

UNIVERSITY OF MICHIGAN



# NATIONAL INSTITUTES OF HEALTH (NIH) DATA BOOK Fiscal Year 2017



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# NIH BUDGET HISTORY



# NIH Budget History

## NIH budget mechanism detail FY 2001-2017

(\$ Millions)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Research Grants																	
Research Projects Grants																	
Noncompeting	\$7,941	\$9,135	\$10,029	\$10,784	\$10,997	\$11,052	\$11,005	\$11,178	\$11,397	\$11,773	\$11,893	\$11,946	\$11,119	\$10,785	\$11,220	\$11,725	\$12,661
Administrative Supplements	\$204	\$224	\$201	\$255	\$456	\$285	\$205	\$177	\$221	\$189	\$202	\$192	\$248	\$208	\$194	\$281	\$225
Competing	\$3,032	\$3,183	\$3,517	\$3,562	\$3,396	\$3,358	\$3,788	\$3,666	\$3,921	\$3,933	\$3,732	\$3,791	\$3,439	\$4,479	\$4,310	\$5,023	\$5,295
Subtotal	\$11,177	\$12,542	\$13,746	\$14,602	\$14,850	\$14,695	\$14,998	\$15,021	\$15,538	\$15,896	\$15,827	\$15,929	\$14,807	\$15,473	\$15,723	\$17,029	\$18,182
SBIR/STTR	\$418	\$497	\$541	\$612	\$625	\$619	\$629	\$633	\$648	\$653	\$648	\$671	\$639	\$695	\$718	\$811	\$923
Total, RPGs	\$11,595	\$13,038	\$14,287	\$15,213	\$15,475	\$15,314	\$15,627	\$15,654	\$16,186	\$16,549	\$16,476	\$16,599	\$15,445	\$16,168	\$16,441	\$17,840	\$19,105
Research Centers																	
Spec/Comp	\$1,373	\$1,585	\$1,835	\$1,947	\$2,045	\$2,045	\$2,238	\$2,201	\$2,257	\$2,301	\$2,227	\$2,282	\$1,995	\$1,958	\$1,880	\$1,811	\$1,767
Clinical Research	\$230	\$258	\$285	\$288	\$298	\$308	\$381	\$425	\$426	\$436	\$439	\$398	\$370	\$414	\$425	\$407	\$402
Biotechnology	\$110	\$135	\$143	\$140	\$131	\$129	\$137	\$138	\$144	\$152	\$147	\$161	\$156	\$167	\$172	\$180	\$187
Comparative Medicine	\$102	\$94	\$109	\$116	\$119	\$123	\$124	\$126	\$134	\$134	\$138	\$139	\$133	\$129	\$132	\$120	\$122
RCMI	\$45	\$52	\$56	\$56	\$55	\$54	\$54	\$53	\$57	\$60	\$59	\$59	\$55	\$55	\$55	\$57	\$58
Total, Centers	\$1,860	\$2,124	\$2,428	\$2,546	\$2,647	\$2,660	\$2,934	\$2,944	\$3,019	\$3,083	\$3,009	\$3,039	\$2,709	\$2,723	\$2,663	\$2,574	\$2,536
Other Research																	
Research Careers	\$395	\$459	\$536	\$586	\$608	\$614	\$663	\$682	\$671	\$649	\$626	\$632	\$615	\$612	\$608	\$644	\$673
Cancer Education	\$22	\$27	\$30	\$32	\$35	\$35	\$31	\$31	\$32	\$35	\$33	\$33	\$34	\$33	\$28	\$23	\$24
Coop. Clinical	\$324	\$360	\$379	\$357	\$335	\$345	\$425	\$410	\$404	\$431	\$448	\$430	\$435	\$475	\$422	\$405	\$403
BRS	\$67	\$129	\$120	\$116	\$106	\$66	\$98	\$66	\$66	\$68	\$70	\$68	\$69	\$67	\$67	\$67	\$70



# NIH Budget History

## NIH budget mechanism detail FY 2001-2017 (continued)

(\$ Millions)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
MBRS	\$100	\$111	\$117	\$117	\$116	\$115	\$111	\$107	\$106	\$107	\$104	\$111	\$105	\$104	\$103	\$105	\$104
Other	\$334	\$388	\$435	\$469	\$482	\$477	\$465	\$484	\$519	\$530	\$548	\$560	\$526	\$556	\$574	\$775	\$908
<b>Total, Other</b>	<b>\$1,241</b>	<b>\$1,474</b>	<b>\$1,617</b>	<b>\$1,678</b>	<b>\$1,682</b>	<b>\$1,651</b>	<b>\$1,794</b>	<b>\$1,780</b>	<b>\$1,799</b>	<b>\$1,821</b>	<b>\$1,829</b>	<b>\$1,834</b>	<b>\$1,783</b>	<b>\$1,847</b>	<b>\$1,803</b>	<b>\$2,020</b>	<b>\$2,181</b>
<b>Total, Research</b>	<b>\$14,696</b>	<b>\$16,636</b>	<b>\$18,332</b>	<b>\$19,438</b>	<b>\$19,805</b>	<b>\$19,624</b>	<b>\$20,355</b>	<b>\$20,378</b>	<b>\$21,004</b>	<b>\$21,452</b>	<b>\$21,314</b>	<b>\$21,473</b>	<b>\$19,938</b>	<b>\$20,738</b>	<b>\$20,907</b>	<b>\$22,433</b>	<b>\$23,823</b>
<b>Training</b>																	
Individual	\$95	\$102	\$108	\$113	\$119	\$123	\$121	\$123	\$122	\$126	\$127	\$130	\$132	\$136	\$137	\$148	\$158
Institutional	\$494	\$549	\$603	\$628	\$625	\$608	\$661	\$647	\$655	\$649	\$644	\$632	\$601	\$602	\$621	\$656	\$670
<b>Total, Training</b>	<b>\$590</b>	<b>\$651</b>	<b>\$711</b>	<b>\$741</b>	<b>\$744</b>	<b>\$731</b>	<b>\$782</b>	<b>\$770</b>	<b>\$776</b>	<b>\$775</b>	<b>\$772</b>	<b>\$761</b>	<b>\$734</b>	<b>\$738</b>	<b>\$758</b>	<b>\$804</b>	<b>\$827</b>
R&D Contracts	\$1,388	\$1,643	\$2,301	\$2,693	\$2,518	\$2,583	\$2,985	\$3,248	\$3,058	\$3,145	\$2,998	\$2,915	\$2,927	\$2,990	\$2,827	\$2,913	\$3,047
(SBIR/STTR)	\$17	\$19	\$22	\$22	\$237	\$24	\$26	\$22	\$32	\$33	\$38	\$57	\$59	\$65	\$71	\$67	\$58
Intramural Research	\$1,952	\$2,225	\$2,565	\$2,659	\$2,738	\$2,746	\$3,035	\$3,095	\$3,223	\$3,306	\$3,331	\$3,401	\$3,247	\$3,374	\$3,408	\$3,683	\$3,780
Other*	\$1,230	\$1,408	\$1,960	\$1,629	\$1,728	\$1,634	\$1,336	\$2,102	\$1,440	\$1,521	\$1,530	\$2,303	\$2,284	\$2,179	\$2,394	\$2,426	\$2,670
<b>All NIH ICs</b>	<b>\$19,856</b>	<b>\$22,563</b>	<b>\$25,868</b>	<b>\$27,159</b>	<b>\$27,532</b>	<b>\$27,318</b>	<b>\$29,128</b>	<b>\$29,615</b>	<b>\$29,501</b>	<b>\$30,200</b>	<b>\$29,944</b>	<b>\$30,852</b>	<b>\$29,129</b>	<b>\$30,019</b>	<b>\$30,293</b>	<b>\$32,259</b>	<b>\$34,174</b>



# NIH Budget History

## NIH budget mechanism detail FY 1995-2000

(\$ Millions)

	1995	1996	1997	1998	1999	2000
Research Grants						
Research Projects Grants						
Noncompeting	\$4,404	\$4,726	\$4,998	\$5,474	\$5,822	\$6,715
Administrative Supplements	\$55	\$70	\$89	\$106	\$128	\$129
Competing	\$1,563	\$1,627	\$1,817	\$1,939	\$2,515	\$2,912
Subtotal	\$6,021	\$6,423	\$6,905	\$7,518	\$8,465	\$9,756
SBIR/STTR	\$173	\$189	\$249	\$269	\$314	\$362
Total, RPGs	\$6,195	\$6,612	\$7,154	\$7,787	\$8,779	\$10,118
Research Centers						
Spec/Comp	\$738	\$757	\$787	\$837	\$996	\$1,137
Clinical Research	\$136	\$147	\$157	\$170	\$202	\$203
Biotechnology	\$48	\$49	\$54	\$58	\$71	\$85
Comparative Medicine	\$57	\$57	\$62	\$64	\$76	\$81
RCMI	\$27	\$29	\$29	\$32	\$34	\$41
Total, Centers	\$1,006	\$1,040	\$1,089	\$1,161	\$1,380	\$1,547
Other Research						
Research Careers	\$188	\$198	\$208	\$226	\$270	\$334
Cancer Education	\$8	\$10	\$12	\$14	\$17	\$17
Coop. Clinical	\$163	\$186	\$191	\$197	\$246	\$294
BRS	\$17	\$25	\$25	\$26	\$38	\$45
MBRS	\$48	\$49	\$50	\$54	\$66	\$88
Other	\$81	\$86	\$97	\$115	\$171	\$237
Total, Other Research	\$504	\$554	\$583	\$631	\$808	\$1,013



# NIH Budget History

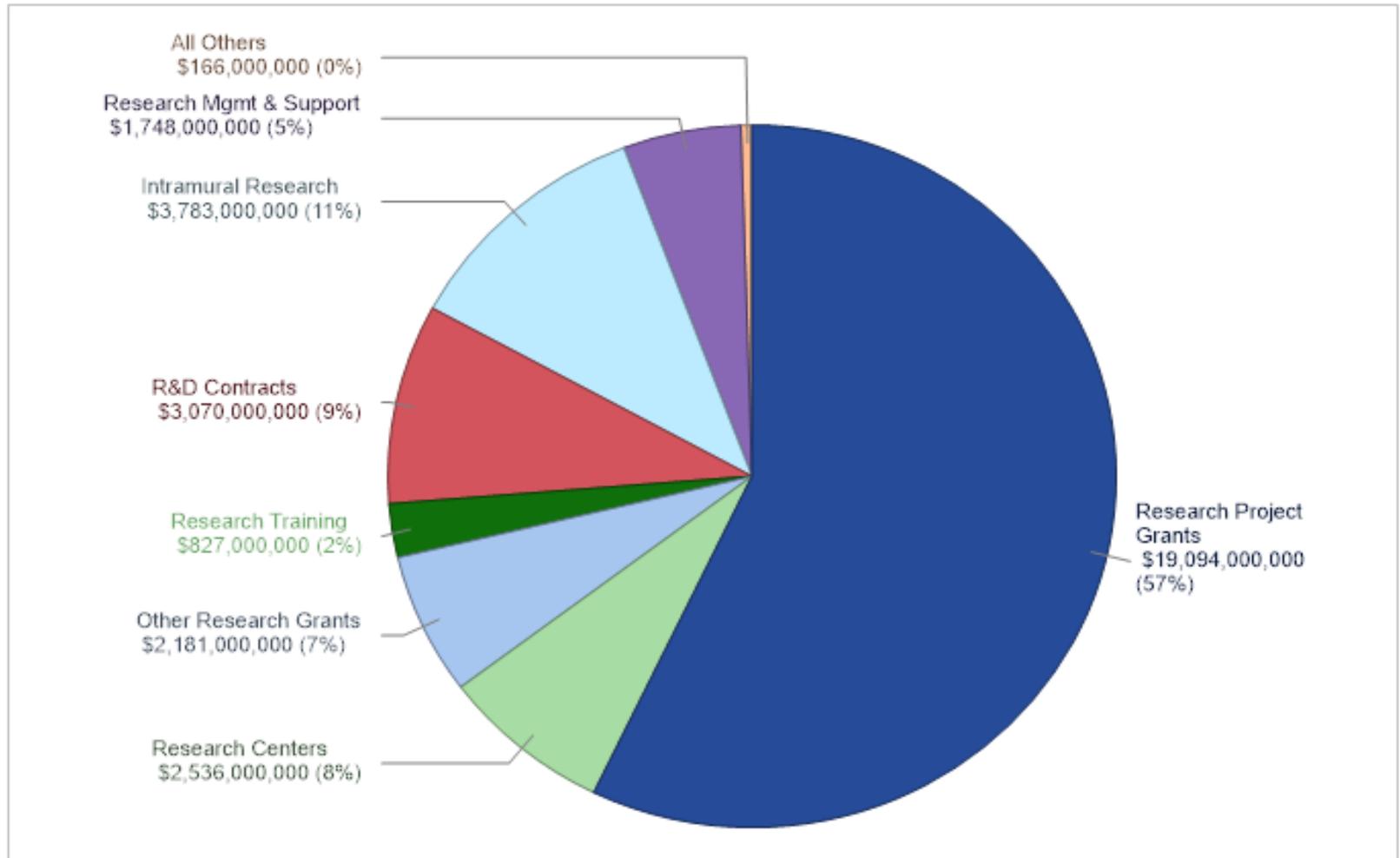
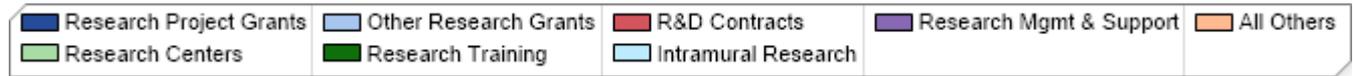
## NIH budget mechanism detail FY 1995-2000 (continued)

(\$ Millions)

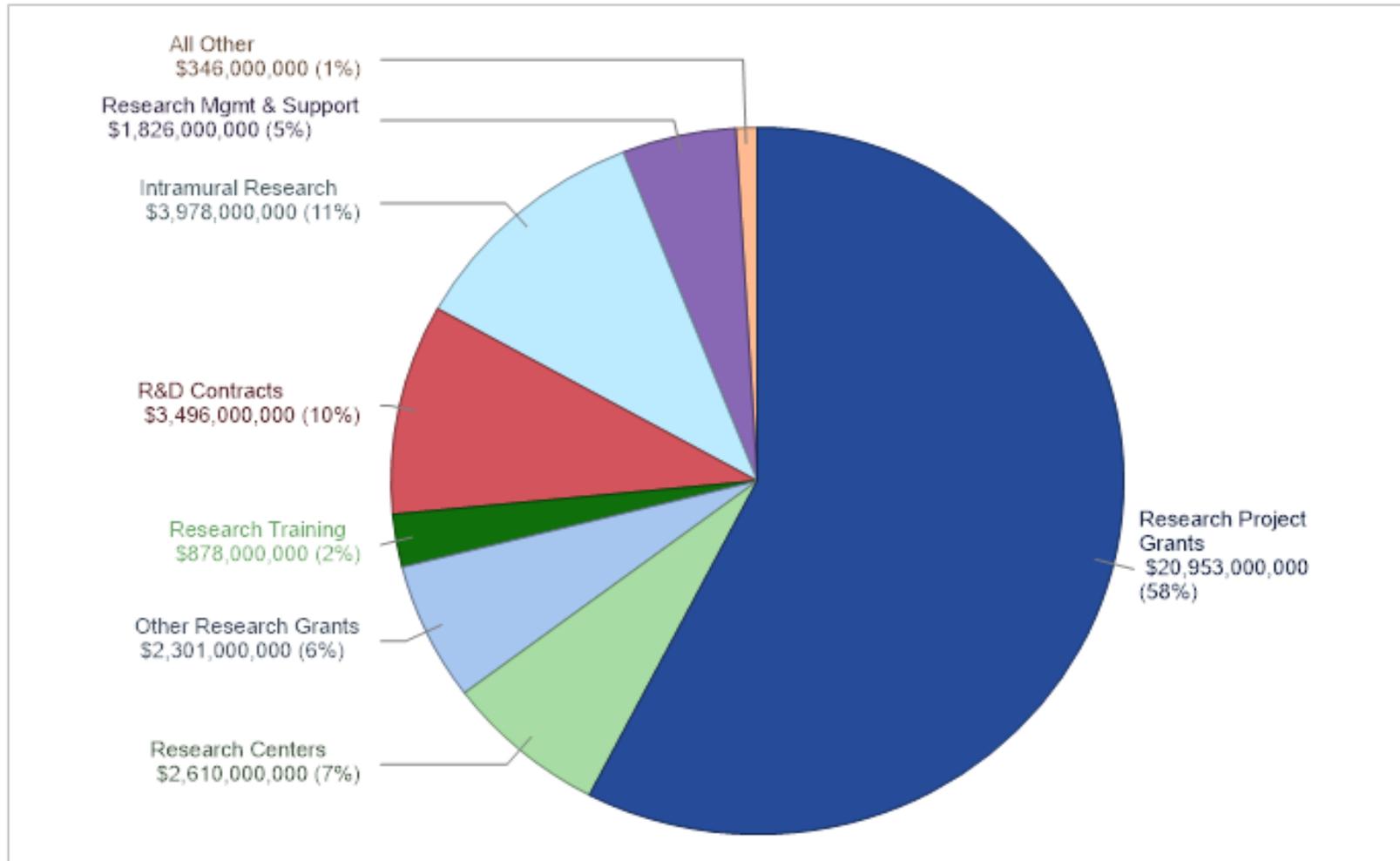
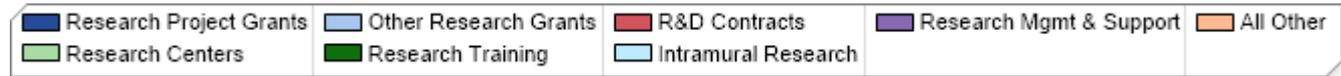
	1995	1996	1997	1998	1999	2000
Total, Research Grants	\$7,705	\$8,207	\$8,825	\$9,579	\$10,967	\$12,679
Training						
Individual	\$64	\$67	\$69	\$70	\$86	\$86
Institutional	\$317	\$329	\$348	\$358	\$424	\$453
Total, Training	\$381	\$395	\$417	\$428	\$509	\$540
R&D Contracts	\$791	\$765	\$790	\$794	\$1,067	\$1,148
(SBIR/STTR)	\$6	\$4	\$11	\$13	\$11	\$13
Intramural Research	\$1,223	\$1,295	\$1,346	\$1,435	\$1,565	\$1,746
Other*	\$717	\$719	\$734	\$760	\$882	\$1,066
All NIH ICs	\$10,816	\$11,380	\$12,113	\$12,996	\$14,990	\$17,178



## Total NIH budget authority FY F2017 Final



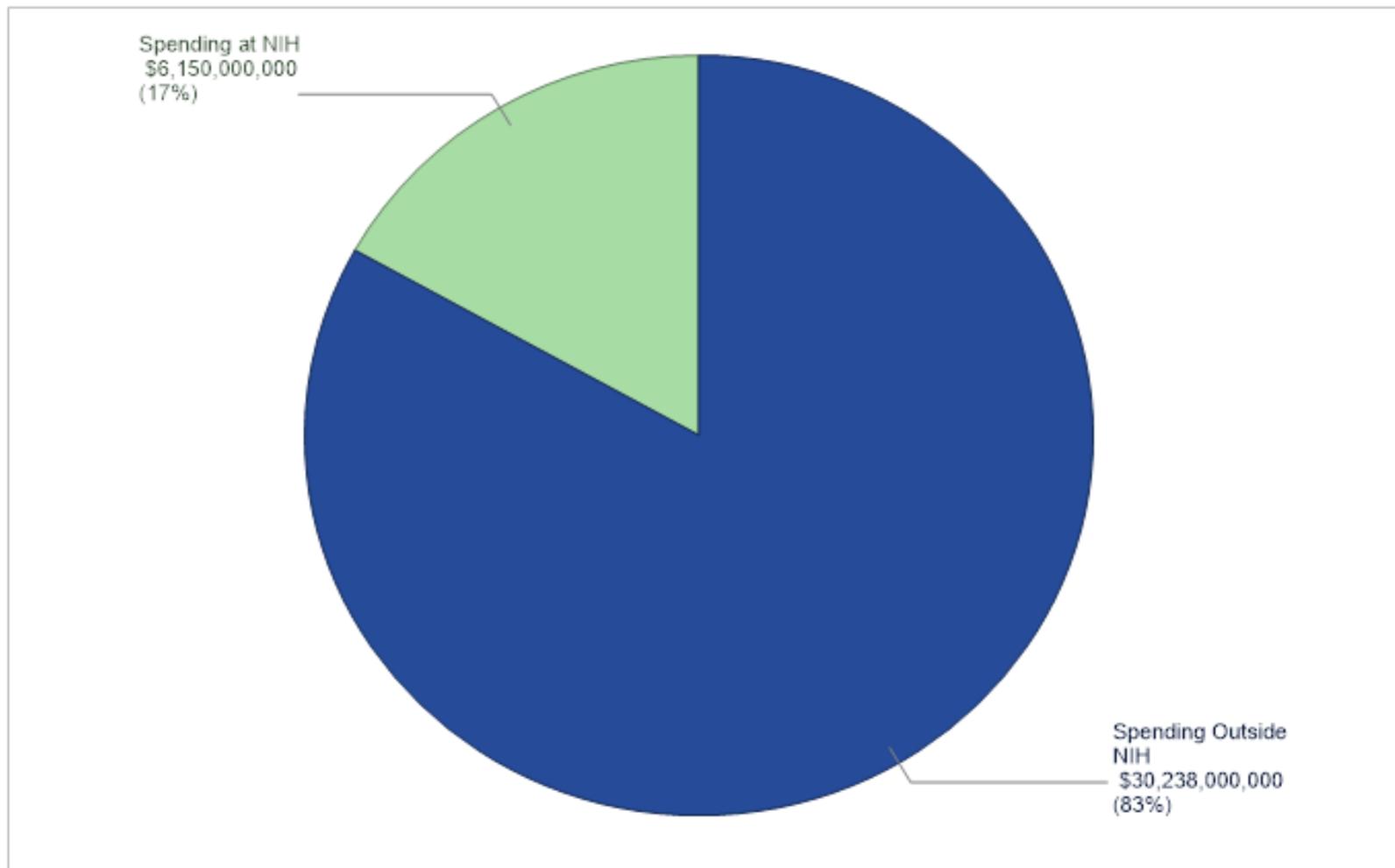
# Total NIH budget authority: FY 2017 OPERATING PLAN



# NIH BUDGET HISTORY

## NIH EXTRAMURAL & INTRAMURAL FUNDING: FY 2018 OPERATING PLAN

■ Spending Outside NIH   ■ Spending at NIH





# RESEARCH GRANTS



## Research and training grants

### Competing applications by mechanism and selected activity codes

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All Research Grants	30,937	31,154	34,583	37,008	36,663	39,381	45,304	53,895	55,556	57,258	58,612	53,676	53,132	59,658	62,267	63,504	61,013	62,641	63,648	67,766	66,731
Research Projects Grants	24,222	24,151	26,408	27,798	28,368	30,068	34,710	40,861	43,069	45,688	47,455	43,467	43,140	45,983	49,592	51,313	49,581	51,073	52,190	54,220	54,005
R01	18,039	17,947	21,560	21,903	21,805	22,066	24,406	27,250	28,229	28,931	27,168	25,890	26,523	27,719	28,656	29,515	27,939	27,399	28,873	29,968	30,516
R15	504	317	277	404	406	502	505	619	661	723	862	758	805	992	1,454	1,408	1,568	1,633	1,700	1,652	1,680
R21	615	959	1,327	2,226	2,572	3,997	5,330	7,166	8,484	9,934	11,396	10,649	10,320	11,241	13,145	13,743	13,229	14,331	14,360	14,657	13,493
All Other RPGs	5,064	4,928	3,244	3,265	3,585	3,503	4,469	5,826	5,695	6,100	8,029	6,170	5,492	6,031	6,337	6,647	6,845	7,710	7,257	7,943	8,316
SBIR	3,108	2,964	3,758	4,171	3,629	4,095	5,135	6,109	5,380	4,580	3,613	3,524	3,842	5,660	5,762	5,202	4,593	4,516	4,585	5,951	5,109
Phase I	2,527	2,440	3,044	3,462	2,843	3,228	4,111	4,970	4,321	3,531	2,721	2,715	2,963	4,496	4,672	4,287	3,738	3,622	3,425	4,178	3,508
Regular Phase II	540	461	585	589	657	684	751	810	869	857	665	598	645	734	681	557	542	566	823	628	525
Direct Phase II																				497	397
Phase IIB																				69	53
Fast track	41	63	129	120	129	183	273	329	190	192	227	211	234	430	409	358	313	328	337	512	536
CRP																				67	90
STTR	335	384	405	387	358	299	416	689	759	913	1,050	842	687	678	653	645	697	935	1,059	1,571	1,225
Phase I	300	321	337	330	293	246	356	585	649	773	867	682	535	539	508	542	583	788	911	1,341	1,049



## Research and training grants Competing applications by mechanism and selected activity codes (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Regular Phase II	35	60	61	48	61	46	42	65	65	100	128	118	105	92	103	71	72	87	87	120	88
Phase IIB																				1	0
Fast track		3	7	9	4	7	18	39	45	40	55	42	47	47	42	32	42	60	61	109	88
Research Centers	499	470	676	550	636	826	859	1,079	809	920	1,030	733	847	890	716	939	769	811	741	670	826
Research Career Awards	1,029	1,082	1,464	1,921	1,783	2,009	2,147	2,642	2,962	2,712	3,340	2,832	2,518	2,825	2,848	2,940	2,900	3,113	3,122	3,208	3,334
K01	233	266	277	383	376	422	503	563	645	654	578	443	395	465	441	522	483	569	598	629	645
K02	117	111	90	98	116	106	100	114	112	93	67	72	73	65	64	54	48	35	31	23	18
K07	51	88	37	75	61	72	76	154	169	144	88	84	54	72	75	68	83	72	75	62	69
K08	557	536	479	496	515	560	592	669	676	635	524	509	466	480	425	371	346	393	430	429	447
K12	15	42	53	78	23	124	52	106	126	70	106	36	42	43	76	105	75	27	79	60	69
K22		8	55	111	87	117	143	146	171	173	149	115	111	124	88	103	172	214	227	207	237
K23		1	203	394	399	421	505	635	679	666	650	574	517	558	599	555	555	524	589	575	641
K24			185	172	128	108	89	120	149	127	133	97	87	105	87	111	104	88	94	90	86
K25				19	41	42	48	80	113	99	78	50	41	69	82	75	59	59	53	57	51
K99										1	893	795	703	778	832	911	926	1,114	932	1,004	1,005
All Other Ks	56	30	85	95	37	37	39	55	122	50	74	57	29	66	79	65	49	18	14	72	66
All Other Research Grants	1,744	2,103	1,872	2,181	1,889	2,084	2,037	2,515	2,577	2,445	2,124	2,278	2,098	3,622	2,696	2,465	2,473	2,193	1,951	2,146	2,232
Training, Individual	3,012	2,781	2,590	2,579	2,488	2,368	3,026	3,604	3,989	4,395	4,236	3,920	3,728	4,214	4,169	4,438	4,474	4,464	5,221	5,411	5,477
F30	25	31	16	31	31	48	61	101	105	131	180	246	300	330	274	361	362	425	570	624	545
F31	442	508	503	551	698	729	972	1,227	1,425	1,651	1,611	1,500	1,377	1,561	1,564	1,770	1,807	1,886	2,568	2,622	2,734



## Research and training grants

### Competing applications by mechanism and selected activity codes (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
F32	2,419	2,146	1,984	1,910	1,691	1,558	1,949	2,214	2,390	2,565	2,416	2,150	2,026	2,309	2,297	2,284	2,297	2,145	2,077	2,013	2,045
F33	49	47	37	31	32	24	32	34	39	35	25	18	14	14	12	15	5	8	6	8	1
All Other Fs	77	49	50	56	36	9	12	28	30	13	4	6	11	0	22	8	3	0	0	144	152
Training, Institution	643	596	632	700	654	732	821	910	1,032	930	977	842	913	826	781	813	817	788	774	801	732
T32	575	512	567	595	594	666	753	777	933	824	842	758	787	732	686	685	676	698	690	710	606
T34	30	34	39	45	23	37	27	28	36	30	36	29	43	36	21	21	25	19	37	34	29
All Other Ts	38	50	26	60	37	29	41	105	63	76	99	55	83	58	74	107	116	71	47	57	97



## Research and training grants

### Competing awards by mechanism and selected activity codes

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017		
All Research Grants	10,274	10,380	11,856	12,333	12,663	13,217	14,366	14,128	13,446	12,601	13,893	13,276	12,387	12,852	11,911	12,303	11,199	12,577	12,616	13,668	13,542		
Research Projects Grants	7,389	7,518	8,556	8,765	9,098	9,396	10,393	10,052	9,599	9,128	10,100	9,460	8,881	9,455	8,765	9,032	8,310	9,241	9,540	10,372	10,123		
R01	5,378	5,541	6,818	6,884	6,817	6,661	7,255	6,792	6,275	5,878	6,309	5,910	5,776	6,091	5,264	5,340	4,800	5,066	5,375	5,874	5,775		
R15	24	30	10	29	60	187	214	193	197	184	216	212	178	185	216	208	197	232	288	282	258		
R21	271	253	421	541	777	1,115	1,299	1,488	1,495	1,533	1,854	1,758	1,423	1,671	1,694	1,932	1,771	2,013	2,067	2,219	1,826		
All Other RPGs	1,716	1,694	1,307	1,311	1,444	1,433	1,625	1,579	1,632	1,533	1,721	1,580	1,504	1,508	1,591	1,552	1,542	1,930	1,810	1,997	2,264		
SBIR	1,023	928	1,153	1,177	1,230	1,265	1,370	1,334	1,118	1,080	975	1,093	965	927	781	946	722	952	821	907	1,000		
Phase 1	729	692	829	912	847	880	982	973	778	684	656	738	650	614	536	667	495	652	514	526	549		
Regular Phase 2	281	225	279	231	345	335	327	302	312	355	278	288	261	246	203	222	178	229	241	193	194		
Direct Phase II																					84	109	
Phase IIB																						22	21
Fast track	13	11	45	34	38	50	61	59	28	41	41	67	54	67	42	57	49	71	66	67	67	101	
CRP																						15	26
STTR	87	109	97	108	118	110	118	262	189	189	167	159	143	152	121	149	140	202	190	245	218		
Phase 1	75	88	78	86	87	81	95	215	146	153	125	109	104	109	80	110	109	160	149	191	169		



## Research and training grants

### Competing awards by mechanism and selected activity codes (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Regular Phase 2	12	21	18	20	30	29	18	32	32	26	36	46	32	32	37	28	19	37	31	37	34
Phase IIB																				1	0
Fast track		0	1	2	1	0	5	15	11	10	6	4	7	11	4	11	12	5	10	16	15
Research Centers	181	196	269	270	335	329	379	336	312	316	351	290	289	333	266	314	237	308	257	239	248
Research Career Awards	527	544	673	835	829	928	938	938	1,046	829	1,036	1,002	963	1,004	899	930	850	932	959	998	1,020
K01	82	90	107	137	160	179	216	179	198	180	183	172	144	185	151	168	160	195	201	202	203
K02	62	63	64	53	65	49	48	54	42	33	28	27	26	19	24	14	11	14	6	5	10
K07	25	39	16	31	22	28	27	31	37	35	23	29	21	16	19	5	22	13	19	17	10
K08	306	311	249	250	255	293	280	267	266	215	189	222	221	211	177	157	124	158	170	162	195
K12	15	19	19	19	10	44	24	33	35	24	48	19	22	21	24	49	34	7	35	27	32
K22		0	5	21	33	47	47	47	50	50	40	26	29	31	26	25	34	33	52	50	44
K23		1	86	192	184	196	214	226	232	180	217	216	227	211	203	203	178	201	206	207	218
K24			81	77	58	48	40	50	76	56	62	49	41	64	39	51	41	43	45	51	34
K25				8	23	22	20	24	37	31	27	24	9	21	19	19	17	16	12	14	12
K99									1	183	180	204	194	180	212	203	246	208	231	235	
All Other Ks	37	21	46	47	19	22	22	27	73	24	36	38	19	31	37	27	26	6	5	32	27
All Other Research Grants	1,067	1,085	1,108	1,178	1,053	1,189	1,168	1,206	1,182	1,059	1,264	1,272	1,146	981	1,079	932	940	942	849	907	933
Training, Individual	1,193	1,144	1,168	1,216	1,229	1,049	1,189	1,269	1,232	1,266	1,275	1,281	1,192	1,260	1,227	1,240	1,237	1,290	1,354	1,408	1,529
F30	15	19	10	22	25	33	35	49	46	52	81	114	147	132	96	134	144	166	200	232	214
F31	204	242	255	285	408	389	414	478	446	500	552	518	499	480	524	505	536	531	631	624	703



## Research and training grants Competing awards by mechanism and selected activity codes (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
F32	921	844	866	868	767	614	715	721	716	703	626	640	537	646	603	590	555	591	522	516	573
F33	17	10	13	11	14	10	17	15	14	9	13	9	7	2	2	9	2	2	1	0	0
All Other Fs	36	29	24	30	15	3	8	6	10	2	3	0	2	0	2	2	0	0	0	36	39
Training, Institution	397	384	399	464	412	427	442	435	440	405	467	418	461	443	374	389	339	417	376	417	373
T32	367	329	362	401	369	386	402	382	389	348	416	366	395	382	320	328	283	362	337	374	311
T34	15	18	20	21	16	20	13	14	13	10	17	9	14	18	6	10	12	9	12	11	10
All Other Ts	15	37	17	42	27	21	27	39	38	47	34	43	52	43	48	51	44	46	27	32	52



## Research and training grants

### Success rates by mechanism and selected activity codes

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
All Research Grants	33%	33%	34%	33%	34%	33%	32%	26%	24%	22%	24%	25%	23%	22%	19%	19%	18%	20%	20%	20%	20%	
Research Projects Grants	31%	31%	32%	32%	32%	31%	30%	25%	22%	20%	21%	22%	21%	21%	18%	18%	17%	18%	18%	19%	19%	
R01	30%	31%	32%	31%	31%	30%	30%	25%	22%	20%	23%	23%	22%	22%	18%	18%	17%	18%	19%	20%	19%	
R15	5%	9%	4%	7%	15%	37%	42%	31%	30%	25%	25%	28%	22%	19%	15%	15%	13%	14%	17%	17%	15%	
R21	44%	26%	32%	24%	30%	28%	24%	21%	18%	15%	16%	16%	14%	15%	13%	14%	13%	14%	14%	15%	14%	
All Other RPGs	34%	34%	40%	40%	40%	41%	36%	27%	29%	25%	21%	26%	27%	25%	25%	23%	22%	25%	25%	25%	27%	
SBIR	33%	31%	31%	28%	34%	31%	27%	22%	21%	24%	27%	31%	25%	16%	14%	18%	16%	21%	18%	15%	20%	
Phase I	29%	28%	27%	26%	30%	27%	24%	20%	18%	19%	24%	27%	22%	14%	11%	16%	13%	18%	15%	13%	16%	
Regular Phase II	52%	49%	48%	39%	53%	49%	44%	37%	36%	41%	42%	48%	40%	34%	30%	40%	33%	40%	29%	31%	37%	
Direct Phase II																					17%	28%
Phase IIB																					32%	40%
Fast track	32%	17%	35%	28%	29%	27%	22%	18%	15%	21%	18%	32%	23%	16%	10%	16%	16%	22%	20%	13%	19%	
CRP																					22%	29%
STTR	26%	28%	24%	28%	33%	37%	28%	38%	25%	21%	16%	19%	21%	22%	19%	23%	20%	22%	18%	16%	18%	
Phase I	25%	27%	23%	26%	30%	33%	27%	37%	22%	20%	14%	16%	19%	20%	16%	20%	19%	20%	16%	14%	16%	



