



2007 Fact Book

National Cancer Institute

2007 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 use by members of the Institute, principal advisory groups to the Institute and others involved in the administration and management of the National Cancer Program. Questions regarding any of the information contained herein may be directed to the Office of Budget and Finance, National Cancer Institute, 9000 Rockville Pike, Bethesda, Maryland, 20892.

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Fiscal Year 2007 Annual Report

BUDGET IN REVIEW

This report provides a summary of the distribution of the Fiscal Year 2007 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 2007 totaled over \$4.792 billion, reflecting an increase of 1% and \$45 million from the previous fiscal year.

Fiscal highlights from FY 2007 include:

- Of the total NCI budget, 44% of the funds were allocated for Research Project Grants.
- The total number of Research Project Grants (RPGs) funded was 5,472.
- Almost one-fourth of the RPGs awarded were new (Type 1) or competing renewal (Type 2) awards.
- 1,312 competing RPGs were funded.
- Approximately one-third of the total NCI budget supported ongoing non-competing (Type 5) RPGs.
- R01 grants were funded to the 15th percentile.
- 278 grants – totaling \$94 million – were funded as Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards.
- Intramural Research comprised 15% of the total NCI budget in FY 2007.
- \$498 million –10% of the total NCI budget – was allocated for Cancer Prevention & Control.

Distribution of the Budget by Funding Mechanism for FY 2006 and FY 2007

Summary Points

- The total budget for the Research Project Grant category decreased \$45 million, due to the decrease in non-competing Research Project Grants and administrative supplements.
- Funds for competing grants increased by \$20 million.
- Funds for training and career development of current and future research scientists through Research Career Awards decreased by 1.5%.
- The total budget for Cancer Centers, Specialized Centers (U54) and SPOREs increased by 1.7%.
- Funds for Cancer Centers increased \$8.2 million.
- Clinical Cooperative Groups funds increased 1.6%, while Cancer Education funds decreased by 9.3%.
- Funds for Cancer Prevention and Control fell by \$7.2 million.
- Intramural Research and Research Management and Support grew by 2.7% and 2.5%, respectively, in order to pay increased salary and operating costs.
- During FY 2007, NIH and DHHS Assessments increased by a total of \$165 thousand, including an increase of \$5 million for General Account, \$173 thousand decrease for Program Evaluation, and a \$1.2 million decrease for the Management Fund.

NCI Dollars by Mechanism for FY 2006 and 2007
(in thousands)

	2006	2007	Change '06-07	
			Am't	%
Research Project Grants:				
Noncompeting	\$1,596,655	\$1,546,958	-\$49,697	-3.1%
Admin Supplements	49,089	36,466	-12,623	-25.7%
Competing	415,067	434,713	19,646	4.7%
Subtotal, RPG	2,060,811	2,018,137	-42,674	-2.1%
SBIR/STTR	96,055	93,677	-2,378	-2.5%
Total, RPG	2,156,866	2,111,814	-45,052	-2.1%
Cancer Centers	265,002	273,184	8,182	3.1%
Specialized Cancer Centers (U54)	73,925	74,677	752	1.0%
SPOREs	124,933	123,808	-1,125	-0.9%
Total: Centers, Spec Ctrs, & SPOREs	463,860	471,669	7,809	1.7%
Research Career Program	80,836	79,595	-1,241	-1.5%
Cancer Education	34,561	31,337	-3,224	-9.3%
Clinical Cooperative Groups	145,919	148,193	2,274	1.6%
Other Grants	65,777	63,756	-2,021	-3.1%
Subtotal, Other	327,094	322,881	-4,213	-1.3%
Total, Research Grants	2,947,820	2,906,364	-41,456	-1.4%
National Research Service Awards	66,617	68,223	1,606	2.4%
R&D Contracts	347,766	416,850	69,084	19.9%
Intramural Research	687,342	706,179	18,837	2.7%
Research Management & Support	184,135	188,683	4,548	2.5%
Cancer Prevention & Control	505,625	498,396	-7,229	-1.4%
Construction	0	0	0	0.0%
Buildings and Facilities	7,920	7,920	0	0.0%
Total, NCI	4,747,225 *	4,792,615 *	45,390	1.0%
AIDS research included above	[\$253,666]	[\$253,666]	0	0.0%

* EXCLUDES projects awarded with Stamp Out Breast Cancer funds.

