

# *FY16 NIH Market Analysis*

February 20, 2017

# Summary

## Overview:

- The NIH is the largest sponsor of Medical Research with a budget of approximately \$31.4B for FY16, the latest actual year reported.
  - From a PHS perspective, DHHS sponsored research, which is comprised primarily by the NIH, represented \$732M or 48% of sponsored research activity in FY16, as measured on an immediate sponsor basis.
- Within PHS, the DHHS (immediate) sponsored research revenues have increased by 30% between FY07 and FY16, while the proportion of total DHHS sponsored research activity has decreased from 58% to 48%.
  - The driver behind lower DHHS sponsor mix is the growth in other sponsored research which is being fueled by increased Industry, Foundation, Non-Profit (excluding DHHS subcontracts), and Internal sponsors.
- DHHS research activity within PHS, including DHHS originating subcontracts, has increased by 92% over the same FY07 to FY16 period, and the proportion of total research activity has also increased from 8% to 9%.
- Maximizing DHHS sponsored research is critical to the overall financial wellbeing of PHS. Not only does DHHS account for 48% of total research revenues, it generates almost 60% of total IDC. That dependency increases to 73% of total FY16 IDC revenues when including DHHS subcontracts.

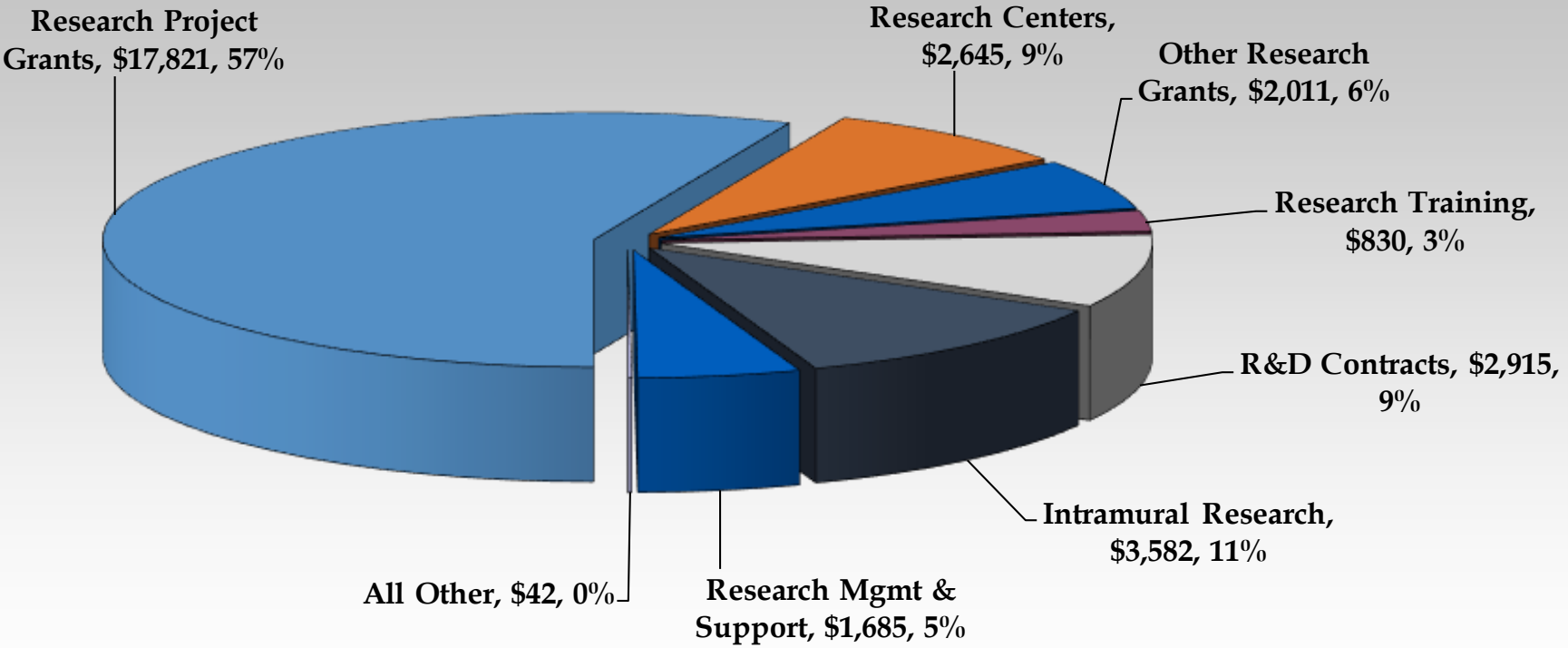
## NIH Trends and Challenges:

- Approximately two-thirds of the NIH \$31B budget is earmarked for extramural funding. The FY07 extramural funding level of \$23.5B increased to ~\$26B in FY16, indicating a stagnant growth rate in available funding to the research community.
- Over the same FY07 to FY16 period, the number of NIH awards have decreased, applications have increased, with the resulting success rates down around 18% in FY16, but has been as low as 17% in recent years. The comparable PHS success rate is 22% to 24%.
- PHS continues to receive the bulk of its awards from The NCI, NHLBI, NIA, NIAID, NIDDK, NIMH and NINDS.

# FY2016 Total NIH Budget: \$31.4 Billion



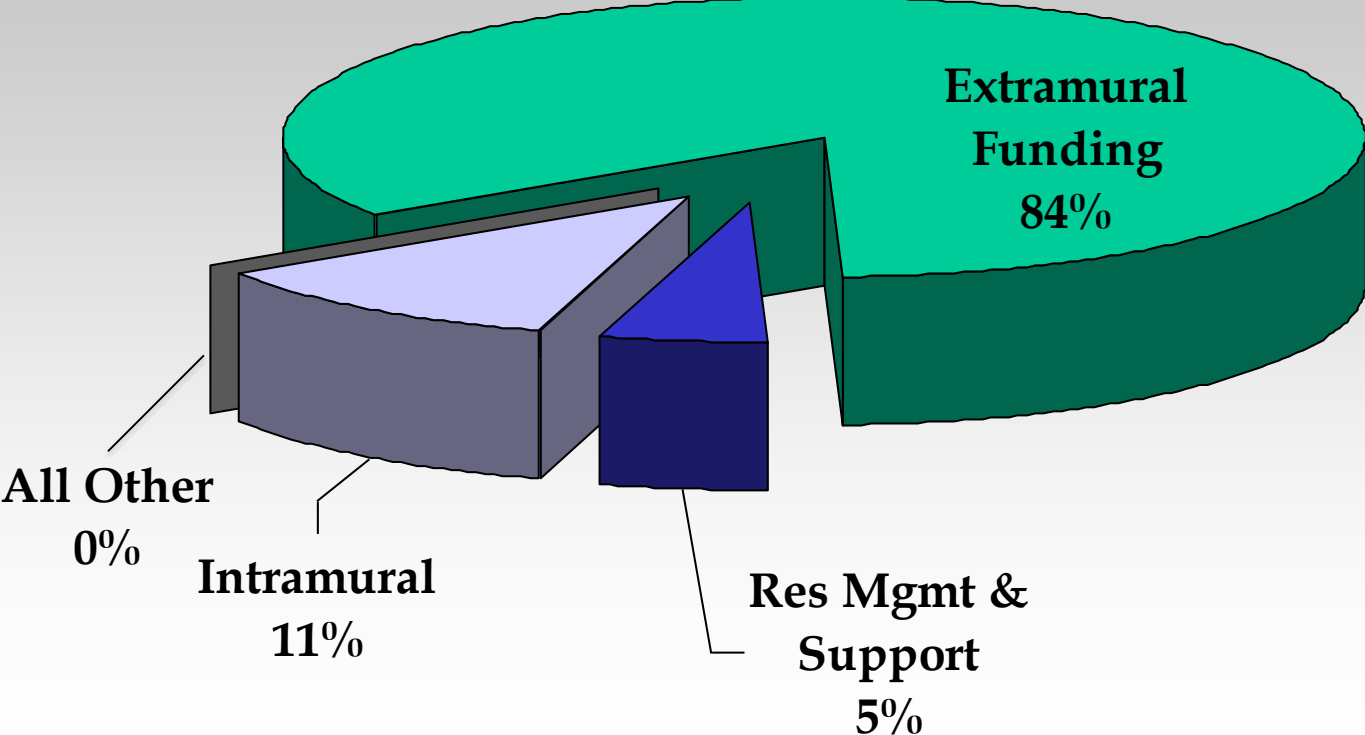
FY2016 NIH Enacted Budget (\$millions)



Source: NIH FY2016 Data Book

# NIH FY16 Extramural Funding: \$26.1B

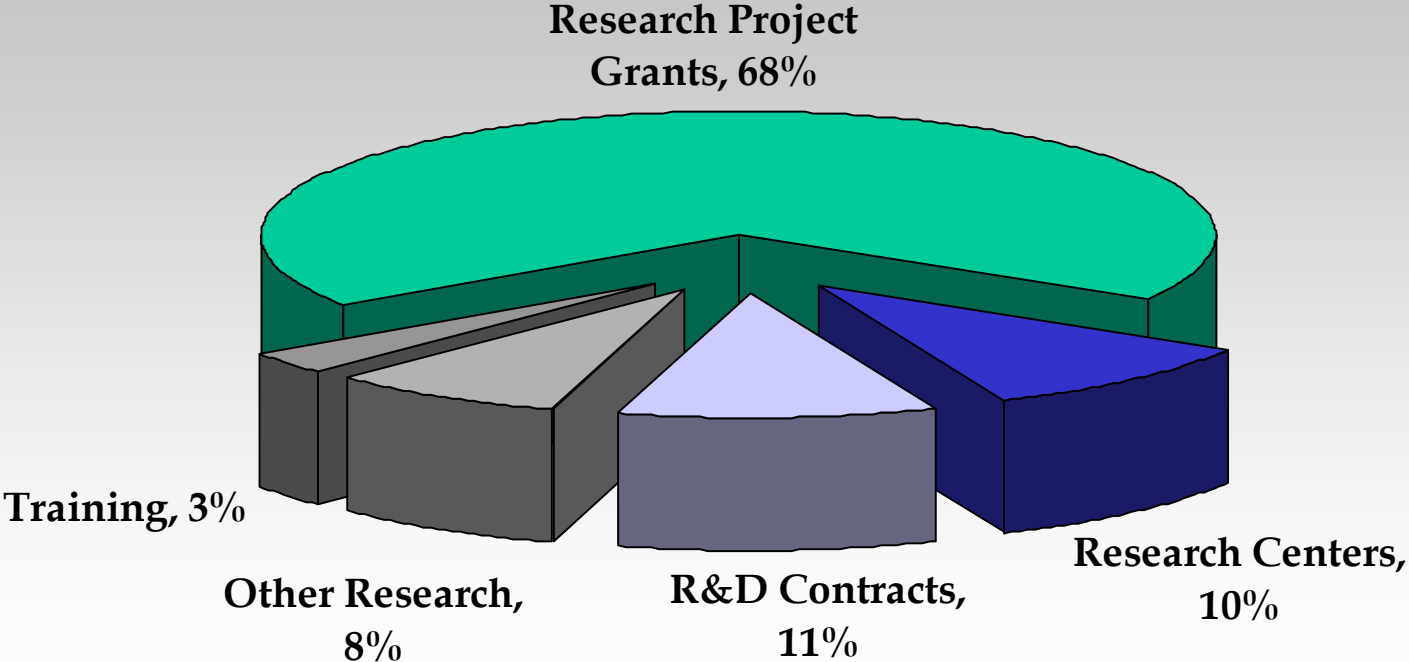
**Extramural Funding = 84% of Total Budget**