# Research and training grants

## Success rates by mechanism and selected activity codes

(continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Regular Phase II	34%	35%	30%	42%	49%	63%	43%	49%	49%	26%	28%	39%	30%	35%	36%	39%	26%	42%	36%	31%	39%
Phase IIB																				100%	0%
Fast track		0%	14%	22%	25%	0%	28%	38%	24%	25%	11%	10%	15%	23%	10%	34%	29%	8%	16%	15%	17%
Research Centers	36%	42%	40%	49%	53%	40%	44%	31%	39%	34%	34%	40%	34%	37%	37%	33%	31%	38%	35%	36%	30%
Research Career Awards	51%	50%	46%	43%	46%	46%	44%	36%	35%	31%	31%	35%	38%	36%	32%	32%	29%	30%	31%	31%	31%
K01	35%	34%	39%	36%	43%	42%	43%	32%	31%	28%	32%	39%	36%	40%	34%	32%	33%	34%	34%	32%	32%
K02	53%	57%	71%	54%	56%	46%	48%	47%	38%	35%	42%	38%	36%	29%	38%	26%	23%	40%	19%	22%	56%
K07	49%	44%	43%	41%	36%	39%	36%	20%	22%	24%	26%	34%	39%	22%	25%	7%	26%	18%	25%	27%	15%
K08	55%	58%	52%	50%	50%	52%	47%	40%	39%	34%	36%	44%	47%	44%	42%	42%	36%	40%	40%	38%	44%
K12	100%	45%	36%	24%	43%	35%	46%	31%	28%	34%	45%	53%	52%	49%	32%	47%	45%	26%	44%	45%	46%
K22		0%	9%	19%	38%	40%	33%	32%	29%	29%	27%	23%	26%	25%	30%	24%	20%	15%	23%	24%	19%
K23		100%	42%	49%	46%	47%	42%	36%	34%	27%	33%	38%	44%	38%	34%	37%	32%	38%	35%	36%	34%
K24			44%	45%	45%	44%	45%	42%	51%	44%	47%	50%	47%	61%	45%	46%	39%	49%	48%	57%	40%
K25				42%	56%	52%	42%	30%	33%	31%	35%	48%	22%	30%	23%	25%	29%	27%	23%	25%	24%
K99										100%	20%	23%	29%	25%	22%	23%	22%	22%	22%	23%	23%
All Other Ks	66%	70%	54%	49%	51%	59%	56%	49%	60%	48%	49%	67%	66%	47%	47%	42%	53%	33%	36%	44%	41%
All Other Research Grants	57%	49%	53%	51%	50%	52%	53%	44%	43%	40%	54%	56%	55%	27%	40%	38%	38%	43%	44%	42%	42%
Training, Individual	40%	41%	45%	47%	49%	44%	39%	35%	31%	29%	30%	33%	32%	30%	29%	28%	28%	29%	26%	26%	28%
F30	60%	61%	63%	71%	81%	69%	57%	49%	44%	40%	45%	46%	49%	40%	35%	37%	40%	39%	35%	37%	39%
F31	46%	48%	51%	52%	58%	53%	43%	39%	31%	30%	34%	34%	36%	31%	34%	28%	30%	28%	25%	24%	26%



## Research and training grants Success rates by mechanism and selected activity codes (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
F32	38%	39%	44%	45%	45%	39%	37%	33%	30%	27%	26%	30%	27%	28%	26%	26%	24%	28%	25%	26%	28%
F33	35%	21%	35%	35%	44%	42%	53%	44%	36%	26%	52%	50%	50%	14%	17%	60%	40%	25%	17%	0%	0%
All Other Fs	47%	59%	48%	54%	42%	33%	67%	21%	33%	15%	75%	0%	18%	0%	9%	25%	0%	0%	0%	25%	26%
Training, Institutional	62%	64%	63%	66%	63%	58%	54%	48%	43%	44%	48%	50%	50%	54%	48%	48%	42%	53%	49%	52%	51%
T32	64%	64%	64%	67%	62%	58%	53%	49%	42%	42%	49%	48%	50%	52%	47%	48%	42%	52%	49%	53%	51%
T34	50%	53%	51%	47%	70%	54%	48%	50%	36%	33%	47%	31%	33%	50%	29%	48%	48%	47%	32%	32%	35%
All Other Ts	39%	74%	65%	70%	73%	72%	66%	37%	60%	62%	34%	78%	63%	74%	65%	48%	38%	65%	57%	56%	54%



# Research and training grants

## Funding for competing awards by mechanism and selected activity codes FY 1998 - 2004

(\$ Thousands)

	1998	1999	2000	2001	2002	2003	2004
All Research Grants	\$2,640,209	\$3,540,438	\$4,040,969	\$4,215,554	\$4,453,778	\$5,346,788	\$5,126,408
Research Projects Grants	\$1,920,127	\$2,515,764	\$2,911,899	\$3,029,002	\$3,183,080	\$3,512,696	\$3,576,515
R01	\$1,453,277	\$1,923,185	\$2,100,837	\$2,235,378	\$2,280,111	\$2,517,170	\$2,399,642
R15	\$1,890	\$1,106	\$2,655	\$6,113	\$25,280	\$30,467	\$37,633
R21	\$37,399	\$65,440	\$91,912	\$144,331	\$191,930	\$248,282	\$293,375
All Other RPGs	\$427,561	\$526,033	\$716,495	\$643,180	\$685,759	\$716,778	\$845,865
SBIR	\$155,252	\$210,169	\$215,876	\$262,655	\$279,031	\$307,182	\$319,429
Phase I	\$68,351	\$89,951	\$108,219	\$106,846	\$114,966	\$141,724	\$151,945
Regular Phase II	\$85,777	\$115,224	\$102,408	\$149,828	\$154,608	\$156,102	\$158,014
Fast track	\$1,123	\$4,993	\$5,249	\$5,980	\$9,458	\$9,356	\$9,470
STTR	\$14,254	\$13,719	\$16,882	\$19,723	\$20,305	\$20,469	\$50,350
Phase I	\$8,722	\$8,677	\$10,121	\$11,051	\$11,092	\$13,121	\$32,923
Regular Phase II	\$5,532	\$4,942	\$6,479	\$8,451	\$9,213	\$5,911	\$14,689
Fast track		\$100	\$282	\$221	\$0	\$1,437	\$2,738
Research Centers	\$261,119	\$436,462	\$385,817	\$516,578	\$473,194	\$613,651	\$664,420
Research Career Awards	\$56,398	\$81,232	\$106,014	\$102,892	\$133,734	\$128,679	\$137,510
K01	\$8,608	\$10,992	\$13,838	\$17,320	\$20,365	\$25,555	\$21,629
K02	\$5,492	\$6,016	\$5,241	\$6,843	\$5,787	\$5,617	\$6,503
K07	\$4,051	\$1,738	\$3,873	\$2,776	\$3,257	\$3,486	\$3,661
K08	\$29,642	\$28,448	\$30,397	\$31,660	\$37,399	\$36,472	\$35,881
K12	\$6,477	\$6,012	\$8,507	\$3,612	\$21,543	\$10,695	\$18,701
K22		\$668	\$2,969	\$4,504	\$6,706	\$6,805	\$6,691



# Research and training grants

## Funding for competing awards by mechanism and selected activity codes FY 1998 - 2004 (continued)

(\$ Thousands)

	1998	1999	2000	2001	2002	2003	2004
K23	\$133	\$11,118	\$24,784	\$24,491	\$27,167	\$29,554	\$31,654
K24		\$8,258	\$8,117	\$6,746	\$5,721	\$5,025	\$5,952
K25			\$974	\$2,828	\$2,636	\$2,502	\$3,104
All Other Ks	\$1,995	\$7,982	\$7,314	\$2,111	\$3,154	\$2,968	\$3,733
All Other Research Grants	\$233,059	\$283,092	\$404,481	\$284,704	\$364,434	\$764,111	\$378,184
Training, Individual	\$30,507	\$37,605	\$39,456	\$41,689	\$38,401	\$47,224	\$50,461
F30	\$427	\$234	\$601	\$669	\$1,025	\$1,161	\$1,747
F31	\$4,708	\$6,077	\$7,152	\$10,868	\$11,004	\$12,944	\$15,418
F32	\$23,971	\$29,848	\$30,187	\$28,899	\$25,747	\$31,805	\$32,305
F33	\$369	\$528	\$448	\$623	\$452	\$896	\$648
All Other Fs	\$1,033	\$917	\$1,069	\$631	\$173	\$417	\$344
Training, Institutional	\$68,599	\$80,690	\$111,194	\$103,927	\$119,031	\$119,605	\$114,593
T32	\$61,384	\$74,751	\$100,984	\$97,012	\$108,450	\$111,881	\$104,816
T34	\$4,706	\$4,488	\$6,067	\$4,356	\$7,085	\$4,456	\$3,202
All Other Ts	\$2,509	\$1,450	\$4,143	\$2,559	\$3,495	\$3,268	\$6,576
Direct Phase II							
Phase IIB							
CRP							
Phase IIB							



## Research and training grants

### Funding for competing awards by mechanism and selected activity codes FY 2005 - 2017

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All Research Grants	\$4,940,410	\$4,704,773	\$5,302,865	\$5,112,121	\$5,175,587	\$5,369,385	\$5,008,801	\$5,328,005	\$4,648,408	\$6,030,416	\$5,529,185	\$6,535,218	\$6,886,672
Research Projects Grants	\$3,405,275	\$3,358,339	\$3,718,570	\$3,588,320	\$3,712,419	\$3,953,126	\$3,751,174	\$3,811,804	\$3,513,048	\$4,494,170	\$4,300,146	\$5,025,523	\$5,283,711
R01	\$2,264,288	\$2,132,780	\$2,411,868	\$2,333,031	\$2,359,732	\$2,553,186	\$2,263,521	\$2,289,859	\$2,025,034	\$2,246,730	\$2,417,588	\$2,799,732	\$2,818,033
R15	\$39,741	\$37,939	\$45,229	\$44,172	\$37,300	\$52,352	\$77,504	\$78,318	\$76,426	\$88,405	\$110,021	\$117,886	\$108,205
R21	\$291,666	\$299,244	\$377,946	\$362,189	\$309,857	\$359,470	\$368,623	\$422,633	\$382,713	\$443,814	\$457,640	\$491,801	\$405,424
All Other RPGs	\$809,581	\$888,376	\$883,528	\$848,927	\$1,005,531	\$988,117	\$1,041,525	\$1,020,994	\$1,028,874	\$1,715,220	\$1,314,896	\$1,616,104	\$1,952,049
SBIR	\$289,912	\$309,217	\$266,131	\$303,471	\$302,729	\$292,242	\$271,015	\$321,874	\$264,370	\$332,235	\$315,215	\$387,962	\$446,225
Phase I	\$121,650	\$112,492	\$112,171	\$128,090	\$128,684	\$129,218	\$123,802	\$154,238	\$114,040	\$144,793	\$117,111	\$121,273	\$130,684
Regular Phase II	\$163,696	\$189,932	\$145,387	\$161,294	\$158,315	\$146,229	\$137,153	\$153,650	\$136,349	\$170,387	\$179,947	\$146,728	\$151,036
Direct Phase II												\$74,800	\$94,532
Phase IIB												\$18,677	\$18,813
Fast track	\$4,566	\$6,794	\$8,574	\$14,086	\$15,730	\$16,795	\$10,060	\$13,986	\$13,981	\$17,055	\$18,158	\$17,348	\$33,616
CRP												\$9,136	\$17,544
STTR	\$39,379	\$42,343	\$38,415	\$39,354	\$36,866	\$42,128	\$40,113	\$44,939	\$37,666	\$59,093	\$57,551	\$79,148	\$69,908



# Research and training grants

## Funding for competing awards by mechanism and selected activity codes FY 2005 - 2017

(continued)

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Phase I		\$22,772	\$27,612	\$22,214	\$16,920	\$19,499	\$21,620	\$18,322	\$23,858	\$24,139	\$35,829	\$33,782	\$44,317	\$40,461
Regular Phase II		\$14,957	\$13,492	\$15,126	\$21,966	\$16,244	\$18,207	\$20,978	\$18,240	\$10,985	\$22,182	\$21,597	\$29,090	\$25,307
Phase IIB													\$875	\$0
Fast track		\$1,650	\$1,238	\$1,075	\$468	\$1,123	\$2,301	\$814	\$2,841	\$2,542	\$1,082	\$2,172	\$4,866	\$4,140
Research Centers		\$597,085	\$542,540	\$727,274	\$533,545	\$553,181	\$553,625	\$392,183	\$623,288	\$449,207	\$519,794	\$492,847	\$502,779	\$533,897
Research Career Awards		\$166,526	\$131,061	\$161,356	\$148,795	\$137,529	\$149,263	\$143,006	\$154,649	\$133,705	\$135,339	\$144,394	\$172,826	\$178,145
K01		\$24,324	\$22,677	\$22,903	\$21,927	\$18,685	\$24,378	\$19,779	\$22,586	\$21,516	\$27,634	\$28,444	\$29,218	\$30,292
K02		\$5,093	\$4,406	\$3,412	\$3,399	\$3,268	\$2,264	\$3,162	\$1,683	\$1,459	\$1,957	\$876	\$797	\$1,588
K07		\$5,223	\$5,240	\$2,992	\$3,805	\$2,962	\$2,228	\$3,102	\$713	\$3,231	\$1,856	\$2,917	\$2,624	\$1,630
K08		\$35,642	\$29,461	\$25,345	\$30,179	\$31,027	\$30,788	\$26,461	\$23,254	\$19,650	\$24,954	\$26,471	\$27,198	\$33,828
K12		\$22,398	\$10,413	\$23,597	\$11,846	\$10,960	\$12,244	\$8,853	\$22,858	\$14,078	\$4,066	\$10,771	\$14,597	\$15,035
K22		\$7,410	\$7,601	\$5,967	\$4,066	\$4,743	\$5,171	\$4,177	\$4,239	\$5,500	\$5,664	\$8,577	\$8,579	\$7,497
K23		\$32,796	\$25,804	\$31,122	\$31,636	\$33,659	\$31,635	\$31,037	\$31,821	\$28,555	\$32,568	\$33,702	\$35,666	\$39,843
K24		\$10,763	\$8,599	\$9,649	\$7,777	\$6,693	\$10,771	\$6,634	\$8,110	\$6,707	\$7,290	\$6,984	\$7,786	\$5,447
K25		\$4,953	\$4,289	\$3,695	\$3,072	\$1,288	\$2,896	\$2,688	\$2,676	\$2,482	\$2,329	\$1,759	\$2,190	\$1,844
K99			\$90	\$16,283	\$17,195	\$19,754	\$19,185	\$18,730	\$21,550	\$21,136	\$26,297	\$22,826	\$26,586	\$27,257
All Other Ks		\$17,925	\$12,482	\$16,391	\$13,894	\$4,490	\$7,704	\$18,382	\$15,160	\$9,391	\$723	\$1,066	\$17,585	\$13,885
All Other Research Grants		\$442,233	\$321,273	\$391,119	\$498,636	\$432,863	\$379,000	\$411,311	\$371,451	\$250,412	\$489,785	\$219,032	\$366,980	\$374,786
Training, Individual		\$50,799	\$52,760	\$52,239	\$52,932	\$49,118	\$53,406	\$53,062	\$53,695	\$53,764	\$57,533	\$59,179	\$63,341	\$70,560
F30		\$1,555	\$1,866	\$2,818	\$3,965	\$5,332	\$4,730	\$3,695	\$4,888	\$5,595	\$6,311	\$7,762	\$9,186	\$8,721



Research and training grants

Funding for competing awards by mechanism and selected activity codes FY 2005 - 2017  
(continued)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
F31	\$14,620	\$16,836	\$18,075	\$17,128	\$16,783	\$16,389	\$18,357	\$17,986	\$19,235	\$19,324	\$23,014	\$23,458	\$26,908
F32	\$33,239	\$33,521	\$30,523	\$31,357	\$26,565	\$32,198	\$30,798	\$30,230	\$28,842	\$31,794	\$28,341	\$29,305	\$33,511
F33	\$665	\$415	\$676	\$482	\$326	\$90	\$109	\$461	\$92	\$104	\$62	\$0	\$0
All Other Fs	\$720	\$122	\$147	\$0	\$112	\$0	\$104	\$130	\$0	\$0	\$0	\$1,391	\$1,420
Training, Institutional	\$137,330	\$105,865	\$140,154	\$119,521	\$124,893	\$164,567	\$105,569	\$123,185	\$102,040	\$121,550	\$125,997	\$127,968	\$130,658
T32	\$126,103	\$94,820	\$127,800	\$108,224	\$111,197	\$118,841	\$93,938	\$100,636	\$88,371	\$108,230	\$117,196	\$113,311	\$107,497
T34	\$5,512	\$2,874	\$6,167	\$3,462	\$3,934	\$7,929	\$1,973	\$3,828	\$3,191	\$2,535	\$5,884	\$3,153	\$3,236
All Other Ts	\$5,715	\$8,171	\$6,187	\$7,835	\$9,762	\$37,797	\$9,658	\$18,721	\$10,478	\$10,785	\$2,918	\$11,504	\$19,925



## Research and training grants

### Average cost of competing awards by mechanism and selected activity codes FY 1998 - 2004

	1998	1999	2000	2001	2002	2003	2004
R01	\$262,000	\$282,000	\$305,000	\$328,000	\$342,000	\$347,000	\$353,000
R15	\$63,000	\$111,000	\$92,000	\$102,000	\$135,000	\$142,000	\$195,000
R21	\$148,000	\$155,000	\$170,000	\$186,000	\$172,000	\$191,000	\$197,000
All Other RPGs	\$252,000	\$402,000	\$547,000	\$445,000	\$479,000	\$441,000	\$536,000
Phase I	\$99,000	\$109,000	\$119,000	\$126,000	\$131,000	\$144,000	\$156,000
Regular Phase II	\$381,000	\$413,000	\$443,000	\$434,000	\$462,000	\$477,000	\$523,000
Fast track	\$102,000	\$111,000	\$154,000	\$157,000	\$189,000	\$153,000	\$161,000
Phase I	\$99,000	\$111,000	\$118,000	\$127,000	\$137,000	\$138,000	\$153,000
Regular Phase II	\$263,000	\$275,000	\$324,000	\$282,000	\$318,000	\$328,000	\$459,000
Fast track		\$100,000	\$141,000	\$221,000		\$287,000	\$183,000
K01	\$96,000	\$103,000	\$101,000	\$108,000	\$114,000	\$118,000	\$121,000
K02	\$87,000	\$94,000	\$99,000	\$105,000	\$118,000	\$117,000	\$120,000
K07	\$104,000	\$109,000	\$125,000	\$126,000	\$116,000	\$129,000	\$118,000
K08	\$95,000	\$114,000	\$122,000	\$124,000	\$128,000	\$130,000	\$134,000
K12	\$341,000	\$316,000	\$448,000	\$361,000	\$490,000	\$446,000	\$567,000
K22		\$134,000	\$141,000	\$136,000	\$143,000	\$145,000	\$142,000
K23	\$133,000	\$129,000	\$129,000	\$133,000	\$139,000	\$138,000	\$140,000
K24		\$102,000	\$105,000	\$116,000	\$119,000	\$126,000	\$119,000
K25			\$122,000	\$123,000	\$120,000	\$125,000	\$129,000
All Other Ks	\$95,000	\$174,000	\$156,000	\$111,000	\$143,000	\$135,000	\$138,000
F30	\$22,000	\$23,000	\$27,000	\$27,000	\$31,000	\$33,000	\$36,000
F31	\$19,000	\$24,000	\$25,000	\$27,000	\$28,000	\$31,000	\$32,000



Research and training grants

Average cost of competing awards by mechanism and selected activity codes FY 1998 - 2004  
(continued)

	1998	1999	2000	2001	2002	2003	2004
F32	\$28,000	\$34,000	\$35,000	\$38,000	\$42,000	\$44,000	\$45,000
F33	\$37,000	\$41,000	\$41,000	\$45,000	\$45,000	\$53,000	\$43,000
All Other Fs	\$36,000	\$38,000	\$36,000	\$42,000	\$58,000	\$52,000	\$57,000
T32	\$187,000	\$206,000	\$252,000	\$263,000	\$281,000	\$278,000	\$274,000
T34	\$261,000	\$224,000	\$289,000	\$272,000	\$354,000	\$343,000	\$229,000
All Other Ts	\$68,000	\$85,000	\$99,000	\$95,000	\$166,000	\$121,000	\$169,000
Direct Phase II Phase IIB							
CRP Phase IIB							



## Research and training grants

### Average cost of competing awards by mechanism and selected activity codes FY 2005 - 2017

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All Research Grants	\$369,000	\$376,000	\$384,000	\$385,000	\$418,000	\$418,000	\$421,000	\$433,066	\$415,074	\$479,480	\$438,268	\$478,140	\$508,542
Research Projects Grants	\$355,000	\$368,000	\$368,000	\$379,000	\$419,000	\$419,000	\$428,000	\$422,033	\$422,749	\$486,329	\$450,749	\$484,528	\$521,951
R01	\$361,000	\$363,000	\$382,000	\$395,000	\$409,000	\$420,000	\$430,000	\$428,813	\$421,882	\$443,492	\$449,784	\$476,631	\$487,971
R15	\$202,000	\$206,000	\$209,000	\$208,000	\$210,000	\$283,000	\$359,000	\$376,531	\$387,952	\$381,057	\$382,019	\$418,036	\$419,398
R21	\$195,000	\$195,000	\$204,000	\$206,000	\$218,000	\$216,000	\$218,000	\$218,754	\$216,100	\$220,474	\$221,403	\$221,632	\$222,029
All Other RPGs	\$496,000	\$580,000	\$513,000	\$537,000	\$669,000	\$656,000	\$655,000	\$657,857	\$667,233	\$888,715	\$726,462	\$809,266	\$862,212
SBIR	\$259,000	\$286,000	\$273,000	\$278,000	\$314,000	\$316,000	\$348,000	\$340,247	\$366,164	\$348,987	\$383,940	\$427,742	\$446,225
Phase I	\$156,000	\$164,000	\$171,000	\$174,000	\$198,000	\$211,000	\$231,000	\$231,241	\$230,384	\$222,075	\$227,842	\$230,557	\$238,040
Regular Phase II	\$525,000	\$535,000	\$523,000	\$560,000	\$607,000	\$595,000	\$676,000	\$692,118	\$766,005	\$744,049	\$746,667	\$760,251	\$778,535
Direct Phase II												\$890,471	\$867,267
Phase IIB												\$848,968	\$895,872
Fast track	\$163,000	\$166,000	\$209,000	\$210,000	\$292,000	\$251,000	\$240,000	\$245,365	\$285,334	\$240,211	\$275,114	\$258,927	\$332,828
STTR	\$208,000	\$224,000	\$230,000	\$248,000	\$258,000	\$278,000	\$332,000	\$301,602	\$269,044	\$292,540	\$302,902	\$323,053	\$320,677
CRP												\$609,034	\$674,768



## Research and training grants

### Average cost of competing awards by mechanism and selected activity codes FY 2005 - 2017 (continued)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Phase I	\$156,000	\$180,000	\$178,000	\$155,000	\$188,000	\$199,000	\$230,000	\$216,888	\$221,455	\$223,930	\$226,726	\$232,025	\$239,412
Regular Phase II	\$467,000	\$519,000	\$420,000	\$478,000	\$508,000	\$569,000	\$567,000	\$651,444	\$578,178	\$599,518	\$696,683	\$786,213	\$744,321
Phase IIB												\$875,076	\$0
Fast track	\$150,000	\$124,000	\$179,000	\$117,000	\$161,000	\$210,000	\$204,000	\$258,239	\$211,844	\$216,417	\$217,191	\$304,143	\$276,004
Research Centers	\$1,914,000	\$1,717,000	\$2,072,000	\$1,840,000	\$1,915,000	\$1,663,000	\$1,475,000	\$1,984,994	\$1,895,387	\$1,687,641	\$1,917,694	\$2,103,680	\$2,152,812
Research Career Awards	\$159,000	\$158,000	\$156,000	\$148,000	\$143,000	\$149,000	\$160,000	\$166,289	\$157,300	\$145,213	\$150,567	\$173,172	\$174,652
K01	\$123,000	\$126,000	\$125,000	\$127,000	\$130,000	\$132,000	\$131,000	\$134,441	\$134,474	\$141,710	\$141,514	\$144,646	\$149,224
K02	\$121,000	\$134,000	\$122,000	\$126,000	\$126,000	\$120,000	\$132,000	\$120,228	\$132,592	\$139,810	\$146,063	\$159,329	\$158,750
K07	\$141,000	\$150,000	\$130,000	\$131,000	\$142,000	\$140,000	\$164,000	\$142,659	\$146,857	\$142,764	\$153,550	\$154,353	\$163,014
K08	\$134,000	\$137,000	\$134,000	\$136,000	\$141,000	\$146,000	\$150,000	\$148,116	\$158,471	\$157,936	\$155,713	\$167,892	\$173,479
K12	\$640,000	\$434,000	\$492,000	\$623,000	\$499,000	\$584,000	\$369,000	\$466,487	\$414,052	\$580,870	\$307,735	\$540,612	\$469,839
K22	\$148,000	\$152,000	\$149,000	\$156,000	\$164,000	\$167,000	\$161,000	\$169,568	\$161,762	\$171,648	\$164,938	\$171,586	\$170,390
K23	\$141,000	\$143,000	\$143,000	\$146,000	\$149,000	\$150,000	\$153,000	\$156,752	\$160,424	\$162,028	\$163,603	\$172,298	\$182,765
K24	\$142,000	\$154,000	\$156,000	\$159,000	\$164,000	\$169,000	\$171,000	\$159,011	\$163,583	\$169,544	\$155,199	\$152,660	\$160,201
K25	\$134,000	\$138,000	\$137,000	\$128,000	\$144,000	\$138,000	\$142,000	\$140,822	\$145,999	\$145,555	\$146,593	\$156,439	\$153,653
K99		\$90,000	\$89,000	\$96,000	\$97,000	\$99,000	\$105,000	\$101,651	\$104,119	\$106,899	\$109,742	\$115,093	\$115,987
All Other Ks	\$246,000	\$520,000	\$455,000	\$366,000	\$237,000	\$249,000	\$497,000	\$561,467	\$361,207	\$120,576	\$213,107	\$549,528	\$514,247
All Other Research Grants	\$399,000	\$329,000	\$332,000	\$392,000	\$378,000	\$387,000	\$382,000	\$398,553	\$266,396	\$519,942	\$257,988	\$404,608	\$401,700
Training, Individual	\$41,000	\$42,000	\$41,000	\$41,000	\$42,000	\$43,000	\$44,000	\$43,303	\$43,463	\$44,599	\$43,707	\$44,986	\$46,148
F30	\$34,000	\$36,000	\$35,000	\$35,000	\$37,000	\$36,000	\$39,000	\$36,480	\$38,854	\$38,018	\$38,809	\$39,594	\$40,754



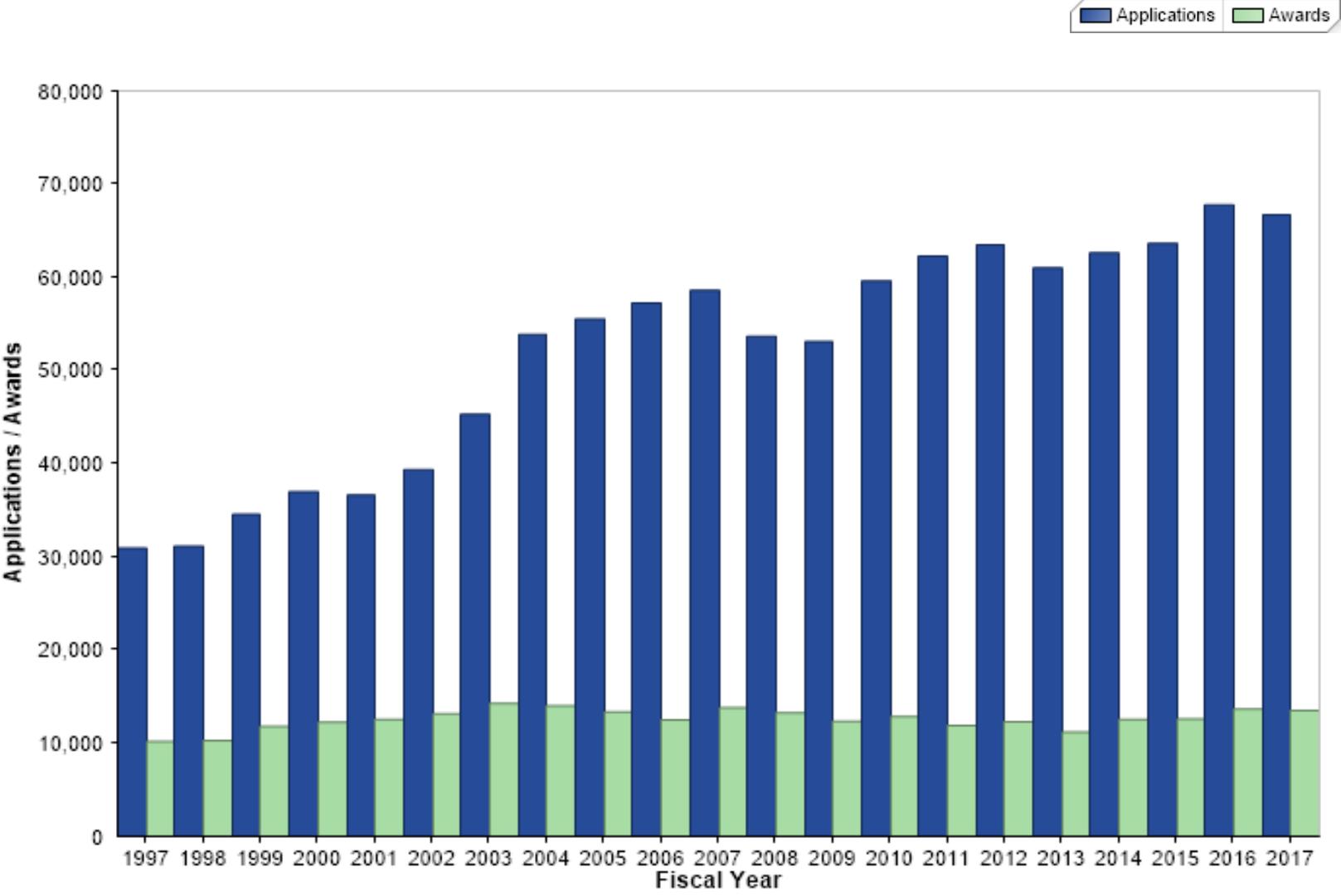
Research and training grants

Average cost of competing awards by mechanism and selected activity codes FY 2005 - 2017  
(continued)

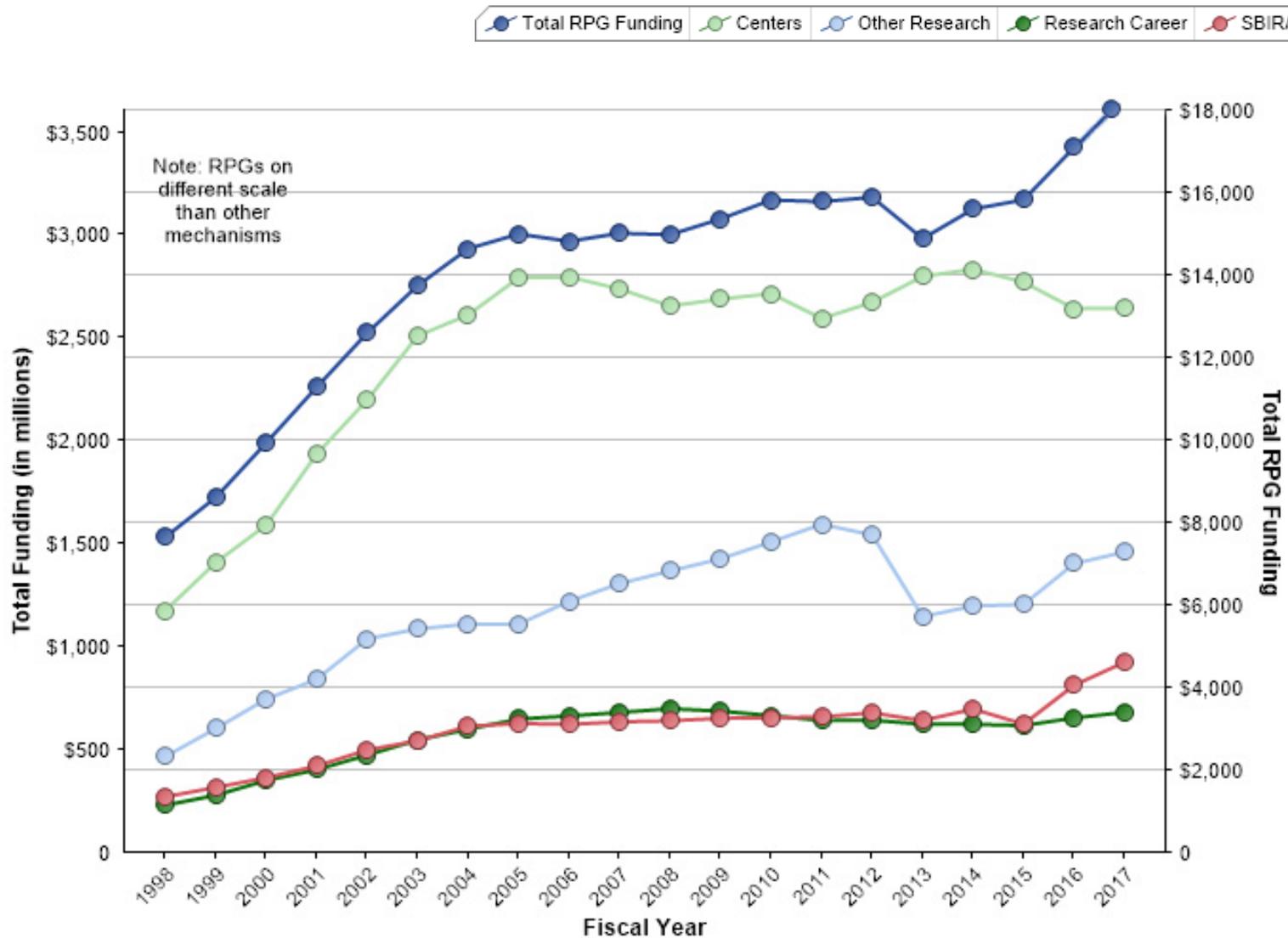
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
F31	\$33,000	\$34,000	\$33,000	\$33,000	\$34,000	\$35,000	\$36,000	\$35,616	\$35,887	\$36,392	\$36,472	\$37,594	\$38,276
F32	\$46,000	\$48,000	\$49,000	\$49,000	\$50,000	\$50,000	\$52,000	\$51,237	\$51,968	\$53,797	\$54,293	\$56,793	\$58,483
F33	\$48,000	\$46,000	\$52,000	\$54,000	\$47,000	\$45,000	\$55,000	\$51,239	\$45,821	\$52,007	\$62,011	\$0	\$0
All Other Fs	\$72,000	\$61,000	\$49,000		\$56,000	\$0	\$52,000	\$65,090	\$0	\$0	\$0	\$38,649	\$36,402
Training, Institutional	\$312,000	\$261,000	\$300,000	\$286,000	\$271,000	\$372,000	\$283,000	\$316,672	\$301,003	\$291,486	\$335,100	\$306,878	\$350,290
T32	\$324,000	\$272,000	\$307,000	\$296,000	\$282,000	\$312,000	\$294,000	\$306,816	\$312,264	\$298,977	\$347,762	\$302,972	\$345,649
T34	\$424,000	\$287,000	\$363,000	\$385,000	\$281,000	\$441,000	\$329,000	\$382,843	\$265,928	\$281,695	\$490,321	\$286,644	\$323,619
All Other Ts	\$150,000	\$174,000	\$182,000	\$182,000	\$188,000	\$880,000	\$202,000	\$367,086	\$238,143	\$234,448	\$108,065	\$359,489	\$383,175