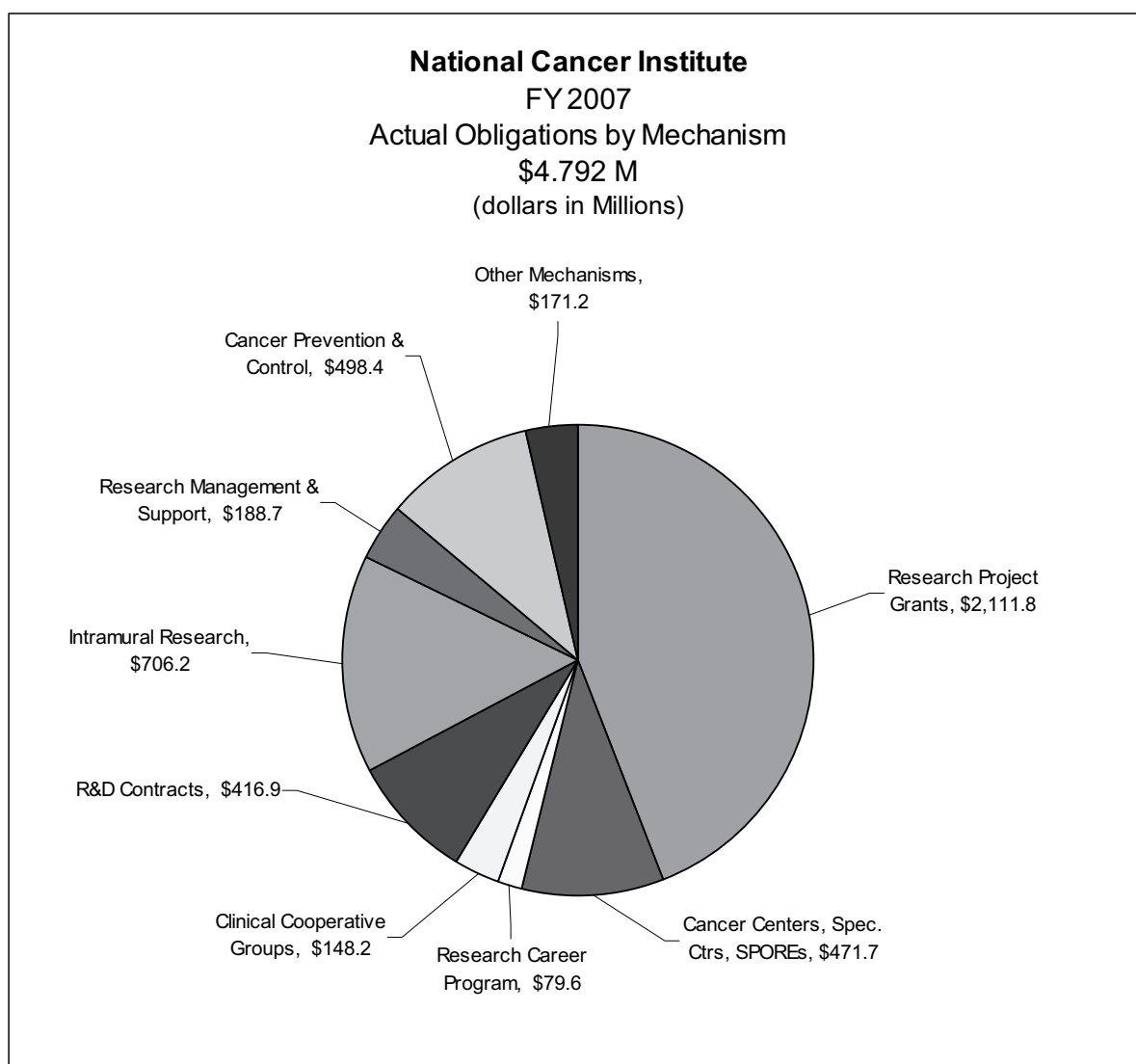
Percent Share of Total NCI Dollars

Summary Points

- The mechanism shares of the total budget have remained relatively stable from FY 2003 to FY 2007.
- Intramural Research remains under 15% of total NCI dollars.