Source: NIH FY2016 Data Book

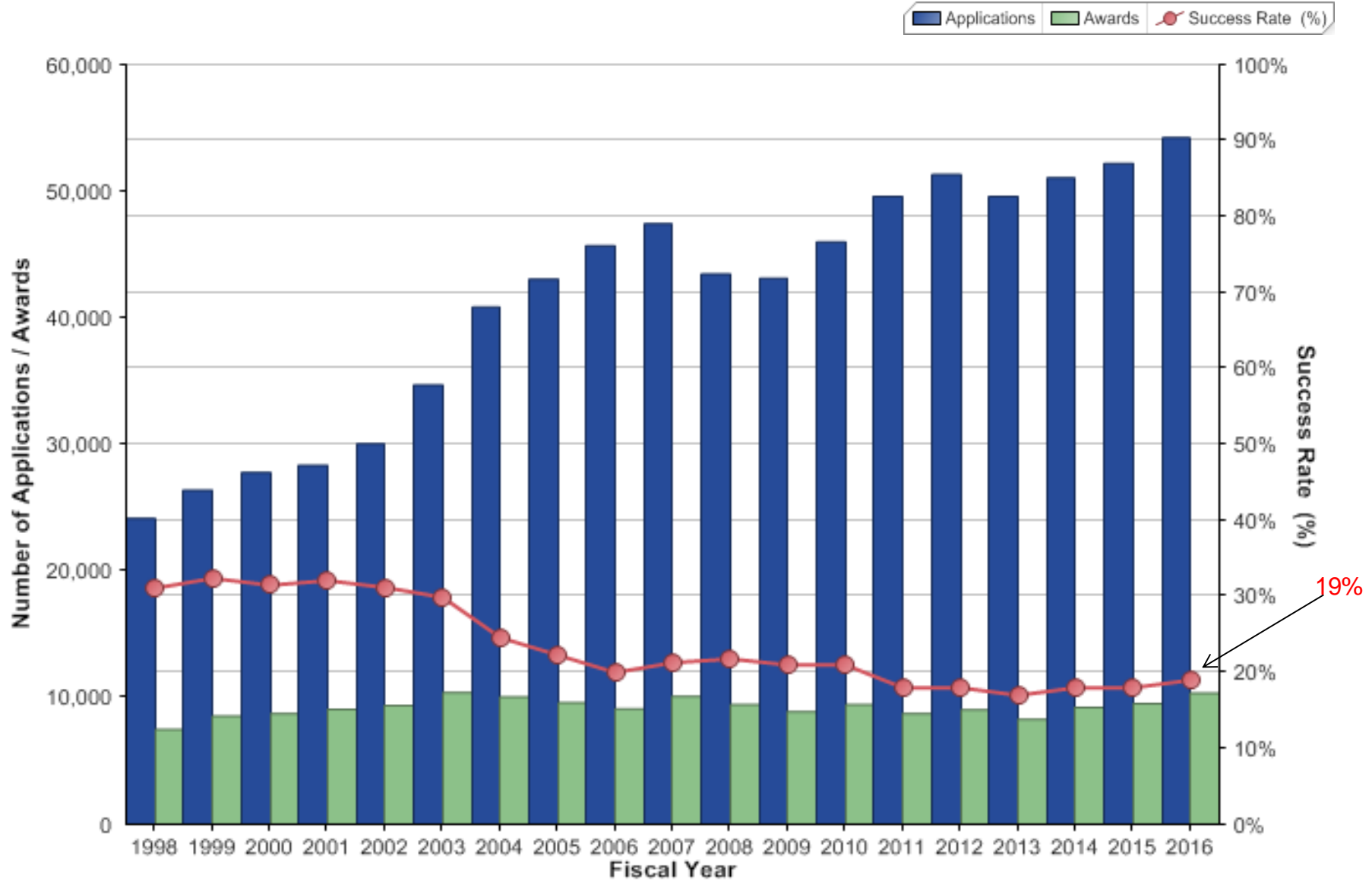
# NIH FY16 Extramural Funding-continued

### Breakdown of Extramural Funding in the FY16 Enacted Budget



Source: NIH FY2016 Data Book

# NIH Research Project Grants Competing Applications, Awards, and Success Rates 1998-2016



# NIH Research Project Grants Success Rates 2008-2016

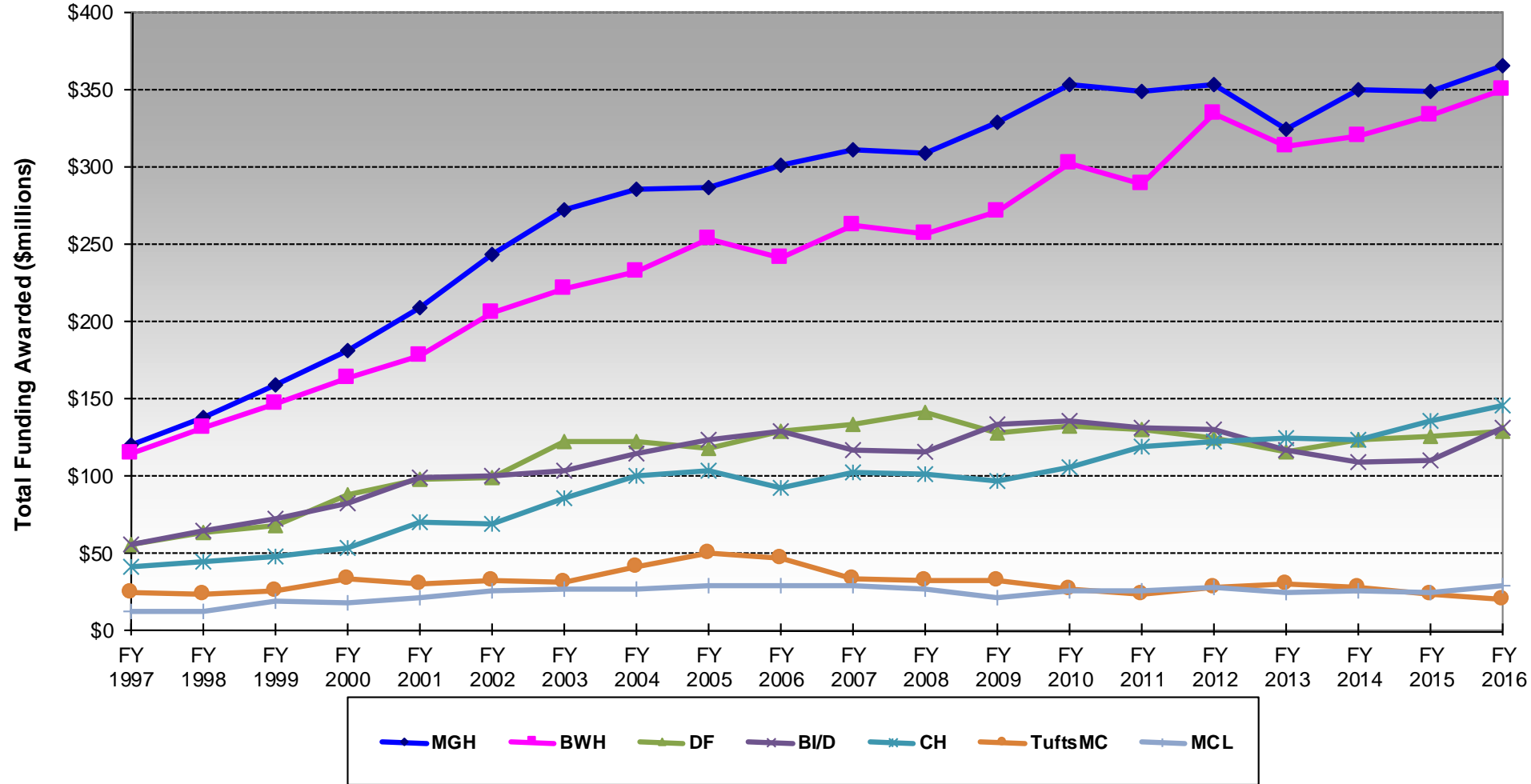


## RESEARCH PROJECT GRANTS: SUCCESS RATES

<b>INSTITUTES &amp; CENTERS<sup>*,1,2</sup></b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Enacted</b>	<b>FY 2017 Request</b>
NCI	21.0%	19.0%	17.1%	13.8%	13.6%	13.7%	14.1%	13.0%	12.4%	17.0%
NHLBI	22.0%	22.0%	19.9%	17.4%	14.7%	16.9%	18.2%	21.9%	22.2%	24.3%
NIDCR	20.0%	19.0%	22.2%	22.5%	21.2%	19.9%	21.5%	22.0%	19.1%	17.4%
NIDDK	25.0%	23.0%	25.9%	20.7%	19.8%	21.0%	22.9%	20.3%	18.5%	17.3%
NINDS	21.0%	21.0%	22.6%	21.1%	19.5%	19.8%	18.7%	20.5%	17.0%	15.0%
NIAID	23.0%	19.0%	23.9%	20.2%	23.2%	18.8%	22.0%	21.5%	24.9%	18.5%
NIGMS	27.0%	27.0%	26.9%	23.1%	24.4%	19.9%	24.8%	29.6%	31.2%	24.6%
NICHD	17.0%	15.0%	15.2%	12.4%	12.5%	10.8%	12.5%	11.5%	13.7%	12.1%
NEI	30.0%	30.0%	26.9%	28.8%	29.8%	23.7%	26.7%	21.4%	23.3%	20.3%
NIEHS	18.0%	18.0%	25.1%	14.7%	14.3%	15.3%	15.0%	14.7%	17.8%	16.8%
NIA	20.0%	18.0%	14.5%	16.1%	15.5%	13.6%	15.9%	17.7%	29.8%	18.3%
NIAMS	21.0%	20.0%	21.4%	14.9%	15.6%	15.9%	18.1%	16.7%	18.7%	17.5%
NIDCD	29.0%	32.0%	30.2%	27.5%	26.6%	22.5%	25.8%	24.9%	26.3%	20.5%
NIMH	21.0%	22.0%	22.1%	17.1%	21.6%	18.7%	19.4%	20.4%	20.1%	19.1%
NIDA	24.0%	22.0%	19.8%	18.2%	21.2%	19.5%	18.0%	19.6%	15.0%	15.0%
NIAAA	26.0%	24.0%	26.5%	18.6%	18.4%	19.5%	19.2%	16.4%	16.7%	17.5%
NINR	20.0%	21.0%	13.2%	8.5%	13.0%	9.1%	11.6%	8.0%	8.5%	7.2%
NHGRI	32.0%	34.0%	33.6%	27.4%	23.9%	20.5%	17.7%	18.8%	19.2%	13.3%
NIBIB	19.0%	18.0%	16.0%	12.9%	12.1%	13.7%	13.1%	12.0%	15.8%	11.0%
NIMHD <sup>3</sup>	N/A	11.0%	8.0%	11.9%	9.9%	4.3%	11.9%	13.7%	11.8%	11.8%
NCCIH <sup>4</sup>	12.0%	12.0%	11.0%	9.1%	9.5%	11.6%	8.7%	10.8%	15.4%	12.2%
NCATS <sup>5</sup>	N/A	N/A	N/A	N/A	0.0%	0.0%	16.7%	66.7%	29.5%	14.1%
FIC	28.0%	21.0%	26.1%	11.9%	16.0%	14.6%	9.1%	9.7%	15.8%	10.7%
NLM <sup>6</sup>	21.0%	12.0%	21.1%	16.1%	12.8%	12.3%	19.4%	19.8%	17.9%	17.1%
ORIP & SEPA <sup>7,8</sup>	15.0%	22.0%	22.0%	21.3%	18.6%	20.0%	19.6%	21.5%	23.8%	20.7%
Common Fund	12.0%	17.0%	11.1%	11.3%	8.0%	9.2%	10.0%	12.1%	11.7%	12.2%
<b>NIH<sup>9</sup></b>	<b>21.3%</b>	<b>21.0%</b>	<b>21.0%</b>	<b>20.5%</b>	<b>17.5%</b>	<b>16.7%</b>	<b>18.0%</b>	<b>18.3%</b>	<b>19.2%</b>	<b>17.5%</b>

# NIH Budget History

## FY 1997 - FY 2016\* Local Hospitals NIH Extramural Funding



\*Includes Research Management and Support, Cancer Control funds, construction, and building and facilities.