# Research grants Competing applications and awards

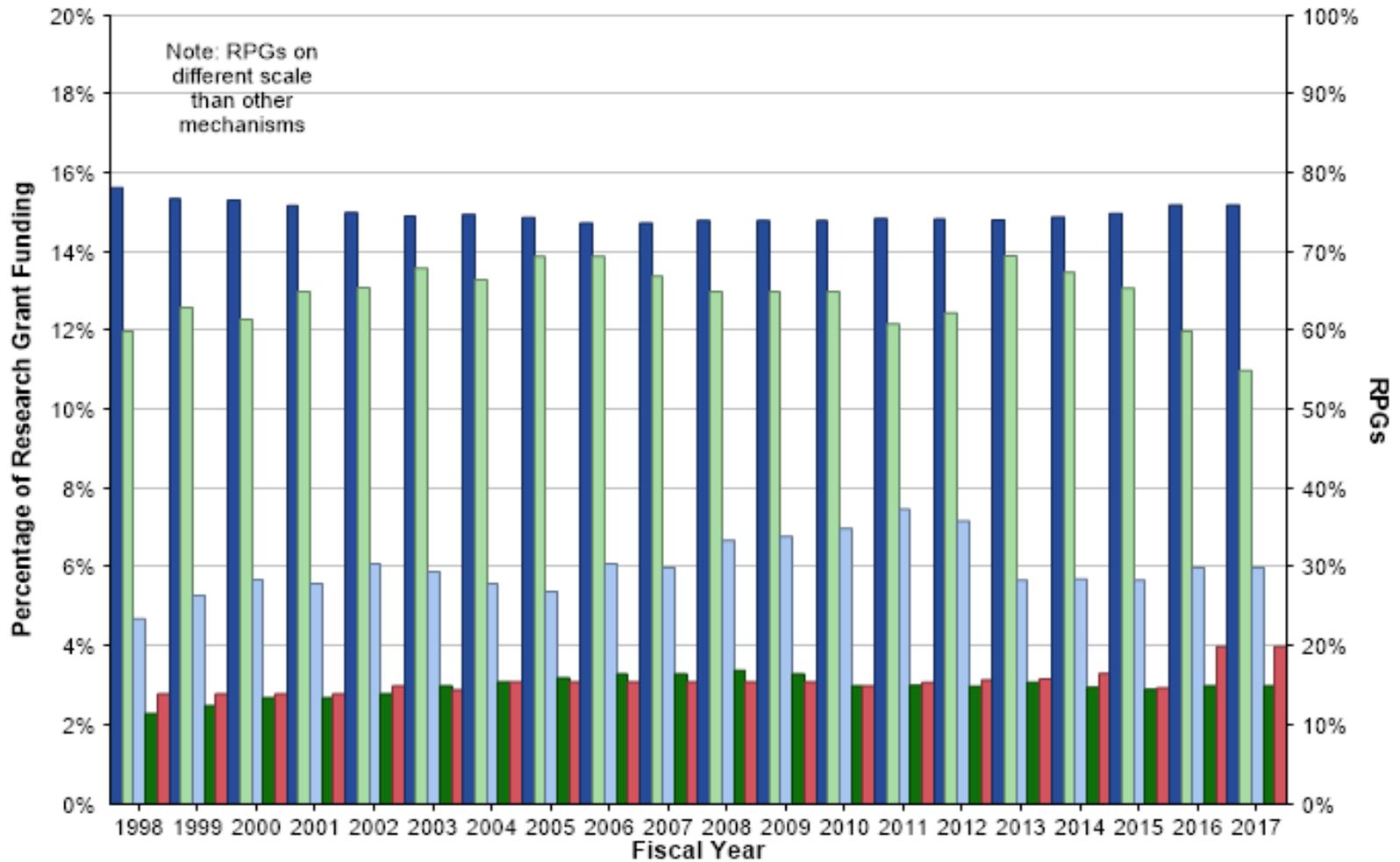


# Research grants Funding, by mechanism



# Research grants Funding percentage, by mechanism

■ RPGs 
 ■ Centers 
 ■ Other Research 
 ■ Research Career 
 ■ SBIR/STTR



## Research grants Awards by Institute / Center

Institute / Center	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
FIC	145	150	178	203	266	283	303	283	269	248	226	209	207	185	191	173	127	122	132	138
NCATS															210	197	174	189	215	242
NCCIH		31	115	178	220	230	276	309	318	306	275	277	262	249	250	226	228	215	218	212
NCI	4,774	5,290	5,536	5,846	6,153	6,376	6,717	6,711	6,697	6,736	6,631	6,336	6,194	6,162	6,115	5,898	5,854	5,772	5,714	5,739
NCRR	700	755	838	870	1,126	1,147	1,052	1,069	1,105	1,060	900	902	883	863						
NEI	1,240	1,283	1,340	1,379	1,417	1,472	1,522	1,475	1,431	1,387	1,306	1,278	1,317	1,297	1,263	1,244	1,283	1,284	1,339	1,343
NHGRI	196	201	210	208	232	270	305	322	329	341	351	354	362	340	363	356	370	378	384	408
NHLBI	3,851	4,189	4,477	4,763	5,011	5,163	5,223	4,966	4,794	4,723	4,738	4,856	4,820	4,768	4,673	4,325	3,990	4,066	4,341	4,554
NIA	1,341	1,380	1,428	1,590	1,645	1,725	1,776	1,847	1,848	1,965	1,935	1,897	1,791	1,851	1,843	1,785	1,788	1,821	2,042	2,399
NIAAA	669	708	767	819	848	876	901	895	904	915	915	902	875	862	825	829	850	832	835	869
NIAID	3,361	3,547	3,781	3,850	4,094	4,613	4,848	4,850	4,804	4,928	4,881	4,615	4,616	4,601	4,730	4,503	4,419	4,536	4,883	4,872
NIAMS	957	991	1,050	1,145	1,181	1,224	1,272	1,259	1,250	1,273	1,291	1,287	1,273	1,267	1,256	1,272	1,255	1,212	1,191	1,195
NIBIB					287	732	743	764	766	792	741	676	661	632	688	703	721	743	796	797
NICHD	1,733	1,813	1,933	2,081	2,264	2,343	2,338	2,382	2,333	2,370	2,341	2,253	2,233	2,226	2,242	2,182	2,091	2,047	2,100	2,130
NIDA	1,318	1,412	1,506	1,655	1,745	1,845	1,863	1,860	1,840	1,932	1,969	1,925	1,904	1,905	1,941	1,822	1,771	1,685	1,707	1,741
NIDCD	688	772	824	906	986	1,018	1,026	999	966	982	939	926	947	946	924	899	874	856	890	887
NIDCR	603	601	671	739	747	799	839	847	791	778	788	753	748	755	702	647	630	655	674	672
NIDDK	2,799	3,009	3,240	3,393	3,560	3,905	4,116	4,144	4,043	3,942	3,793	3,638	3,722	3,689	3,579	3,406	3,324	3,328	3,343	3,346
NIEHS	622	632	707	754	797	792	786	750	767	791	788	759	849	839	859	848	888	877	870	841
NIGMS	3,932	4,069	4,195	4,369	4,534	4,536	4,588	4,627	4,572	4,657	4,626	4,538	4,539	4,414	4,716	4,531	4,588	4,663	4,763	4,944
NIMH	2,042	2,200	2,435	2,653	2,838	2,980	3,093	3,084	2,974	2,990	2,976	2,873	2,842	2,747	2,791	2,697	2,591	2,467	2,532	2,544
NIMHD					48	85	102	133	125	114	135	164	191	236	252	282	307	284	246	309
NINDS	2,425	2,518	2,726	2,885	3,122	3,230	3,319	3,291	3,395	3,425	3,338	3,220	3,215	3,284	3,282	3,273	3,253	3,317	3,364	3,403
NINR	228	255	277	312	332	359	359	357	340	331	342	315	283	291	300	281	264	253	252	250
NLM	76	68	67	66	67	78	88	99	101	118	119	104	99	98	105	95	101	111	104	109
OD							9	22	35	77	93	113	131	135	400	393	426	453	496	501
NIH Total	33,700	35,874	38,301	40,664	43,520	46,081	47,464	47,345	46,797	47,181	46,437	45,170	44,964	44,642	44,500	42,867	42,167	42,166	43,431	44,445



# Research grants Funding by Institute / Center

(\$ Millions)

Institute / Center	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
FIC	\$7	\$9	\$13	\$16	\$24	\$31	\$36	\$36	\$34	\$35	\$35	\$35	\$46	\$54	\$41	\$52	\$34	\$39	\$32	\$28
NCATS															\$481	\$468	\$516	\$511	\$542	\$549
NCCAM		\$23	\$53	\$66	\$78	\$89	\$93	\$98	\$97	\$100	\$98	\$96	\$92	\$97	\$107	\$99	\$101	\$97	\$107	\$108
NCI	\$1,601	\$1,863	\$2,132	\$2,401	\$2,657	\$2,901	\$3,041	\$3,127	\$3,108	\$3,053	\$3,011	\$3,053	\$3,145	\$3,119	\$3,108	\$2,946	\$2,993	\$2,999	\$3,073	\$3,302
NCRR	\$417	\$494	\$569	\$734	\$891	\$995	\$1,016	\$1,076	\$1,155	\$1,176	\$1,190	\$1,199	\$1,202	\$1,191						
NEI	\$296	\$332	\$379	\$422	\$469	\$505	\$524	\$534	\$533	\$544	\$548	\$565	\$571	\$565	\$572	\$530	\$547	\$534	\$561	\$564
NHGRI	\$162	\$213	\$255	\$326	\$362	\$353	\$348	\$367	\$375	\$416	\$423	\$435	\$445	\$423	\$454	\$355	\$413	\$447	\$425	\$439
NHLBI	\$1,196	\$1,356	\$1,579	\$1,811	\$2,017	\$2,175	\$2,271	\$2,308	\$2,273	\$2,269	\$2,228	\$2,267	\$2,342	\$2,294	\$2,332	\$2,222	\$2,189	\$2,185	\$2,332	\$2,463
NIA	\$415	\$472	\$546	\$623	\$697	\$774	\$804	\$826	\$813	\$835	\$832	\$876	\$893	\$876	\$882	\$867	\$974	\$976	\$1,325	\$1,708
NIAAA	\$180	\$205	\$233	\$264	\$286	\$308	\$320	\$323	\$318	\$326	\$324	\$330	\$338	\$331	\$332	\$313	\$324	\$318	\$331	\$342
NIAID	\$975	\$1,096	\$1,318	\$1,481	\$1,621	\$1,860	\$2,357	\$2,479	\$2,546	\$2,568	\$2,569	\$2,601	\$2,631	\$2,700	\$2,719	\$2,469	\$2,771	\$2,763	\$2,983	\$3,112
NIAMS	\$231	\$254	\$283	\$313	\$343	\$370	\$397	\$400	\$400	\$408	\$409	\$427	\$427	\$430	\$440	\$410	\$434	\$434	\$434	\$449
NIBIB					\$101	\$258	\$266	\$273	\$271	\$273	\$268	\$265	\$269	\$261	\$293	\$282	\$304	\$328	\$328	\$337
NICHD	\$486	\$549	\$637	\$743	\$834	\$876	\$893	\$922	\$883	\$893	\$889	\$909	\$927	\$920	\$947	\$873	\$905	\$940	\$1,021	\$967
NIDA	\$397	\$457	\$515	\$589	\$648	\$706	\$720	\$738	\$721	\$743	\$749	\$776	\$811	\$794	\$821	\$801	\$818	\$809	\$829	\$844
NIDCD	\$162	\$186	\$211	\$239	\$272	\$292	\$299	\$307	\$300	\$302	\$300	\$309	\$318	\$316	\$320	\$304	\$318	\$312	\$332	\$338
NIDCR	\$148	\$163	\$183	\$212	\$238	\$259	\$275	\$277	\$268	\$271	\$278	\$286	\$298	\$291	\$292	\$277	\$278	\$280	\$292	\$300
NIDDK	\$725	\$832	\$953	\$1,104	\$1,240	\$1,343	\$1,435	\$1,461	\$1,427	\$1,405	\$1,379	\$1,415	\$1,494	\$1,570	\$1,575	\$1,488	\$1,508	\$1,539	\$1,580	\$1,639
NIEHS	\$212	\$238	\$275	\$310	\$357	\$372	\$371	\$375	\$374	\$379	\$389	\$400	\$422	\$414	\$423	\$385	\$398	\$450	\$407	\$412
NIGMS	\$933	\$1,036	\$1,189	\$1,352	\$1,491	\$1,590	\$1,645	\$1,680	\$1,668	\$1,696	\$1,671	\$1,712	\$1,731	\$1,702	\$2,135	\$1,982	\$2,038	\$2,106	\$2,231	\$2,333
NIMH	\$559	\$641	\$739	\$827	\$923	\$988	\$1,030	\$1,062	\$1,045	\$1,056	\$1,091	\$1,133	\$1,170	\$1,142	\$1,186	\$1,099	\$1,125	\$1,127	\$1,204	\$1,321
NIMHD					\$68	\$103	\$114	\$129	\$123	\$123	\$129	\$144	\$151	\$173	\$230	\$223	\$253	\$227	\$230	\$239
NINDS	\$627	\$732	\$847	\$963	\$1,089	\$1,178	\$1,203	\$1,245	\$1,252	\$1,291	\$1,293	\$1,310	\$1,338	\$1,313	\$1,334	\$1,265	\$1,301	\$1,315	\$1,407	\$1,490
NINR	\$56	\$63	\$77	\$92	\$103	\$111	\$113	\$116	\$111	\$110	\$111	\$112	\$110	\$111	\$111	\$102	\$104	\$105	\$108	\$113
NLM	\$16	\$17	\$18	\$21	\$24	\$26	\$30	\$32	\$32	\$36	\$38	\$35	\$36	\$32	\$35	\$34	\$32	\$33	\$41	\$54
OD							\$7	\$17	\$27	\$108	\$123	\$158	\$193	\$182	\$291	\$281	\$306	\$304	\$493	\$579
NIH Total	\$9,801	\$11,229	\$13,003	\$14,908	\$16,830	\$18,462	\$19,608	\$20,207	\$20,154	\$20,416	\$20,375	\$20,851	\$21,402	\$21,304	\$21,461	\$20,127	\$20,987	\$21,174	\$22,650	\$24,030



# Research Project Grants Awards by Institute / Center

Institute / Center	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
FIC	146	161	186	240	251	255	217	201	178	163	155	140	118	96	73	57	51	49	54
NCATS														10	37	37	37	53	62
NCCIH	17	72	121	142	153	201	225	240	229	194	193	190	180	178	166	171	157	161	155
NCI	4,225	4,413	4,564	4,725	4,887	5,186	5,286	5,293	5,359	5,224	5,001	4,913	4,929	4,907	4,763	4,673	4,651	4,585	4,534
NCRR	160	150	139	112	112	120	116	110	100	108	112	134	120						
NEI	1,032	1,074	1,120	1,163	1,198	1,242	1,200	1,156	1,124	1,069	1,067	1,103	1,092	1,053	1,038	1,053	1,064	1,111	1,106
NHGRI	132	127	116	116	151	176	191	204	232	257	264	265	246	252	240	246	242	267	285
NHLBI	3,380	3,597	3,894	4,115	4,223	4,232	4,039	3,929	3,832	3,837	3,936	3,885	3,787	3,706	3,445	3,140	3,238	3,451	3,587
NIA	1,104	1,144	1,282	1,322	1,366	1,397	1,465	1,470	1,564	1,550	1,475	1,368	1,431	1,415	1,391	1,375	1,389	1,540	1,836
NIAAA	584	633	679	713	721	740	731	736	755	750	731	714	696	647	655	667	656	637	653
NIAID	3,123	3,297	3,364	3,525	4,001	4,168	4,186	4,154	4,277	4,200	3,908	3,923	3,897	4,034	3,889	3,786	3,893	4,215	4,217
NIAMS	820	869	924	967	984	1,018	993	994	1,024	1,026	1,023	1,010	1,014	1,001	1,000	995	958	942	954
NIBIB				238	630	620	654	662	673	623	578	559	533	554	572	578	582	640	660
NICHD	1,479	1,548	1,659	1,785	1,812	1,750	1,775	1,728	1,737	1,751	1,674	1,617	1,591	1,606	1,540	1,481	1,478	1,502	1,598
NIDA	1,145	1,217	1,337	1,398	1,463	1,456	1,452	1,429	1,491	1,517	1,485	1,479	1,498	1,536	1,436	1,366	1,297	1,317	1,342
NIDCD	669	717	790	862	891	898	886	859	861	830	818	831	845	820	792	756	743	776	780
NIDCR	510	555	610	617	632	680	666	644	646	651	618	625	637	602	552	538	565	583	580
NIDDK	2,562	2,719	2,820	2,904	3,147	3,321	3,310	3,213	3,116	2,976	2,834	2,897	2,868	2,768	2,586	2,503	2,494	2,523	2,548
NIEHS	509	550	579	593	574	566	548	568	609	594	601	669	651	678	661	679	654	644	593
NIGMS	3,718	3,809	3,929	4,036	4,022	3,993	4,009	3,930	4,018	3,948	3,866	3,813	3,718	3,827	3,691	3,737	3,810	3,875	4,064
NIMH	1,564	1,781	1,956	2,098	2,191	2,260	2,255	2,170	2,210	2,233	2,189	2,157	2,092	2,188	2,141	2,052	1,957	2,038	2,044
NIMHD											12	39	52	54	62	93	100	127	206
NINDS	2,169	2,377	2,527	2,687	2,749	2,833	2,760	2,820	2,821	2,696	2,603	2,647	2,728	2,706	2,690	2,695	2,777	2,866	2,904
NINR	206	225	254	255	283	280	284	269	269	272	259	233	240	244	230	212	206	199	205
NLM									83	94	84	80	75	82	75	79	79	70	86
OD						9	22	35	77	93	113								
NIH Total	29,254	31,035	32,850	34,613	36,441	37,401	37,270	36,814	37,285	36,656	35,599	35,291	35,038	34,964	33,725	32,969	33,078	34,171	35,053

# Research Project Grants Awards by Institute / Center, sorted by average number

Legend:- <= 200 400 600 800 1000 1250 1500 1750 2000 2250 2500 2750 3000 3250 3500 4000 > 4000

Institute / Center	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
FIC	145	146	161	186	240	251	255	217	201	178	163	155	233	118	96	73	57	51	49	54
NCATS															10	37	37	37	53	62
NCCIH		17	72	121	142	153	201	225	240	229	194	193	140	180	178	166	171	157	161	155
NCI	3,835	4,225	4,413	4,564	4,725	4,887	5,186	5,286	5,293	5,359	5,224	5,001	4,913	4,929	4,907	4,763	4,673	4,651	4,585	4,534
NCRR	145	160	150	139	112	112	120	116	110	100	108	112	134	120						
NEI	1,003	1,032	1,074	1,120	1,163	1,198	1,242	1,200	1,156	1,124	1,069	1,067	1,103	1,092	1,053	1,038	1,053	1,064	1,111	1,106
NHGRI	134	132	127	116	116	151	176	191	204	232	257	264	190	246	252	240	246	242	267	285
NHLBI	3,777	3,380	3,597	3,894	4,115	4,223	4,232	4,039	3,929	3,832	3,837	3,936	3,885	3,787	3,706	3,445	3,140	3,238	3,451	3,587
NIA	1,081	1,104	1,144	1,282	1,322	1,366	1,397	1,465	1,470	1,564	1,550	1,475	1,368	1,431	1,415	1,391	1,375	1,389	1,540	1,836
NIAAA	562	584	633	679	713	721	740	731	736	755	750	731	714	696	647	655	667	656	637	653
NIAID	2,939	3,123	3,297	3,364	3,525	4,001	4,168	4,186	4,154	4,277	4,200	3,908	3,813	3,897	4,034	3,889	3,786	3,893	4,215	4,217
NIAMS	805	820	869	924	967	984	1,018	993	994	1,024	1,026	1,023	1,010	1,014	1,001	1,000	995	958	942	954
NIBIB					238	630	620	654	662	673	623	578	625	533	554	572	578	582	640	660
NICHD	1,398	1,479	1,548	1,659	1,785	1,812	1,750	1,775	1,728	1,737	1,751	1,674	1,617	1,591	1,606	1,540	1,481	1,478	1,502	1,598
NIDA	1,075	1,145	1,217	1,337	1,398	1,463	1,456	1,452	1,429	1,491	1,517	1,485	1,479	1,498	1,536	1,436	1,366	1,297	1,317	1,342
NIDCD	597	669	717	790	862	891	898	886	859	861	830	818	831	845	820	792	756	743	776	780
NIDCR	503	510	555	610	617	632	680	666	644	646	651	618	669	637	602	552	538	565	583	580
NIDDK	2,435	2,562	2,719	2,820	2,904	3,147	3,321	3,310	3,213	3,116	2,976	2,834	2,897	2,868	2,768	2,586	2,503	2,494	2,523	2,548
NIEHS	507	509	550	579	593	574	566	548	568	609	594	601	559	651	678	661	679	654	644	593
NIGMS	3,631	3,718	3,809	3,929	4,036	4,022	3,993	4,009	3,930	4,018	3,948	3,866	3,923	3,718	3,827	3,691	3,737	3,810	3,875	4,064
NIMH	1,458	1,564	1,781	1,956	2,098	2,191	2,260	2,255	2,170	2,210	2,233	2,189	2,157	2,092	2,188	2,141	2,052	1,957	2,038	2,044
NIMHD												12	39	52	54	62	93	100	127	206
NINDS	2,074	2,169	2,377	2,527	2,687	2,749	2,833	2,760	2,820	2,821	2,696	2,603	2,647	2,728	2,706	2,690	2,695	2,777	2,866	2,904
NINR	183	206	225	254	255	283	280	284	269	269	272	259	265	240	244	230	212	206	199	205
NLM									83	94	84	131	75	82	75	79	79	70	86	
OD							9	22	35	77	93	113	80	135	65	71	100	121	158	151



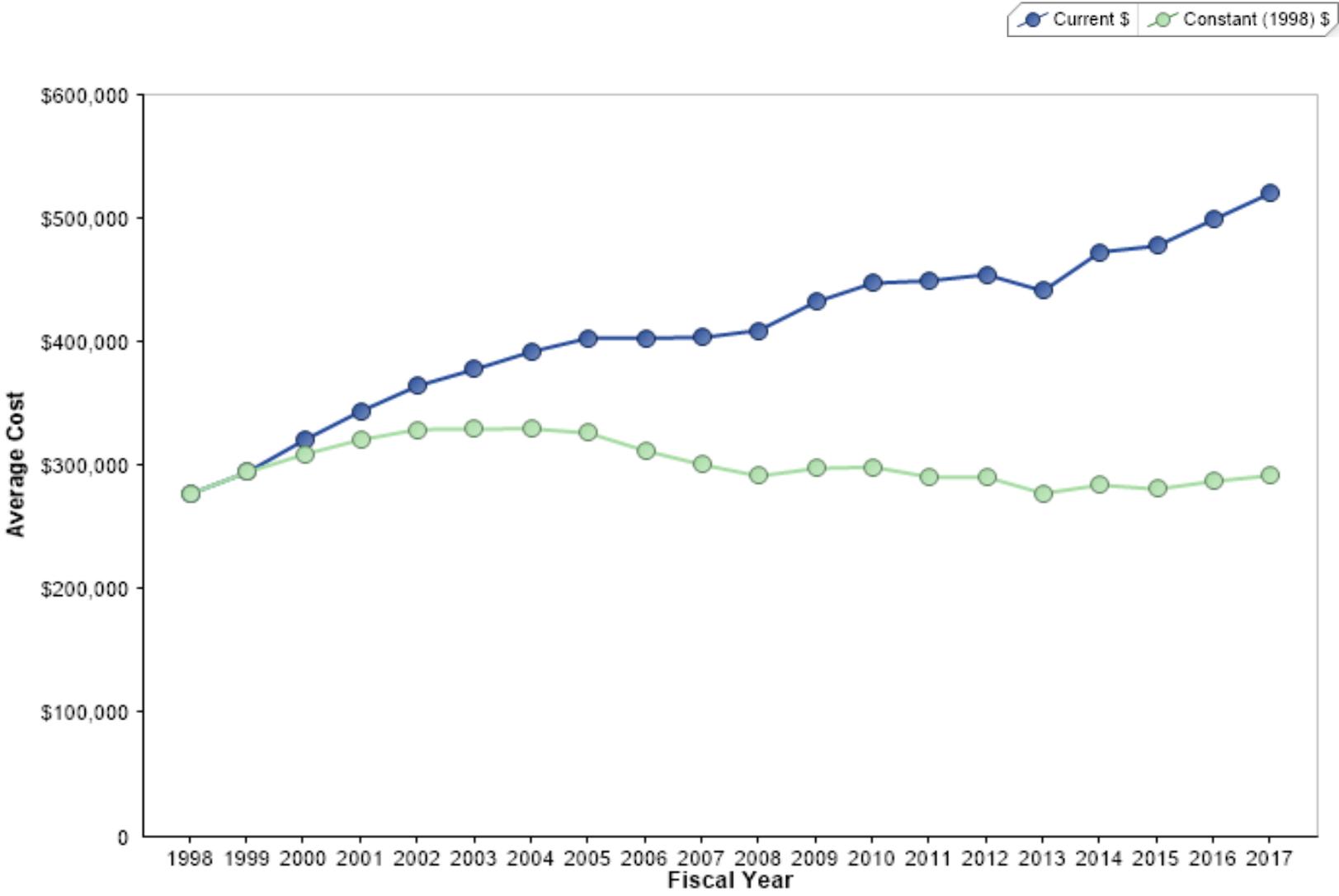
# Research Project Grants Funding by Institute / Center

(\$ Millions)

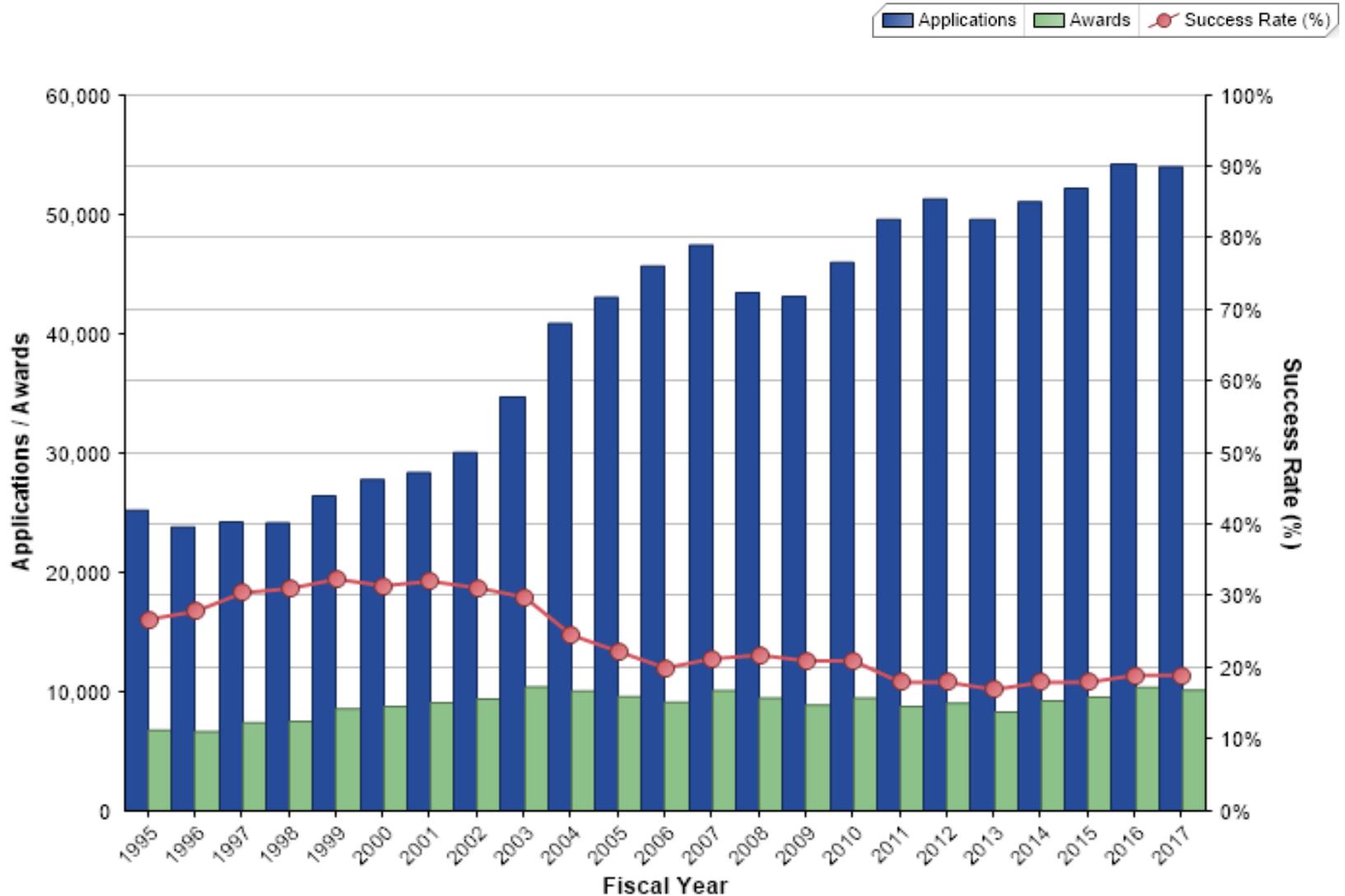
Institute / Center	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
FIC	\$7	\$8	\$11	\$13	\$20	\$26	\$27	\$24	\$22	\$19	\$18	\$18	\$18	\$17	\$15	\$11	\$11	\$11	\$13	\$15
NCATS															\$10	\$32	\$41	\$42	\$57	\$52
NCCAM		\$9	\$26	\$36	\$45	\$56	\$68	\$76	\$77	\$79	\$77	\$74	\$73	\$78	\$86	\$78	\$80	\$76	\$86	\$85
NCI	\$1,213	\$1,354	\$1,533	\$1,690	\$1,840	\$1,980	\$2,074	\$2,115	\$2,068	\$2,024	\$1,985	\$1,981	\$2,008	\$2,014	\$2,035	\$1,910	\$1,904	\$1,957	\$2,004	\$2,119
NCRR	\$34	\$40	\$41	\$41	\$35	\$37	\$40	\$39	\$35	\$31	\$33	\$32	\$35	\$33						
NEI	\$234	\$256	\$288	\$325	\$361	\$385	\$400	\$407	\$399	\$410	\$404	\$428	\$431	\$430	\$435	\$408	\$426	\$427	\$452	\$453
NHGRI	\$81	\$62	\$66	\$66	\$81	\$105	\$106	\$115	\$130	\$157	\$172	\$177	\$169	\$154	\$146	\$137	\$154	\$174	\$297	\$301
NHLBI	\$981	\$1,108	\$1,315	\$1,540	\$1,733	\$1,863	\$1,950	\$1,982	\$1,950	\$1,929	\$1,922	\$1,976	\$2,066	\$2,012	\$2,037	\$1,920	\$1,865	\$1,894	\$2,024	\$2,156
NIA	\$325	\$372	\$442	\$511	\$575	\$645	\$672	\$687	\$673	\$689	\$684	\$723	\$743	\$729	\$732	\$728	\$815	\$812	\$1,113	\$1,467
NIAAA	\$137	\$156	\$180	\$207	\$232	\$249	\$254	\$257	\$253	\$261	\$260	\$263	\$271	\$264	\$258	\$245	\$253	\$244	\$244	\$252
NIAID	\$911	\$1,025	\$1,224	\$1,374	\$1,488	\$1,682	\$2,094	\$2,186	\$2,257	\$2,283	\$2,279	\$2,306	\$2,328	\$2,380	\$2,403	\$2,172	\$2,527	\$2,514	\$2,715	\$2,835
NIAMS	\$189	\$207	\$233	\$257	\$286	\$311	\$335	\$337	\$333	\$337	\$337	\$352	\$354	\$354	\$360	\$335	\$352	\$358	\$351	\$368
NIBIB					\$87	\$218	\$219	\$231	\$230	\$227	\$222	\$219	\$226	\$222	\$228	\$220	\$234	\$234	\$245	\$258
NICHD	\$374	\$430	\$499	\$584	\$648	\$678	\$675	\$683	\$673	\$670	\$665	\$670	\$677	\$670	\$706	\$651	\$676	\$720	\$697	\$720
NIDA	\$325	\$367	\$402	\$462	\$512	\$560	\$566	\$578	\$558	\$573	\$578	\$602	\$631	\$619	\$652	\$611	\$621	\$615	\$646	\$653
NIDCD	\$135	\$156	\$183	\$209	\$235	\$255	\$263	\$272	\$266	\$270	\$268	\$278	\$286	\$286	\$285	\$268	\$278	\$272	\$291	\$300
NIDCR	\$116	\$129	\$146	\$173	\$199	\$213	\$232	\$234	\$236	\$236	\$235	\$245	\$258	\$254	\$261	\$241	\$248	\$258	\$270	\$270
NIDDK	\$630	\$717	\$819	\$941	\$1,061	\$1,145	\$1,224	\$1,240	\$1,196	\$1,170	\$1,138	\$1,165	\$1,230	\$1,286	\$1,282	\$1,204	\$1,207	\$1,227	\$1,267	\$1,308
NIEHS	\$146	\$165	\$194	\$222	\$250	\$260	\$262	\$265	\$260	\$272	\$287	\$299	\$323	\$317	\$327	\$293	\$304	\$295	\$290	\$246
NIGMS	\$838	\$921	\$1,000	\$1,102	\$1,191	\$1,243	\$1,288	\$1,319	\$1,300	\$1,329	\$1,330	\$1,356	\$1,379	\$1,369	\$1,435	\$1,340	\$1,405	\$1,458	\$1,524	\$1,610
NIMH	\$389	\$453	\$543	\$624	\$704	\$742	\$771	\$788	\$767	\$779	\$808	\$857	\$899	\$880	\$940	\$888	\$926	\$936	\$1,021	\$1,124
NIMHD												\$4	\$13	\$17	\$19	\$22	\$38	\$43	\$66	\$107
NINDS	\$549	\$637	\$743	\$853	\$954	\$1,029	\$1,049	\$1,079	\$1,052	\$1,077	\$1,066	\$1,086	\$1,122	\$1,122	\$1,120	\$1,060	\$1,111	\$1,131	\$1,221	\$1,292
NINR	\$49	\$56	\$68	\$80	\$88	\$97	\$97	\$99	\$94	\$95	\$96	\$100	\$100	\$101	\$100	\$90	\$92	\$91	\$93	\$99
NLM										\$25	\$28	\$27	\$28	\$24	\$28	\$27	\$30	\$29	\$26	\$35
OD							\$7	\$17	\$27	\$108	\$123	\$158	\$193	\$182	\$24	\$27	\$37	\$44	\$125	\$196
NIH Total	\$7,662	\$8,626	\$9,955	\$11,309	\$12,624	\$13,776	\$14,673	\$15,030	\$14,853	\$15,050	\$15,013	\$15,397	\$15,858	\$15,815	\$15,924	\$14,918	\$15,636	\$15,862	\$17,138	\$18,321