Percent Share of Total NCI Dollars

	2003	2004	2005	2006	2007
Research Project Grants	44.8%	45.8%	45.6%	45.4%	44.1%
Cancer Centers	5.1%	5.2%	5.3%	5.6%	5.7%
Specialized Centers	0.4%	0.6%	1.4%	1.6%	1.6%
SPOREs	2.7%	2.9%	2.8%	2.6%	2.6%
Clinical Cooperative Groups	3.5%	3.3%	3.0%	3.1%	3.1%
Intramural Research	15.1%	15.0%	14.8%	14.5%	14.7%
R&D Contracts	8.1%	7.7%	7.3%	7.3%	8.7%
Cancer Prevention & Control	11.6%	11.2%	11.1%	10.7%	10.4%
Other Mechanisms	8.6%	8.3%	8.7%	9.3%	9.2%



Funding Trends

Summary Points

- The NCI budget has increased by \$200.3 million – or 4.4% – since FY 2003. Cancer Centers, Specialized Centers, and R&D Contracts have experienced percentage increases greater than the total NCI growth since FY 2003.

Historical Funding Trends (Dollars in Millions)

	2003	2004	2005	2006	2007
Total NCI	\$4,592.3	\$4,723.9	\$4,794.8	\$4,747.2	\$4,792.6
Research Project Grants	2,058.7	2,161.4	2,188.9	2,156.9	2,111.8
Intramural Research	693.1	708.9	711.0	687.3	706.2
Cancer Centers	235.8	245.7	255.3	265.0	273.2
Specialized Centers	19.2	14.2	66.0	73.9	74.7
SPOREs	123.1	149.4	133.0	124.9	123.8
Clinical Cooperative Groups	158.7	154.3	142.8	145.9	148.2
Cancer Prevention & Control	533.2	530.0	531.6	505.6	498.4
R&D Contracts	370.8	361.6	351.1	347.8	416.9
Other Mechanisms	399.7	398.4	415.1	439.8	439.4

% Growth by Mechanism

	2003 to 2004	2004 to 2005	2005 to 2006	2006 to 2007	2003 to 2007
Total NCI	2.9%	1.5%	-1.0%	1.0%	4.4%
Research Project Grants	5.0%	1.4%	-1.5%	-2.1%	2.6%
Intramural Research	2.3%	0.3%	-3.3%	2.7%	1.9%
Cancer Centers	4.2%	3.9%	3.8%	3.1%	15.9%
Specialized Centers	-26.0%	365.0%	12.0%	1.0%	288.9%
SPOREs	9.5%	-1.4%	-6.1%	-0.9%	0.6%
Clinical Cooperative Groups	-2.7%	-7.5%	2.2%	1.6%	-6.6%
Cancer Prevention & Control	-0.6%	0.3%	-4.9%	-1.4%	-6.5%
R&D Contracts	-2.5%	-2.9%	-0.9%	19.9%	12.4%
Other Mechanisms	-0.4%	2.2%	6.0%	-0.1%	9.9%

Research Project Grants

Summary Points

- 83% of competing dollars supported grants awarded within the established payline; 17% supported grants as an exception to the payline.
- RFA funds, which decreased from the FY 2005 dollar level, accounted for 4% of FY 2007 competing dollars.
- Research Project Grant applications submitted to NCI increased by approximately 0.6%.
- A total of 1,312 competing RPG's were funded.