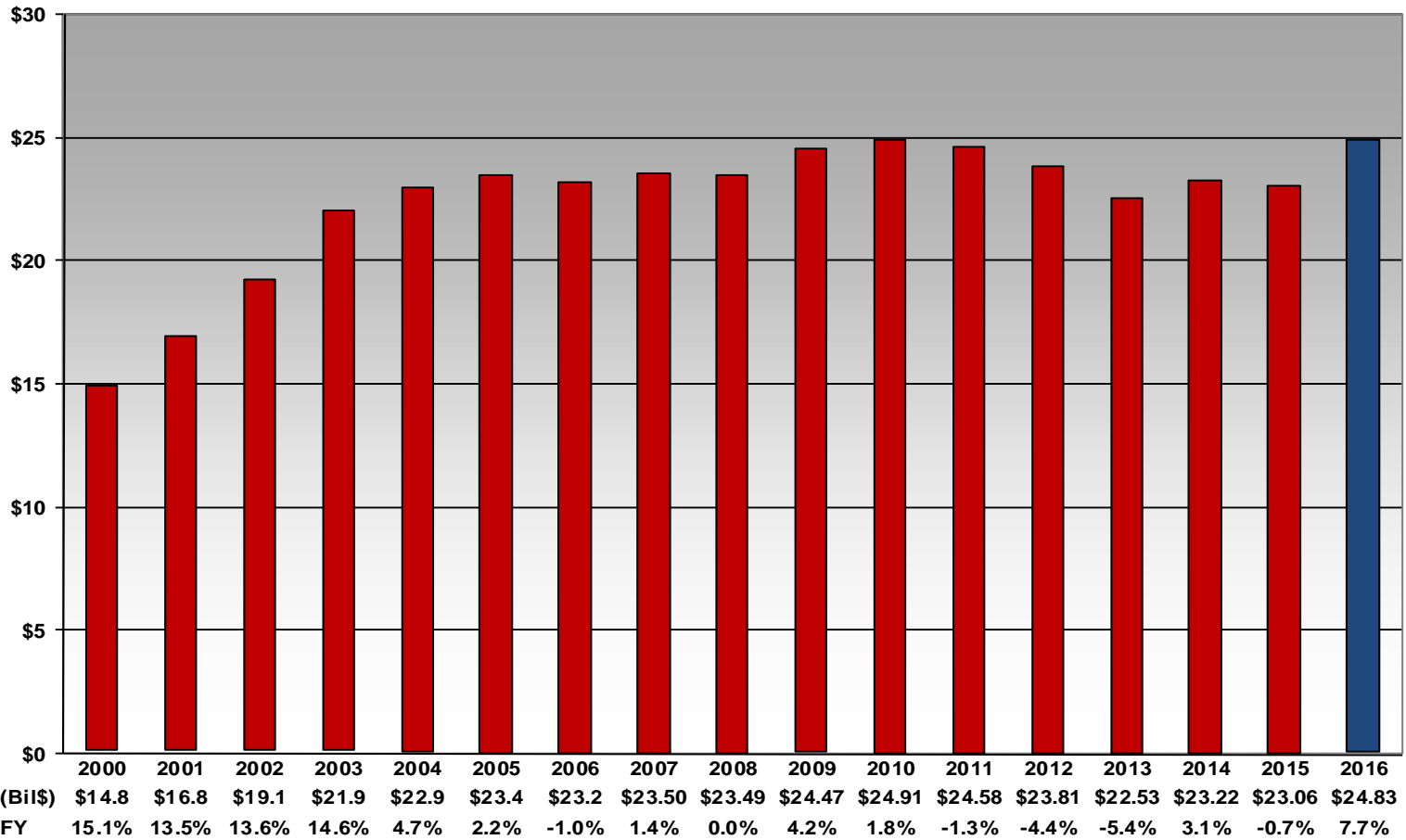
Source: NIH Office of Budget



# NIH Extramural Awards



NIH Extramural Funding (in \$Billions)  
Fiscal Years 2000 - 2016\*



Note: FY16 data is now Final. Data excludes awards made with American Recovery and Reinvestment Act (ARRA) funds.

# Breakdown of NIH Funding by Institute

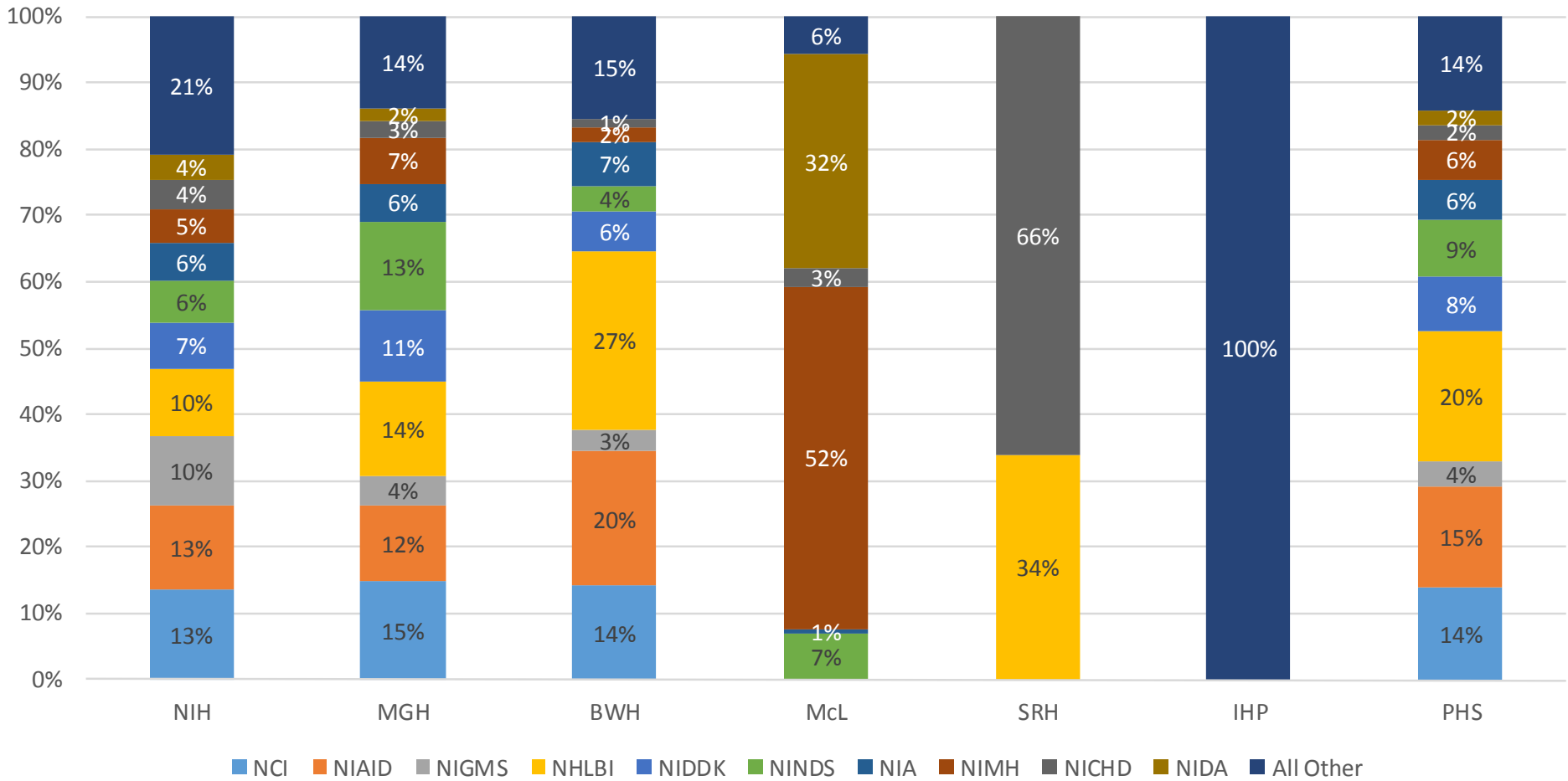


Institute/Ce nter	Total Funding	2016 FUNDING MECHANISM									
		Research Grants <sup>1</sup>		Fellowships <sup>2</sup>		Training Grants <sup>3</sup>		Construction <sup>4</sup>		Other Awards <sup>5</sup>	
		Number of Awards <sup>6</sup>	Total Funding <sup>7</sup>	Number of Awards <sup>6</sup>	Total Funding <sup>7</sup>	Number of Awards <sup>6</sup>	Total Funding <sup>7</sup>	Number of Awards <sup>6</sup>	Total Funding <sup>7</sup>	Number of Awards <sup>6</sup>	Total Funding <sup>7</sup>
FIC	\$68,595,980	132	\$32,038,753	0	\$0	0	\$0	0	\$0	129	\$36,557,227
NCATS	\$570,085,566	215	\$542,296,312	0	\$0	47	\$22,680,718	0	\$0	5	\$5,108,536
NCCIH	\$111,141,228	218	\$107,447,348	10	\$479,528	8	\$3,214,352	0	\$0	0	\$0
NCI	\$3,144,136,903	5,714	\$3,072,897,028	545	\$22,417,392	144	\$48,822,483	0	\$0	0	\$0
NEI	\$572,201,786	1,339	\$560,993,898	89	\$4,264,628	40	\$6,943,260	0	\$0	0	\$0
NHGRI	\$432,596,611	384	\$425,151,618	9	\$399,558	15	\$7,045,435	0	\$0	0	\$0
NHLBI	\$2,433,673,676	4,341	\$2,331,574,562	352	\$15,704,236	219	\$86,394,878	0	\$0	0	\$0
NIA	\$1,348,821,681	2,042	\$1,324,501,294	125	\$5,570,619	66	\$18,749,768	0	\$0	0	\$0
NIAAA	\$343,638,616	835	\$331,097,554	111	\$4,626,522	24	\$7,914,540	0	\$0	0	\$0
NIAID	\$3,038,647,188	4,883	\$2,983,260,567	239	\$10,709,387	183	\$44,677,234	0	\$0	0	\$0
NIAMS	\$449,701,912	1,191	\$434,251,376	67	\$3,140,404	50	\$12,310,132	0	\$0	0	\$0
NIBIB	\$339,364,908	796	\$327,705,539	25	\$1,098,353	46	\$10,561,016	0	\$0	0	\$0
NICHD	\$1,052,165,137	2,100	\$1,021,132,045	113	\$5,286,044	96	\$23,922,860	0	\$0	22	\$1,824,188
NIDA	\$852,294,795	1,707	\$828,534,997	123	\$5,013,885	50	\$18,745,913	0	\$0	0	\$0
NIDCD	\$344,517,595	890	\$331,638,780	129	\$5,674,915	34	\$7,203,900	0	\$0	0	\$0
NIDCR	\$303,100,106	674	\$292,486,346	87	\$3,828,324	17	\$6,785,436	0	\$0	0	\$0
NIDDK	\$1,638,694,443	3,343	\$1,580,485,601	301	\$14,145,905	185	\$44,062,937	0	\$0	0	\$0
NIEHS	\$427,397,927	870	\$407,288,463	35	\$1,568,527	43	\$18,303,913	0	\$0	1	\$237,024
NIGMS	\$2,440,978,884	4,763	\$2,231,411,724	381	\$18,927,513	394	\$190,639,647	0	\$0	0	\$0
NIMH	\$1,240,296,543	2,532	\$1,203,950,812	211	\$9,053,849	96	\$26,743,545	0	\$0	2	\$548,337
NIMHD	\$235,944,997	246	\$230,242,141	4	\$139,716	22	\$5,563,140	0	\$0	0	\$0
NINDS	\$1,434,203,891	3,364	\$1,406,721,851	317	\$13,366,920	57	\$14,115,120	0	\$0	0	\$0
NINR	\$116,201,349	252	\$108,197,436	52	\$1,768,218	22	\$6,235,695	0	\$0	0	\$0
NLM	\$59,766,641	104	\$41,471,193	1	\$40,790	28	\$17,483,812	0	\$0	12	\$770,846
OD	\$542,917,852	496	\$492,975,052	4	\$146,503	37	\$7,376,970	13	\$5,894,192	38	\$36,525,135
<b>Total</b>	<b>\$23,541,086,215</b>	<b>43,431</b>	<b>\$22,649,752,290</b>	<b>3,330</b>	<b>\$147,371,736</b>	<b>1,923</b>	<b>\$656,496,704</b>	<b>13</b>	<b>\$5,894,192</b>	<b>209</b>	<b>\$81,571,293</b>