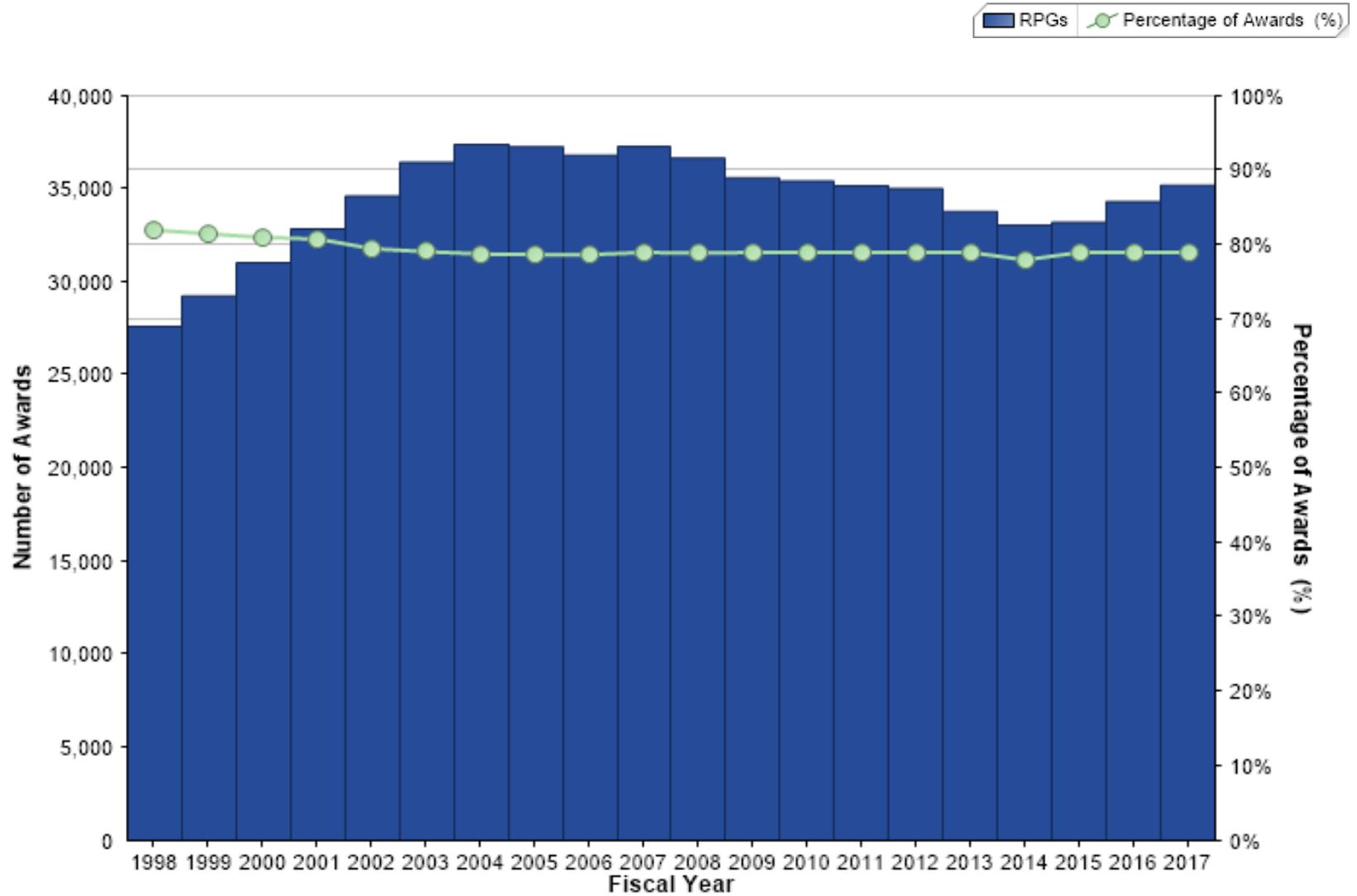
# Research Project Grants Average size



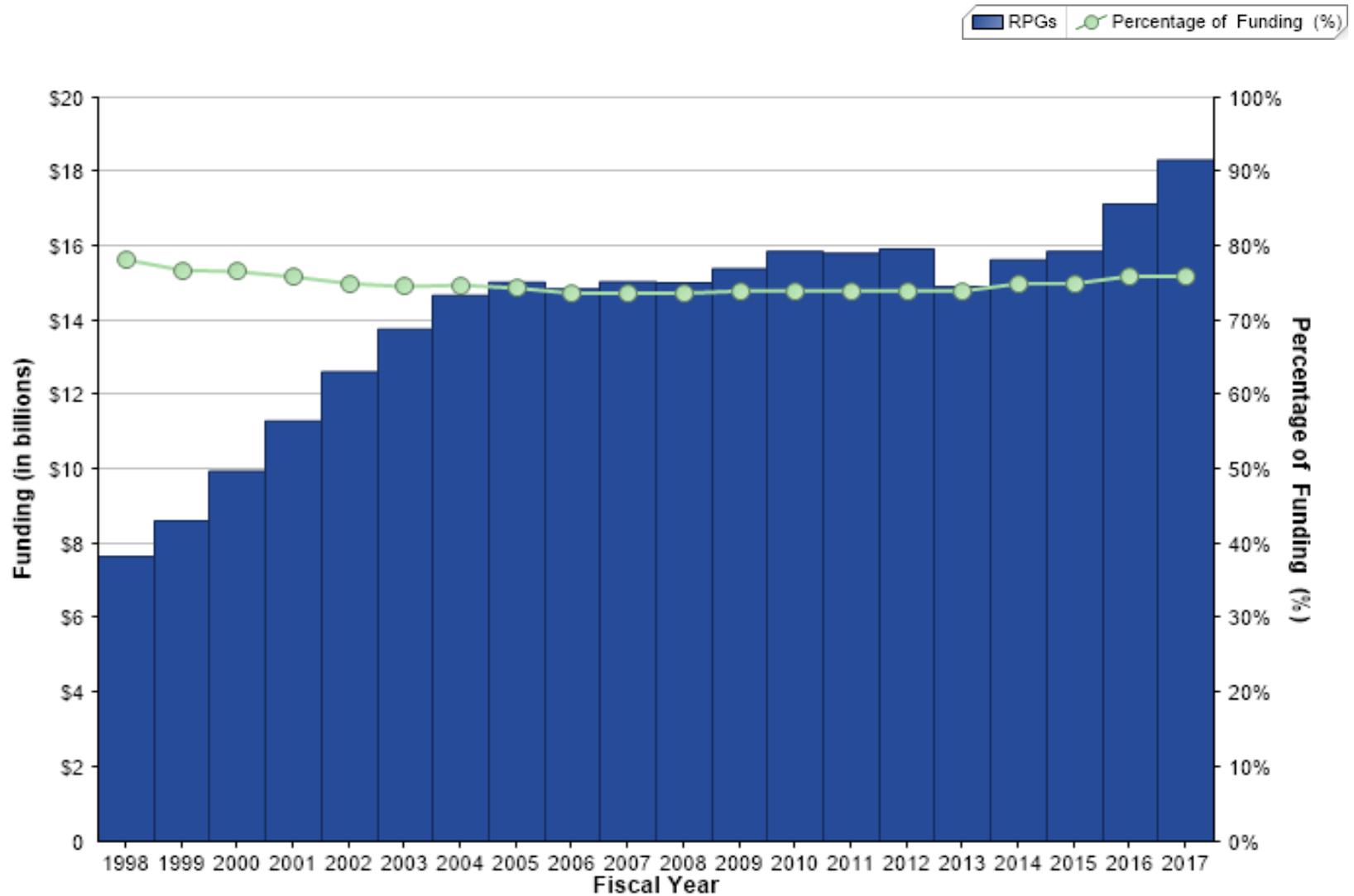
# Research Project Grants Applications, awards, and success rates



# Research Project Grants Awards as percentage of all research grants

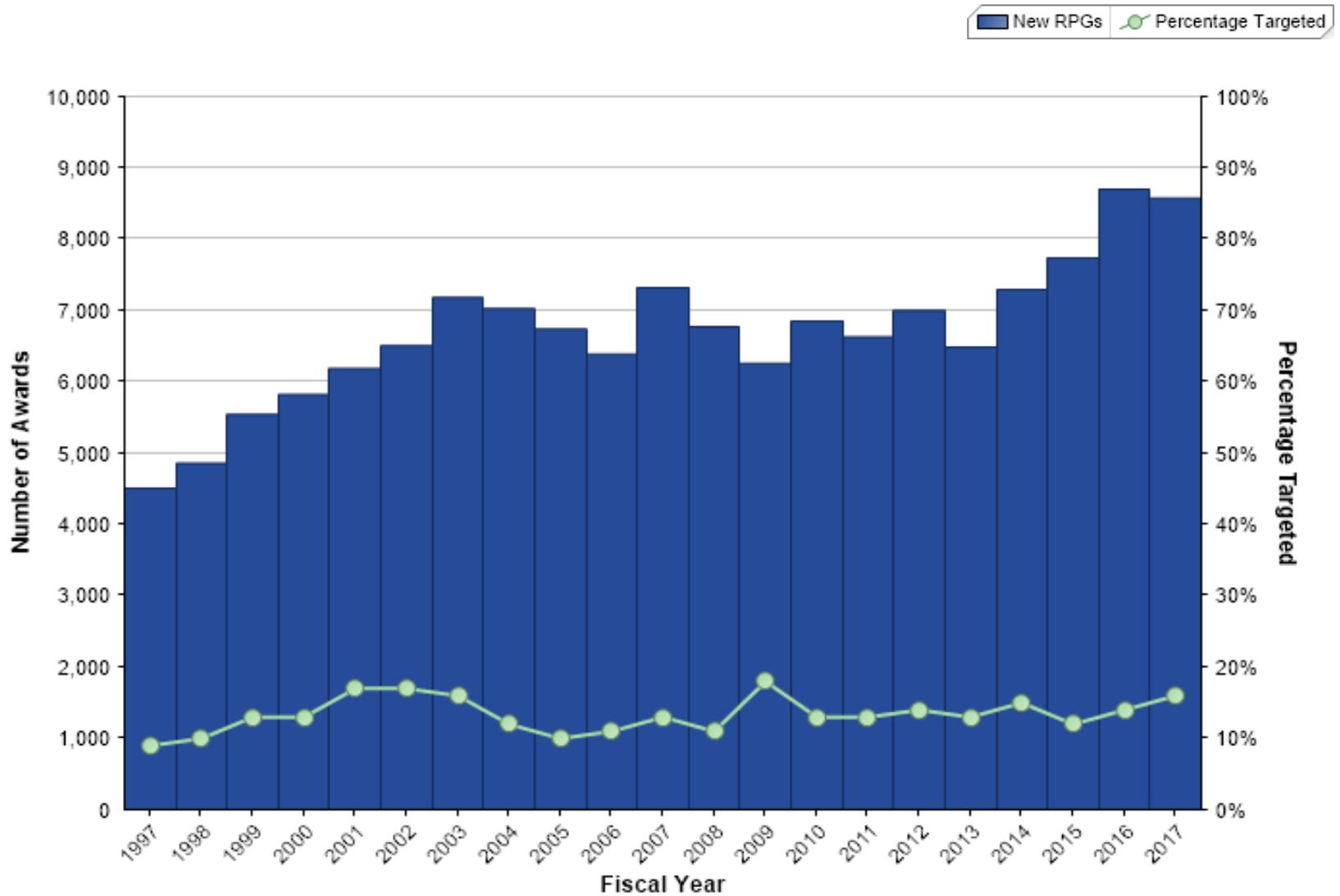


# Research Project Grants Funding as a percentage of all research grant funding



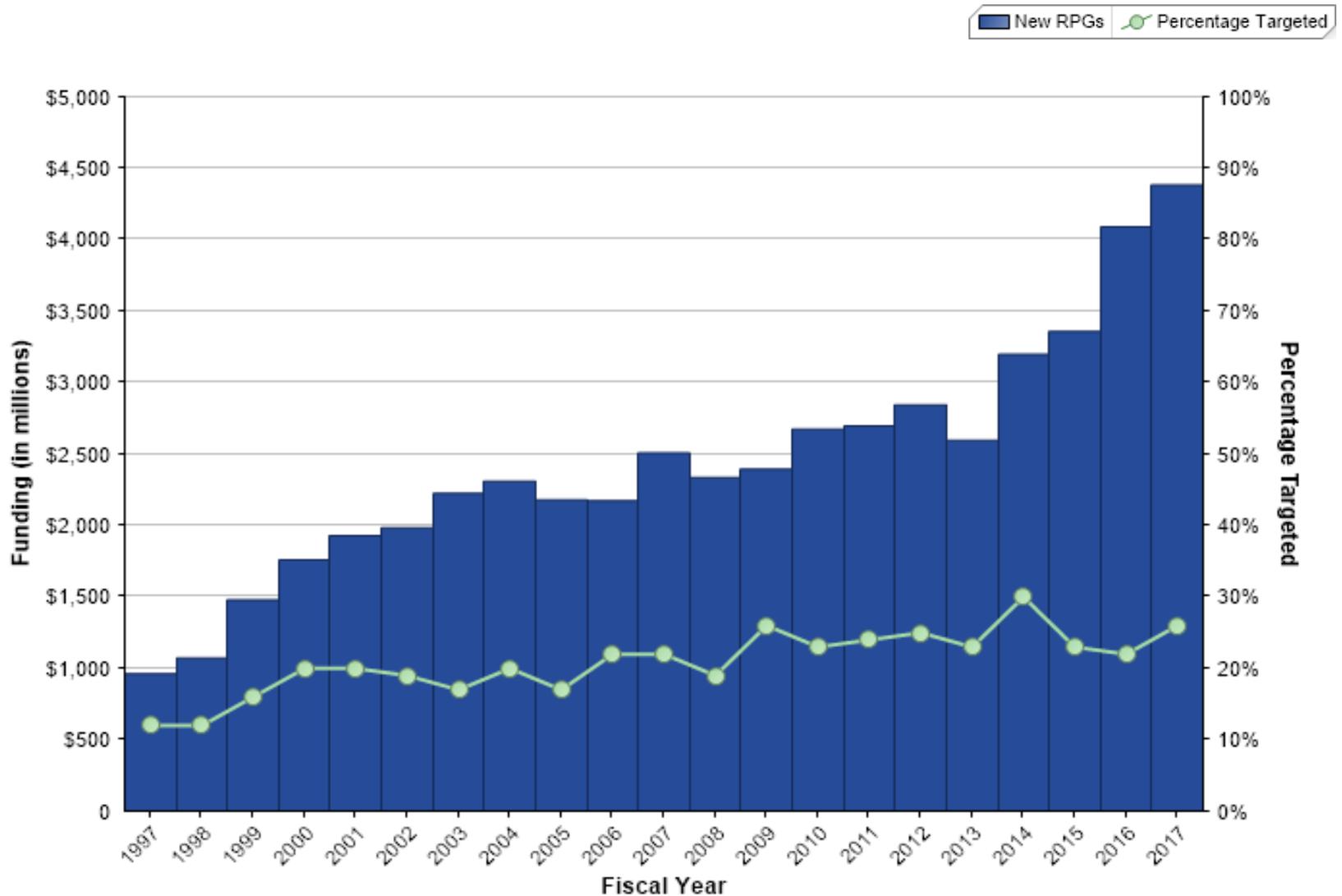
# Research Project Grants

## New (type 1) awards and percentage to targeted research



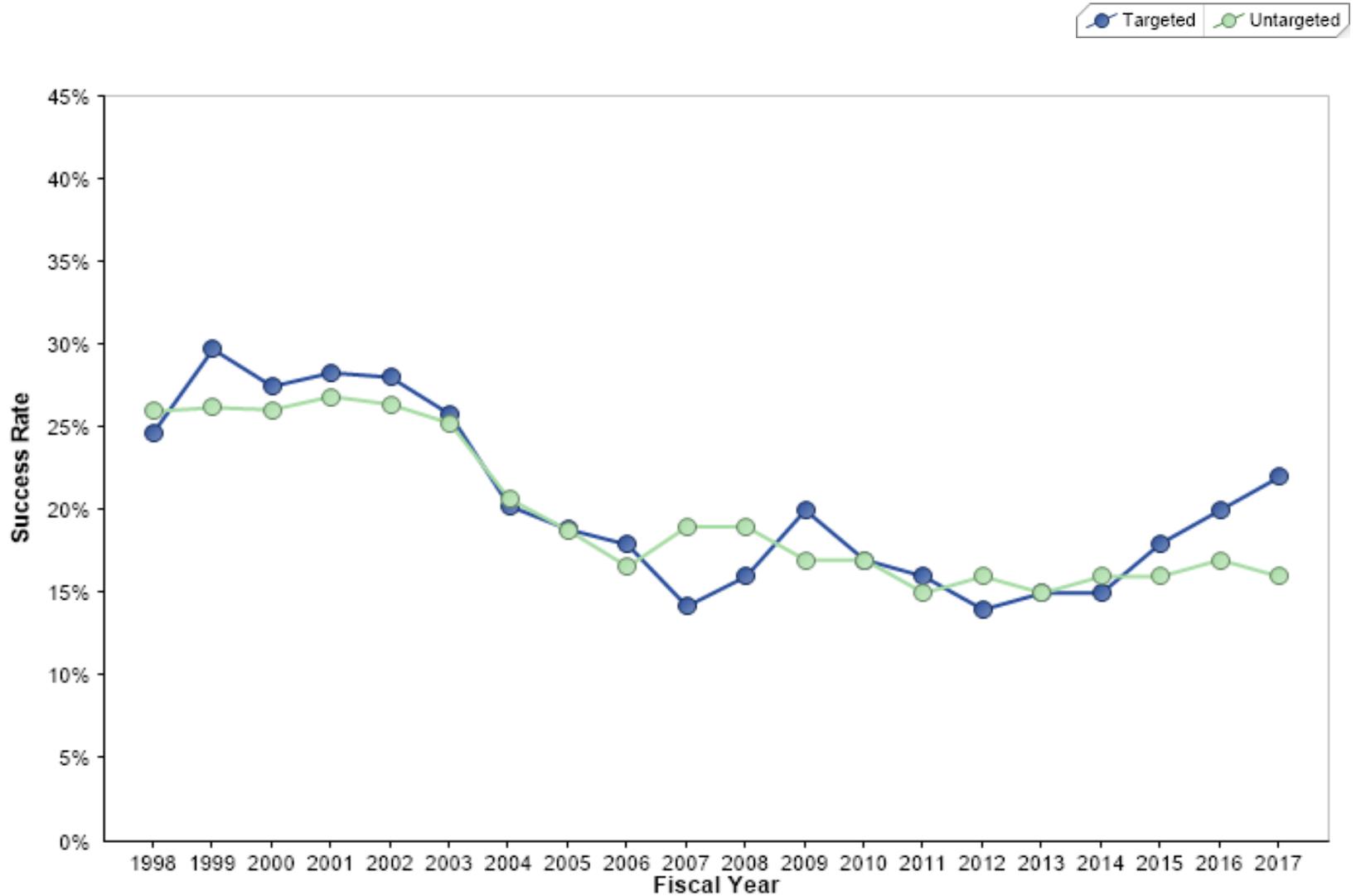
# Research Project Grants

## Funding for new (type 1) grants and percentage for targeted research

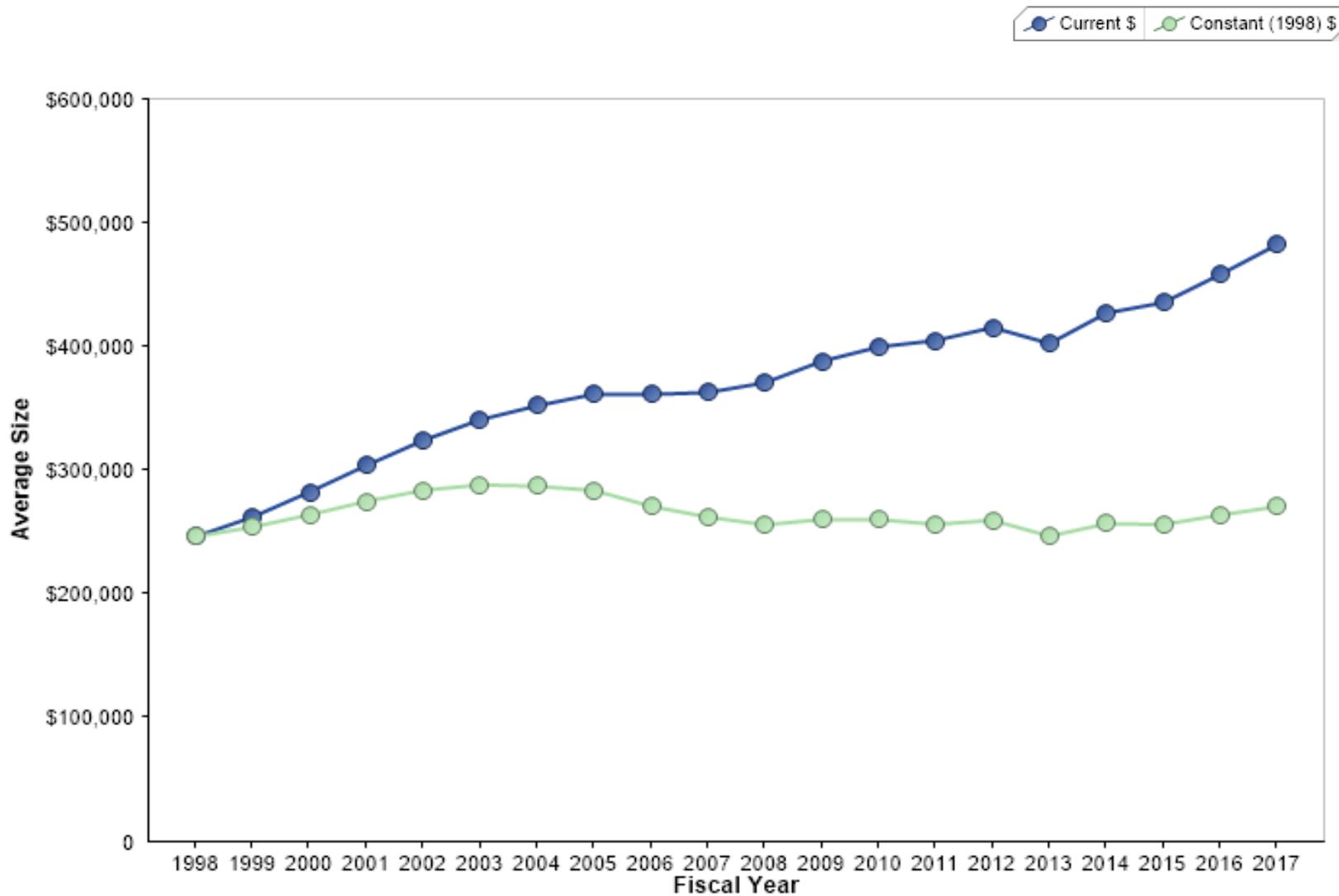


# Research Project Grants

## Success rates of new (type 1) applications for targeted and untargeted research

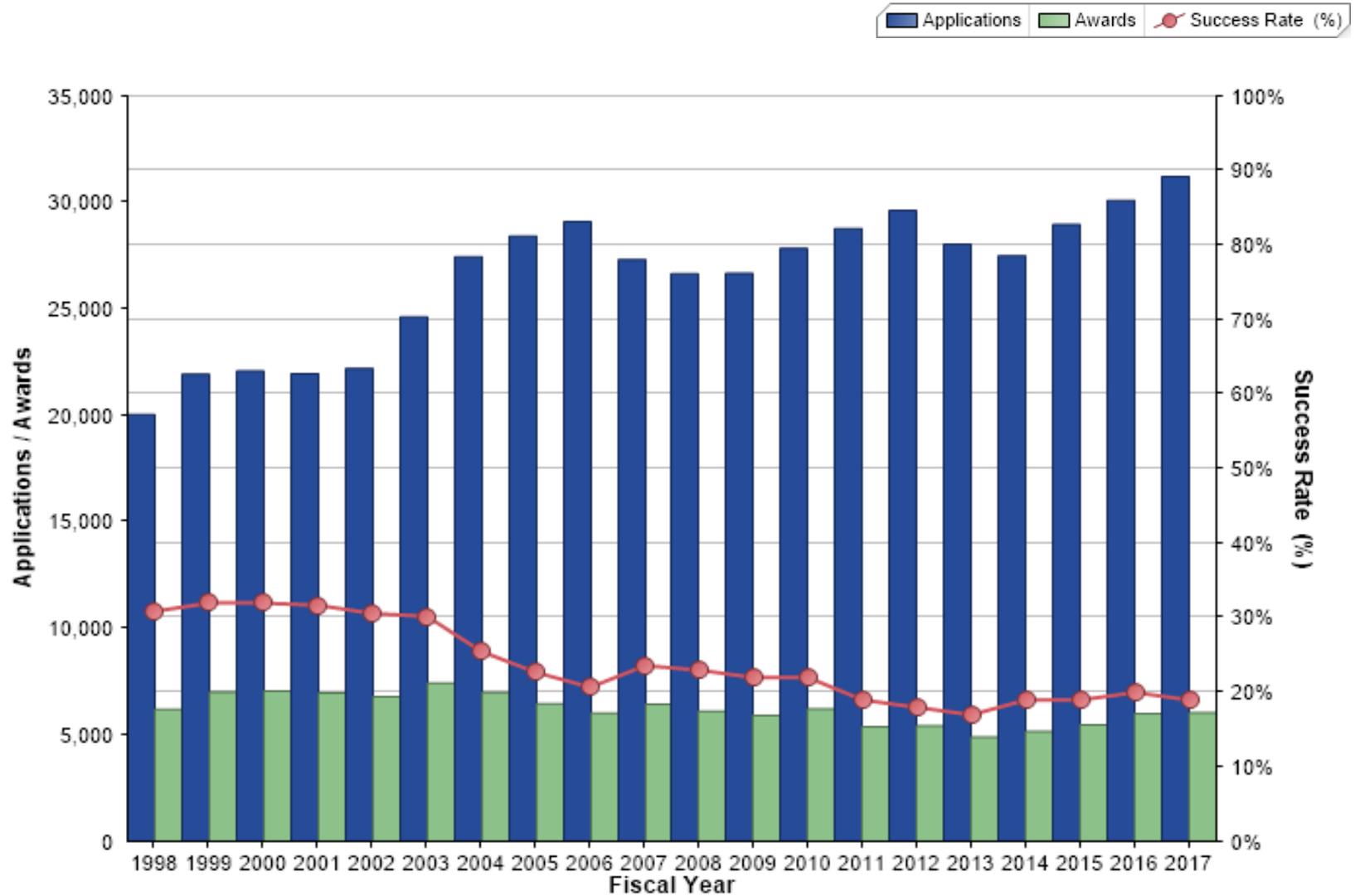


# R01-Equivalent grants Average size

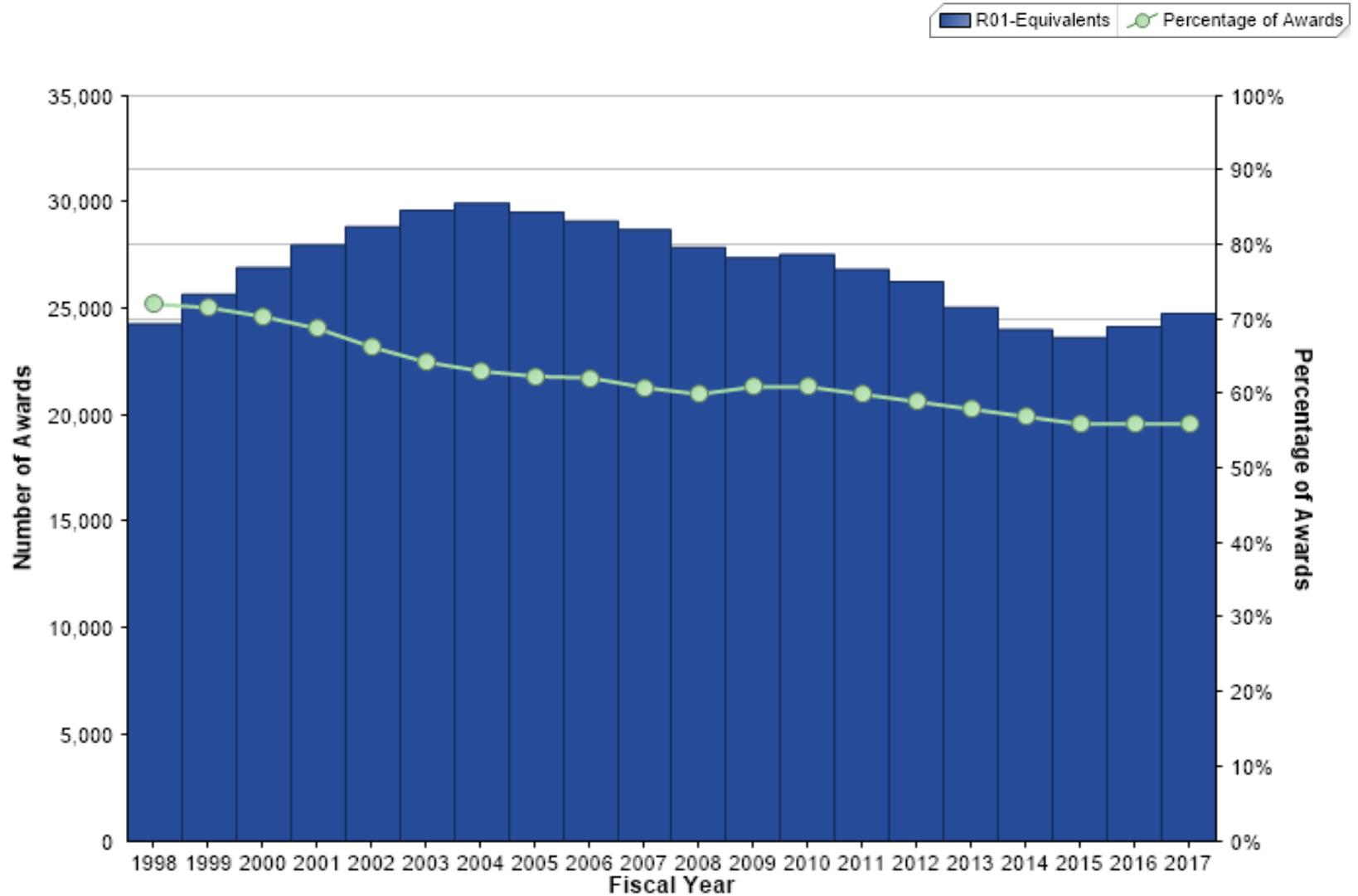


# R01-Equivalent grants

## Applications, awards, and success rates

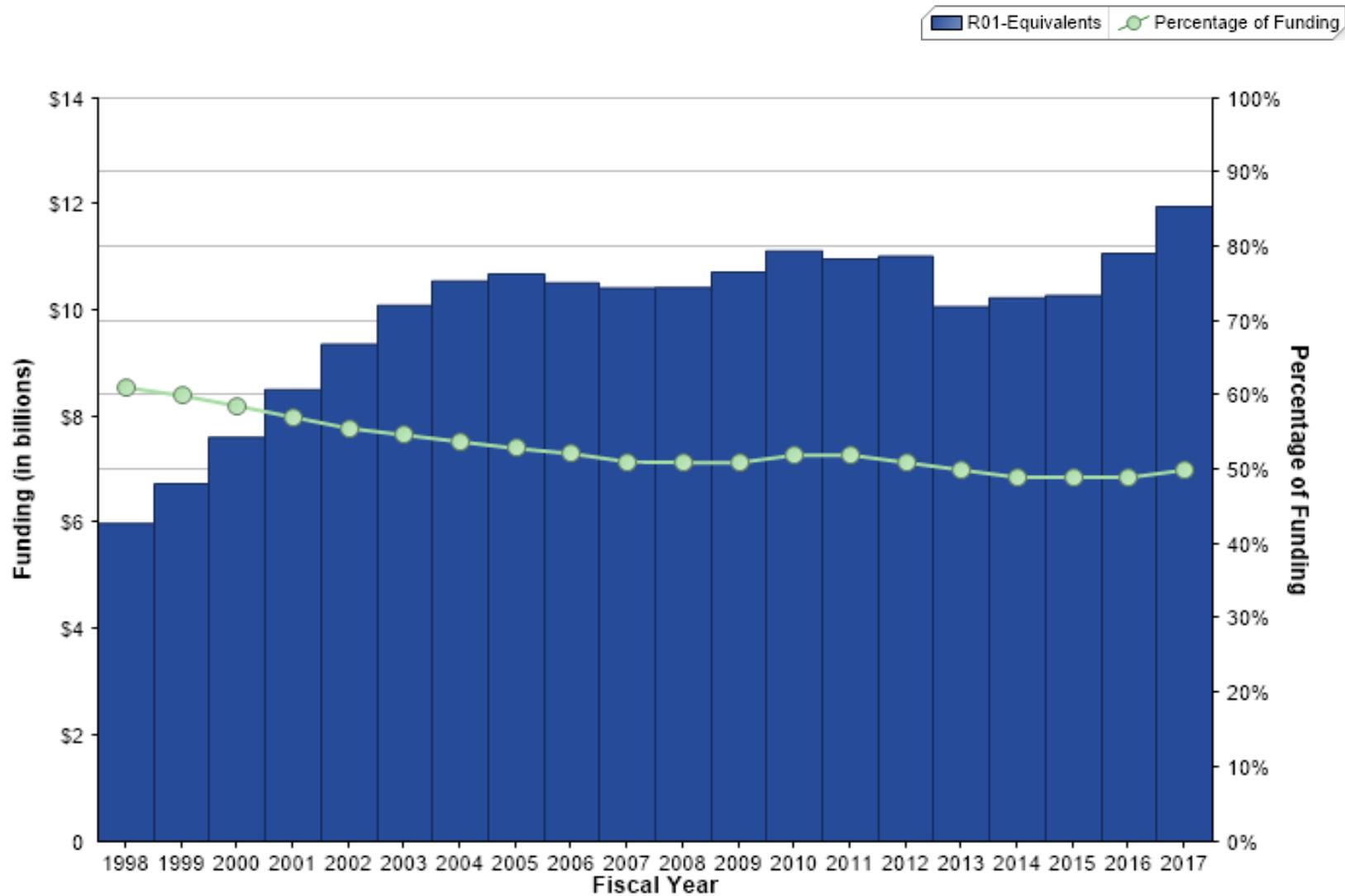


# R01-Equivalent grants Awards as a percentage of all research grants



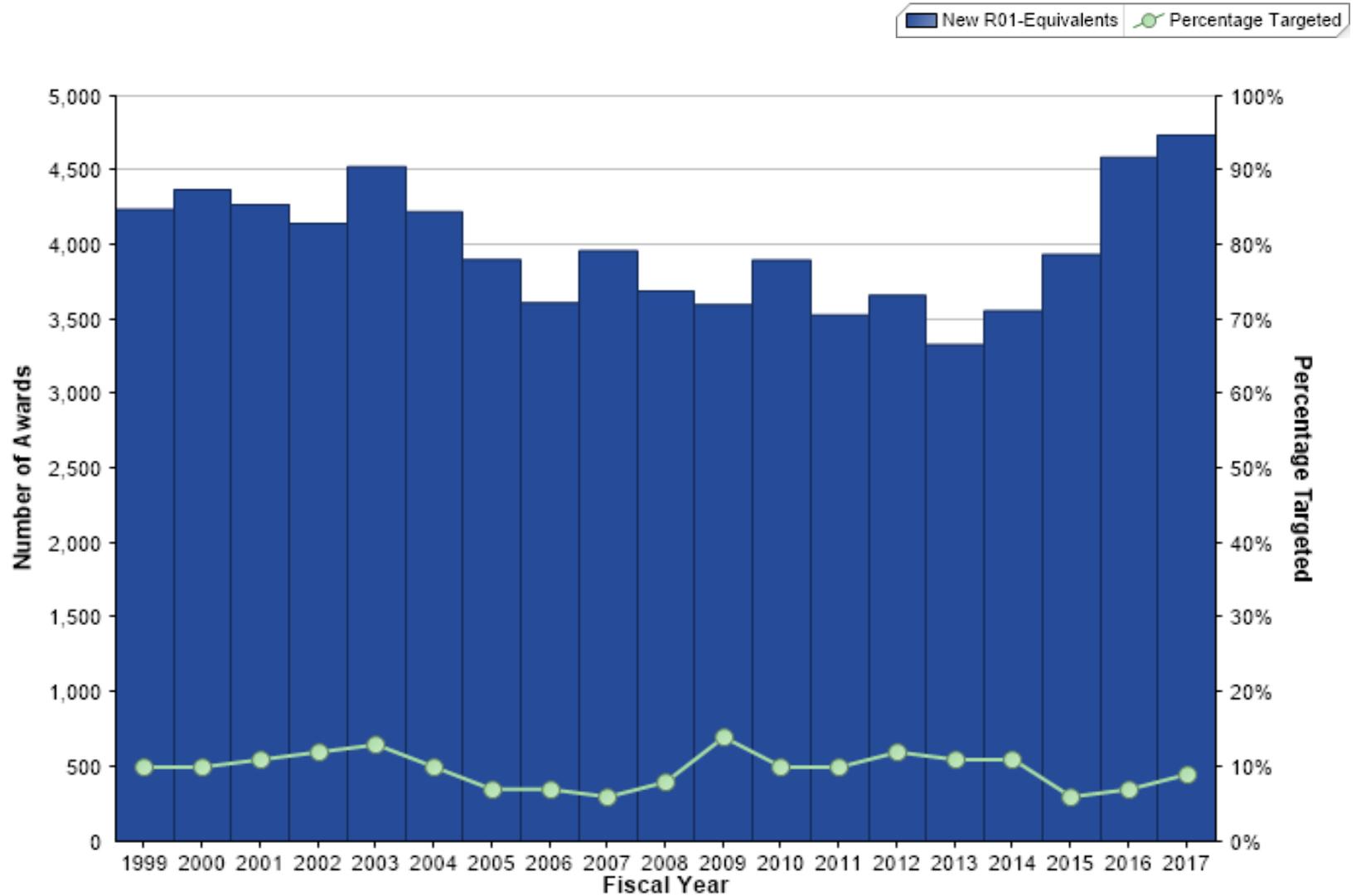
# R01-Equivalent grants

## Funding as a percentage of all research grant funding



# R01-Equivalent grants

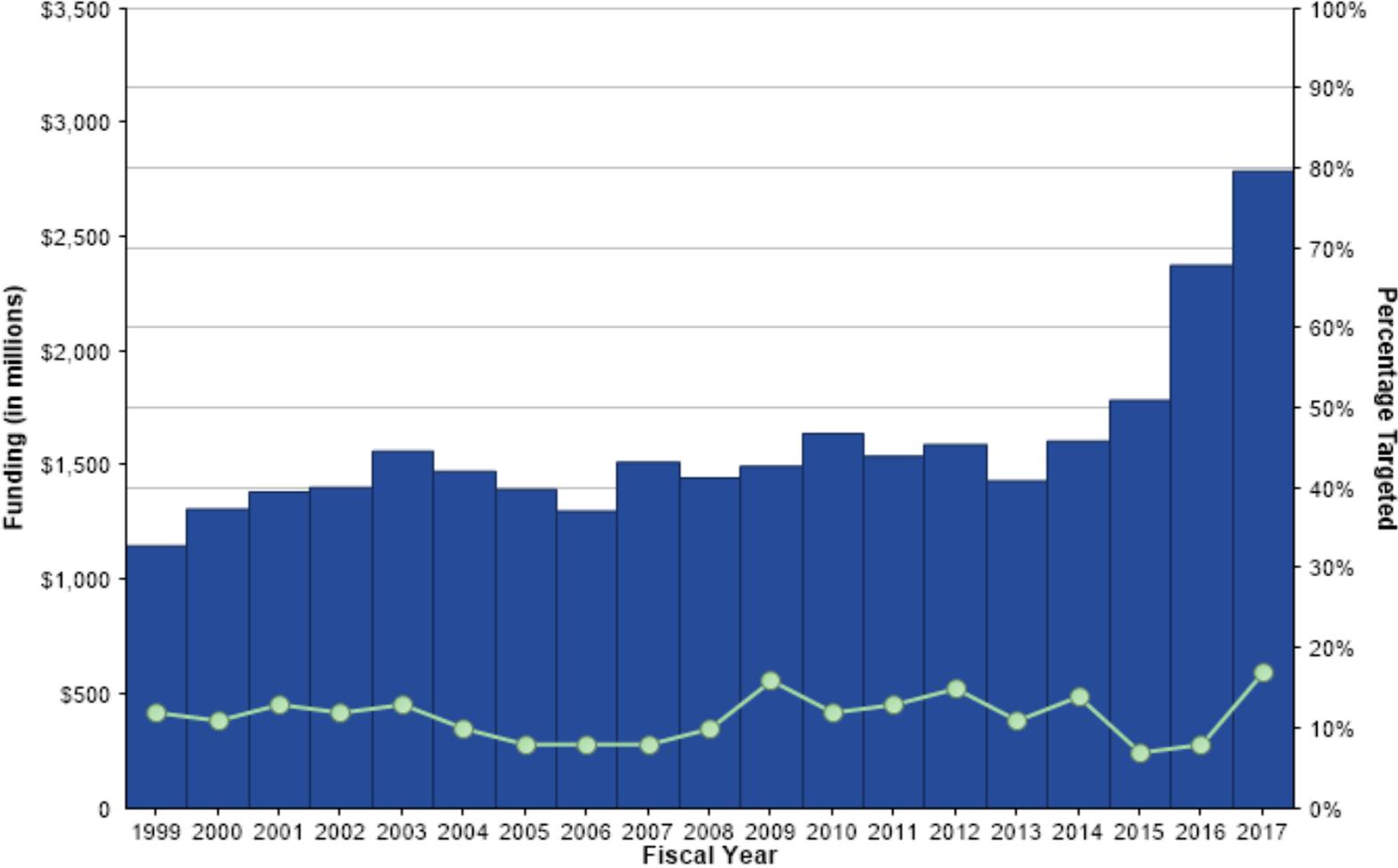
## New (type 1) awards and percentage to targeted research



