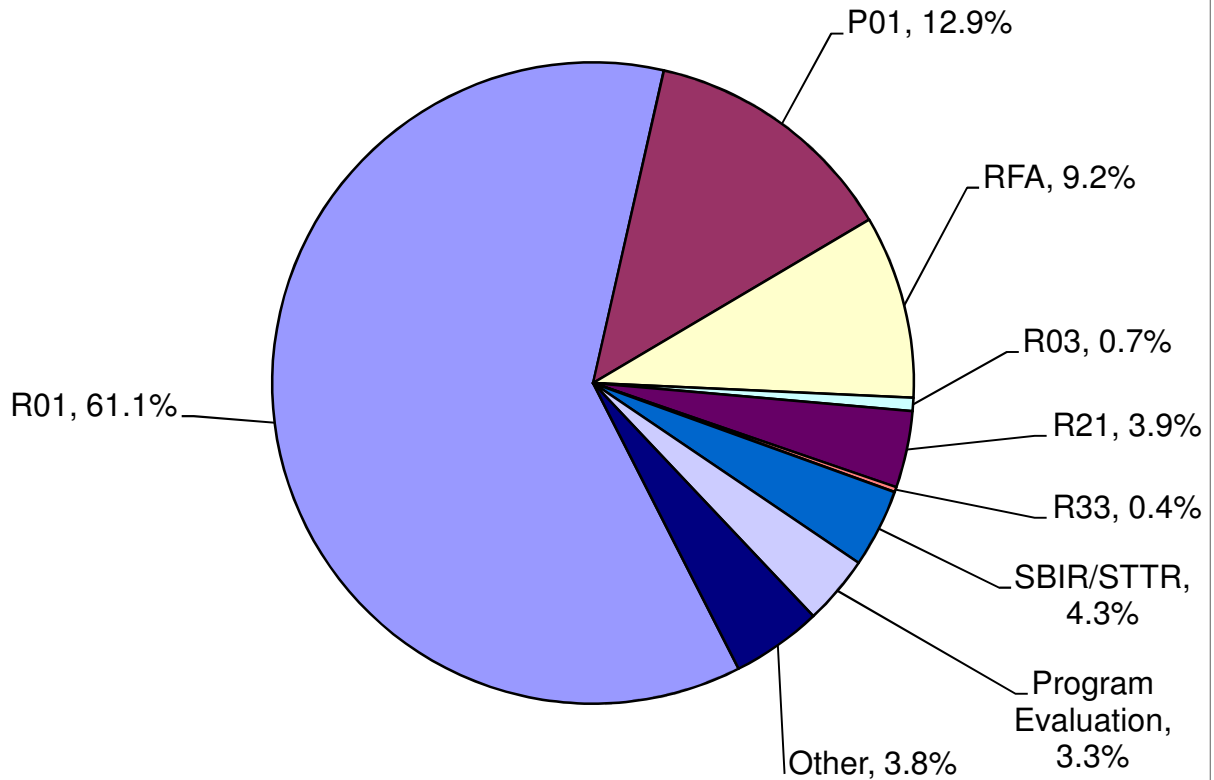
Grant Funding Paylines

RPG Mechanisms:	2009	2010**	
R01 Traditional Grants	16th	15th	percentile
P01 Program Projects*	N/A	N/A	priority score
R03 Small Grants	210	30	priority score
R21 Exploratory Phase I	16th	15th	percentile
R33 Exploratory Phase II	155	17	priority score
R41/R42 STTR	180	29	priority score
R43/R44 SBIR	210	29	priority score

* Formal paylines for P01 grants are determined by the Executive Committee

** In FY 2010, NIH instituted a new peer review scoring system resulting in a two digit priority score. More information on the new system is available under "Peer Review Process" online at: <http://grants.nih.gov/grants/oer.htm>