R&D Contracts for Fiscal Year 2016 not yet available

# Breakdown of NIH Funding by Institute

PHS Relative Share of FY16 NIH Funding x Institute



# NIH Institute Acronyms

NCI	National Cancer Institute
NIAID	National Institute of Allergy and Infectious Diseases
NIGMS	National Institute of General Medical Sciences
NHLBI	National Heart, Lung, and Blood Institute
NIDDK	National Institute of Diabetes and Digestive and Kidney Diseases
NINDS	National Institute on Neurological Disorders and Stroke
NIA	National Institute on Aging
NIMH	National Institute of Mental Health
NICHD	Eunice Kennedy Shriver National Institute of Child Health and Human Development
NIDA	National Institute on Drug Abuse
NEI	National Eye Institute
NCATS	National Center for Advancing Translational Sciences
OD	Office of the Director
NIAMS	National Institute of Arthritis and Musculoskeletal and Skin Diseases
NHGRI	National Human Genome Research Institute
NIEHS	National Institute of Environmental Health Sciences
NIDCD	National Institute on Deafness and Other Communication Disorders
NIAAA	National Institute on Alcohol Abuse and Alcoholism
NIBIB	National Institute of Biomedical Imaging and Bioengineering
NIDCR	National Institute of Dental and Craniofacial Research
NIMHD	National Institute on Minority Health and Health Disparities
NINR	National Institute of Nursing Research
NCCIH	National Center for Complementary and Integrative Health (formally NCCAM)
FIC	Fogarty International Center
NLM	National Library of Medicine

# FY12 - FY16 NIH Extramural Awards Ranking of All Institutions



FY 2012 - FY 2016 NIH RANKING OF INSTITUTION & ACTIVITY  
 BASED ON NIH TOTAL FUNDING TO ALL ACTIVITIES

Rank					INSTITUTION	Total Funding					Percent Change				CAGR
FY12	FY13	FY14	FY15	FY16		FY 2012	FY 2013	FY 2014	FY2015	FY2016	12-13	13-14	14-15	15-16	12-16
1	1	1	1	1	JOHNS HOPKINS UNIVERSITY	\$606,763,376	\$552,624,436	\$573,859,735	\$567,666,828	\$634,940,987	-8.9%	3.8%	-1.1%	11.9%	1.1%
2	2	2	2	2	UNIVERSITY OF CALIFORNIA SAN FRANCISCO	\$500,437,073	\$487,012,070	\$537,257,705	\$557,140,709	\$575,219,351	-2.7%	10.3%	3.7%	3.2%	3.5%
3	5	6	3	3	UNIVERSITY OF MICHIGAN AT ANN ARBOR	\$456,305,212	\$396,727,311	\$412,933,811	\$449,440,199	\$483,326,335	-13.1%	4.1%	8.8%	7.5%	1.4%
4	3	3	4	4	UNIVERSITY OF PENNSYLVANIA	\$454,975,727	\$434,609,877	\$478,169,721	\$448,051,440	\$473,635,717	-4.5%	10.0%	-6.3%	5.7%	1.0%
6	6	5	5	5	UNIVERSITY OF PITTSBURGH AT PITTSBURGH	\$419,497,679	\$394,579,413	\$419,236,398	\$425,603,684	\$472,566,210	-5.9%	6.2%	1.5%	11.0%	3.0%
14	9	8	7	6	STANFORD UNIVERSITY	\$334,539,989	\$338,757,645	\$384,029,203	\$421,175,041	\$425,062,412	1.3%	13.4%	9.7%	0.9%	6.2%
10	7	7	10	7	UNIVERSITY OF NORTH CAROLINA CHAPEL HILL	\$367,798,748	\$367,252,487	\$392,740,918	\$375,543,736	\$408,423,743	-0.1%	6.9%	-4.4%	8.8%	2.7%
9	10	11	12	8	YALE UNIVERSITY	\$370,284,870	\$333,160,740	\$360,022,831	\$352,274,351	\$406,376,306	-10.0%	8.1%	-2.2%	15.4%	2.4%
5	4	4	6	9	UNIVERSITY OF WASHINGTON	\$442,509,710	\$422,731,094	\$423,671,871	\$422,917,954	\$402,088,254	-4.5%	0.2%	-0.2%	-4.9%	-2.4%
7	8	9	8	10	UNIVERSITY OF CALIFORNIA SAN DIEGO	\$394,982,560	\$358,014,070	\$382,148,517	\$387,576,202	\$400,413,190	-9.4%	6.7%	1.4%	3.3%	0.3%
13	12	14	14	11	DUKE UNIVERSITY	\$342,675,382	\$326,166,532	\$342,155,642	\$333,942,671	\$397,768,992	-4.8%	4.9%	-2.4%	19.1%	3.8%
8	14	10	9	12	WASHINGTON UNIVERSITY	\$381,158,684	\$318,396,985	\$372,123,938	\$377,643,762	\$396,519,867	-16.5%	16.9%	1.5%	5.0%	1.0%
11	11	12	11	13	UNIVERSITY OF CALIFORNIA LOS ANGELES	\$360,699,034	\$330,544,193	\$357,983,245	\$370,466,843	\$380,488,703	-8.4%	8.3%	3.5%	2.7%	1.3%
17	16	16	16	14	COLUMBIA UNIVERSITY HEALTH SCIENCES	\$315,357,565	\$300,254,124	\$306,159,165	\$330,752,289	\$379,738,538	-4.8%	2.0%	8.0%	14.8%	4.8%
12	13	13	13	15	MASSACHUSETTS GENERAL HOSPITAL	\$352,991,454	\$339,490,000	\$350,268,662	\$352,918,609	\$364,981,379	-3.8%	3.2%	0.8%	3.4%	0.8%
15	15	15	15	16	BRIGHAM AND WOMEN'S HOSPITAL	\$334,072,073	\$315,920,000	\$322,834,979	\$333,619,020	\$349,521,979	-5.4%	2.2%	3.3%	4.8%	1.1%
18	19	18	18	17	EMORY UNIVERSITY	\$263,600,497	\$250,085,940	\$265,282,296	\$287,920,427	\$294,496,913	-5.1%	6.1%	8.5%	2.3%	2.8%
20	20	19	19	18	UNIVERSITY OF WISCONSIN MADISON	\$229,863,895	\$236,078,135	\$254,296,731	\$268,460,009	\$281,550,402	2.7%	7.7%	5.6%	4.9%	5.2%
33	22	22	20	19	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	\$178,678,872	\$192,159,300	\$234,768,741	\$257,359,170	\$275,560,503	7.5%	22.2%	9.6%	7.1%	11.4%
23	33	32	23	20	NORTHWESTERN UNIVERSITY AT CHICAGO	\$217,044,427	\$165,521,977	\$181,195,768	\$220,533,145	\$257,242,821	-23.7%	9.5%	21.7%	16.6%	4.3%
1	1	1	1	1	<b>PARTNERS HEALTHCARE</b>	<b>\$716,693,528</b>	<b>\$682,699,000</b>	<b>\$704,506,243</b>	<b>\$713,232,959</b>	<b>\$744,420,217</b>	<b>-4.7%</b>	<b>3.2%</b>	<b>1.2%</b>	<b>4.4%</b>	<b>1.0%</b>

Notes: Partners Healthcare figures include MGH, BWH, McL, SRH and IHP. Excludes ARRA.

# FY12- FY16 NIH Ranking of Independent Hospitals



FY 2012 - FY 2016 NIH RANKING OF INSTITUTION & ACTIVITY

BASED ON NIH TOTAL FUNDING TO ALL ACTIVITIES

Rank					INSTITUTION	Total Funding					Percent Change				CAGR
FY12	FY13	FY14	FY15	FY16		FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	12-13	13-14	14-15	15-16	12-16
1	1	1	1	1	MASSACHUSETTS GENERAL HOSPITAL	\$352,991,454	\$339,490,000	\$350,268,662	\$352,918,609	\$364,981,379	-3.8%	3.2%	0.8%	3.4%	0.8%
2	2	2	2	2	BRIGHAM AND WOMEN'S HOSPITAL	\$334,072,073	\$315,920,000	\$322,834,979	\$333,619,020	\$349,521,979	-5.4%	2.2%	3.3%	4.8%	1.1%
#N/A	#N/A	#N/A	#N/A	3	VANDERBILT UNIVERSITY MEDICAL CENTER	#N/A	#N/A	#N/A	#N/A	\$241,301,060	#N/A	#N/A	#N/A	#N/A	#N/A
5	3	3	3	4	CHILDREN'S HOSPITAL BOSTON	\$122,338,322	\$124,160,864	\$122,897,976	\$135,489,308	\$145,731,397	1.5%	-1.0%	10.2%	7.6%	4.5%
3	4	6	5	5	BETH ISRAEL DEACONESS MEDICAL CENTER	\$129,691,590	\$116,122,449	\$108,156,442	\$109,950,180	\$130,439,913	-10.5%	-6.9%	1.7%	18.6%	0.1%
4	5	4	4	6	DANA-FARBER CANCER INSTITUTE	\$124,380,684	\$115,379,421	\$122,652,215	\$125,295,828	\$128,050,993	-7.2%	6.3%	2.2%	2.2%	0.7%
6	7	7	7	7	CINCINNATI CHILDRENS HOSP MED CTR	\$101,839,995	\$96,824,494	\$98,187,760	\$96,088,403	\$108,784,288	-4.9%	1.4%	-2.1%	13.2%	1.7%
#N/A	6	5	6	8	CHILDRENS HOSPITAL OF PHILADELPHIA	#N/A	\$105,248,052	\$112,146,779	\$107,975,876	\$108,125,259	#N/A	6.6%	-3.7%	0.1%	#N/A
7	8	8	8	9	ST. JUDE CHILDREN'S RESEARCH HOSPITAL	\$55,097,329	\$49,039,532	\$48,650,426	\$52,088,764	\$54,675,595	-11.0%	-0.8%	7.1%	5.0%	-0.2%
11	12	10	11	10	SEATTLE CHILDREN'S HOSPITAL	\$33,334,078	\$30,652,212	\$39,068,563	\$38,150,472	\$50,051,774	-8.0%	27.5%	-2.3%	31.2%	10.7%
14	15	12	9	11	CEDARS-SINAI MEDICAL CENTER	\$27,425,416	\$27,956,249	\$34,423,826	\$41,464,366	\$47,417,909	1.9%	23.1%	20.5%	14.4%	14.7%
8	9	9	10	12	NEW YORK STATE PSYCHIATRIC INSTITUTE	\$49,807,571	\$43,606,668	\$46,903,956	\$40,234,946	\$42,984,276	-12.4%	7.6%	-14.2%	6.8%	-3.6%
16	16	16	12	13	NATIONAL JEWISH HEALTH	\$24,678,905	\$25,551,400	\$25,154,637	\$35,256,665	\$32,453,676	3.5%	-1.6%	40.2%	-8.0%	7.1%
12	13	17	15	14	RHODE ISLAND HOSPITAL	\$28,628,016	\$30,461,209	\$24,335,750	\$24,289,073	\$29,152,940	6.4%	-20.1%	-0.2%	20.0%	0.5%
10	11	15	14	15	ROSWELL PARK CANCER INSTITUTE CORP	\$34,734,432	\$34,034,861	\$25,220,309	\$28,371,593	\$27,887,985	-2.0%	-25.9%	12.5%	-1.7%	-5.3%
9	10	11	13	16	BOSTON MEDICAL CENTER	\$37,309,152	\$34,306,306	\$38,130,340	\$30,277,116	\$27,143,128	-8.0%	11.1%	-20.6%	-10.4%	-7.6%
13	17	14	16	17	MC LEAN HOSPITAL (BELMONT, MA)	\$27,450,842	\$24,628,000	\$28,396,545	\$24,171,160	\$27,927,109	-10.3%	15.3%	-14.9%	15.5%	0.4%
19	20	18	18	18	CHILDREN'S HOSPITAL OF LOS ANGELES	\$16,555,073	\$17,149,123	\$22,880,063	\$22,263,973	\$20,236,544	3.6%	33.4%	-2.7%	-9.1%	5.1%
17	18	19	19	19	MASSACHUSETTS EYE AND EAR INFIRMARY	\$21,950,002	\$20,413,920	\$22,398,211	\$20,663,625	\$19,813,390	-7.0%	9.7%	-7.7%	-4.1%	-2.5%
48	41	43	46	43	SPAULDING REHABILITATION HOSPITAL	\$1,388,159	\$1,911,000	\$1,514,347	\$1,337,483	\$1,376,858	37.7%	-20.8%	-11.7%	2.9%	-0.2%

Notes: Partners Healthcare figures include MGH, BWH, McL, SRH and IHP. Excludes ARRA.