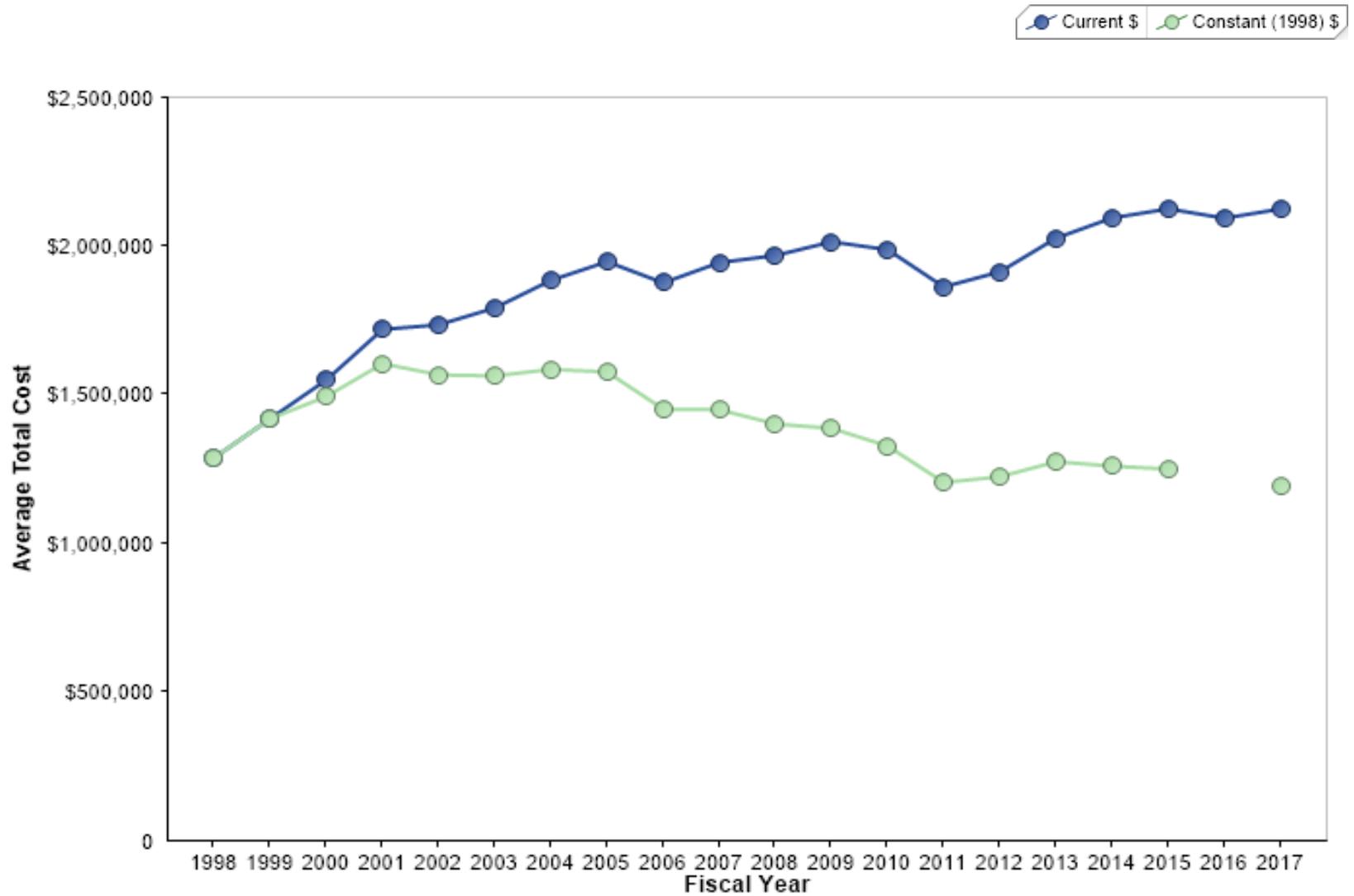
# R01-Equivalent grants

## Funding for new (type 1) awards and percentage for targeted research

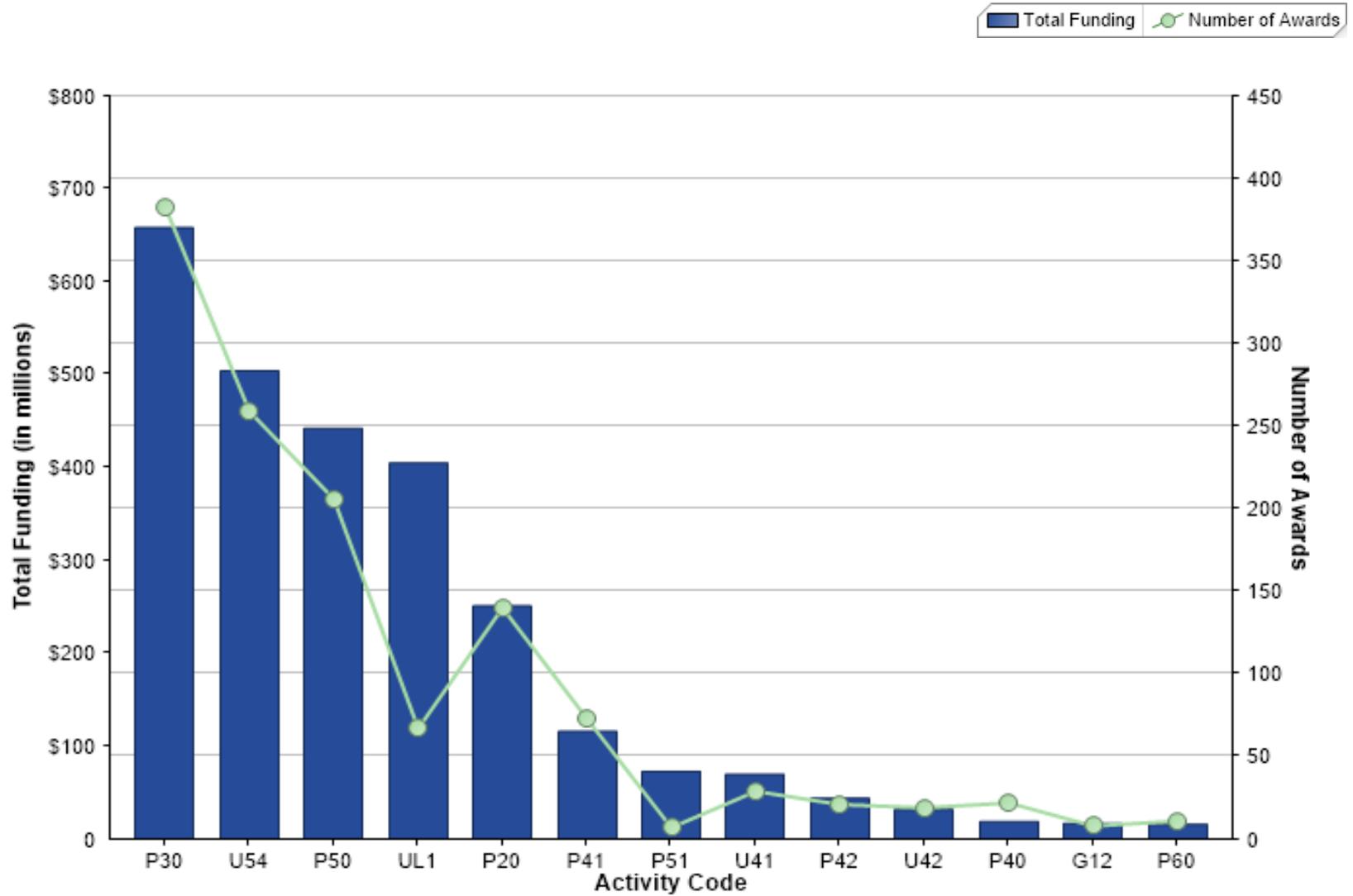
R01-Equivalents Percentage Targeted



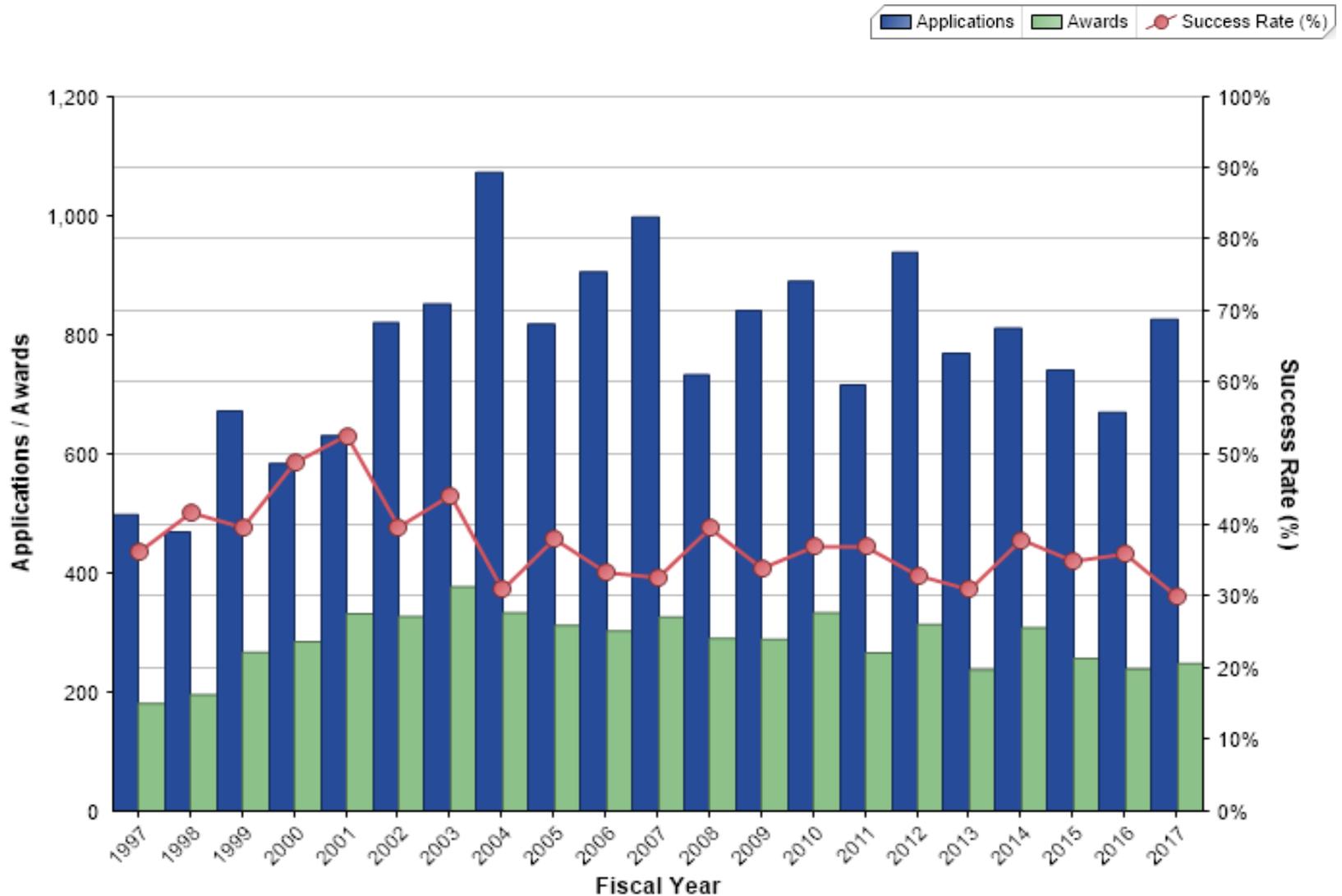
# Research center grants Average size



# Research center grants Funding and number of awards, by activity, FY 2017



# Research center grants Applications, awards, and success rates





# SMALL BUSINESS RESEARCH (SBIR/STTR)



# SBIR and STTR grants and contracts Funding by Institute / Center FY 1994 - 2004

(\$ Thousands)

Institute / Center	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
NCI	\$23,927	\$33,651	\$36,808	\$47,952	\$51,307	\$59,186	\$67,496	\$77,930	\$89,066	\$93,439	\$102,900
NCRR	\$4,637	\$6,439	\$7,098	\$9,439	\$10,428	\$12,479	\$14,363	\$18,365	\$21,889	\$24,645	\$27,132
NEI	\$3,911	\$5,417	\$5,723	\$7,552	\$8,571	\$9,142	\$10,549	\$12,096	\$13,519	\$15,225	\$16,062
NHGRI	\$1,553	\$2,180	\$2,560	\$3,671	\$4,319	\$5,431	\$6,970	\$8,030	\$8,851	\$9,487	\$10,248
NHLBI	\$16,753	\$23,749	\$25,588	\$32,830	\$35,478	\$41,808	\$48,162	\$55,447	\$61,262	\$66,351	\$72,062
NIA	\$5,594	\$7,627	\$8,221	\$10,941	\$11,731	\$13,485	\$15,503	\$18,100	\$20,220	\$22,525	\$24,584
NIAAA	\$2,281	\$3,147	\$3,454	\$4,620	\$4,970	\$5,742	\$6,477	\$7,493	\$8,507	\$9,169	\$9,996
NIAID	\$13,490	\$18,861	\$20,668	\$27,503	\$29,664	\$35,521	\$40,117	\$45,747	\$60,095	\$69,314	\$97,354
NIAMS	\$2,927	\$4,111	\$4,447	\$5,825	\$6,253	\$6,983	\$7,924	\$9,063	\$9,938	\$10,781	\$11,760
NICHHD	\$8,223	\$9,740	\$10,574	\$13,678	\$14,756	\$16,805	\$18,810	\$21,564	\$24,492	\$26,334	\$28,576
NIDA	\$5,236	\$7,523	\$8,596	\$10,889	\$12,198	\$13,973	\$15,741	\$18,153	\$20,429	\$22,093	\$23,828
NIDCD	\$2,704	\$3,411	\$3,351	\$4,306	\$4,623	\$5,389	\$6,103	\$6,890	\$7,689	\$8,351	\$9,125
NIDCR	\$2,223	\$2,781	\$2,899	\$4,076	\$4,271	\$4,205	\$5,221	\$6,119	\$6,751	\$7,671	\$8,297
NIDDK	\$9,383	\$12,682	\$13,666	\$17,870	\$19,275	\$22,021	\$25,537	\$29,957	\$35,070	\$39,128	\$44,047
NIEHS	\$3,321	\$3,811	\$4,209	\$5,559	\$5,986	\$6,930	\$8,056	\$9,509	\$12,378	\$13,882	\$14,683
NIGMS	\$11,163	\$15,654	\$16,859	\$21,988	\$23,660	\$26,371	\$29,804	\$34,477	\$38,213	\$40,943	\$44,576
NIMH	\$7,094	\$9,992	\$10,771	\$14,350	\$15,419	\$17,927	\$20,644	\$24,168	\$26,845	\$28,859	\$31,388
NINDS	\$8,101	\$11,339	\$12,171	\$16,138	\$17,467	\$20,388	\$23,585	\$27,401	\$31,700	\$33,311	\$36,456
NINR	\$641	\$912	\$998	\$1,358	\$1,461	\$1,589	\$2,051	\$2,403	\$2,715	\$2,968	\$3,220



# SBIR and STTR grants and contracts Funding by Institute / Center FY 2005 - 2017

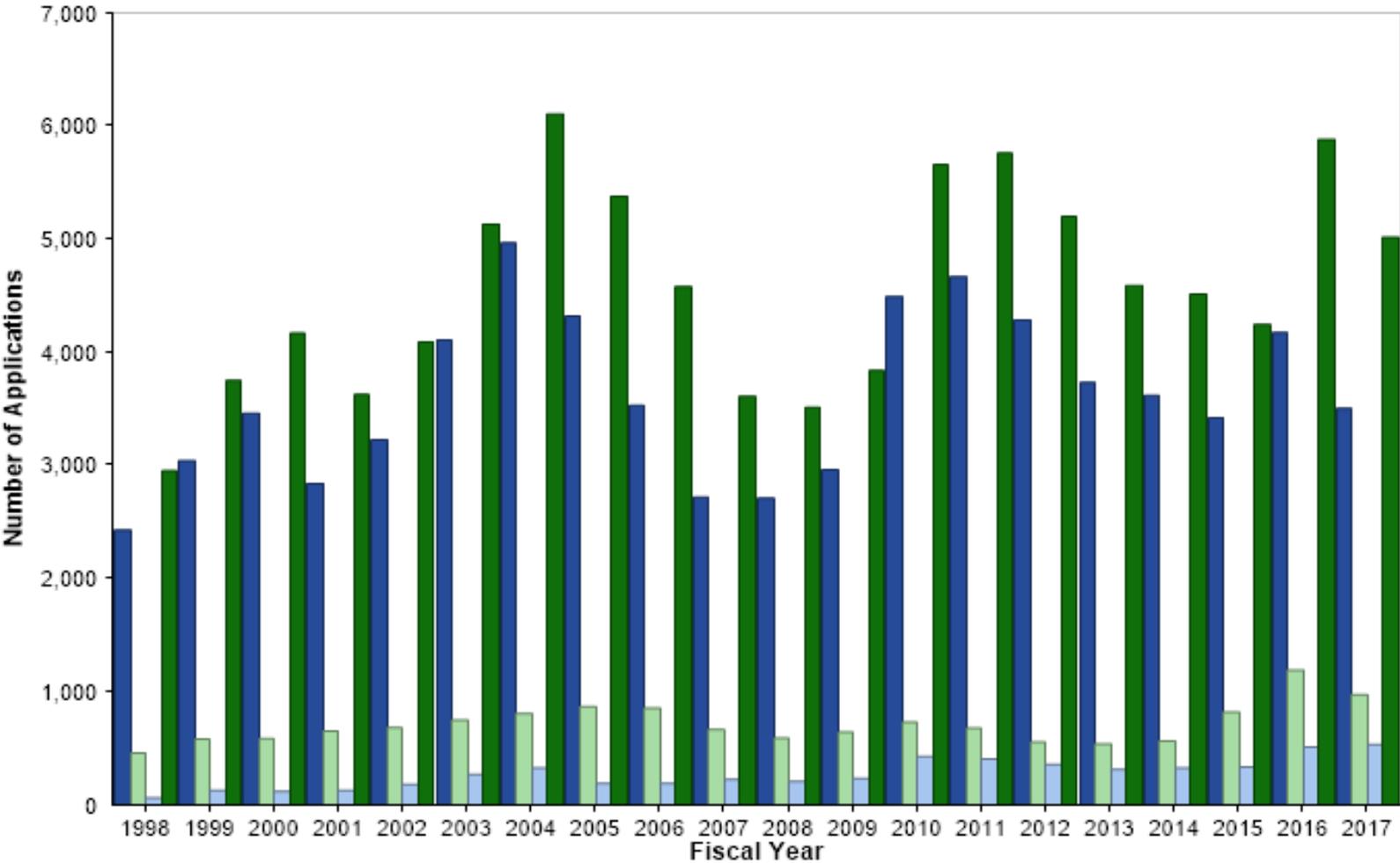
(\$ Thousands)

Institute / Center	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
NCATS								\$15,274	\$15,076	\$17,409	\$18,521	\$20,573	\$21,855
NCCIH	\$2,772	\$2,716	\$2,772	\$2,744	\$3,251	\$2,914	\$3,019	\$3,062	\$3,011	\$3,204	\$3,307	\$3,592	\$3,935
NCI	\$104,496	\$104,216	\$106,064	\$105,196	\$108,619	\$110,689	\$110,157	\$115,005	\$110,137	\$119,259	\$121,855	\$135,643	\$156,662
NCRR	\$27,804	\$28,420	\$28,980	\$30,268	\$32,508	\$33,560	\$33,338						
NEI	\$16,301	\$16,339	\$19,018	\$16,268	\$17,544	\$17,336	\$17,098	\$18,035	\$17,534	\$18,682	\$19,289	\$21,205	\$23,113
NHGRI	\$10,304	\$10,248	\$10,472	\$10,353	\$11,078	\$10,983	\$10,732	\$11,340	\$10,997	\$11,939	\$12,240	\$13,115	\$14,343
NHLBI	\$75,025	\$72,937	\$74,789	\$78,385	\$78,743	\$78,438	\$77,432	\$85,656	\$80,217	\$84,202	\$90,152	\$96,066	\$103,339
NIA	\$25,172	\$25,032	\$25,424	\$25,228	\$26,105	\$26,896	\$26,497	\$28,545	\$27,053	\$32,433	\$34,162	\$49,728	\$67,995
NIAAA	\$10,136	\$10,080	\$10,248	\$10,136	\$10,479	\$10,780	\$10,618	\$11,210	\$10,872	\$11,680	\$12,049	\$13,220	\$14,439
NIAID	\$102,153	\$99,585	\$110,581	\$101,542	\$105,015	\$107,067	\$108,291	\$113,556	\$109,869	\$123,729	\$126,655	\$137,529	\$151,184
NIAMS	\$11,956	\$11,900	\$12,096	\$12,012	\$12,400	\$12,759	\$12,591	\$13,289	\$12,898	\$13,901	\$14,400	\$15,703	\$17,024
NIBIB	\$8,930	\$7,892	\$7,560	\$7,616	\$7,745	\$7,981	\$7,839	\$9,007	\$8,757	\$9,426	\$9,741	\$10,685	\$11,636
NICHD	\$28,927	\$28,985	\$29,090	\$28,728	\$29,721	\$30,462	\$30,094	\$31,445	\$30,474	\$32,545	\$33,625	\$36,982	\$40,367
NIDA	\$24,108	\$23,884	\$24,164	\$24,080	\$24,880	\$19,066	\$25,284	\$26,679	\$25,857	\$27,764	\$28,615	\$31,265	\$33,275
NIDCD	\$9,317	\$9,737	\$10,117	\$9,648	\$9,811	\$9,987	\$9,963	\$10,475	\$10,170	\$11,187	\$11,416	\$12,781	\$13,820
NIDCR	\$8,394	\$8,594	\$8,535	\$8,401	\$8,734	\$8,938	\$8,937	\$9,357	\$9,088	\$9,760	\$9,979	\$10,998	\$12,054
NIDDK	\$44,940	\$44,821	\$45,444	\$45,504	\$46,703	\$48,704	\$47,257	\$49,891	\$48,515	\$52,109	\$54,786	\$59,102	\$63,705
NIEHS	\$14,925	\$14,532	\$14,913	\$14,711	\$15,365	\$15,821	\$15,323	\$16,175	\$15,661	\$16,795	\$17,389	\$18,801	\$20,442
NIGMS	\$45,556	\$45,472	\$46,583	\$45,920	\$48,469	\$48,935	\$48,280	\$62,541	\$60,894	\$65,929	\$68,560	\$75,735	\$85,654
NIMH	\$32,088	\$31,836	\$32,340	\$32,312	\$33,489	\$34,578	\$34,309	\$36,429	\$34,709	\$37,508	\$39,303	\$44,212	\$49,357
NIMHD	\$5,373	\$5,208	\$5,419	\$5,747	\$5,521	\$5,673	\$5,615	\$7,815	\$7,509	\$8,110	\$8,461	\$9,214	\$9,849
NINDS	\$37,240	\$37,100	\$37,744	\$37,828	\$39,163	\$40,205	\$39,640	\$41,812	\$40,021	\$43,905	\$45,604	\$50,853	\$56,045
NINR	\$3,304	\$3,304	\$3,304	\$3,276	\$3,400	\$3,481	\$3,310	\$3,445	\$3,332	\$3,604	\$3,703	\$4,006	\$4,356
NLM			\$1,116	\$979	\$806	\$832	\$822	\$768	\$709	\$799	\$816	\$1,089	\$1,201
ORIP/SEPA								\$6,885	\$6,526	\$6,966	\$7,046	\$7,631	\$7,387



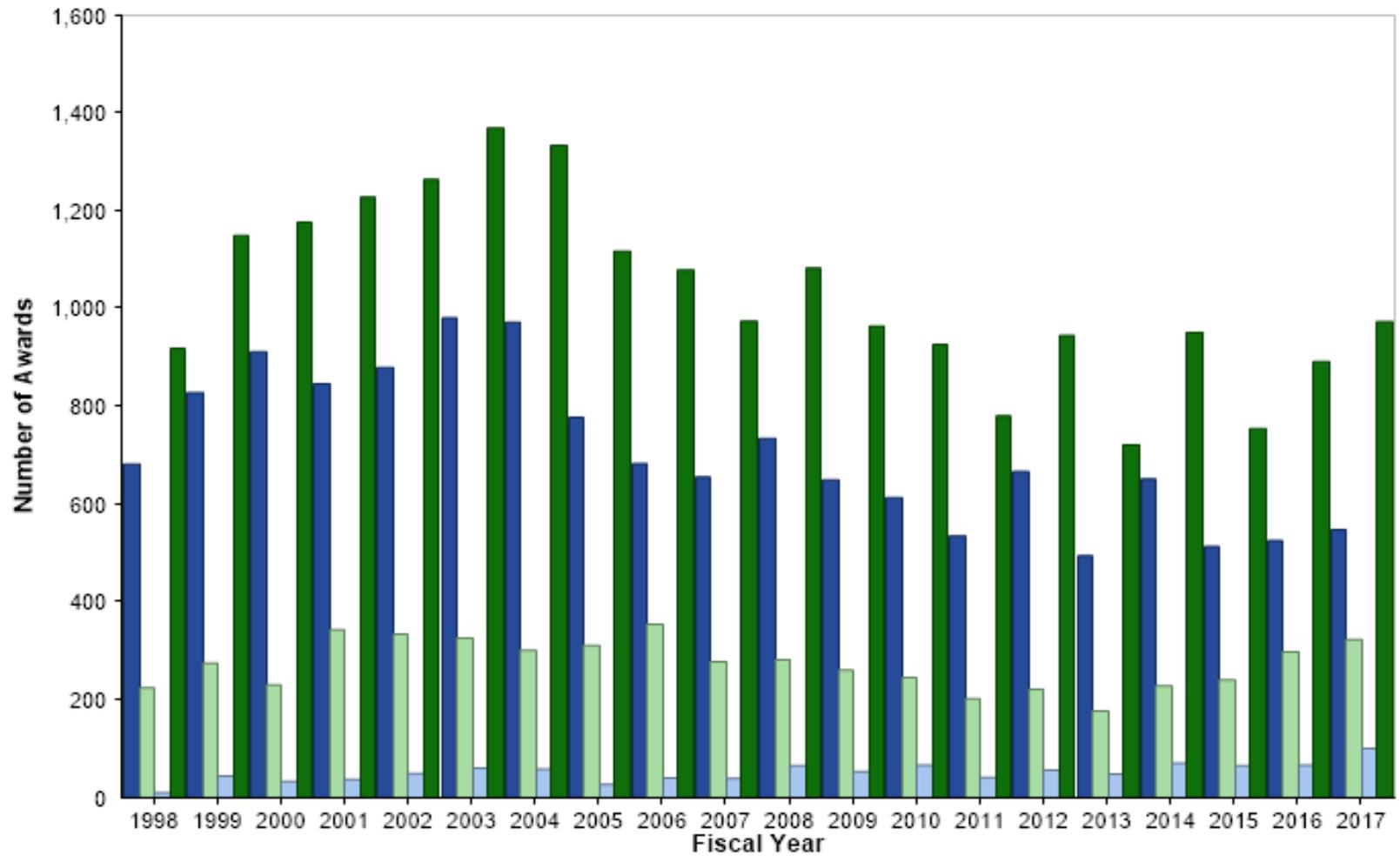
# SBIR grants Competing applications, by phase

Phase I   Phase II   Fast Track   Phase I, II and Fast Track Combined



# SBIR grants Competing awards, by phase

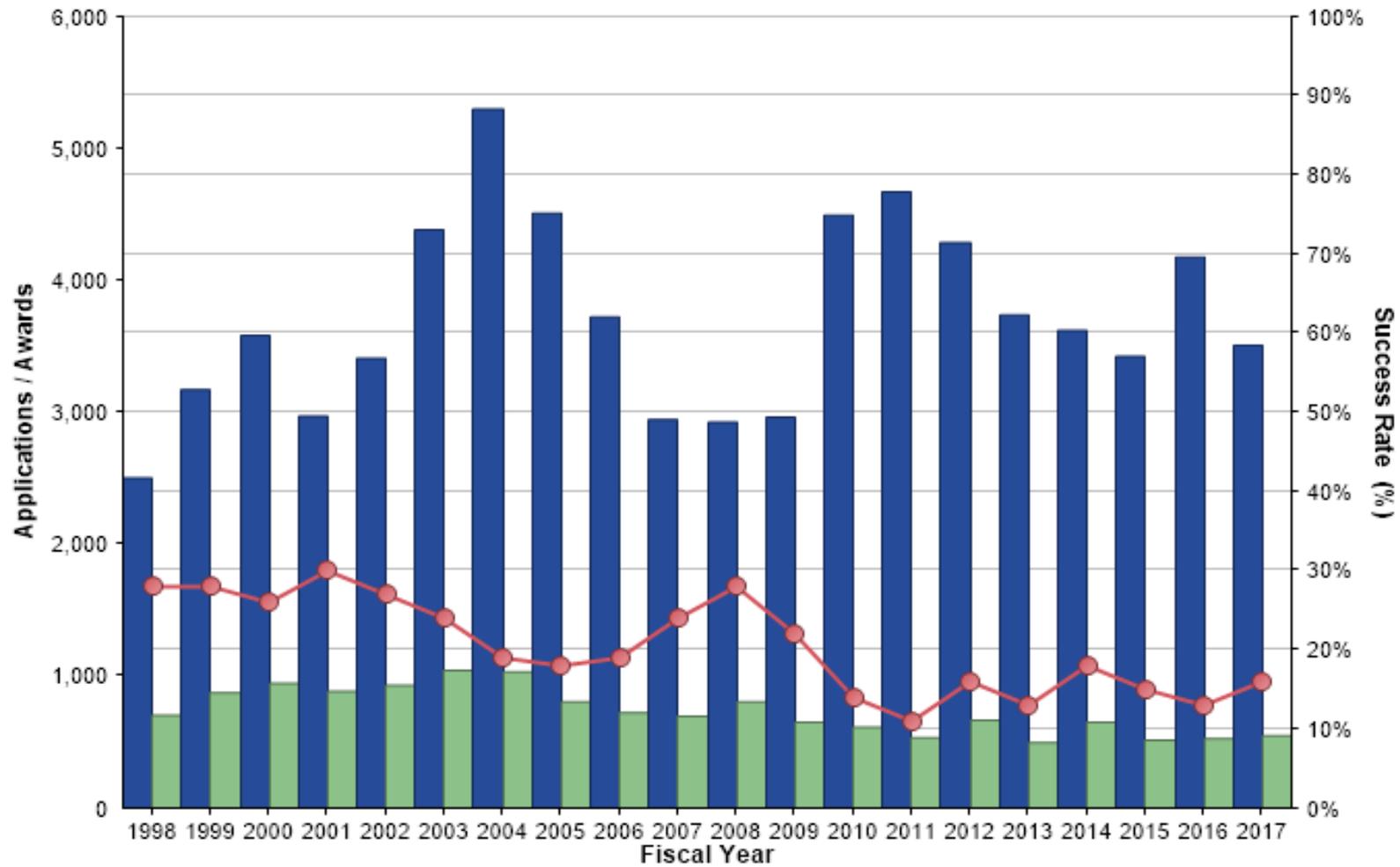
Phase I Phase II Fast Track Phase I, II and Fast Track Combined



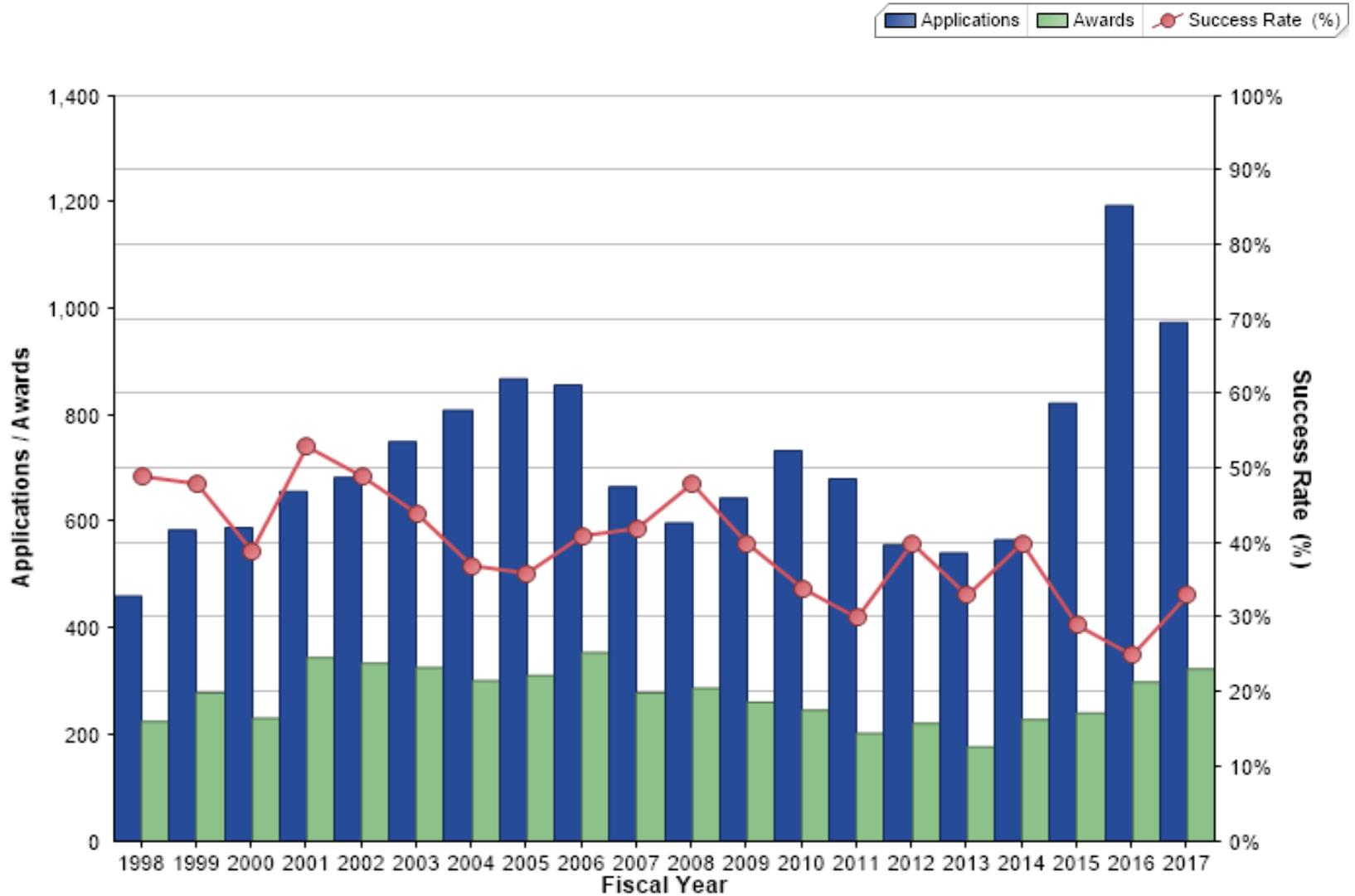
# SBIR grants, Phase I

## Applications, awards and success rates

■ Applications ■ Awards ● Success Rate (%)