Research Project Grants

(Dollars in Thousands)

	2006*		2007*	
	No.	Amount	No.	Amount
Total funding for RPGs	5,435	\$2,156,866	5,472	\$2,111,814
SBIR/STTR	263	\$96,055	278	\$93,677
Funding for RPGs without SBIR/STTR Program	5,172	\$2,060,811	5,194	\$2,018,137
Continuation or noncompeting grants funded	3,892	\$1,645,744	3,882	\$1,488,237
Competing grants funded	1,280	\$415,067	1,312	\$434,713
Administrative Supplements	290	\$49,089	259	\$36,466
Partial assessment for DHHS Program Evaluation		\$58,721		\$58,721
Funds set aside within competing dollars for:				
Grants within Paylines:	1,134	\$364,475	1,112	\$359,411
Traditional R01	691	\$219,040	621	\$210,161
Program Projects (P01)	31	\$60,781	30	\$66,060
RFA Grants	66	\$26,873	55	\$18,463
Share of competing grant funds		6.47%		4.25%
Exception Grants	146	\$50,592	200	\$75,302
Share of competing grant funds		12.19%		17.32%
Competing Application Requests	6,566	\$2,156,868	6,567	\$2,434,949
Funding Success Rate	19.4%		20.2%	
Percentile funding for R01 grants	12th		15th	
Average Cost-Competing		\$321		\$331
Average Reduction from recommended/requested levels		-28%		-22%

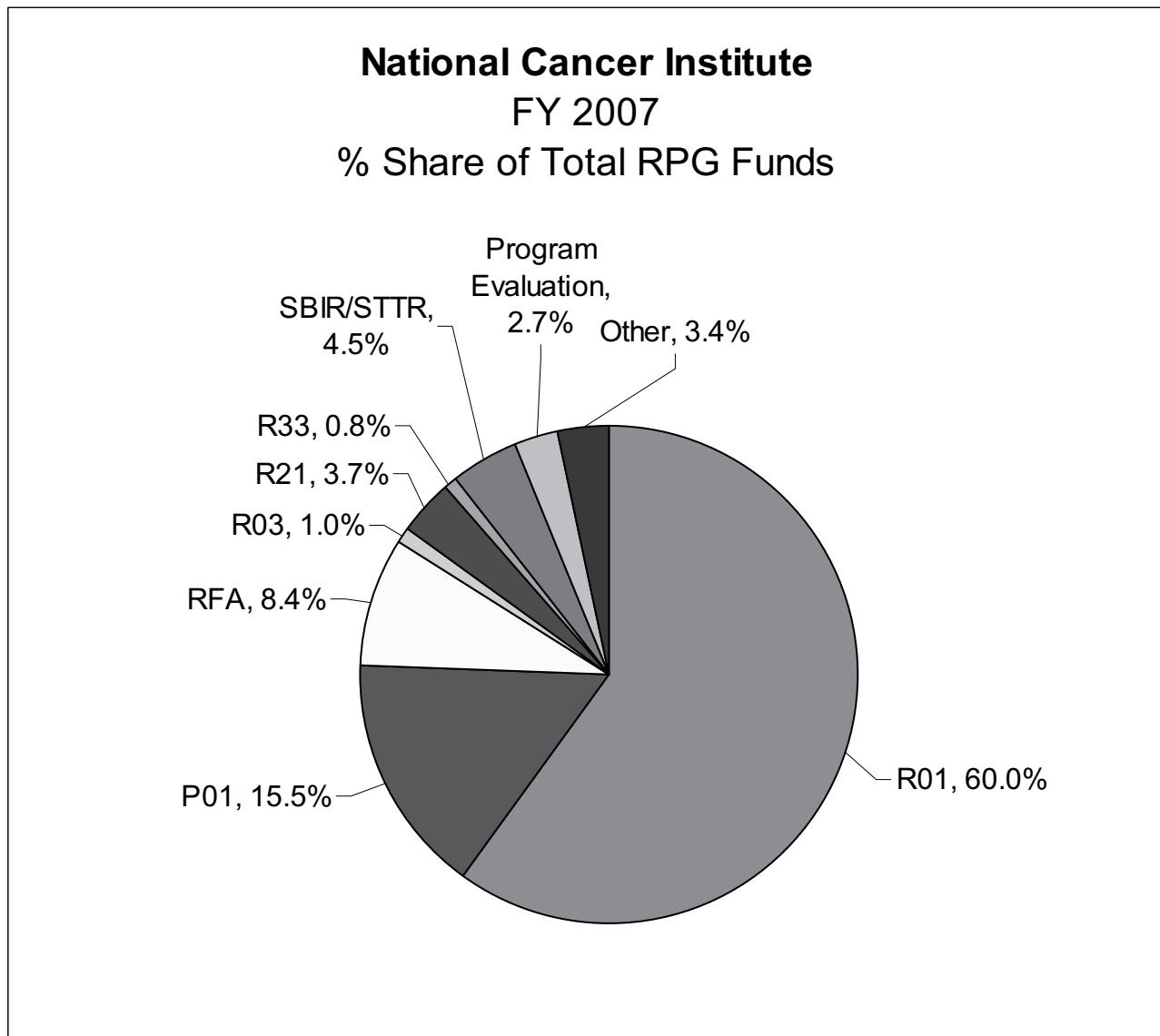
*EXCLUDES projects awarded with Stamp Out Breast Cancer funds.