# NIH Funding Market Share Trends



## NIH Share of Total Awards Funding by Fiscal Year \*

### # of Awards

	2013		2014		2015**		2016 (as of 12/27/16)	
	# Awards	% Total	# Awards	% Total	# Awards	% Total	# Awards	% Total
BRIGHAM AND WOMEN'S HOSPITAL	576	1.1%	564	1.1%	539	1.0%	570	1.1%
MASSACHUSETTS GENERAL HOSPITAL	788	1.5%	778	1.5%	769	1.5%	796	1.5%
MC LEAN HOSPITAL (BELMONT, MA)	80	0.2%	84	0.2%	83	0.2%	74	0.1%
SPAULDING REHABILITATION HOSPITAL	5	0.0%	5	0.0%	5	0.0%	5	0.0%
INSTITUTE OF HEALTH PROFESSIONALS	2	0.0%	5	0.0%	4	0.0%	2	0.0%
<b>Total PHS</b>	<b>1,451</b>	<b>2.8%</b>	<b>1,436</b>	<b>2.8%</b>	<b>1,400</b>	<b>2.7%</b>	<b>1,447</b>	<b>2.8%</b>
<b>Total NIH</b>	<b>51,588</b>	<b>100.0%</b>	<b>51,512</b>	<b>100.0%</b>	<b>51,382</b>	<b>100.0%</b>	<b>51,666</b>	<b>100.0%</b>

### in Thousands \$

	2013		2014		2015**		2016 (as of 12/27/16)	
	Amount	% Total	Amount	% Total	Amount	% Total	Amount	% Total
BRIGHAM AND WOMEN'S HOSPITAL	\$ 315,920	1.4%	\$ 322,835	1.4%	\$ 333,215	1.4%	\$ 349,522	1.4%
MASSACHUSETTS GENERAL HOSPITAL	\$ 339,490	1.5%	\$ 350,269	1.5%	\$ 350,849	1.5%	\$ 364,981	1.5%
MC LEAN HOSPITAL (BELMONT, MA)	\$ 24,628	0.1%	\$ 28,397	0.1%	\$ 26,165	0.1%	\$ 27,927	0.1%
SPAULDING REHABILITATION HOSPITAL	\$ 1,911	0.0%	\$ 1,514	0.0%	\$ 1,337	0.0%	\$ 1,377	0.0%
INSTITUTE OF HEALTH PROFESSIONALS	\$ 750	0.0%	\$ 1,492	0.0%	\$ 1,187	0.0%	\$ 613	0.0%
<b>Total PHS</b>	<b>\$ 682,698</b>	<b>3.0%</b>	<b>\$ 704,506</b>	<b>3.0%</b>	<b>\$ 712,753</b>	<b>3.1%</b>	<b>\$ 744,420</b>	<b>3.0%</b>
<b>Total NIH</b>	<b>\$ 22,524,766</b>	<b>100.0%</b>	<b>\$ 23,220,975</b>	<b>100.0%</b>	<b>\$23,064,634</b>	<b>100.0%</b>	<b>\$ 24,832,729</b>	<b>100.0%</b>

\* Includes Authorized Funding for both new awards and renewals over 12 month period within NIH Fiscal period. NIH fiscal periods will not match PHS emergence of revenues due to timing.

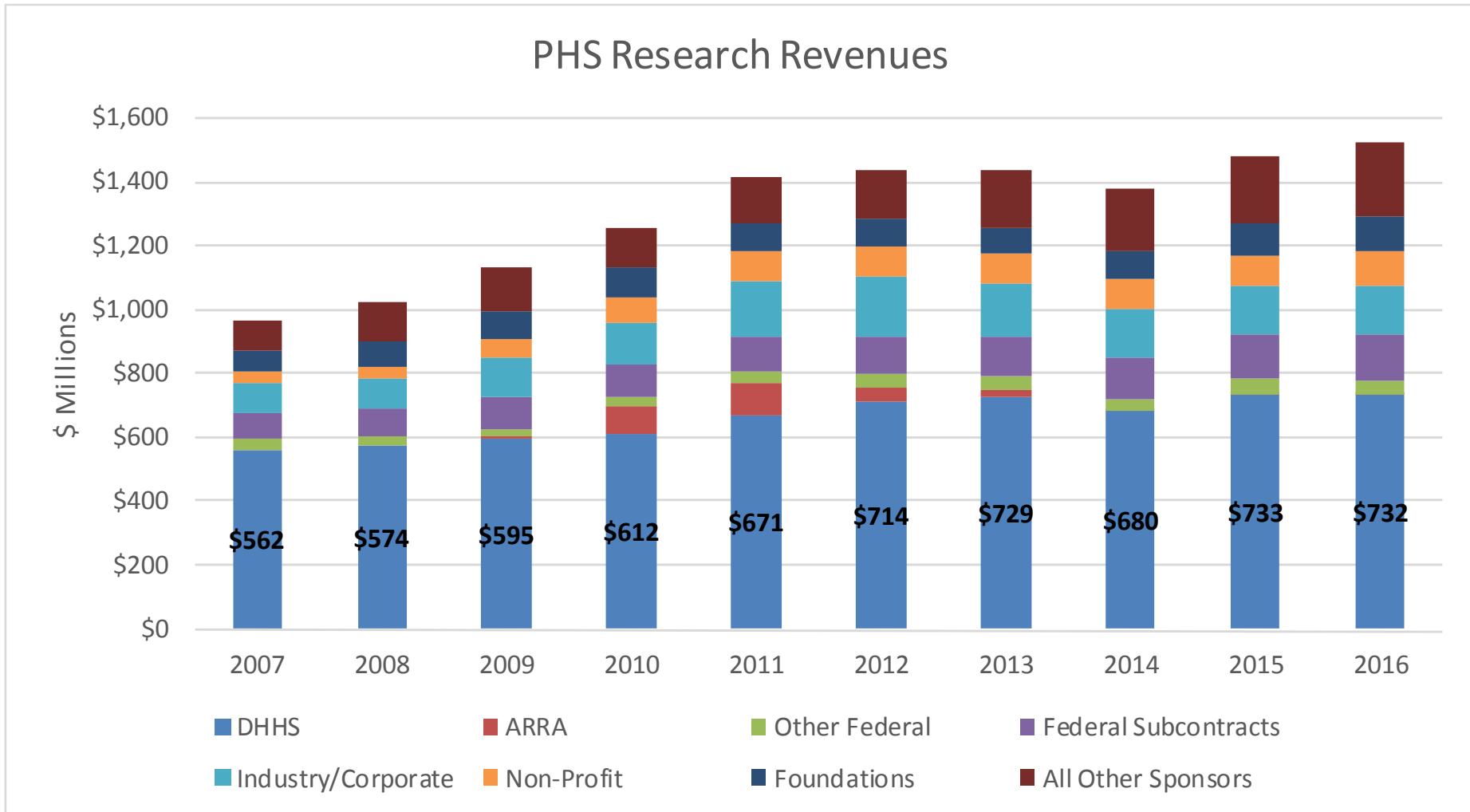
\*\*Final FY15 data updated to remove duplicates on April 8, 2016. Final "Frozen" FY16 data as of December 27, 2016.

\*\*\*Note PHS market share typically runs higher earlier in the year and declines at year-end when final R&D distributions are reported.

- PHS Share of FY16 NIH Funding continues to remain top-ranked for Independent Hospitals and is ~\$32M higher versus the 2015 level of \$712M.
- FY16 NIH funding is 6% higher than FY15, and the outlook for FY17-FY18 should reflect this increase.

# PHS Research Revenue Trends

- Total PHS research revenues increased 3% in FY16, driven primarily by increased Non-Profit, Foundation, and Internally sponsored research.



Source: PHS Research Revenues FY07- FY16 Actual. PHS includes BWH, MGH, McL, SRH, and all other PHS entities.

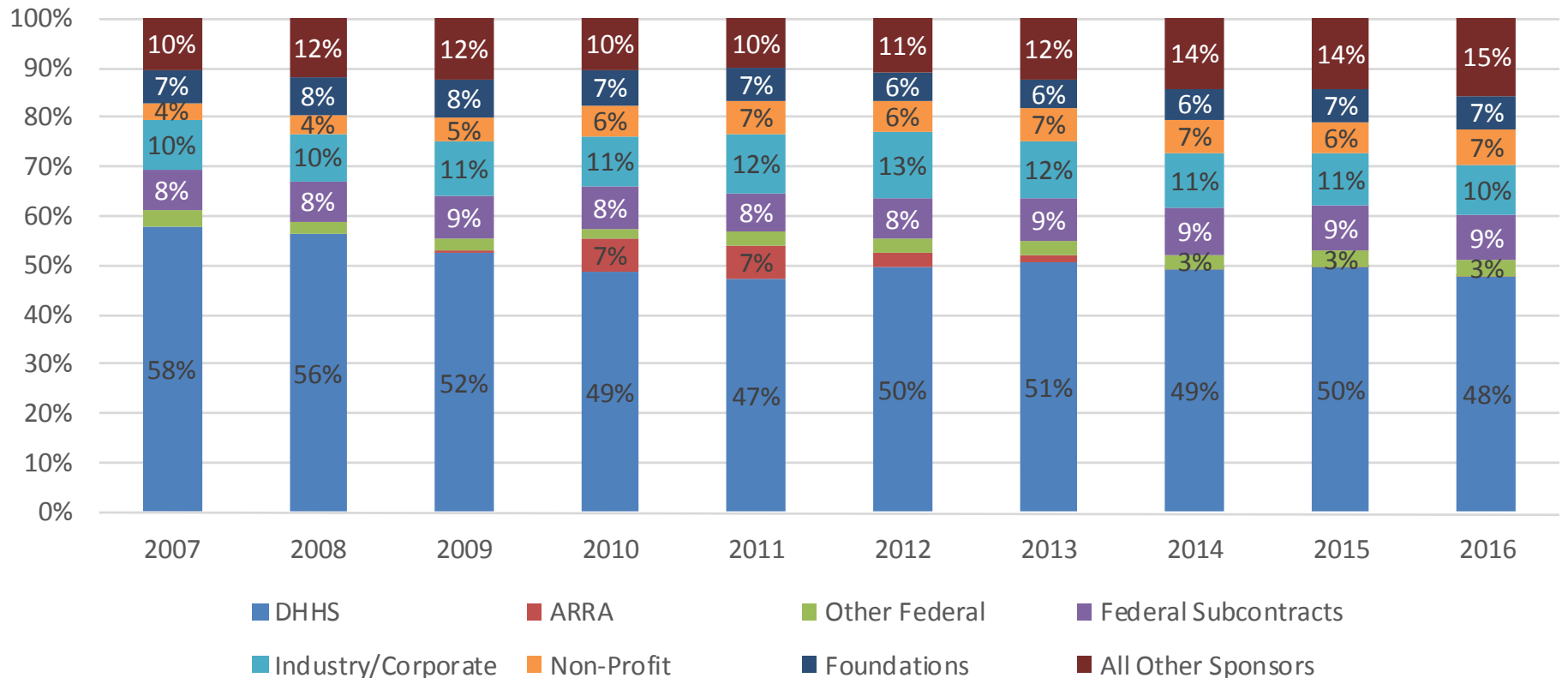
Note: Research Activity, excludes Other Science and P&L adjustments.



# PHS Research Revenue Sponsor Mix

- In FY16, the proportion of Non-Profit (Non-Federal subcontracts) and Internally sponsored research increased slightly, while DHHS fell 2% points.

PHS Research Revenue Sponsor Mix



Source: PHS Research Revenues FY07- FY16 Actual. PHS includes BWH, MGH, McL, SRH, and all other PHS entities.  
 Note: Research Activity, excludes Other Science and P&L adjustments.