National Cancer Institute FY 2010 % Share of Total RPG Funds

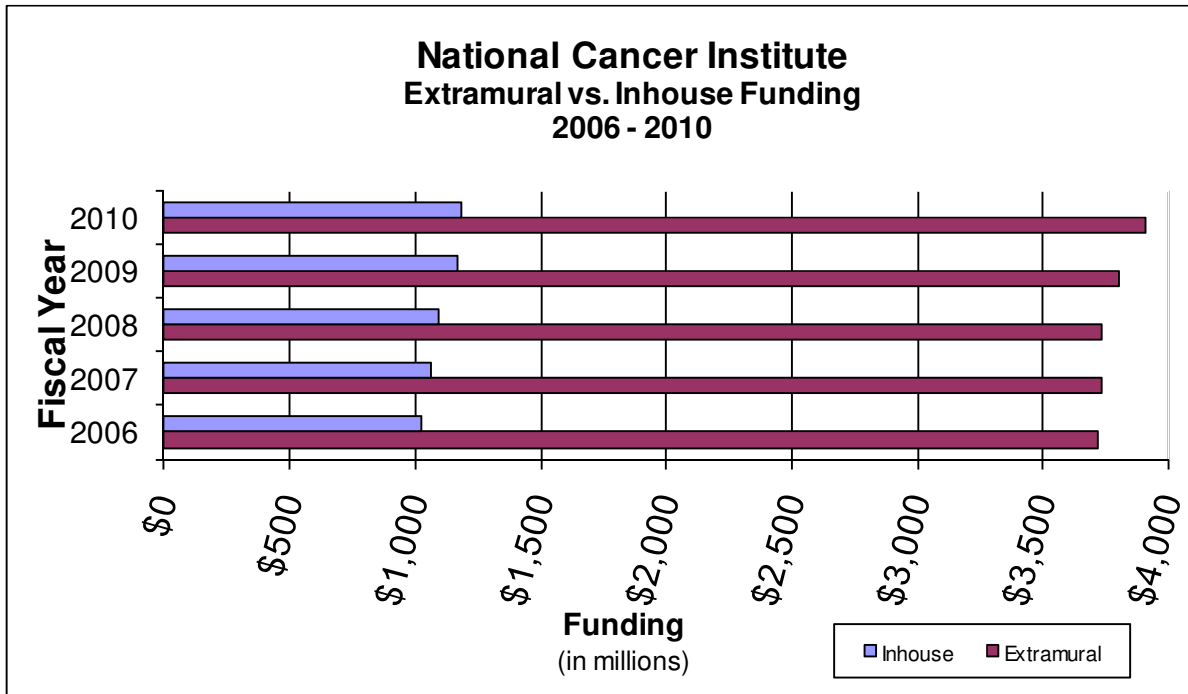


**National Cancer Institute
Extramural vs. Inhouse Funding**
(dollars in millions)

Mechanism	Extramural					06-10% chg.
	2006	2007	2008	2009	2010	
Research Project Grants	\$2,156.9	\$2,111.8	\$2,089.9	\$2,134.0	\$2,168.1	0.5%
Cancer Centers	265.0	273.2	274.5	285.6	295.9	10.4%
SPOREs	124.9	123.8	123.3	131.4	133.8	6.6%
Other P50s/P20s	-	-	-	28.1	38.8	100.0%
Other Specialized Centers	73.9	74.7	79.3	116.4	142.7	48.2%
Other Research Grants	327.1	322.9	317.8	417.3	442.6	26.1%
NRSA	66.6	68.2	69.9	70.1	67.6	1.4%
R&D Contracts	347.8	416.9	444.2	610.1	613.8	43.3%
Cancer Control Grants*	213.5	200.1	190.4	-	-	-100.0%
Cancer Control Contracts*	137.1	133.7	134.8	-	-	-100.0%
Construction	-	-	-	-	-	0.0%
Buildings & Facilities	7.9	7.9	7.9	7.9	7.9	0.0%
Total Extramural Funds	3,720.7	3,733.2	3,732.0	3,800.9	3,911.1	5.1%

Mechanism	Inhouse					06-10% chg.
	2006	2007	2008	2009	2010	
Intramural Research	\$687.3	\$706.2	\$718.4	\$781.4	\$805.3	17.2%
RMS	184.1	188.7	231.0	384.6	381.8	107.4%
Control Inhouse*	155.0	164.5	146.3	-	-	-100.0%
Total Inhouse Funds	1,026.5	1,059.4	1,095.7	1,166.0	1,187.1	15.6%
Total NCI	4,747.2	4,792.6	4,827.7	4,966.9	5,098.1	7.4%

*Cancer Prevention and Control Eliminated as a Budget Mechanism in FY09.