Grant Funding Paylines

RPG Mechanisms:	2006	2007	
R01 Traditional Grants	12th	15th	percentile
P01 Program Projects	N/A*	N/A*	priority score
R03 Small Grants	210	210	priority score
R21 Exploratory Phase I**	14th	17th	percentile
R33 Exploratory Phase II	155	155	priority score
R41/R42 STTR	165	205	priority score
R43/R44 SBIR	180	205	priority score

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

**Payline in priority score format for 2005.



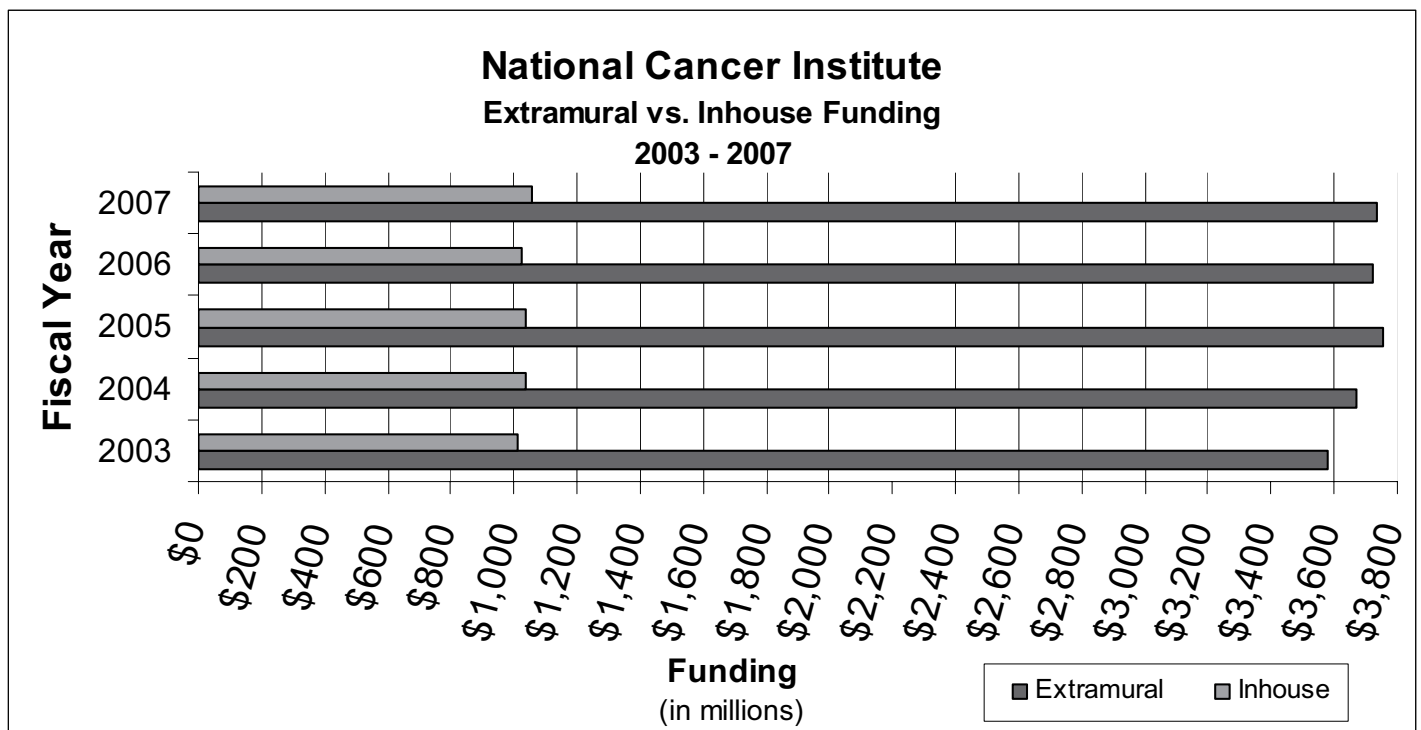
**National Cancer Institute
Extramural vs. Inhouse Funding**