# DHHS New Awards FY10-FY16 by Scientific Activity Grouping



Institution - Parent	Analytics Activity Group - Parent	Is Award Fiscal Year Awarded	2010	2011	2012	2013	2014	2015	2016
			Budget Period Amount - Awarded	Budget Period Amount - Awarded	Budget Period Amount - Awarded	Budget Period Amount - Awarded	Budget Period Amount - Awarded	Budget Period Amount - Awarded	Budget Period Amount - Awarded
BWH	Basic Science Research		93,730,490	70,771,888	79,475,930	77,633,865	52,715,872	60,261,058	95,447,340
BWH	Clinical Trial		80,854,940	102,519,915	33,192,633	17,611,100	391,389,019	48,140,069	69,315,124
BWH	Other Clinical Research		203,580,649	127,610,447	192,964,327	149,834,380	125,926,910	159,269,498	171,657,238
BWH	Training/ Other		31,426,327	29,625,560	21,925,368	33,724,239	14,075,020	35,677,099	33,589,635
BWH	<b>Total</b>		<b>409,592,406</b>	<b>330,527,810</b>	<b>327,558,258</b>	<b>278,803,584</b>	<b>584,106,821</b>	<b>303,347,724</b>	<b>370,009,337</b>
McLean	Basic Science Research		15,698,548	13,440,994	10,629,365	16,999,011	14,846,719	10,014,562	11,600,706
McLean	Clinical Trial			784,141			3,261,173	8,416,902	
McLean	Other Clinical Research		24,381,972	7,920,273	12,940,371	3,184,631	5,041,110	8,205,444	13,878,226
McLean	Training/ Other		3,620,757	3,648,552	3,687,954	2,779,788	2,685,261	3,027,813	2,325,185
McLean	<b>Total</b>		<b>43,701,277</b>	<b>25,793,960</b>	<b>27,257,690</b>	<b>22,963,430</b>	<b>25,834,263</b>	<b>29,664,721</b>	<b>27,804,117</b>
MGH	Basic Science Research		205,732,686	172,862,100	117,786,438	89,001,973	124,375,351	164,824,507	132,870,446
MGH	Clinical Trial		20,473,077	47,028,570	21,548,843	23,437,420	108,199,365	25,200,776	13,479,525
MGH	Other Clinical Research		165,693,356	173,471,657	108,015,121	127,853,894	155,950,081	170,055,599	220,129,226
MGH	Training/ Other		30,685,891	37,004,649	37,565,958	32,720,149	40,406,307	34,009,279	52,548,168
MGH	<b>Total</b>		<b>422,585,010</b>	<b>430,366,976</b>	<b>284,916,360</b>	<b>273,013,436</b>	<b>428,931,104</b>	<b>394,090,161</b>	<b>419,027,365</b>
SRH	Basic Science Research		24,995						
SRH	Clinical Trial						447,562		495,499
SRH	Other Clinical Research		3,025,596			2,368,517		2,773,642	2,298,795
SRH	Training/ Other				792,629	548,640			
SRH	<b>Total</b>		<b>3,050,591</b>		<b>792,629</b>	<b>2,917,157</b>	<b>447,562</b>	<b>2,773,642</b>	<b>2,794,294</b>
<b>Total</b>			<b>878,929,284</b>	<b>786,688,746</b>	<b>640,524,937</b>	<b>577,697,607</b>	<b>1,039,319,750</b>	<b>729,876,248</b>	<b>819,635,113</b>

\* Research Activity, excluding Other Science and P&L adjustments.

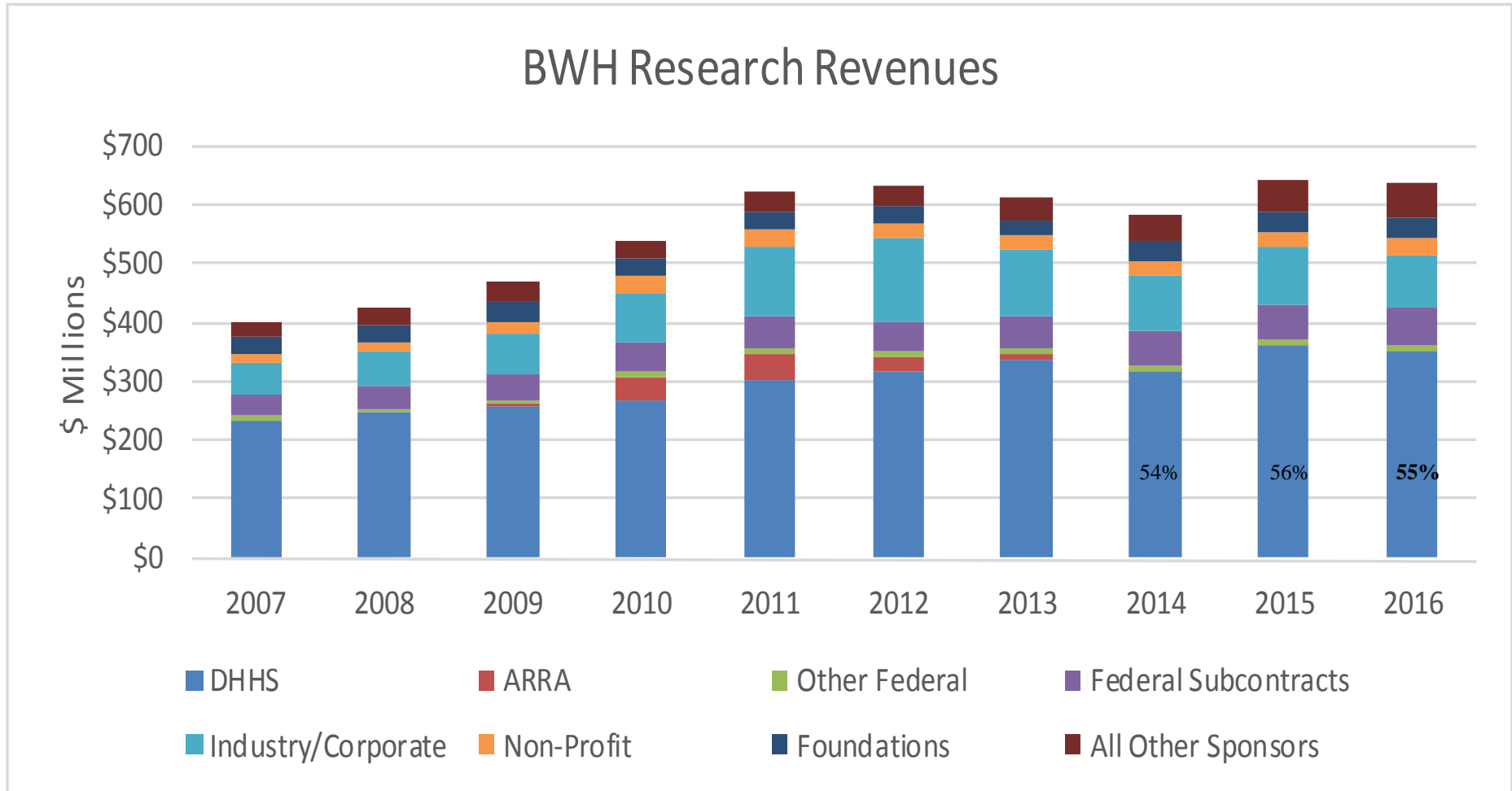
# DHHS Research Activity FY10-FY16 by IDC, TDC, & Total Revenue



Institution	Metrics	2010	2011	2012	2013	2014	2015	2016
BWH	IDC	76,659,822	85,020,984	92,196,329	89,278,764	83,172,467	87,489,537	83,731,383
	TDC	190,585,773	214,924,429	226,577,292	246,181,069	230,092,635	272,475,598	265,617,566
	<b>Total Rev</b>	<b>267,245,595</b>	<b>299,945,414</b>	<b>318,773,621</b>	<b>335,459,833</b>	<b>313,265,102</b>	<b>359,965,135</b>	<b>349,348,949</b>
McLean	IDC	7,113,052	7,249,440	7,315,811	8,281,953	7,471,646	6,925,832	7,782,626
	TDC	14,462,640	18,438,204	17,922,236	20,210,689	18,719,806	18,502,311	17,819,528
	<b>Total Rev</b>	<b>21,575,693</b>	<b>25,687,644</b>	<b>25,238,047</b>	<b>28,492,642</b>	<b>26,191,452</b>	<b>25,428,143</b>	<b>25,602,153</b>
MGH	IDC	97,585,837	104,275,382	119,377,290	112,866,591	105,369,528	104,933,859	105,103,130
	TDC	225,283,017	241,001,083	250,444,801	250,904,317	231,173,903	238,160,445	247,516,728
	<b>Total Rev</b>	<b>322,868,854</b>	<b>345,276,465</b>	<b>369,822,091</b>	<b>363,770,909</b>	<b>336,543,430</b>	<b>343,094,304</b>	<b>352,619,858</b>
SRH	IDC	481,796	485,611	482,976	487,655	452,778	445,443	501,803
	TDC	932,171	1,026,597	1,070,636	1,105,199	1,410,982	953,806	1,507,759
	<b>Total Rev</b>	<b>1,413,966</b>	<b>1,512,208</b>	<b>1,553,612</b>	<b>1,592,855</b>	<b>1,863,760</b>	<b>1,399,249</b>	<b>2,009,562</b>
<b>Total</b>	<b>IDC</b>	<b>181,840,507</b>	<b>197,031,417</b>	<b>219,372,406</b>	<b>210,914,964</b>	<b>196,466,419</b>	<b>199,794,672</b>	<b>197,118,942</b>
	<b>TDC</b>	<b>431,263,601</b>	<b>475,390,314</b>	<b>496,014,965</b>	<b>518,401,275</b>	<b>481,397,326</b>	<b>530,092,160</b>	<b>532,461,581</b>
	<b>Total Rev</b>	<b>613,104,109</b>	<b>672,421,730</b>	<b>715,387,371</b>	<b>729,316,239</b>	<b>677,863,745</b>	<b>729,886,831</b>	<b>729,580,522</b>

\* Research Activity, excluding Other Science and P&L adjustments.

# BWH Research Revenue Trends-All Sponsors



Source: PHS Research Revenues FY07- FY16 Actual.  
 Note: Research Activity, excludes Other Science and P&L adjustments