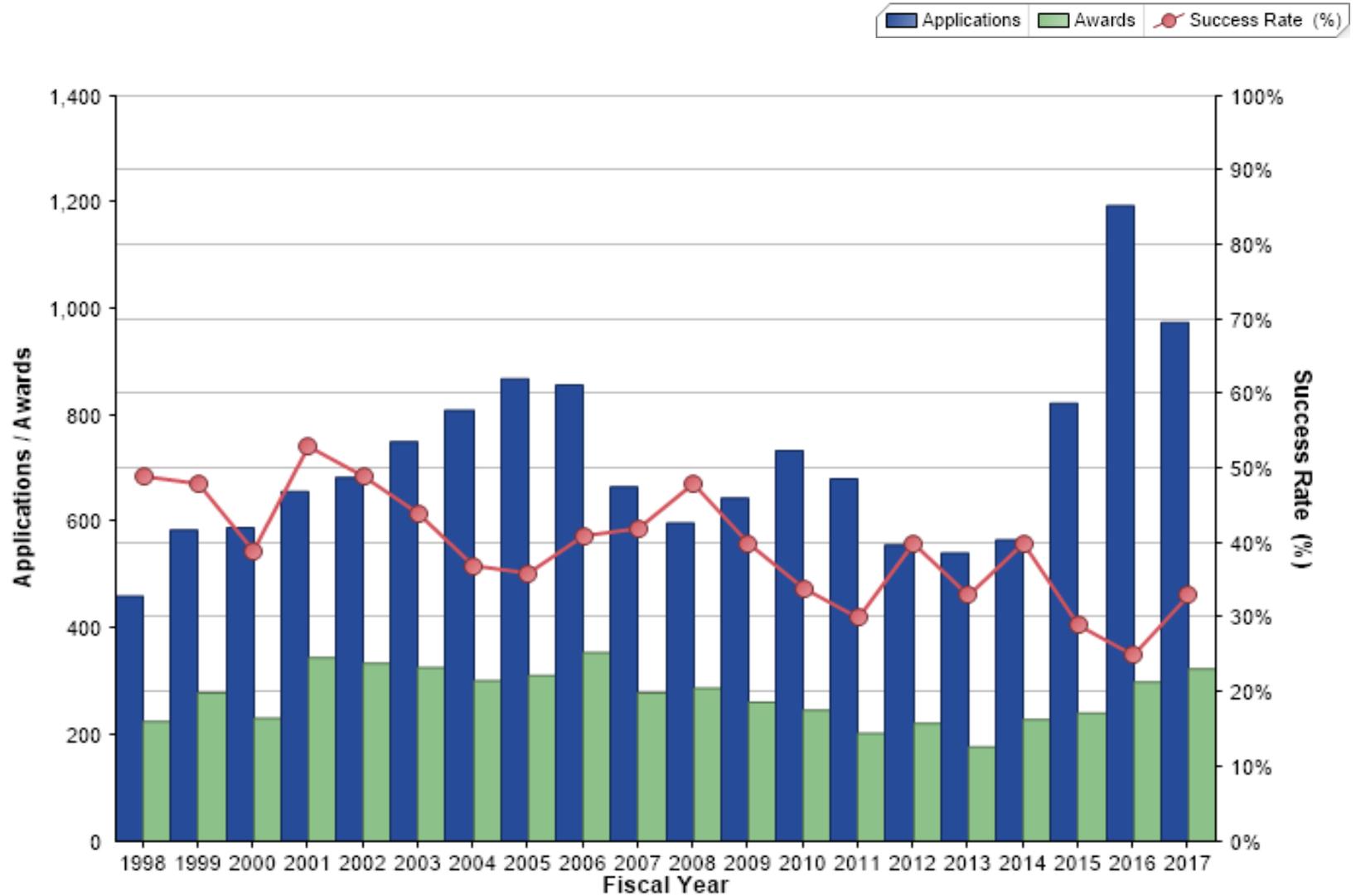


# SBIR grants, Phase II Applications, awards and success rates



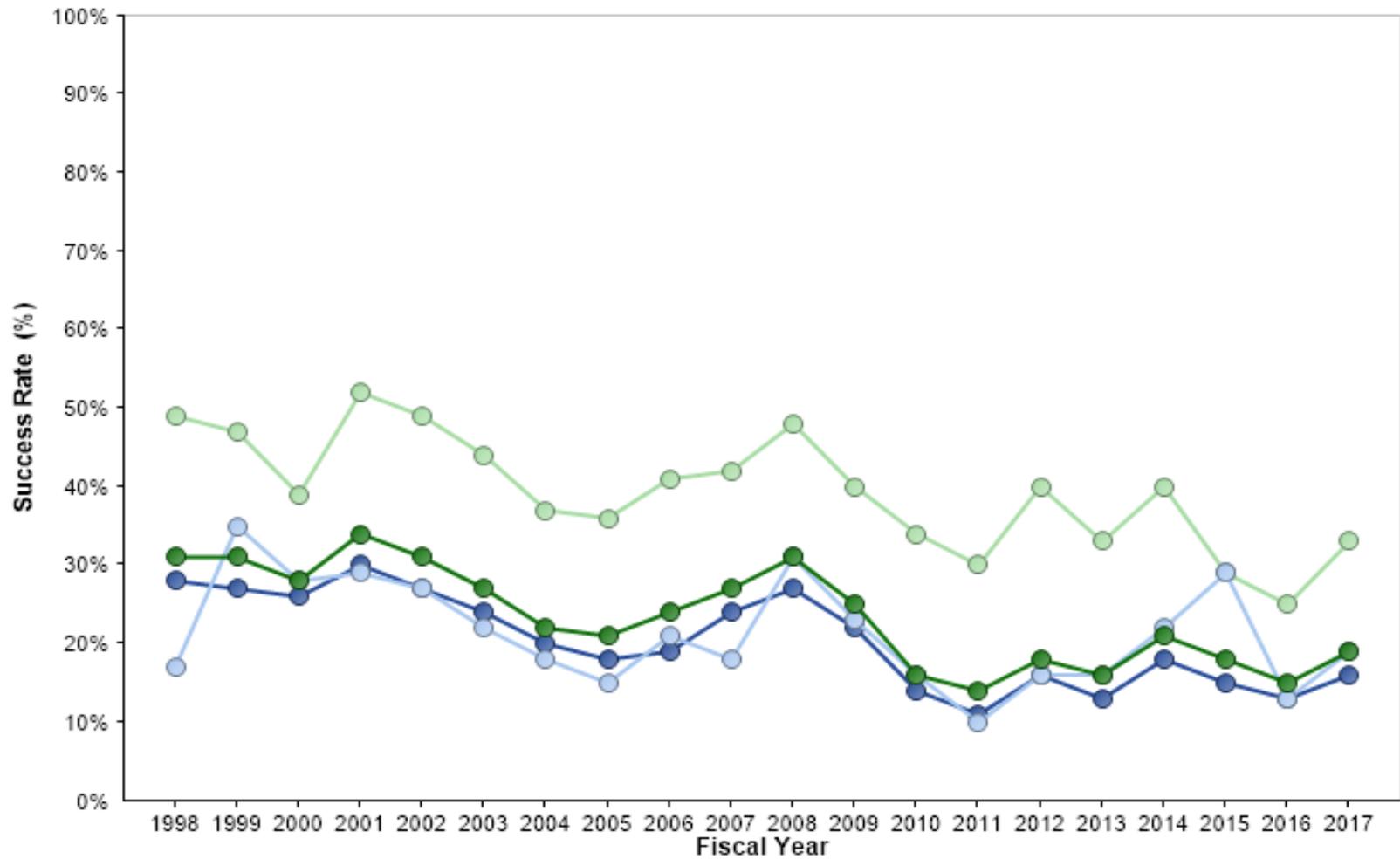
# Fast Track SBIR grants

## Applications, awards and success rates



# SBIR grants Success rates by phase

Phase I Phase II Fast Track Phase I, II and Fast Track Combined

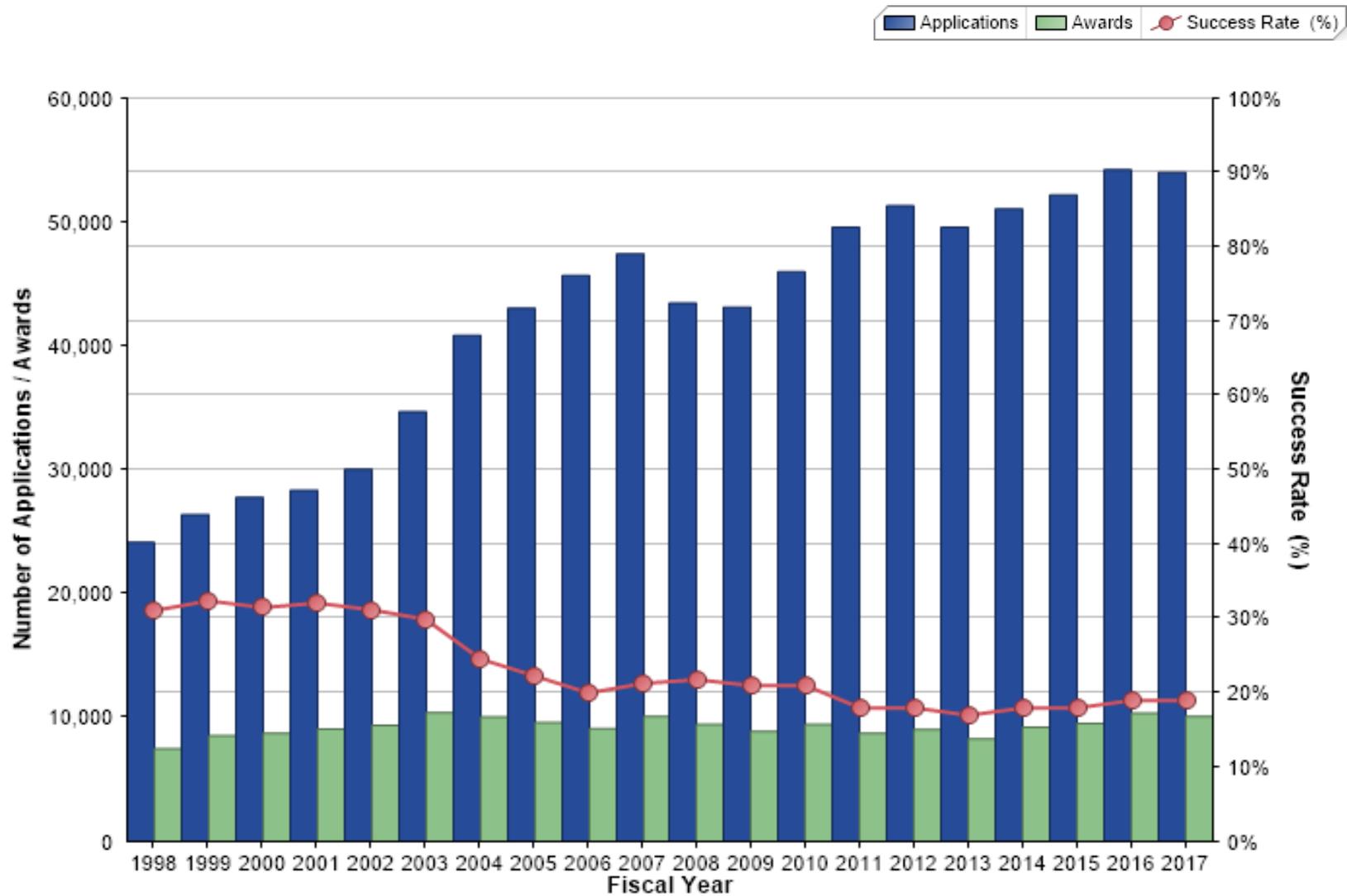




# SUCCESS RATES AND FUNDING RATES



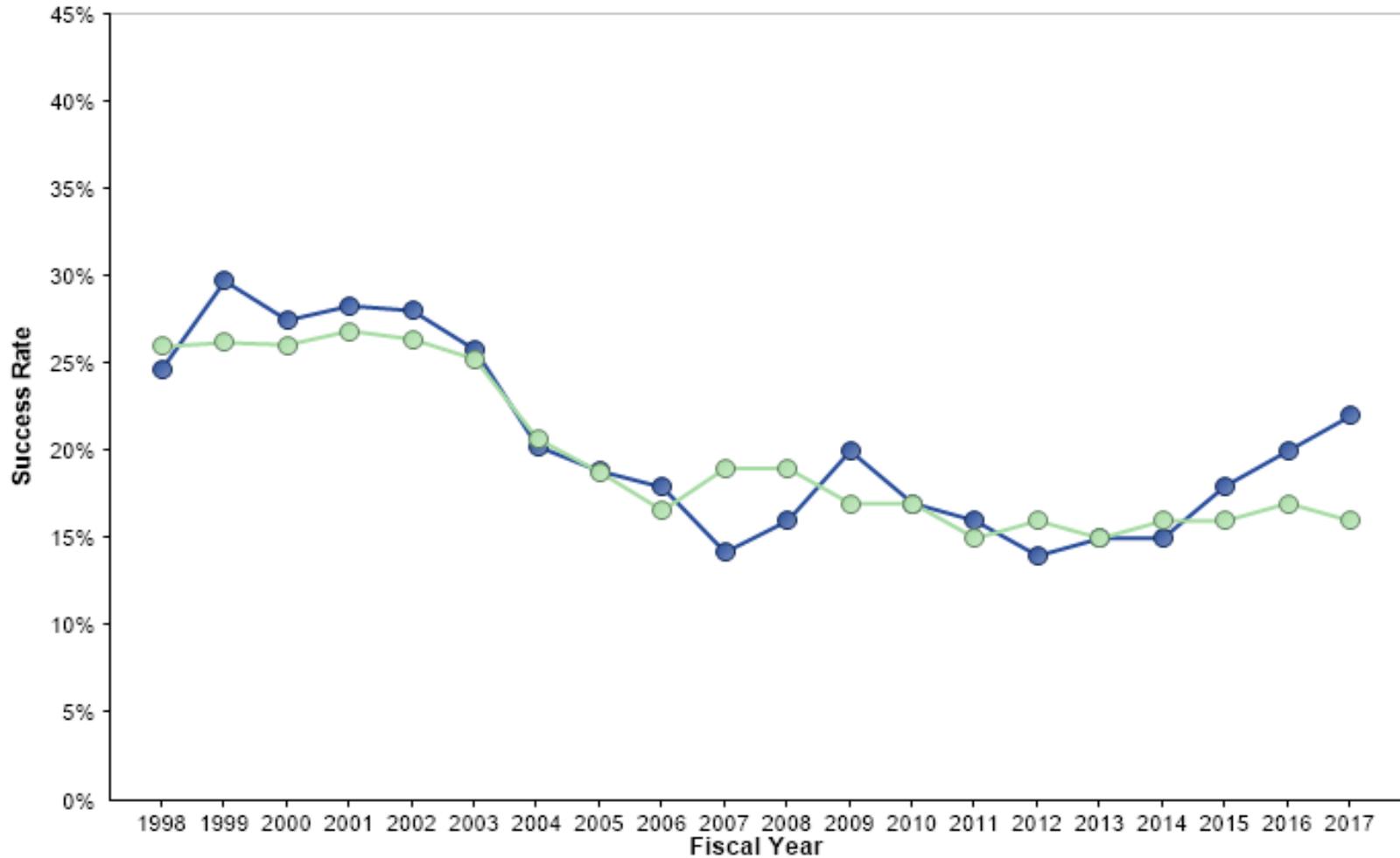
# Research Project Grants Competing Applications, awards, and success rates



# Research Project Grants

## Success rates of new (type 1) competing applications for targeted and untargeted research

Targeted    Untargeted



## Research And Training Grants: Success Rates By Mechanism and Selected Activity Codes

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
All Research Grants	33%	33%	34%	33%	34%	33%	32%	26%	24%	22%	24%	25%	23%	22%	19%	19%	18%	20%	20%	20%	20%	
Research Projects Grants	31%	31%	32%	32%	32%	31%	30%	25%	22%	20%	21%	22%	21%	21%	18%	18%	17%	18%	18%	19%	19%	
R01	30%	31%	32%	31%	31%	30%	30%	25%	22%	20%	23%	23%	22%	22%	18%	18%	17%	18%	19%	20%	19%	
R15	5%	9%	4%	7%	15%	37%	42%	31%	30%	25%	25%	28%	22%	19%	15%	15%	13%	14%	17%	17%	15%	
R21	44%	26%	32%	24%	30%	28%	24%	21%	18%	15%	16%	16%	14%	15%	13%	14%	13%	14%	14%	15%	14%	
All Other RPGs	34%	34%	40%	40%	40%	41%	36%	27%	29%	25%	21%	26%	27%	25%	25%	23%	22%	25%	25%	25%	27%	
SBIR	33%	31%	31%	28%	34%	31%	27%	22%	21%	24%	27%	31%	25%	16%	14%	18%	16%	21%	18%	15%	20%	
Phase I	29%	28%	27%	26%	30%	27%	24%	20%	18%	19%	24%	27%	22%	14%	11%	16%	13%	18%	15%	13%	16%	
Regular Phase II	52%	49%	48%	39%	53%	49%	44%	37%	36%	41%	42%	48%	40%	34%	30%	40%	33%	40%	29%	31%	37%	
Direct Phase II																					17%	28%
Phase IIB																					32%	40%
Fast track	32%	17%	35%	28%	29%	27%	22%	18%	15%	21%	18%	32%	23%	16%	10%	16%	16%	22%	20%	13%	19%	
CRP																					22%	29%
STTR	26%	28%	24%	28%	33%	37%	28%	38%	25%	21%	16%	19%	21%	22%	19%	23%	20%	22%	18%	16%	18%	
Phase I	25%	27%	23%	26%	30%	33%	27%	37%	22%	20%	14%	16%	19%	20%	16%	20%	19%	20%	16%	14%	16%	

## Research And Training Grants: Success Rates By Mechanism and Selected Activity Codes (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Regular Phase II	34%	35%	30%	42%	49%	63%	43%	49%	49%	26%	28%	39%	30%	35%	36%	39%	26%	42%	36%	31%	39%
Phase IIB																				100%	0%
Fast track		0%	14%	22%	25%	0%	28%	38%	24%	25%	11%	10%	15%	23%	10%	34%	29%	8%	16%	15%	17%
Research Centers	36%	42%	40%	49%	53%	40%	44%	31%	39%	34%	34%	40%	34%	37%	37%	33%	31%	38%	35%	36%	30%
Research Career Awards	51%	50%	46%	43%	46%	46%	44%	36%	35%	31%	31%	35%	38%	36%	32%	32%	29%	30%	31%	31%	31%
K01	35%	34%	39%	36%	43%	42%	43%	32%	31%	28%	32%	39%	36%	40%	34%	32%	33%	34%	34%	32%	32%
K02	53%	57%	71%	54%	56%	46%	48%	47%	38%	35%	42%	38%	36%	29%	38%	26%	23%	40%	19%	22%	56%
K07	49%	44%	43%	41%	36%	39%	36%	20%	22%	24%	26%	34%	39%	22%	25%	7%	26%	18%	25%	27%	15%
K08	55%	58%	52%	50%	50%	52%	47%	40%	39%	34%	36%	44%	47%	44%	42%	42%	36%	40%	40%	38%	44%
K12	100%	45%	36%	24%	43%	35%	46%	31%	28%	34%	45%	53%	52%	49%	32%	47%	45%	26%	44%	45%	46%
K22		0%	9%	19%	38%	40%	33%	32%	29%	29%	27%	23%	26%	25%	30%	24%	20%	15%	23%	24%	19%
K23		100%	42%	49%	46%	47%	42%	36%	34%	27%	33%	38%	44%	38%	34%	37%	32%	38%	35%	36%	34%
K24			44%	45%	45%	44%	45%	42%	51%	44%	47%	50%	47%	61%	45%	46%	39%	49%	48%	57%	40%
K25				42%	56%	52%	42%	30%	33%	31%	35%	48%	22%	30%	23%	25%	29%	27%	23%	25%	24%
K99										100%	20%	23%	29%	25%	22%	23%	22%	22%	22%	23%	23%
All Other Ks	66%	70%	54%	49%	51%	59%	56%	49%	60%	48%	49%	67%	66%	47%	47%	42%	53%	33%	36%	44%	41%
All Other Research Grants	57%	49%	53%	51%	50%	52%	53%	44%	43%	40%	54%	56%	55%	27%	40%	38%	38%	43%	44%	42%	42%
Training, Individual	40%	41%	45%	47%	49%	44%	39%	35%	31%	29%	30%	33%	32%	30%	29%	28%	28%	29%	26%	26%	28%
F30	60%	61%	63%	71%	81%	69%	57%	49%	44%	40%	45%	46%	49%	40%	35%	37%	40%	39%	35%	37%	39%
F31	46%	48%	51%	52%	58%	53%	43%	39%	31%	30%	34%	34%	36%	31%	34%	28%	30%	28%	25%	24%	26%



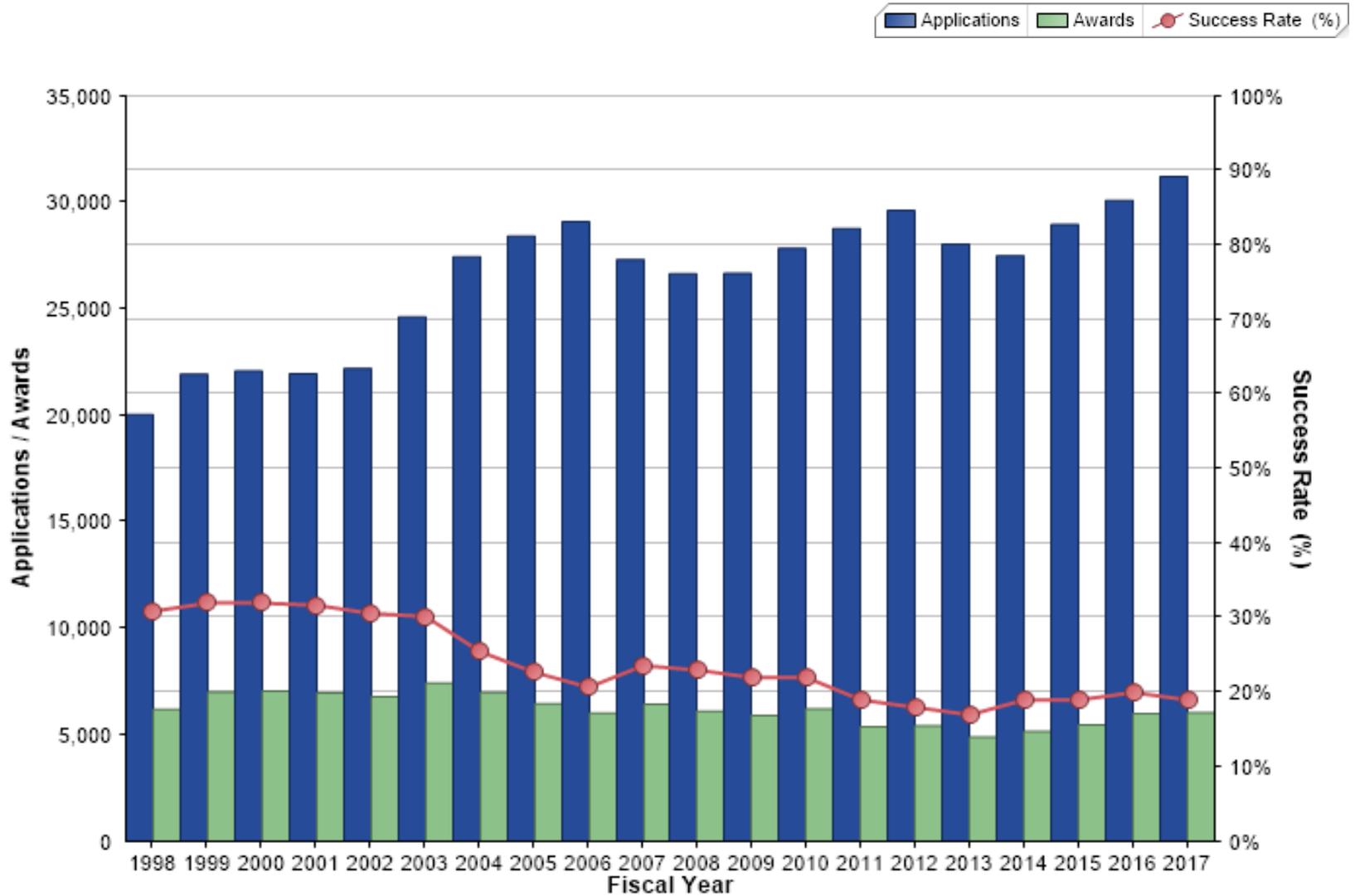
## Research And Training Grants: Success Rates By Mechanism and Selected Activity Codes (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
F32	38%	39%	44%	45%	45%	39%	37%	33%	30%	27%	26%	30%	27%	28%	26%	26%	24%	28%	25%	26%	28%
F33	35%	21%	35%	35%	44%	42%	53%	44%	36%	26%	52%	50%	50%	14%	17%	60%	40%	25%	17%	0%	0%
All Other Fs	47%	59%	48%	54%	42%	33%	67%	21%	33%	15%	75%	0%	18%	0%	9%	25%	0%	0%	0%	25%	26%
Training, Institutional	62%	64%	63%	66%	63%	58%	54%	48%	43%	44%	48%	50%	50%	54%	48%	48%	42%	53%	49%	52%	51%
T32	64%	64%	64%	67%	62%	58%	53%	49%	42%	42%	49%	48%	50%	52%	47%	48%	42%	52%	49%	53%	51%
T34	50%	53%	51%	47%	70%	54%	48%	50%	36%	33%	47%	31%	33%	50%	29%	48%	48%	47%	32%	32%	35%
All Other Ts	39%	74%	65%	70%	73%	72%	66%	37%	60%	62%	34%	78%	63%	74%	65%	48%	38%	65%	57%	56%	54%



# R01-Equivalent grants

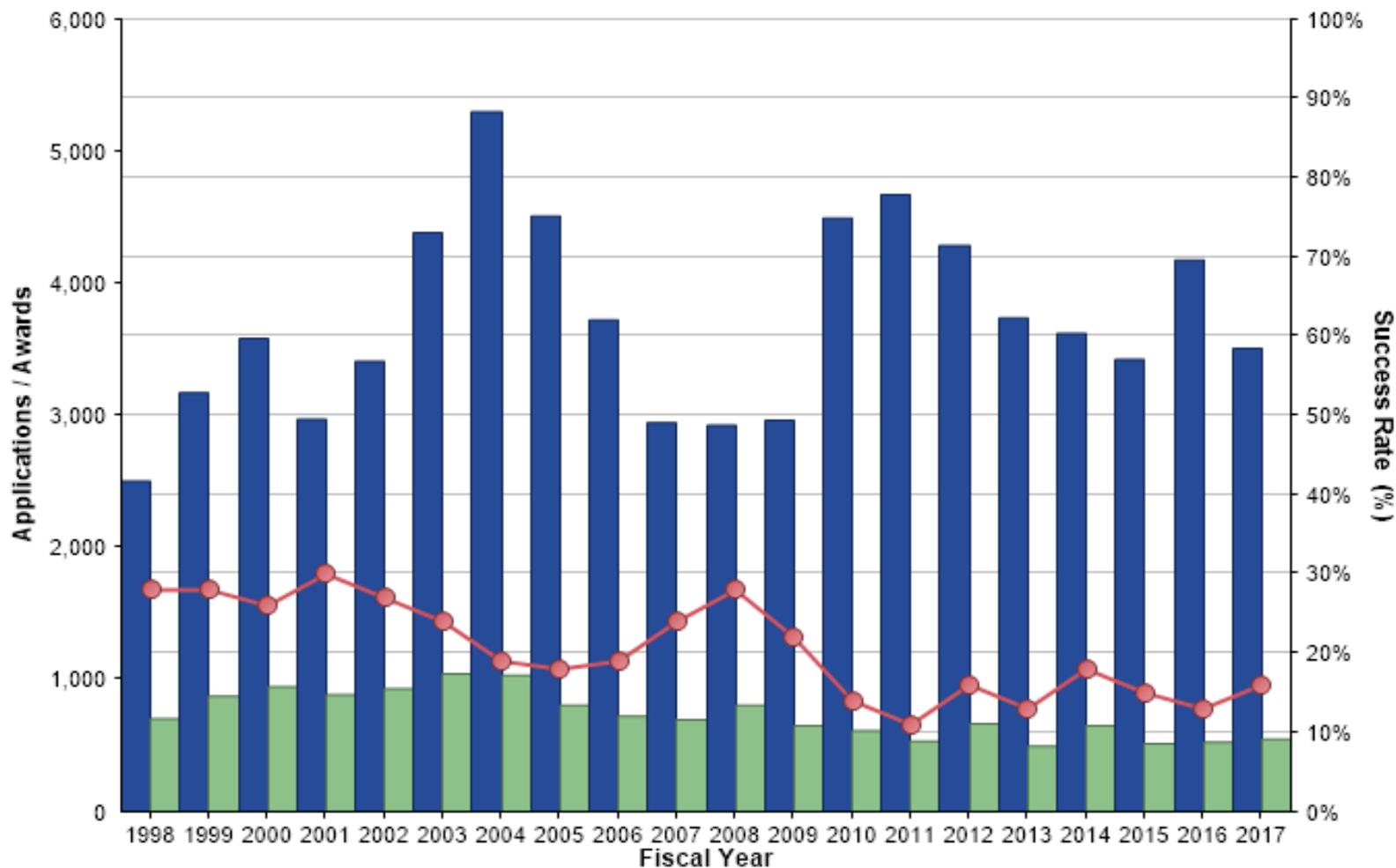
## Competing Applications, awards, and success rates



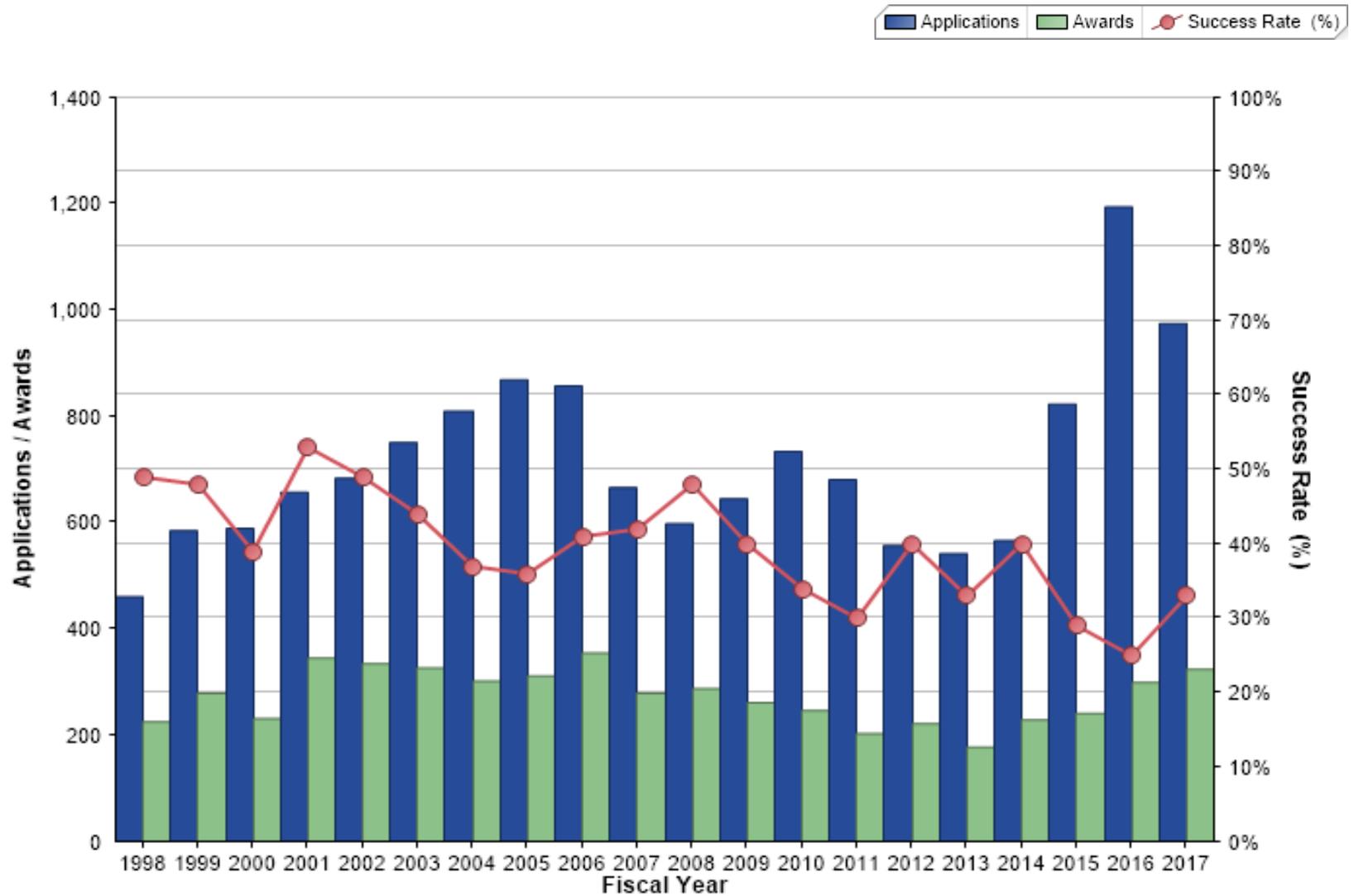
# SBIR grants, Phase I

## Competing Applications, awards and success rates

■ Applications ■ Awards ● Success Rate (%)