(dollars in millions)

Mechanism	Extramural					03-07% chg.
	2003	2004	2005	2006	2007	
Research Project Grants	\$2,058.7	\$2,161.4	\$2,188.9	\$2,156.9	\$2,111.8	2.6%
Cancer Centers	235.8	245.7	255.3	265.0	273.2	15.9%
Specialized Centers	19.2	14.1	66.0	73.9	74.7	288.9%
SPOREs	123.1	134.8	133.0	124.9	123.8	0.6%
Other Research Grants	320.3	314.9	309.0	327.1	322.9	0.8%
NRSA	65.9	66.2	67.3	66.6	68.2	3.5%
R&D Contracts	370.8	361.6	351.1	347.8	416.9	12.4%
Cancer Control Grants	221.6	220.0	232.0	213.5	200.1	-9.7%
Cancer Control Contracts	160.0	153.0	145.8	137.1	133.7	-16.4%
Construction	5.0	0	0	0	0	-100.0%
Buildings & Facilities	0	0	7.9	7.9	7.9	100.0%
Total Extramural Funds	3,580.3	3,671.7	3,756.3	3,720.7	3,733.2	4.3%

Mechanism	Inhouse					03-07% chg.
	2003	2004	2005	2006	2007	
Intramural Research	\$693.1	\$708.9	\$711.0	\$687.3	\$706.2	1.9%
RMS	167.3	171.6	173.7	184.1	188.7	12.8%
Control Inhouse	151.5	157.0	154.0	155.0	164.5	8.6%
Total Inhouse Funds	1,011.9	1,037.5	1,038.7	1,026.5	1,059.4	4.7%

Total NCI	4,592.2	4,709.2	4,795.0	4,747.2	4,792.6	4.4%
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Research Career Awards – “K” Program