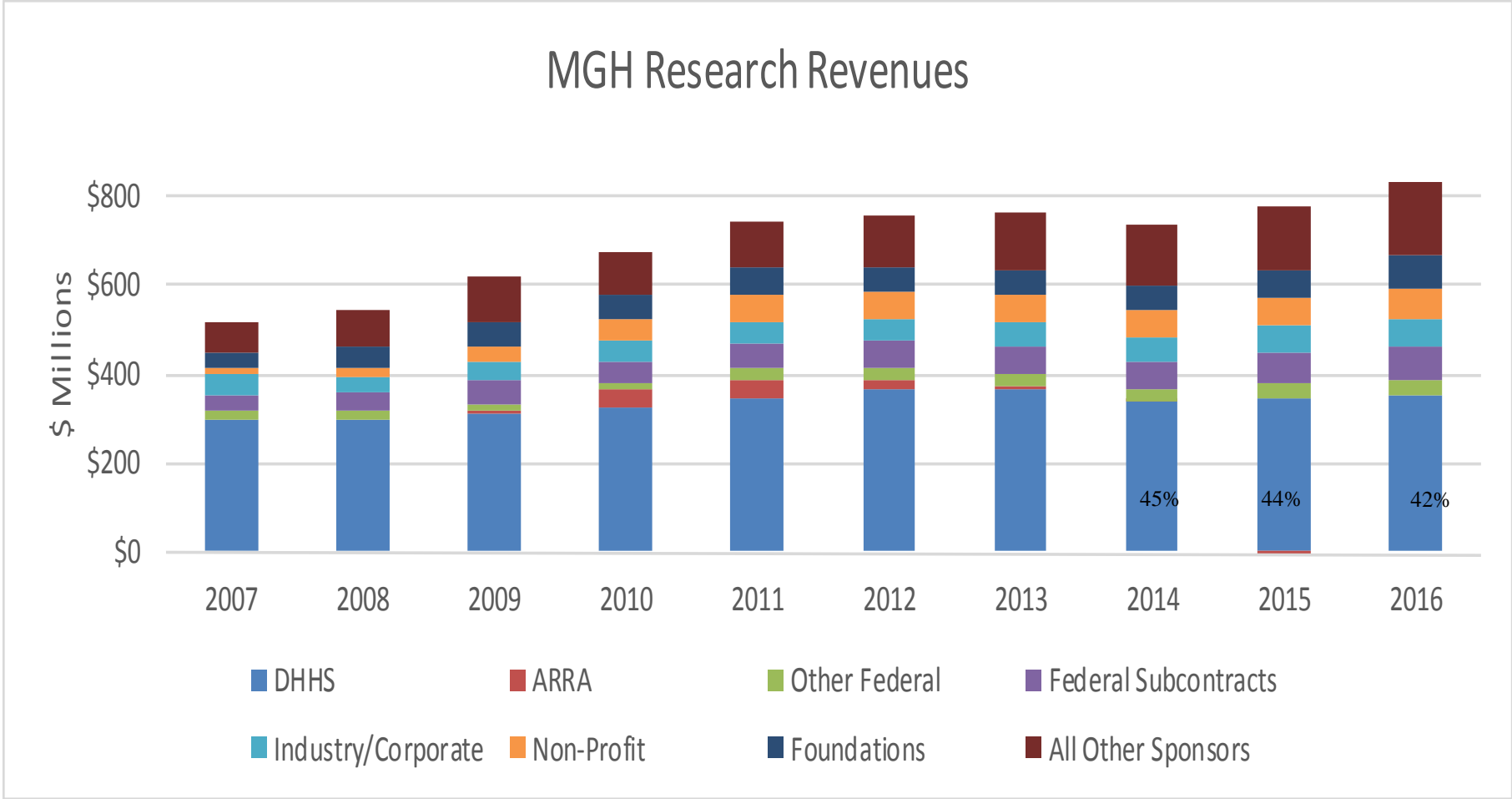
# BWH DHHS Research Revenue Top COS



COS	Department	2016	2015
		Total Revenue	Total Revenue
30SA - AIDS Research Center (BWH)	30AA - Medicine (BWH)	61,257,468	54,003,818
36AA - Channing Division of Network Medicine (BWH)	30AA - Medicine (BWH)	34,617,610	40,629,050
36JA - Preventive Medicine (BWH)	30AA - Medicine (BWH)	23,765,624	25,719,247
30JA - Immunology Unit (BWH)	30AA - Medicine (BWH)	21,822,633	19,339,213
36CA - Genetics (BWH)	30AA - Medicine (BWH)	15,575,249	17,124,889
30CA - Cardiology (BWH)	30AA - Medicine (BWH)	14,823,243	15,259,551
54AA - Radiology (BWH)	54AA - Radiology (BWH)	13,882,117	12,925,106
30PA - Pulmonary (BWH)	30AA - Medicine (BWH)	13,575,518	16,564,320
36KA - Sleep Medicine (BWH)	30AA - Medicine (BWH)	12,896,565	13,812,035
56OA - CALGB (BWH)	56AA - Surgery (BWH)	11,643,414	16,447,308
30LA - Reproductive Endocrine (BWH)	30AA - Medicine (BWH)	10,170,350	8,319,182
42KA - Division of Multiple Sclerosis & Neuro Immunology (BWH)	42AA - Neurology (BWH)	9,716,579	8,910,365
30IA - Infectious Disease (BWH)	30AA - Medicine (BWH)	9,157,130	10,496,069
42DA - Division of Basic Neuroscience Research (BWH)	42AA - Neurology (BWH)	8,495,575	6,947,297
30RA - Renal (BWH)	30AA - Medicine (BWH)	7,998,583	9,431,193
30HA - Hematology (BWH)	30AA - Medicine (BWH)	7,918,938	7,031,397
10AA - Anesthesia (BWH)	10AA - Anesthesia (BWH)	7,029,247	12,293,840
52AA - Pathology (BWH)	52AA - Pathology (BWH)	6,683,619	8,184,510
30EA - Endocrine (BWH)	30AA - Medicine (BWH)	6,211,712	5,032,338
16AA - Dermatology (BWH)	16AA - Dermatology (BWH)	5,758,450	5,662,241
30KA - General Medicine (BWH)	30AA - Medicine (BWH)	5,233,997	4,639,643
30GA - Gastroenterology (BWH)	30AA - Medicine (BWH)	5,225,460	4,220,285
36EA - Pharmacoepidemiology (BWH)	30AA - Medicine (BWH)	4,696,796	3,813,010
82AA - Other (BWH)	82AA - Other (BWH)	4,517,314	5,135,994
22DA - Other (BWH)	22AA - Obstetrics/Gynecology (BWH)	4,070,486	2,358,597

Source: PHS Research Revenues FY15-FY16 Actual.  
 Note: Research Activity, excludes P&L adjustments

# MGH Research Revenue Trends- All Sponsors



Source: PHS Research Revenues FY07- FY16 Actual.  
 Note: Research Activity, excludes Other Science and P&L adjustments

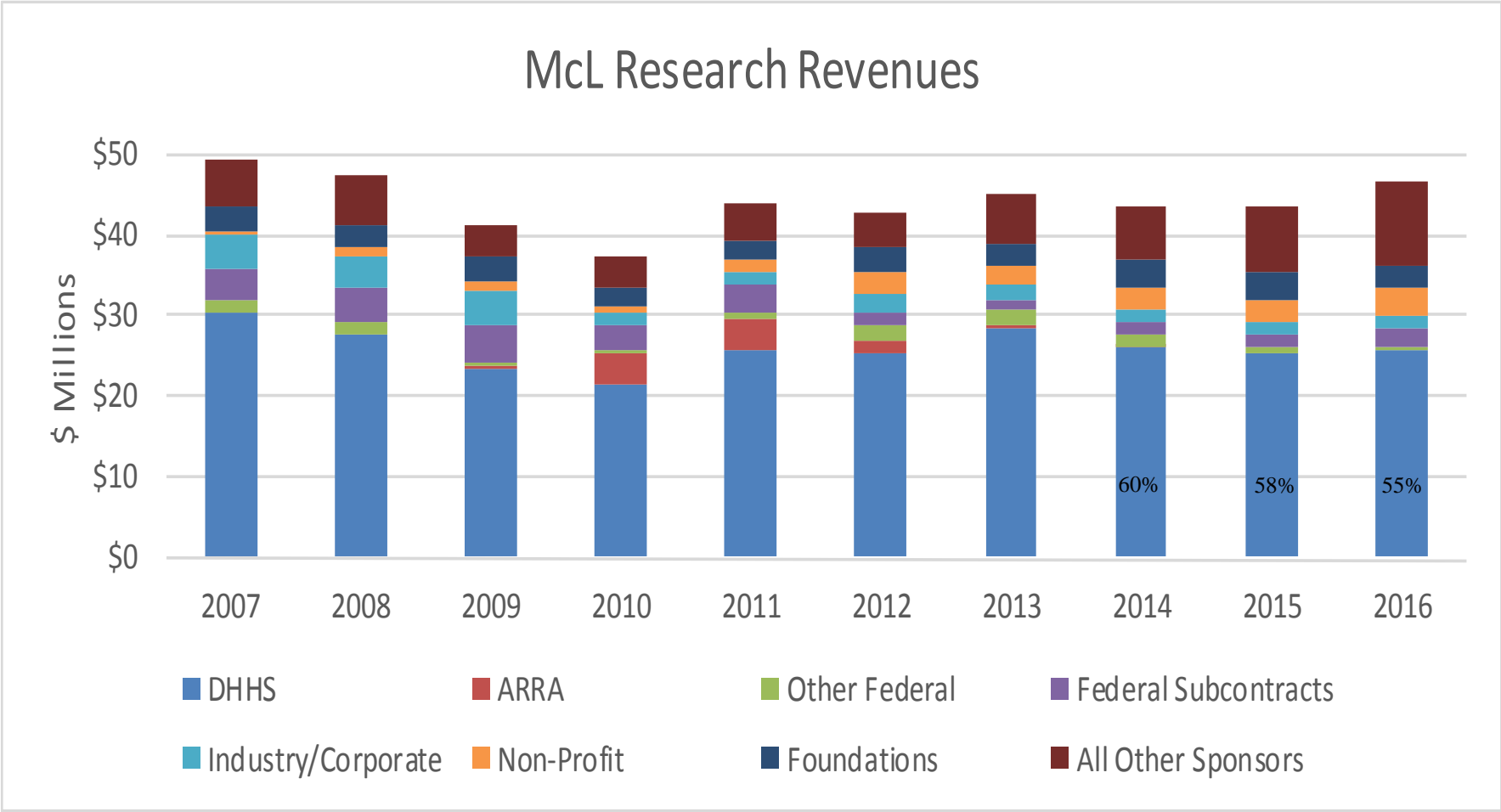
# MGH DHHS Research Revenue Top COS



COS	Department	2016	2015
		Total Revenue	Total Revenue
42AA - Neurology (MGH)	42AA - Neurology (MGH)	32,240,021	30,148,868
54CA - Martinos Center (MGH)	54AA - Radiology (MGH)	28,621,739	26,705,748
30CA - Cardiac Unit (MGH)	30AA - Medical Services (MGH)	14,666,136	12,097,971
30GA - GI Unit (MGH)	30AA - Medical Services (MGH)	13,864,809	14,182,390
30IA - Infectious Disease Unit (MGH)	30AA - Medical Services (MGH)	11,782,960	12,960,748
15AA - Center for Genomic Medicine (MGH)	15AA - Center for Genomic Medicine (MGH)	11,539,124	12,551,829
19AA - Center for Systems Biology (MGH)	19AA - Center for Systems Biology (MGH)	11,391,857	13,213,418
56RA - Surgery, Science & Engineering (MGH)	56AA - Surgery (MGH)	11,159,679	10,477,794
17AA - WCP Wellman Photomedicine (MGH)	17AA - WCP Wellman Photomedicine (MGH)	10,671,233	10,491,448
28AA - Molecular Biology (MGH)	28AA - Molecular Biology (MGH)	10,427,635	10,474,443
25AA - Ragon Institute of MGH, MIT and Harvard (MGH)	25AA - Ragon Institute of MGH, MIT and	9,898,891	11,541,283
10AA - Anesthesia (MGH)	10AA - Anesthesia (MGH)	9,237,134	10,825,446
38AA - Cancer Center (MGH)	38AA - Cancer Center (MGH)	8,364,210	6,801,118
44EA - Neuroscience and Neuroimaging (MGH)	44AA - Psychiatry (MGH)	8,356,794	7,909,741
30RA - Renal Unit (MGH)	30AA - Medical Services (MGH)	8,039,100	6,971,157
44AA - Psychiatry (MGH)	44AA - Psychiatry (MGH)	7,438,727	7,658,588
30OA - Rheum, Allergy and Immunology (MGH)	30AA - Medical Services (MGH)	7,372,868	8,428,649
16CA - Dermatology - CBRC (MGH)	16AA - Dermatology (MGH)	6,777,918	7,207,425
30EA - Endocrine Unit (MGH)	30AA - Medical Services (MGH)	6,663,253	6,686,142
38BA - Hematology/Oncology (MGH)	38AA - Cancer Center (MGH)	6,466,368	6,647,882
44BA - Mood and Anxiety Disorders (MGH)	44AA - Psychiatry (MGH)	6,334,793	5,564,203
30WA - Neuroendocrine (MGH)	30AA - Medical Services (MGH)	5,711,419	5,644,851
13AA - CRMT Regen Med and Technology (MGH)	13AA - CRMT Regen Med and Technology	5,616,977	6,337,297
42BA - Neurology Clinical Research Institute (MGH)	42AA - Neurology (MGH)	5,585,782	3,272,053
30UA - Biostatistics (MGH)	30AA - Medical Services (MGH)	5,400,671	3,006,370

Source: PHS Research Revenues FY15-FY16 Actual.  
 Note: Research Activity, excludes P&L adjustments

# McL Research Revenue Trends- All Sponsors



Source: PHS Research Revenues FY07- FY16 Actual.  
 Note: Research Activity, excludes Other Science and P&L adjustments