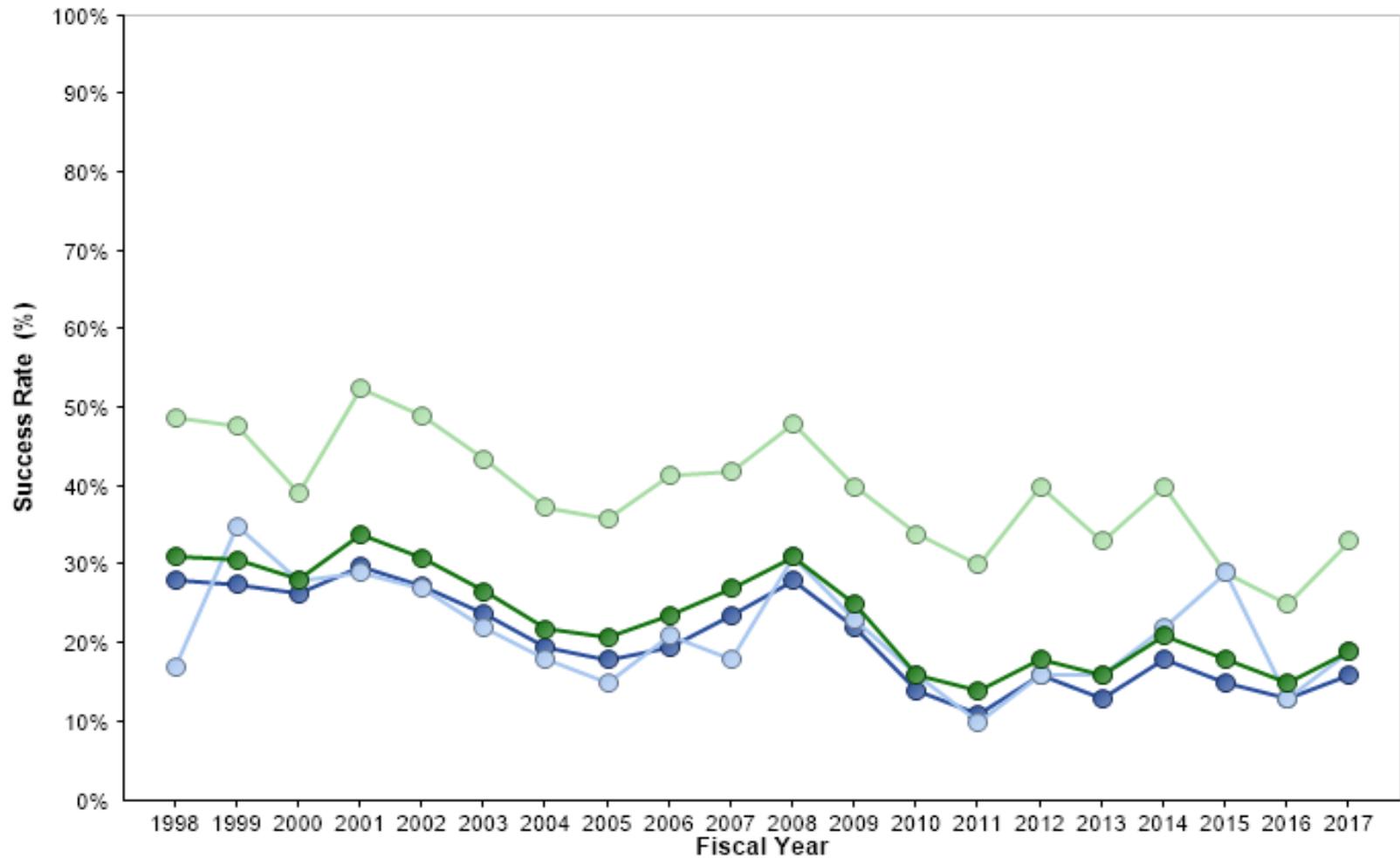


# SBIR grants, Phase II Competing Applications, awards and success rates



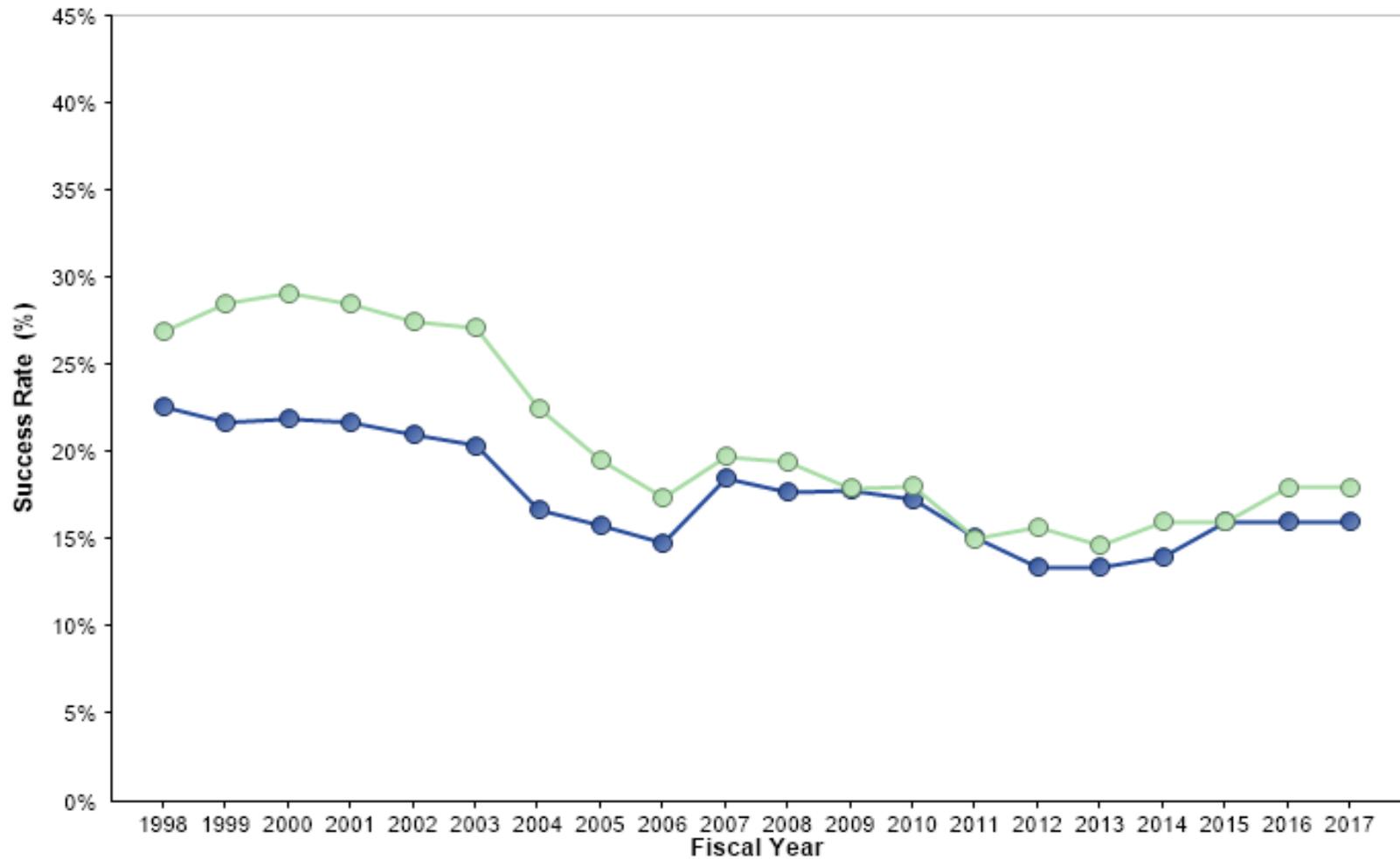
# SBIR grants Success rates by phase

Phase I Phase II Fast Track Phase I, II and Fast Track Combined



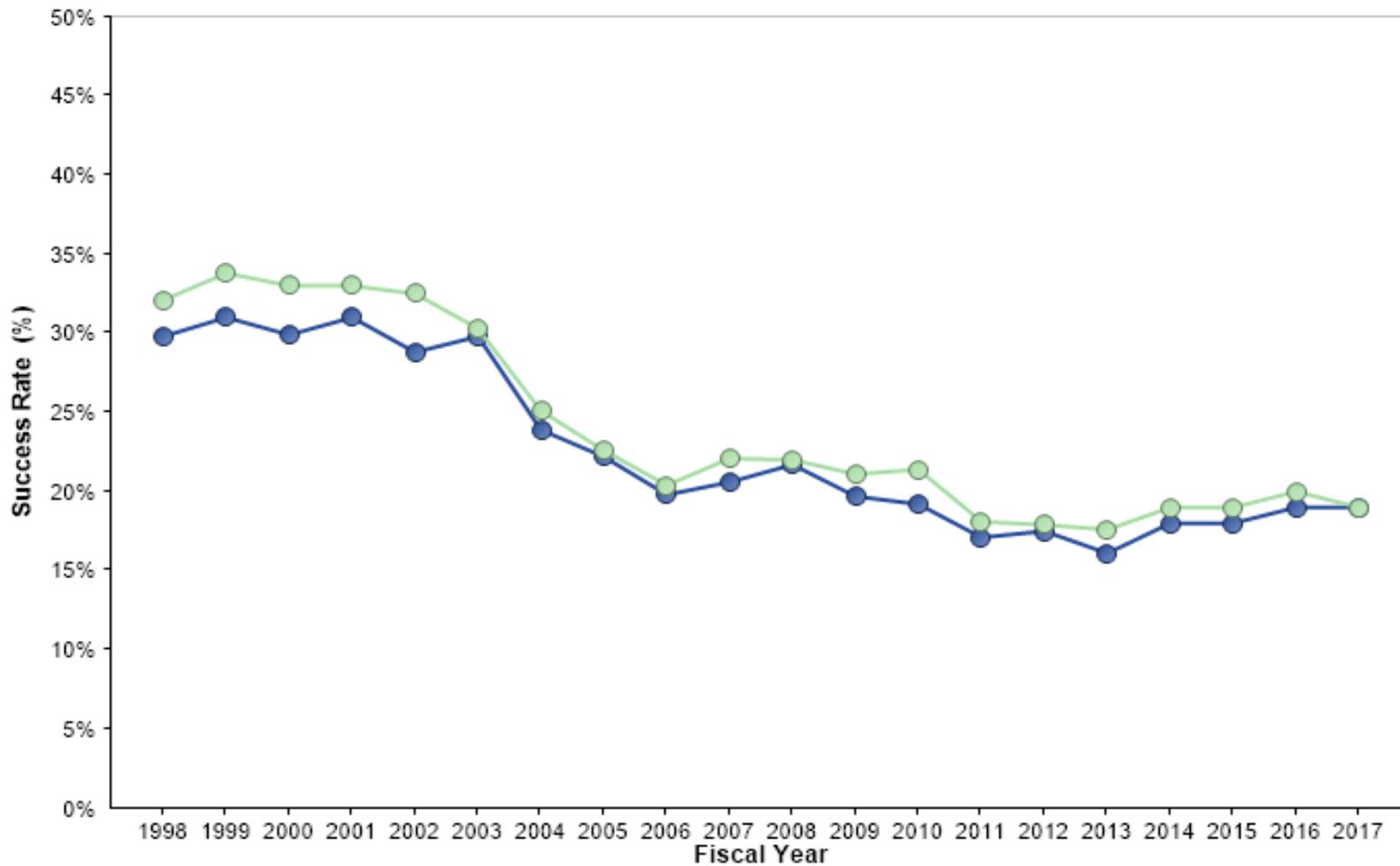
## R01-Equivalent grants, New (Type 1) Success rates, by career stage of investigator

First-Time Established



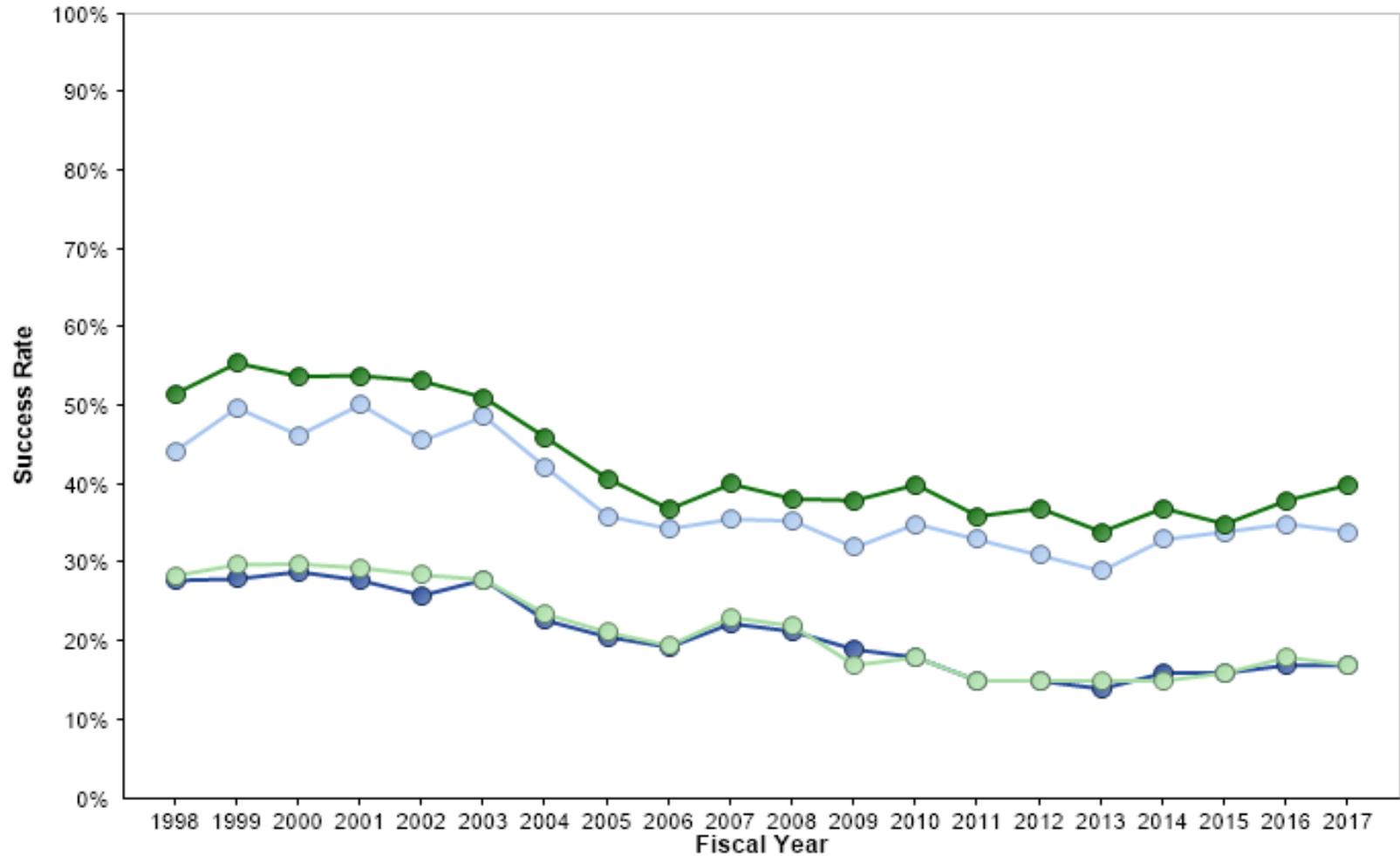
# Research Project Grants Success rates, by gender

Women Men

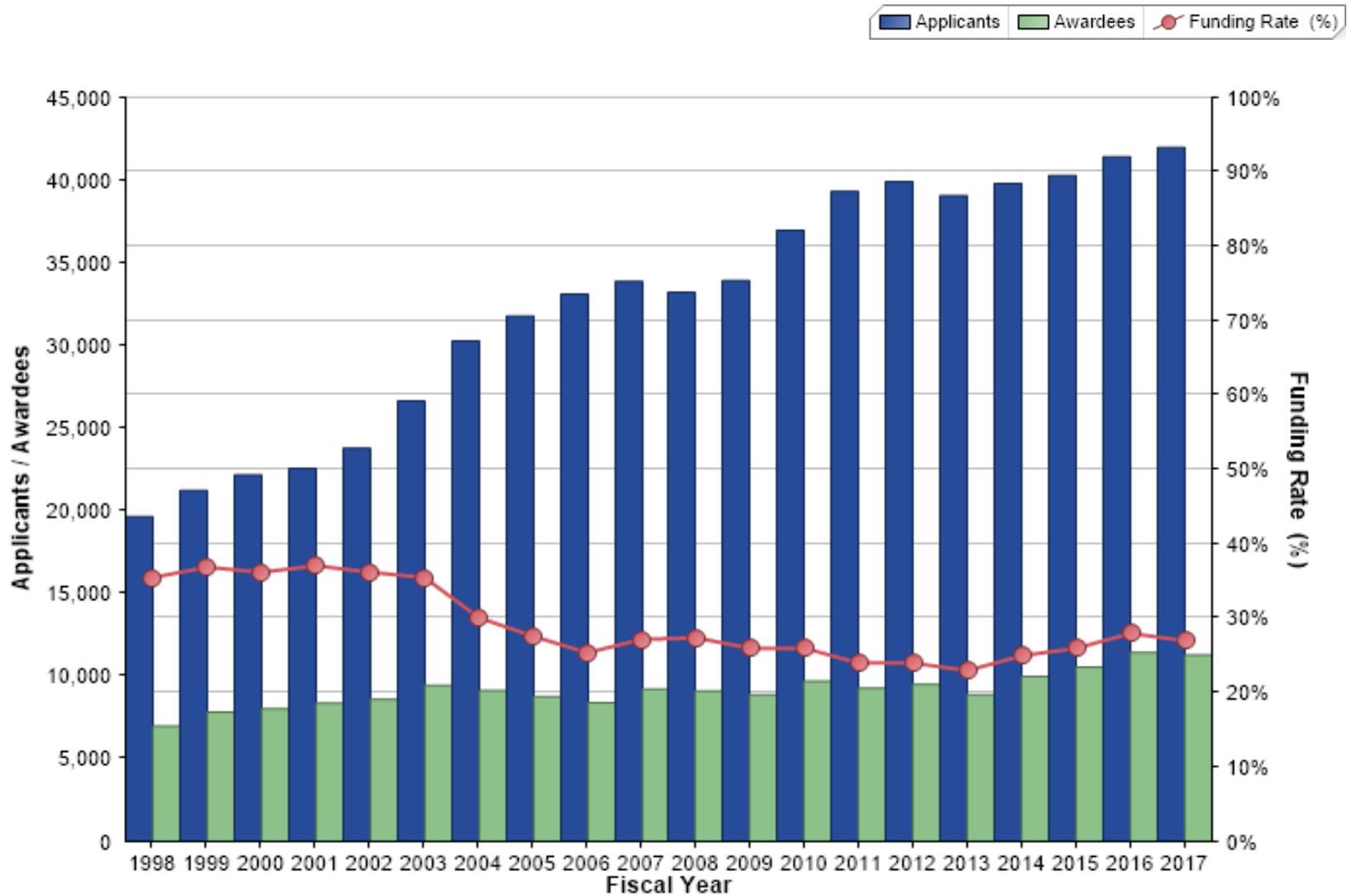


# R01-Equivalent grants Success Rates, by gender and type of application

Women, New (Type 1) Men, New (Type 1) Women, Renewal (Type 2) Men, Renewal (Type 2)

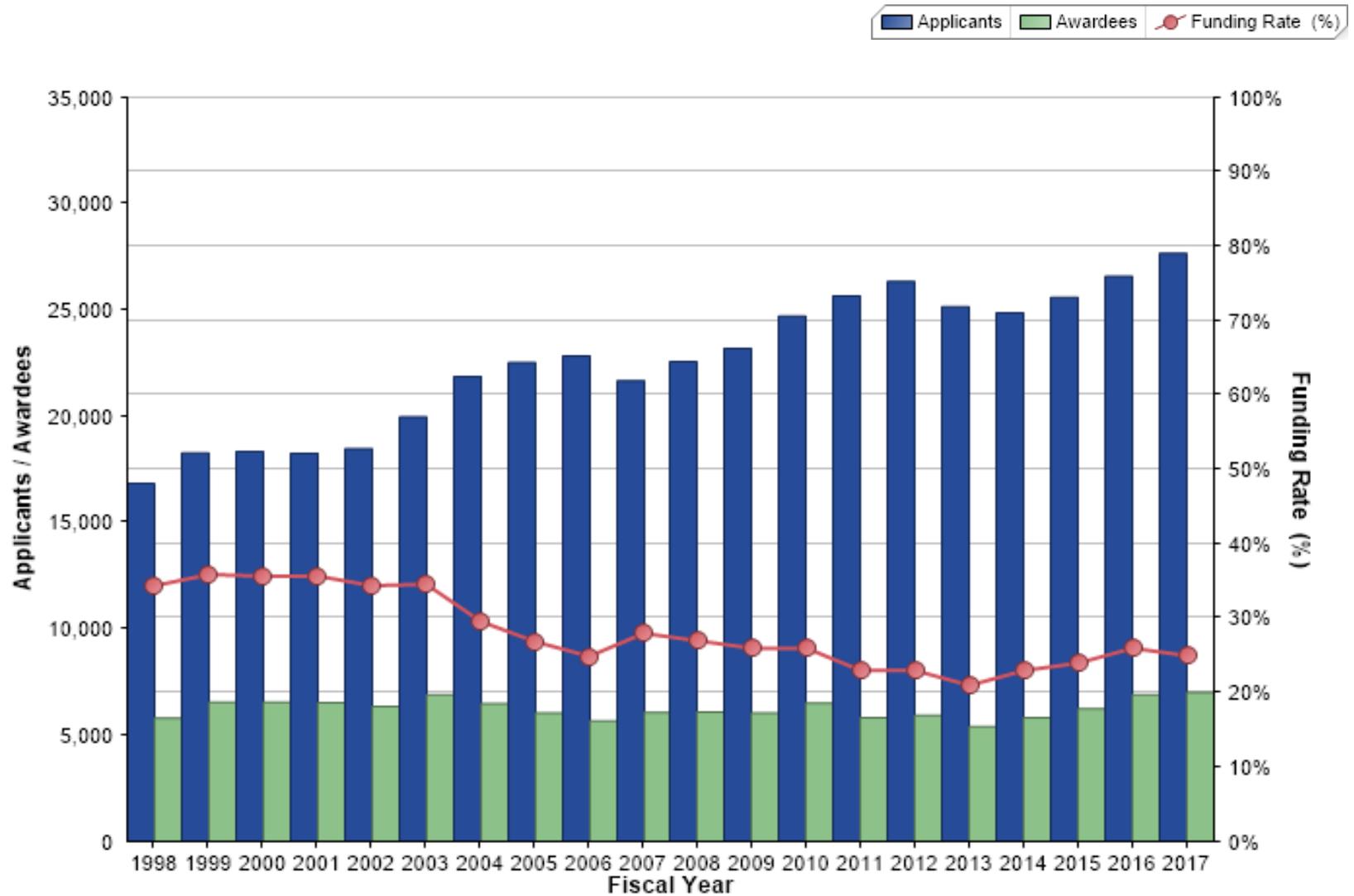


# Research Project Grant investigators Competing Applicants, awardees, and funding rates



# R01-Equivalent investigators

## Competing Applicants, awardees, and funding rates



## Research Career Development Awards: Competing applications, awards, and success rates

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Applications	1,029	1,082	1,464	1,921	1,783	2,009	2,147	2,642	2,962	2,712	3,340	2,832	2,518	2,825	2,848	2,940	2,900	3,113	3,122	3,208	3,334
K01	233	266	277	383	376	422	503	563	645	654	578	443	395	465	441	522	483	569	598	629	645
K02	117	111	90	98	116	106	100	114	112	93	67	72	73	65	64	54	48	35	31	23	18
K07	51	88	37	75	61	72	76	154	169	144	88	84	54	72	75	68	83	72	75	62	69
K08	557	536	479	496	515	560	592	669	676	635	524	509	466	480	425	371	346	393	430	429	447
K12	15	42	53	78	23	124	52	106	126	70	106	36	42	43	76	105	75	27	79	60	69
K22		8	55	111	87	117	143	146	171	173	149	115	111	124	88	103	172	214	227	207	237
K23		1	203	394	399	421	505	635	679	666	650	574	517	558	599	555	555	524	589	575	641
K24			185	172	128	108	89	120	149	127	133	97	87	105	87	111	104	88	94	90	86
K25				19	41	42	48	80	113	99	78	50	41	69	82	75	59	59	53	57	51
K99										1	893	795	703	778	832	911	926	1,114	932	1,004	1,005
All Other Ks	56	30	85	95	37	37	39	55	122	50	74	57	29	66	79	65	49	18	14	72	66
Awards	527	544	673	835	829	928	938	938	1,046	829	1,036	1,002	963	1,004	899	930	850	932	959	998	1,020
K01	82	90	107	137	160	179	216	179	198	180	183	172	144	185	151	168	160	195	201	202	203
K02	62	63	64	53	65	49	48	54	42	33	28	27	26	19	24	14	11	14	6	5	10
K07	25	39	16	31	22	28	27	31	37	35	23	29	21	16	19	5	22	13	19	17	10
K08	306	311	249	250	255	293	280	267	266	215	189	222	221	211	177	157	124	158	170	162	195
K12	15	19	19	19	10	44	24	33	35	24	48	19	22	21	24	49	34	7	35	27	32
K22		0	5	21	33	47	47	47	50	50	40	26	29	31	26	25	34	33	52	50	44
K23		1	86	192	184	196	214	226	232	180	217	216	227	211	203	203	178	201	206	207	218
K24			81	77	58	48	40	50	76	56	62	49	41	64	39	51	41	43	45	51	34



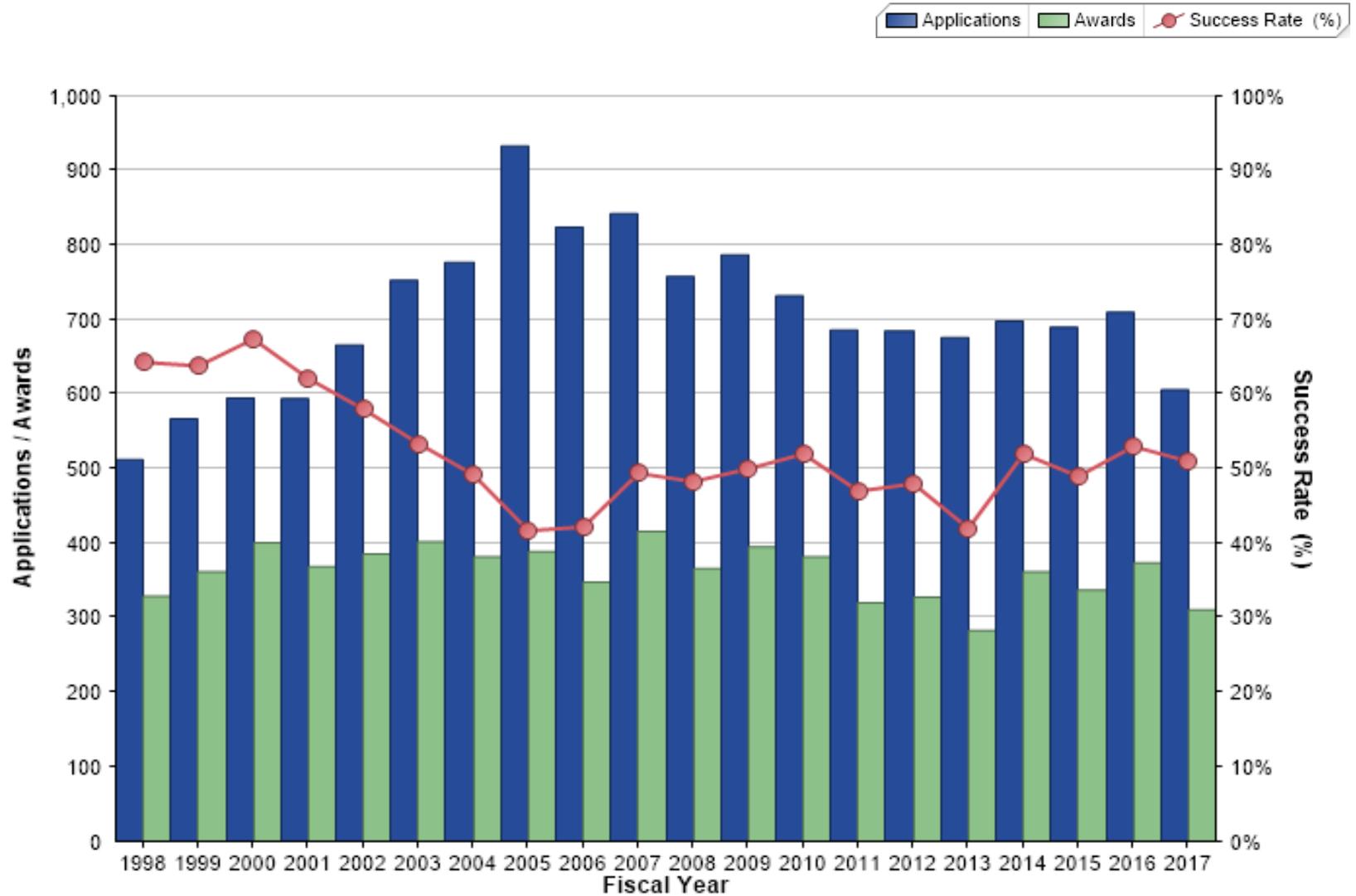
## Research Career Development Awards: Competing applications, awards, and success rates (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
K25				8	23	22	20	24	37	31	27	24	9	21	19	19	17	16	12	14	12
K99										1	183	180	204	194	180	212	203	246	208	231	235
All Other Ks	37	21	46	47	19	22	22	27	73	24	36	38	19	31	37	27	26	6	5	32	27
Success Rates	51%	50%	46%	43%	46%	46%	44%	36%	35%	31%	31%	35%	38%	36%	32%	32%	29%	30%	31%	31%	31%
K01	35%	34%	39%	36%	43%	42%	43%	32%	31%	28%	32%	39%	36%	40%	34%	32%	33%	34%	34%	32%	31%
K02	53%	57%	71%	54%	56%	46%	48%	47%	38%	35%	42%	38%	36%	29%	38%	26%	23%	40%	19%	22%	56%
K07	49%	44%	43%	41%	36%	39%	36%	20%	22%	24%	26%	34%	39%	22%	25%	7%	27%	18%	25%	27%	14%
K08	55%	58%	52%	50%	50%	52%	47%	40%	39%	34%	36%	44%	47%	44%	42%	42%	36%	40%	40%	38%	44%
K12	100%	45%	36%	24%	43%	35%	46%	31%	28%	34%	45%	53%	52%	49%	32%	47%	45%	26%	44%	45%	46%
K22		0%	9%	19%	38%	40%	33%	32%	29%	29%	27%	23%	26%	25%	30%	24%	20%	15%	23%	24%	19%
K23		100%	42%	49%	46%	47%	42%	36%	34%	27%	33%	38%	44%	38%	34%	37%	32%	38%	35%	36%	34%
K24			44%	45%	45%	44%	45%	42%	51%	44%	47%	50%	47%	61%	45%	46%	39%	49%	48%	57%	40%
K25				42%	56%	52%	42%	30%	33%	31%	35%	48%	22%	30%	23%	25%	29%	27%	23%	25%	24%
K99										100%	20%	23%	29%	25%	22%	23%	22%	22%	22%	23%	23%
All Other Ks	66%	70%	54%	49%	51%	59%	56%	49%	60%	48%	49%	67%	66%	47%	47%	42%	53%	33%	36%	44%	41%

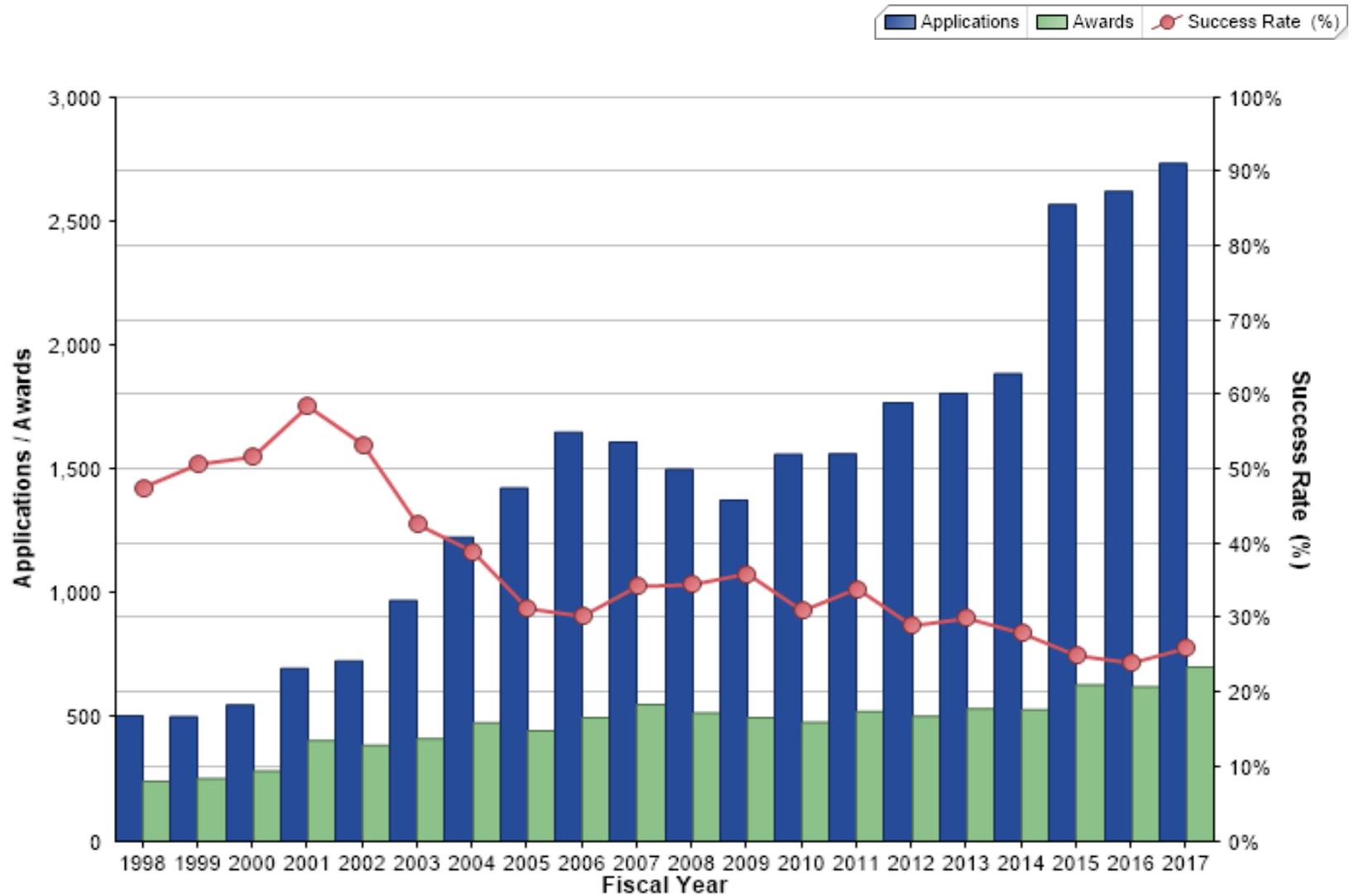


# Kirschstein-NRSA institutional research training grants

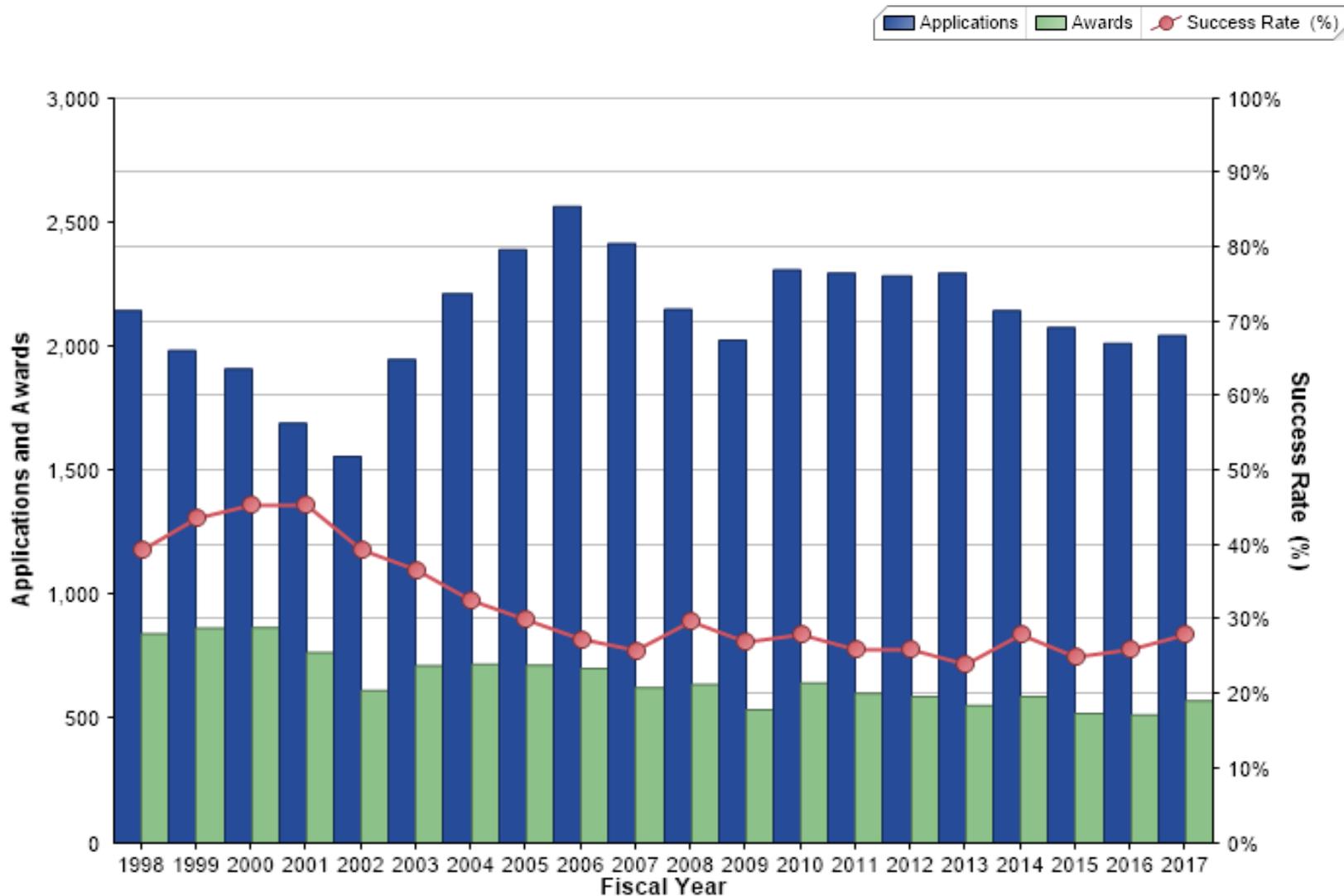
## Competing Applications, awards, and success rates