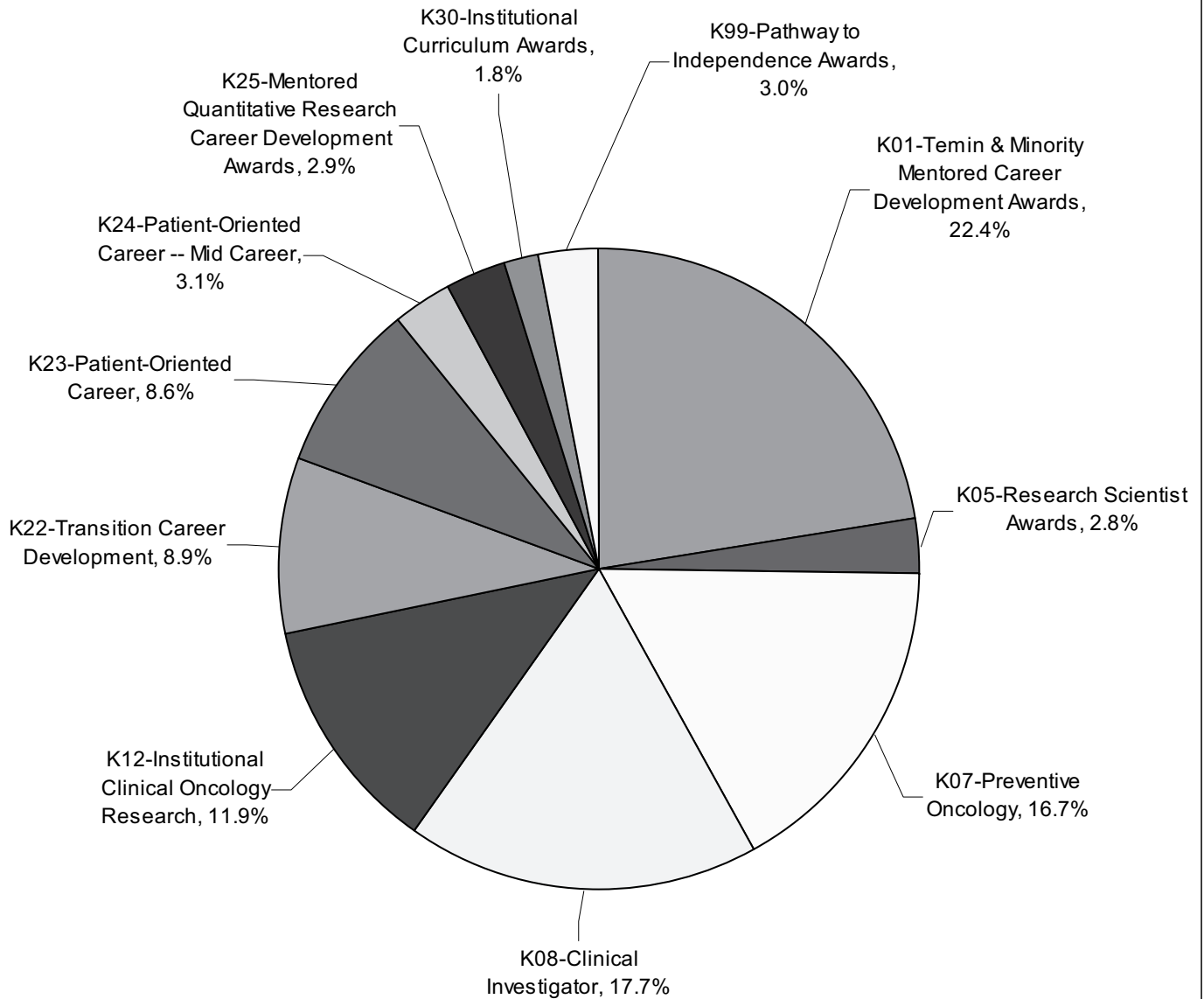
Summary Points

- The Research Career Award mechanism decreased by 1.5% in FY 2007.
- The number of Research Career Awards decreased by 25 in FY 2007 from FY 2006.
- NCI’s funding in FY 2007 for the K30 Institutional Curriculum Awards, which are administered by the National Center for Research Resources, was \$1.5 million.
- NCI funded 20 awards for the new NIH Pathway to Independence program.