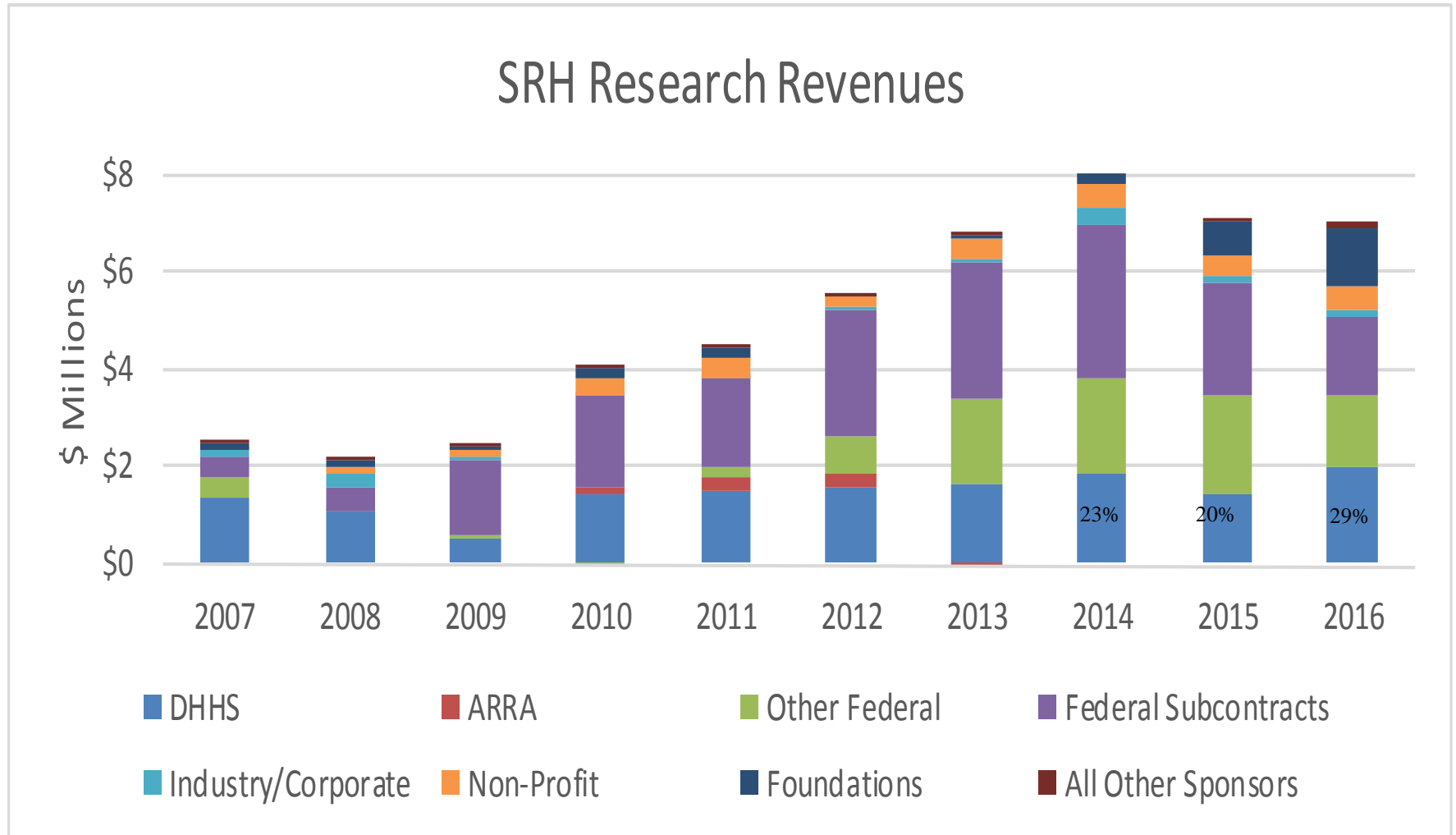
# McL DHHS Research Revenue Top COS

COS	Department	2016	2015
		Total Revenue	Total Revenue
91AA - Basic Neuroscience Department (McLean)	91AA - Basic Neuroscience Department (McLean)	3,550,876	4,427,394
90AA - Alcohol and Drug Abuse Department (McLean)	90AA - Alcohol and Drug Abuse Department (McLean)	2,601,765	2,640,565
94AA - Depression and Anxiety Disorders Department (McLean)	94AA - Depression and Anxiety Disorders Department (McLean)	2,552,796	2,496,405
96EA - Schizophrenia and Bipolar Disorder Research Progra (McLean)	96AA - Psychotic Disorders Department (McLean)	2,162,912	2,105,675
91HA - Laboratory for Translational Neuroscience (McLean)	91AA - Basic Neuroscience Department (McLean)	1,759,375	933,419
91KA - Molecular Neurobiology Laboratory (McLean)	91AA - Basic Neuroscience Department (McLean)	1,507,795	583,553
98GA - Harvard Brain Tissue Resource Center (McLean)	98AA - Research Centers (McLean)	1,221,526	1,253,556
98DA - Brain Imaging Center (McLean)	98AA - Research Centers (McLean)	1,089,910	1,061,743
91BA - Behavioral Genetics Laboratory (McLean)	91AA - Basic Neuroscience Department (McLean)	962,302	1,050,702
92CA - Developmental Biopsychiatry Research Program (McLean)	92AA - Child and Adolescent Psychiatry Department (McLean)	929,833	1,027,715
98EA - The Conte Center for Psychiatric and Molecular Neu (McLean)	98AA - Research Centers (McLean)	754,951	381,967
99BA - Administration (McLean)	99AA - Administration (McLean)	745,631	0
95CA - Behavioral Psychopharmacology Research Laboratory (McLean)	95AA - Neuroimaging Department (McLean)	728,383	1,142,281
91FA - Genetic Neuropharmacology (McLean)	91AA - Basic Neuroscience Department (McLean)	709,242	829,812
91DA - Cellular Neurobiology Laboratory (McLean)	91AA - Basic Neuroscience Department (McLean)	672,581	228,063
95DA - Cognitive and Clinical Neuroimaging Core (McLean)	95AA - Neuroimaging Department (McLean)	631,971	382,800
98CA - Alcohol and Drug Abuse Clinical Research Center (McLean)	98AA - Research Centers (McLean)	535,648	721,653

Source: PHS Research Revenues FY15-FY16 Actual.

Note: Research Activity, excludes P&L adjustments

# SRH Research Revenue Trends- All Sponsors



Source: PHS Research Revenues FY07- FY16 Actual.  
 Note: Research Activity, excludes Other Science and P&L adjustments

# SRH DHHS Research Revenue Top COS



COS	Department	2016	2015
		Total Revenue	Total Revenue
74BA - Dept of Physical Med and Rehab (SRH)	74BA - Dept of Physical Med and Rehab (SRH)	2,009,562	1,399,249
<b>Total</b>		<b>2,009,562</b>	<b>1,399,249</b>

# FY16-FY15 Sponsor Mix - Including Federal Subcontracts



Institution	Immediate Sponsor Type With Fed Subs	2016					2015				
		IDC	MTDC Recovery Rate	TC	% Total IDC	% Total TC	IDC	MTDC Recovery Rate	TC	% Total IDC	% Total TC
BWH	DHHS	84,081,986	58.1%	350,323,478	60%	55%	87,911,181	55.8%	361,030,275	63%	56%
	Federal Subcontracts	22,266,075	62.7%	59,710,231	16%	9%	21,901,268	61.8%	58,986,392	16%	9%
	Other Federal	4,298,881	56.0%	13,228,322	3%	2%	3,796,184	58.5%	12,127,626	3%	2%
	Industry/Corporate	16,911,982	33.8%	93,436,085	12%	15%	14,237,067	31.0%	97,174,552	10%	15%
	Non-Profit	2,309,110	9.4%	28,560,610	2%	4%	2,209,389	10.3%	25,652,431	2%	4%
	Foundations	3,207,561	12.9%	33,152,812	2%	5%	3,318,198	12.7%	35,955,821	2%	6%
	All Other Sponsors	6,588,244	13.9%	60,752,613	5%	10%	6,030,336	14.4%	52,376,776	4%	8%
	<b>Total</b>	<b>139,663,838</b>	<b>41.7%</b>	<b>639,164,150</b>	<b>100%</b>	<b>100%</b>	<b>139,403,624</b>	<b>41.7%</b>	<b>643,303,873</b>	<b>100%</b>	<b>100%</b>
McLean	DHHS	7,782,626	52.1%	25,602,153	70%	55%	6,925,832	47.7%	25,428,143	71%	58%
	Federal Subcontracts	748,025	55.6%	2,095,897	7%	4%	516,192	58.0%	1,475,423	5%	3%
	Other Federal	182,327	47.2%	570,252	2%	1%	152,765	35.4%	680,000	2%	2%
	Industry/Corporate	493,823	43.2%	1,590,768	4%	3%	418,060	34.7%	1,636,852	4%	4%
	Non-Profit	256,346	8.7%	3,620,020	2%	8%	275,085	12.3%	2,669,212	3%	6%
	Foundations	277,971	12.3%	2,628,418	3%	6%	362,614	13.3%	3,366,162	4%	8%
	All Other Sponsors	1,353,538	14.9%	10,727,444	12%	23%	1,049,257	15.1%	8,406,188	11%	19%
	<b>Total</b>	<b>11,094,655</b>	<b>34.6%</b>	<b>46,834,953</b>	<b>100%</b>	<b>100%</b>	<b>9,699,806</b>	<b>33.5%</b>	<b>43,661,980</b>	<b>100%</b>	<b>100%</b>
MGH	DHHS	105,102,973	57.0%	352,604,552	54%	42%	104,924,462	59.4%	343,075,037	56%	44%
	Federal Subcontracts	25,792,336	55.3%	78,821,132	13%	9%	24,633,293	57.1%	73,506,039	13%	9%
	Other Federal	9,641,865	58.4%	30,310,135	5%	4%	9,476,501	59.0%	33,979,962	5%	4%
	Industry/Corporate	15,787,156	41.4%	59,127,756	8%	7%	15,016,274	38.5%	57,628,016	8%	7%
	Non-Profit	11,351,662	20.7%	74,171,527	6%	9%	10,847,888	22.3%	64,152,751	6%	8%
	Foundations	7,017,129	13.3%	71,672,190	4%	9%	5,268,231	11.4%	60,973,984	3%	8%
	All Other Sponsors	18,474,813	14.5%	164,578,239	10%	20%	16,577,906	14.4%	148,768,843	9%	19%
	<b>Total</b>	<b>193,167,934</b>	<b>37.1%</b>	<b>831,285,532</b>	<b>100%</b>	<b>100%</b>	<b>186,744,554</b>	<b>38.5%</b>	<b>782,084,632</b>	<b>100%</b>	<b>100%</b>
SRH	DHHS	501,803	42.2%	2,009,562	33%	29%	445,443	48.5%	1,399,249	24%	20%
	Federal Subcontracts	530,806	48.3%	1,636,306	35%	23%	744,080	52.2%	2,301,380	40%	32%
	Other Federal	363,012	45.7%	1,423,922	24%	20%	576,522	46.1%	2,089,101	31%	29%
	Industry/Corporate	5,583	6.5%	113,950	0%	2%	8,952	15.4%	147,030	0%	2%
	Non-Profit	28,425	6.2%	491,615	2%	7%	4,210	1.1%	408,363	0%	6%
	Foundations	87,396	10.1%	1,251,733	6%	18%	62,220	13.0%	689,772	3%	10%
	All Other Sponsors	12,382	14.8%	96,134	1%	1%	7,105	14.3%	56,155	0%	1%
	<b>Total</b>	<b>1,529,408</b>	<b>33.4%</b>	<b>7,023,222</b>	<b>100%</b>	<b>100%</b>	<b>1,848,532</b>	<b>40.7%</b>	<b>7,091,051</b>	<b>100%</b>	<b>100%</b>
<b>Total</b>	<b>345,455,836</b>	<b>38.7%</b>	<b>1,524,307,856</b>			<b>337,696,516</b>	<b>39.6%</b>	<b>1,476,141,536</b>			

Note: Sponsor expenditures as a percent of Total Research Revenue, excluding All Other Science, Accruals, and P&L Adjustments