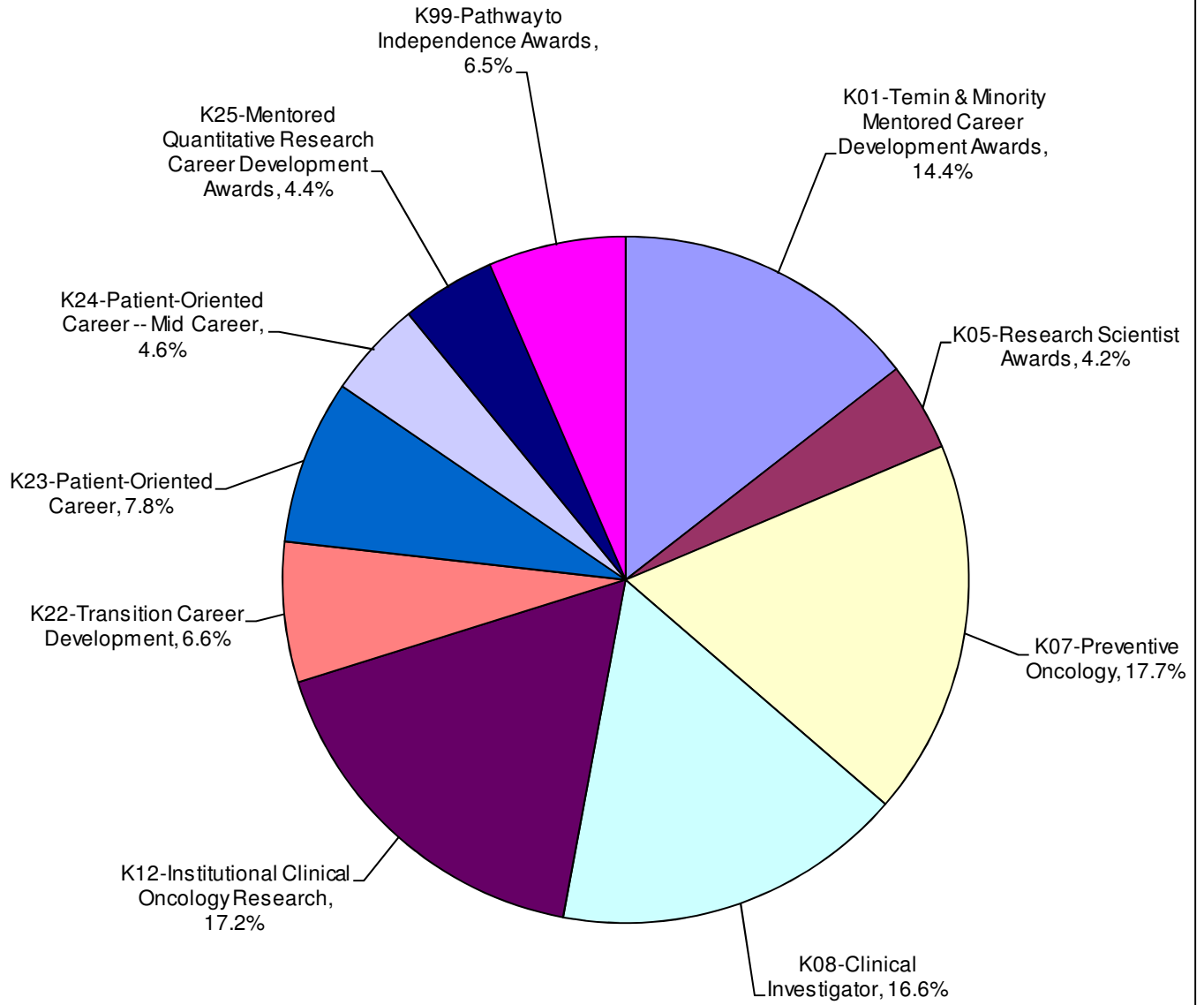
Research Career Awards – “K” Program

Summary Points

- The Research Career Award mechanism decreased by 5.3% in FY 2010.
- The number of Research Career Awards decreased by 47 between FY 2009 and FY 2010.
- NCI funded 41 awards for the NIH Pathway to Independence program.

		(Dollars in Thousands)			
		2009		2010	
		No.	Amount	No.	Amount
K01	Temin Awards	47	\$7,170	30	\$4,520
K01	Minority Mentored Career Development Award	49	6,576	47	6,303
	Subtotal, K01s	96	13,746	77	10,823
K05	Research Scientist Award	20	2,926	21	3,134
K07	Preventive Oncology	108	14,585	97	13,278
K08	Clinical Investigator	85	11,779	83	12,407
K12	Institutional Clinical Oncology Research	17	11,643	18	12,922
K22	Transition Career Development	43	6,763	30	4,963
K23	Patient-Oriented Career	44	6,179	40	5,812
K24	Patient-Oriented Career -- Mid Career	18	2,916	20	3,422
K25	Mentored Quantitative Research Career Development Award	22	3,087	25	3,311
K99	NIH Pathway to Independence Awards	46	5,496	41	4,842
	Total Research Career Program	499	79,120	452	74,914

National Cancer Institute
FY 2010
% of Total Research Award Funds



Research Dollars by Various Cancers

Summary Points

- Funding for various cancers listed below may overlap
- Funding for cancers listed below do not represent the entire NCI budget
- Based on NCI Coding Methodology.