(Dollars in Thousands)

		2006		2007	
		No.	Amount	No.	Amount
K01	Temin Awards	88	12,493	76	11,015
K01	Minority Mentored Career Development Award	48	6,332	50	6,816
Subtotal, K01s		136	18,825	126	17,831
K05	Research Scientist Award	17	2,173	17	2,266
K07	Preventive Oncology	117	14,657	99	13,269
K08	Clinical Investigator	136	16,851	112	14,119
K12	Institutional Clinical Oncology Research	16	9,438	16	9,472
K22	Transition Career Development	38	5,818	46	7,114
K23	Patient-Oriented Career	60	7,617	51	6,845
K24	Patient-Oriented Career -- Mid Career	17	2,557	16	2,491
K25	Mentored Quantitative Research Career Development Award	11	1,506	17	2,343
		548	79,442	500	75,750
K30	Institutional Curriculum Awards -- Administered by NCRR	2	1,394	5	1,462
K99	NIH Pathway to Independence Awards			20	2,383
Total Research Career Program		550	80,836	525	79,595

National Cancer Institute
FY 2007
% 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

Research Dollars by Various Cancers
(Dollars in Millions)

	2003	2004	2005	2006	2007
Total NCI	\$4,592.3	\$4,723.9	\$4,794.7	\$4,747.2	\$4,792.6
AIDS	263.4	267.0	265.9	253.7	253.7
Brain & Central Nervous System	111.5	132.3	124.9	130.3	148.2
Breast Cancer	548.7	566.2	560.1	584.7	572.4
Cervical Cancer	79.0	79.0	81.7	83.3	82.4
Clinical Trials	799.5	800.0	781.8	822.3	843.7
Colorectal Cancer	261.6	262.0	253.1	244.1	258.4
Head and Neck	77.7	88.2	89.5	71.3	66.2
Hodgkin's Disease	16.5	17.4	17.2	20.9	16.5
Leukemia	200.9	214.7	220.6	223.5	205.5
Liver Cancer	63.7	63.0	60.5	62.7	67.7
Lung Cancer	273.5	276.5	266.1	242.9	226.9
Melanoma	90.7	94.9	102.9	108.0	97.7
Multiple Myeloma	26.3	23.9	28.2	30.3	32.3
Non Hodgkin's Lymphoma	95.2	99.6	107.0	114.1	113.0
Ovarian Cancer	99.4	99.5	97.7	95.1	96.9
Pancreatic Cancer	42.3	52.7	66.7	74.2	73.3
Prostate Cancer	305.2	308.5	309.0	293.2	296.1
Stomach Cancer	13.4	11.6	11.0	11.5	12.0
Uterine Cancer	25.5	27.0	31.1	19.4	16.6

National Cancer Institute

Director's Biography

John E. Niederhuber, M.D.

John E. Niederhuber, M.D. became Director of the National Cancer Institute (NCI) in September 2006. Throughout his distinguished career, he has had ties to both NCI and the National Institutes of Health. In addition to his work as a surgeon, professor, researcher, department chair, senior associate dean, and cancer center director, Dr. Niederhuber has also been the chair of the National Cancer Advisory Board, an external NCI advisor and grant reviewer, and a laboratory investigator supported by NCI and the NIH. He joined NCI in September 2005 as Deputy Director for Translational and Clinical Sciences, and became NCI's Acting Director in June 2006.

In addition to his leadership of the NCI, Dr. Niederhuber heads the Laboratory of Tumor and Stem Cell Biology in NCI's Center for Cancer Research, and also holds a clinical appointment on the NIH Clinical Center Medical staff. His lab is studying tissue stem cells as the cell-of-origin for cancer, as well as the complex relationship between tumor cells and their microenvironment.

As a surgeon, Dr. Niederhuber's clinical emphasis is on gastrointestinal cancer, hepatobiliary (liver, bile duct, and gallbladder) cancer, and breast cancer. Recognized for his pioneering work in hepatic artery infusion chemotherapy, he was also the first to demonstrate the feasibility of totally implantable vascular access devices.

Prior to coming to NCI, Dr. Niederhuber spent his years as Director of the University of Wisconsin Comprehensive Cancer Center, and a professor of surgery and oncology at the University of Wisconsin School of Medicine. Earlier in his career, he chaired the Department of Surgery at Stanford University, and held professorships at the Johns Hopkins University School of Medicine and at the University of Michigan.

A native of Steubenville, Ohio, Dr. Niederhuber is a graduate of Bethany College in West Virginia and the Ohio State University School of Medicine.

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