Research Dollars by Various Cancers (Dollars in Millions)					
	2006	2007	2008	2009	2010
Total NCI	\$4,747.2	\$4,792.6	\$4,827.6	\$4,966.9	\$5,098.1
AIDS	253.7	253.7	258.5	265.9	272.1
Brain & Central Nervous System	130.3	148.2	153.7	151.5	156.8
Breast Cancer	584.7	572.4	586.8	599.4	631.2
Cervical Cancer	83.3	82.4	76.8	70.8	77.0
Clinical Trials	822.3	843.7	853.2	882.8	852.3
Colorectal Cancer	244.1	258.4	273.7	264.1	270.4
Head and Neck	71.3	66.2	76.1	77.1	62.7
Hodgkin's Disease	20.9	16.5	17.5	18.2	14.6
Leukemia	223.5	205.5	216.4	220.5	239.7
Liver Cancer	62.7	67.7	74.2	69.0	72.6
Lung Cancer	242.9	226.9	247.6	246.7	281.9
Melanoma	108.0	97.7	110.8	103.7	102.3
Multiple Myeloma	30.3	32.3	41.5	45.2	48.5
Non Hodgkin's Lymphoma	114.1	113.0	122.6	131.3	122.4
Ovarian Cancer	95.1	96.9	100.0	110.1	112.3
Pancreatic Cancer	74.2	73.3	87.3	89.6	97.1
Prostate Cancer	293.2	296.1	285.4	285.1	300.5
Stomach Cancer	11.5	12.0	12.4	15.4	14.5
Uterine Cancer	19.4	16.6	17.1	18.0	14.2

FY 2009 and 2010 NCI American Recovery and Reinvestment Act (Recovery Act)				
Spending by Mech				
<i>(dollars in thousands)</i>				
	2009		2010	
	No.	Amount	No.	Amount
Research Project Grants:				
Noncompeting	-	-	479	\$183,403
Admin Supplements	487	\$141,375	(12)	6,586
Competing	543	230,825	3	5,392
Subtotal, RPG	1030	372,200	482	195,381
SBIR/STTR	1	6,906	-	47
Total, RPG	1031	379,106	482	195,428
Cancer Centers	13	72,212	-	9,007
Specialized Cancer Centers (U54)	6	18,040	4	7,698
SPOREs	2	6,831	-	-
Total: Centers, Spec Ctrs, & SPOREs	21	97,083	4	16,705
Research Career Program	-	11,360	-	-67
Cancer Education	1	1,292	-	-
Clinical Cooperative Groups	-	19,821	-	4,598
Other Grants	1	11,201	-	9,998
Subtotal, Other	2	43,674	0	14,529
Total, Research Grants	1054	519,863	486	266,662
National Research Service Awards	10	1,109	-	-
R&D Contracts	-	318,458	78	175,284
Intramural Research	-	143	-	5,490
Research Management & Support	-	6,023	-	3,484
Total, NCI	1064	845,596	564	410,920
Total Recover Act Amount 1,256,516				

NCI received \$1.257 billion in American Recovery and Reinvestment Act (Recovery Act) funds to be awarded over a two year period -- FY 2009 and FY 2010. These Recovery Act funds are an investment in building a strong foundation for a 21st century economy, including sustaining and building the American workforce. The following programs of note are receiving Recovery Act funds through NCI:

- Accelerating Clinical Trials of Novel Oncologic PathWays (ACTNOW) – Funding 37 promising clinical trials of molecularly-targeted therapies to speed the delivery of personalized cancer treatments to patients.
- Cancer Centers Programs – 62 NCI designated Cancer Centers across the country received \$63 million in Recovery Act funding to supplement Cancer Center Support Grants.
- Personalized Cancer Care / Drug Development Platform – Enabling drug development that begins with the discovery of genetic changes and ends with targeted cancer therapies. Programs that support this vision include:
 - The Cancer Genome Atlas (TCGA) is developing a comprehensive catalog of genomic changes found in adult cancers;
 - Therapeutically Applicable Research to Generate Effective Treatments (TARGET) is mapping the genetic changes associated with childhood cancers;
 - The Cancer Human Biobank (caHUB) leads quality biospecimen collection and management
 - The NCI Community Cancer Centers Program (NCCCP) involves patients around the country who provide data and volunteer for clinical trials.
- Physical Sciences in Oncology Centers – Exploring perspectives from the physical sciences to enhance our understanding of cancer biology.

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