# Kirschstein-NRSA pre-doctoral fellowships (F31s) Competing Applications, awards, and success rates



# Kirschstein-NRSA post-doctoral fellowships (F32s) Competing Applications, awards, and success rates

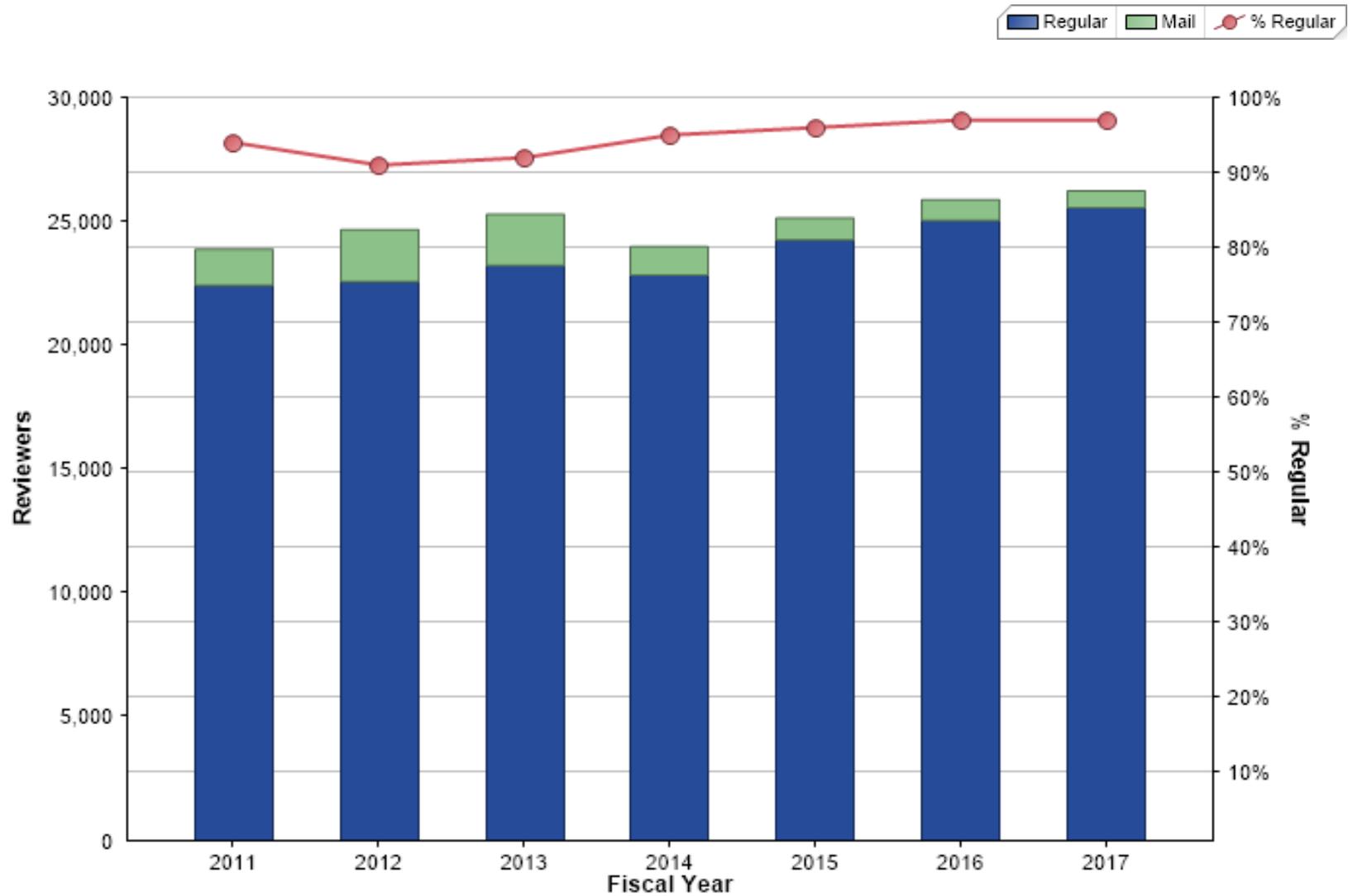




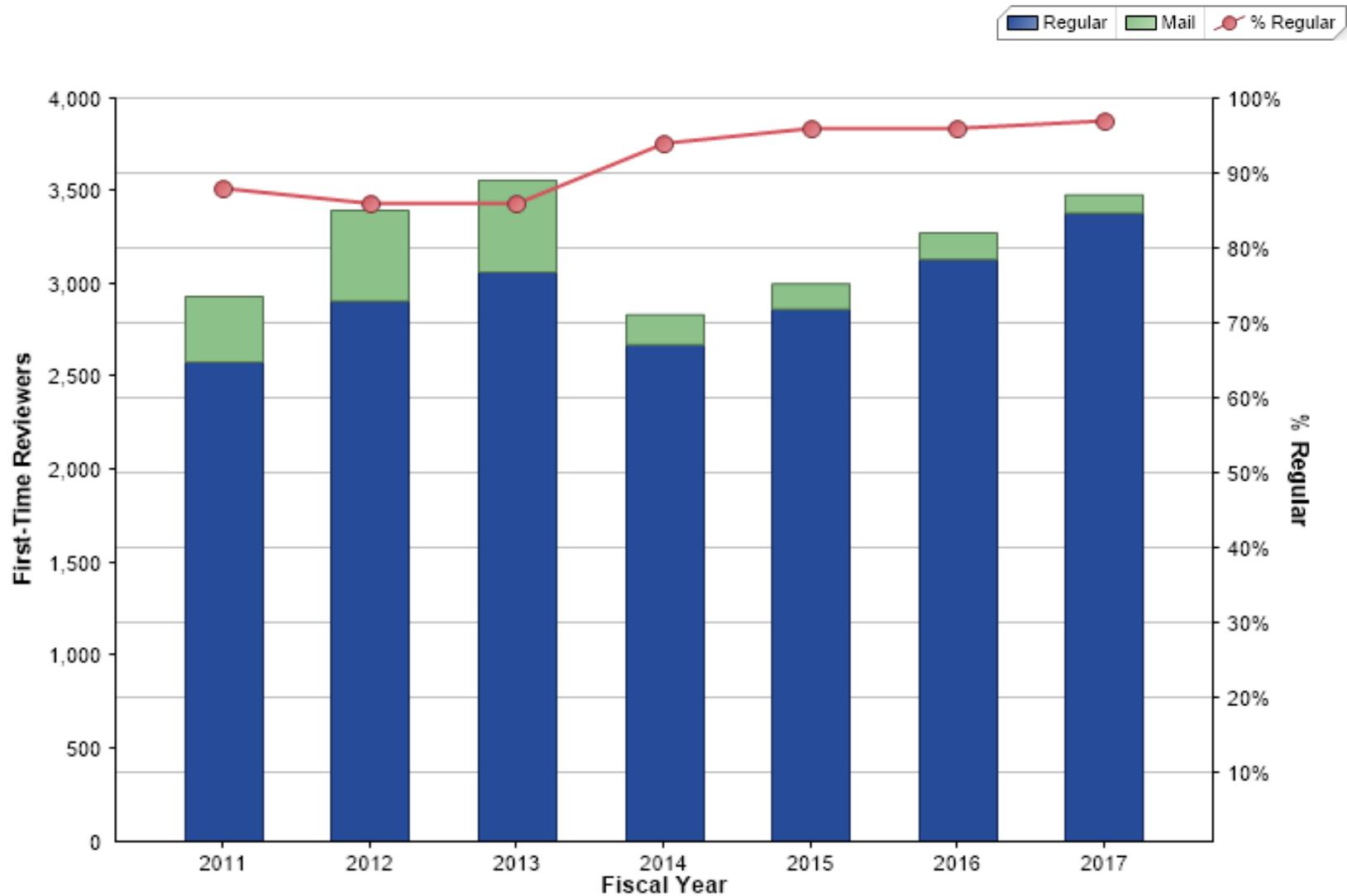
# NIH Peer Review



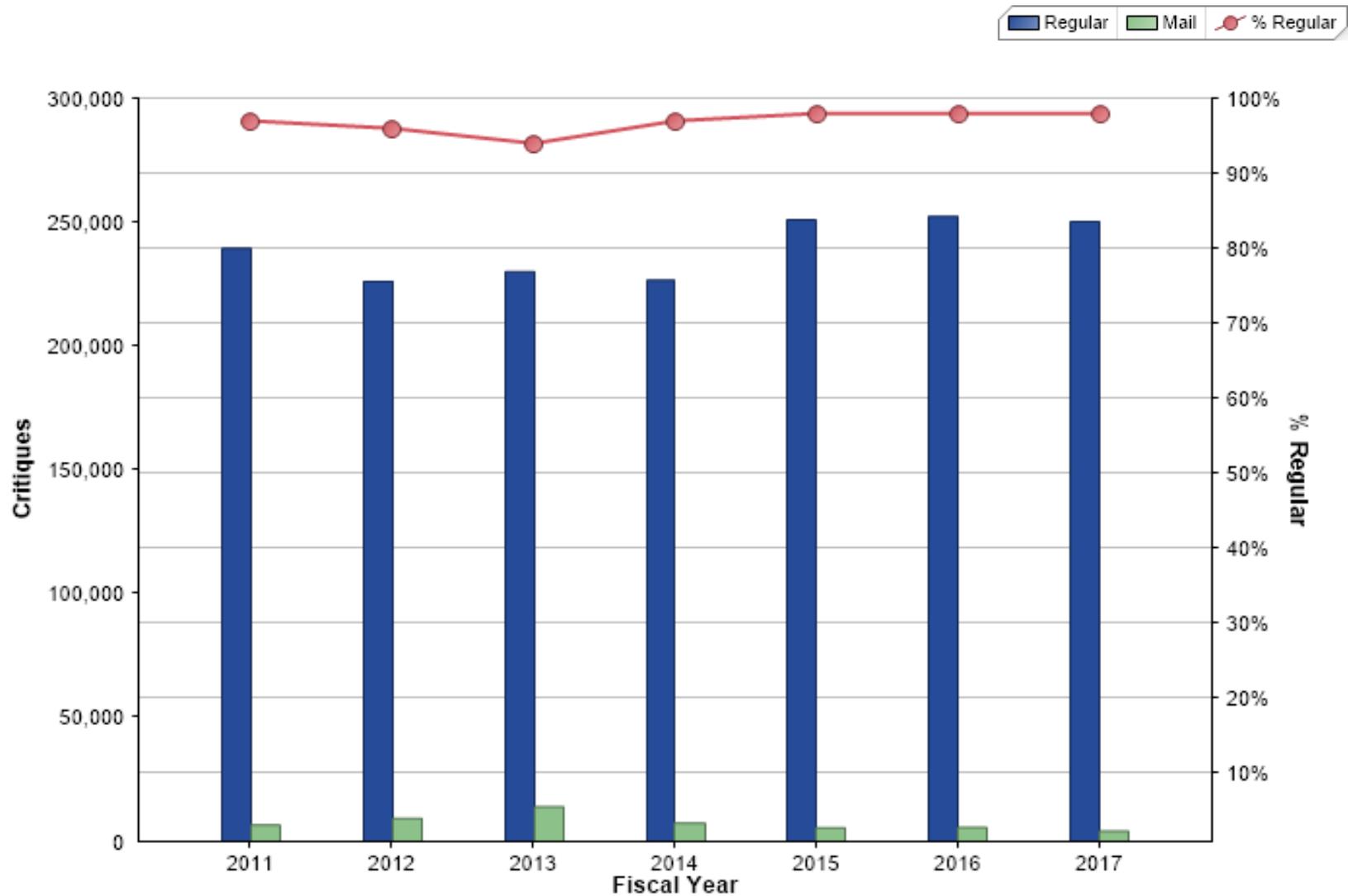
## Peer Reviewers, by Fiscal Year and Type of Review



# First-Time Peer Reviewers, by Fiscal Year and Type of Review



## Peer Review Critiques, by Fiscal Year and Type of Review

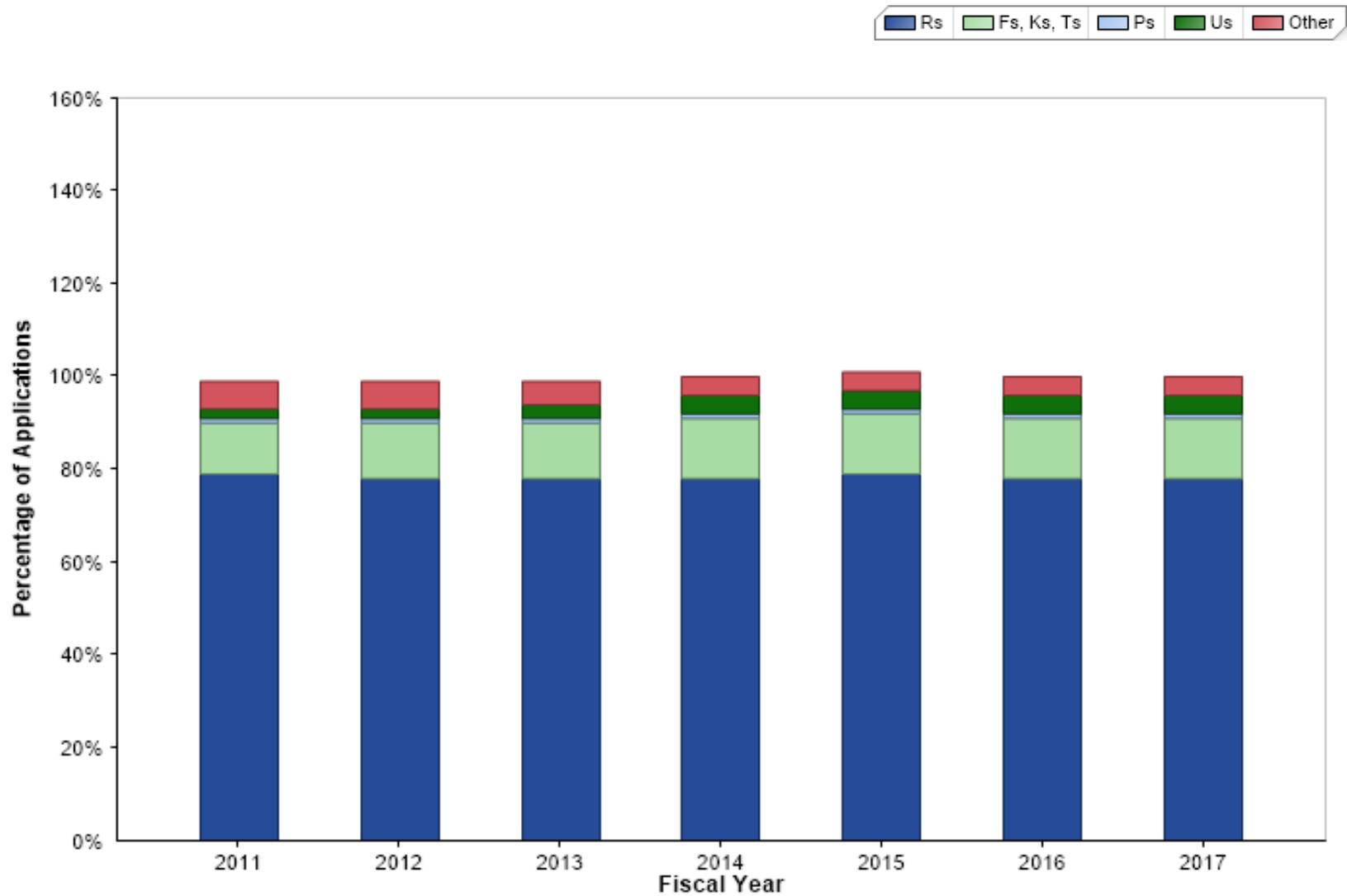


## Peer Review Meetings, by Fiscal Year

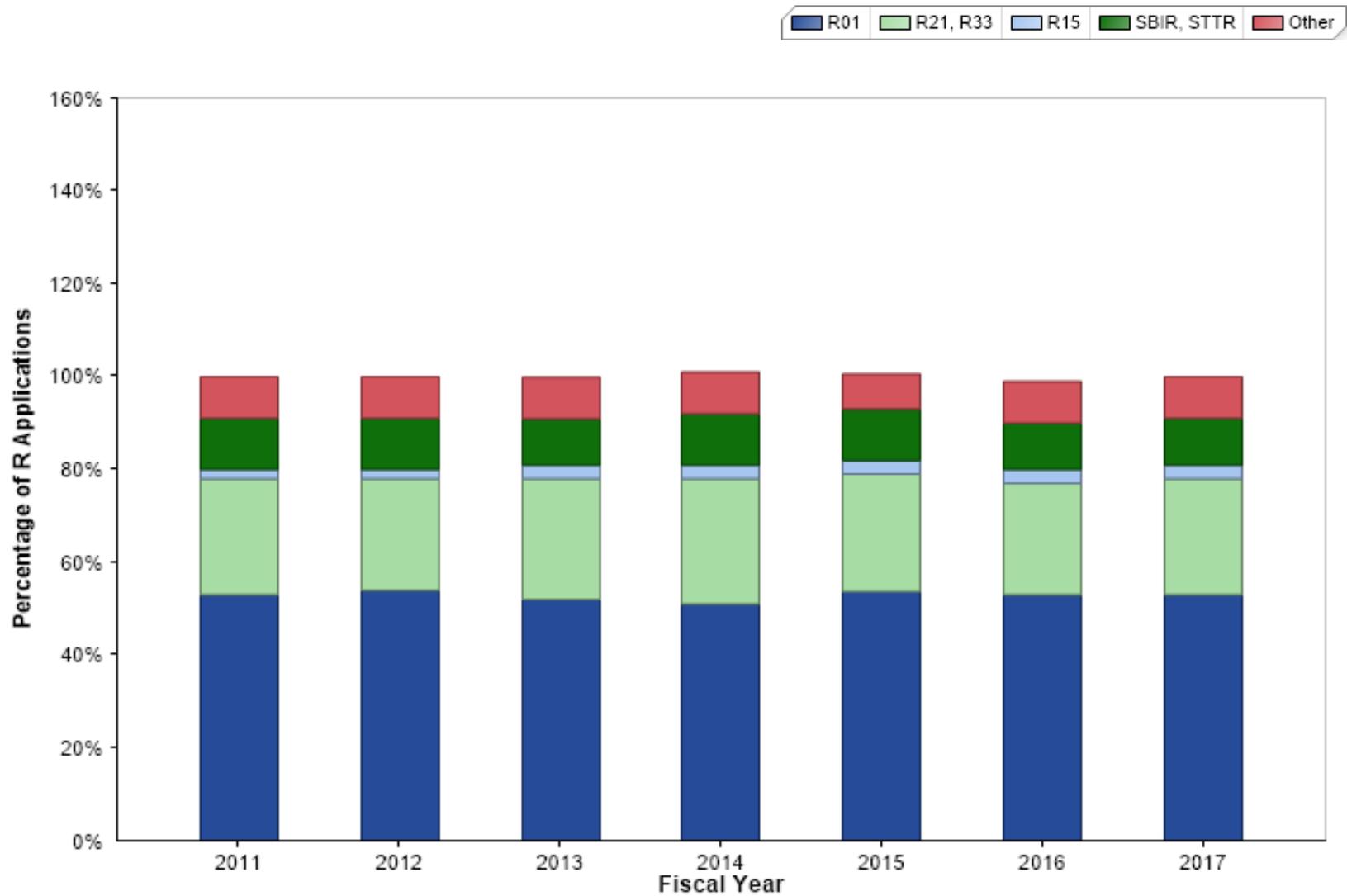
FY	NUMBER OF MEETINGS
2011	2,535
2012	2,515
2013	2,549
2014	2,603
2015	2,652
2016	2,780
2017	2,695



## Peer Reviewed Applications, by Fiscal Year and Major Activity Code



# Peer Reviewed Applications, by Fiscal Year and Research Project Activity Code

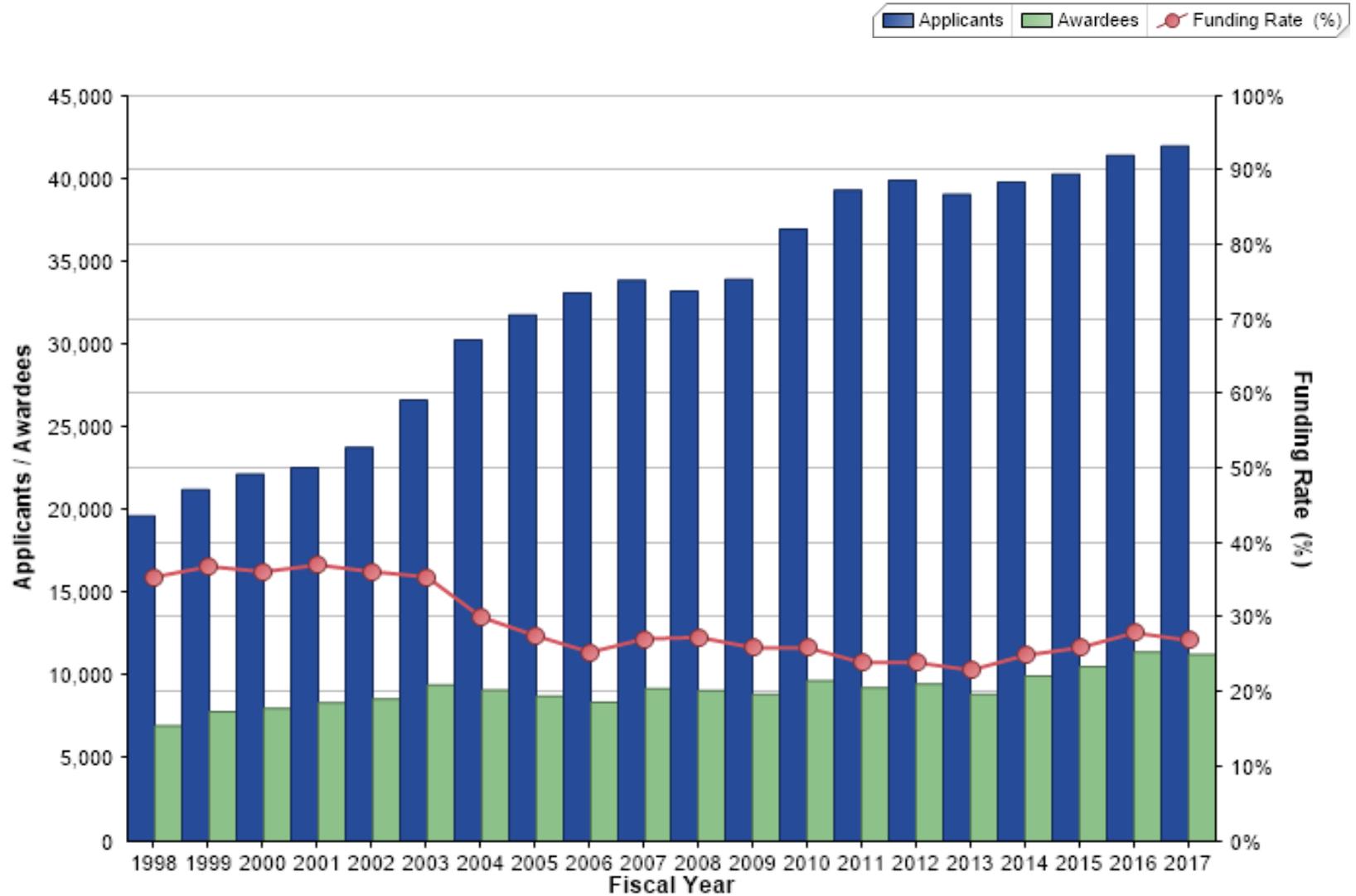




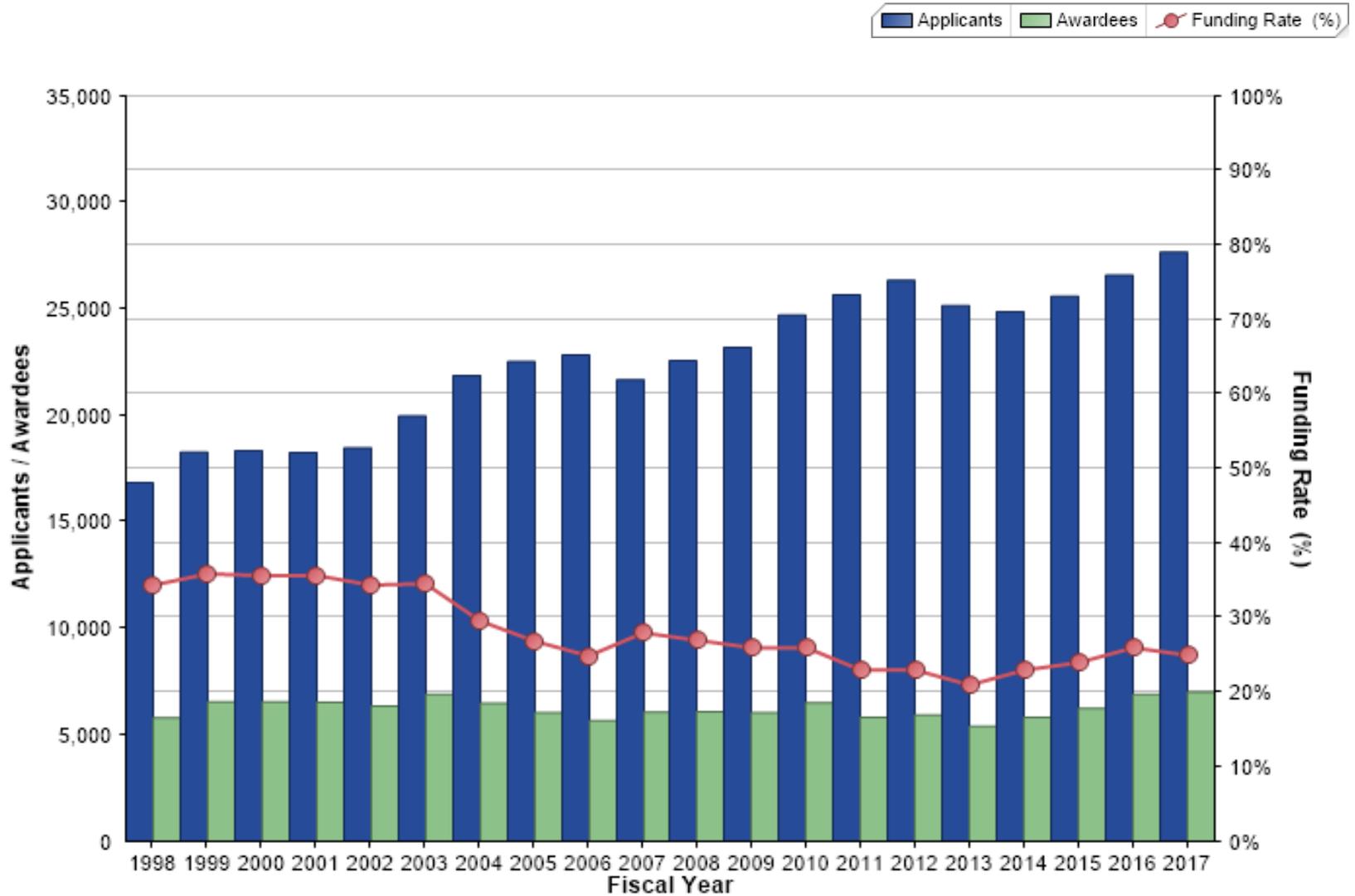
# THE NIH-FUNDED RESEARCH- WORKFORCE



# Research Project Grant investigators Applicants, awardees, and funding rates



# R01-Equivalent investigators Applicants, awardees, and funding rates



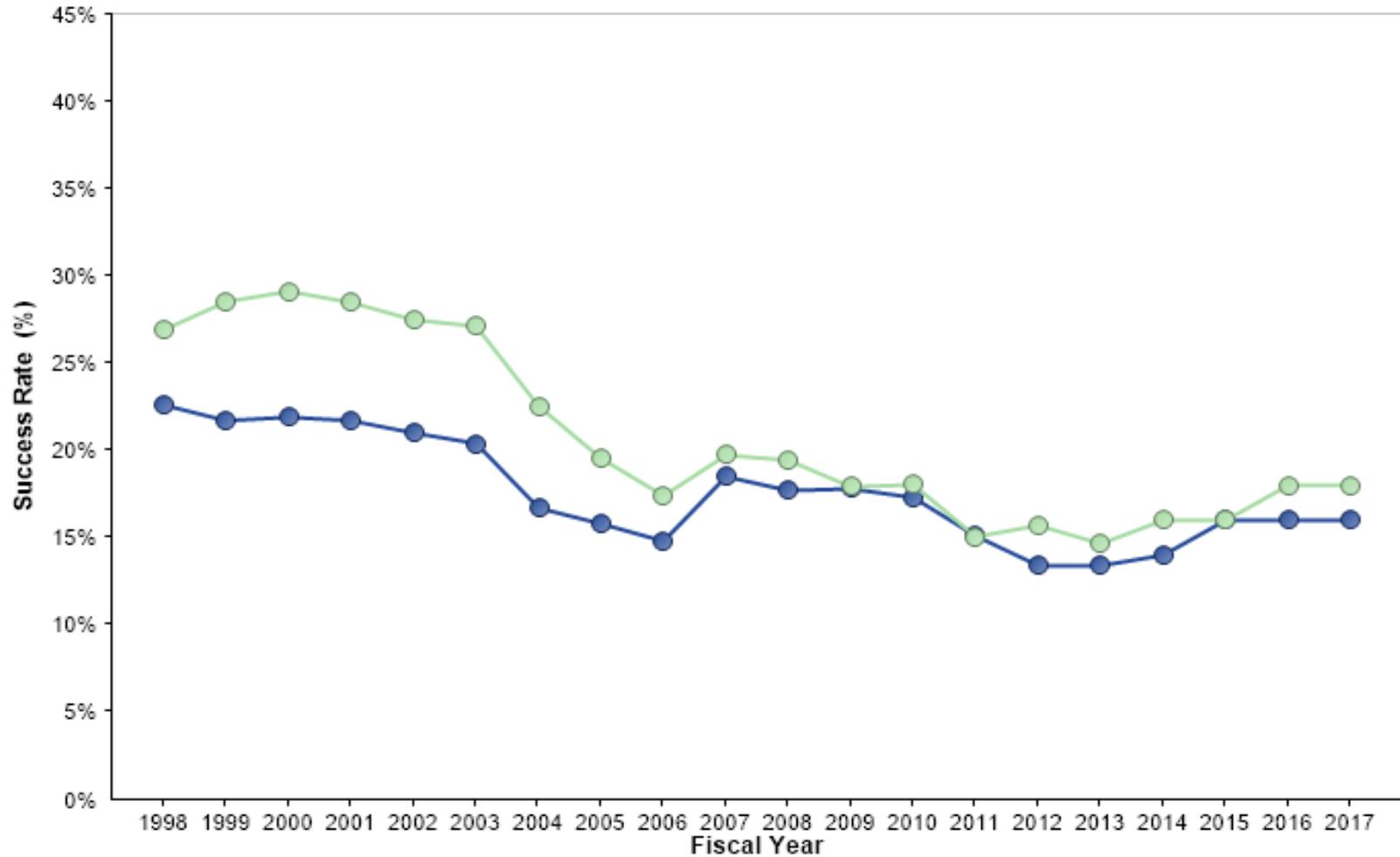


# NEW NIH INVESTIGATORS



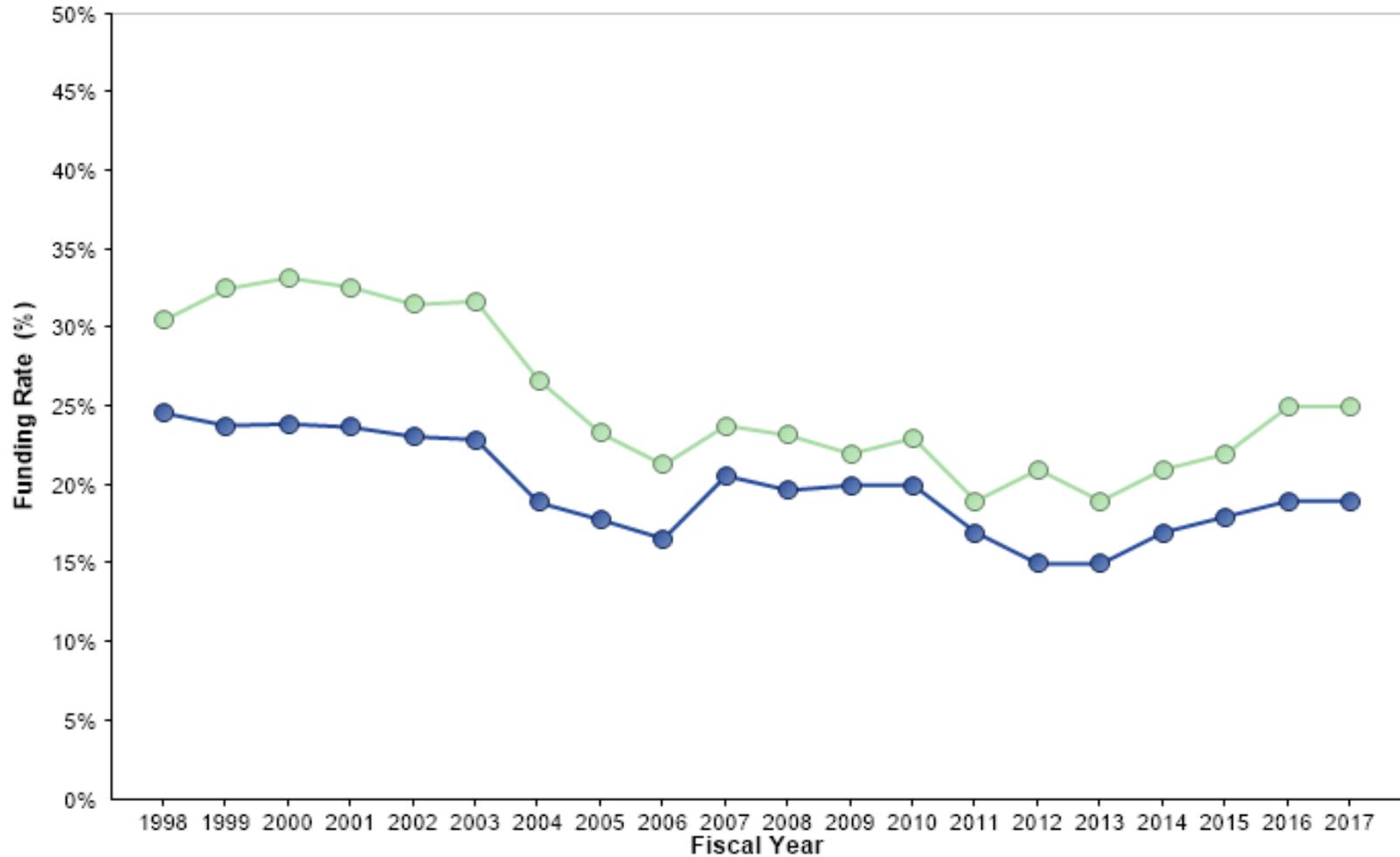
## R01-Equivalent grants, New (Type 1) Success rates, by career stage of investigator

First-Time Established



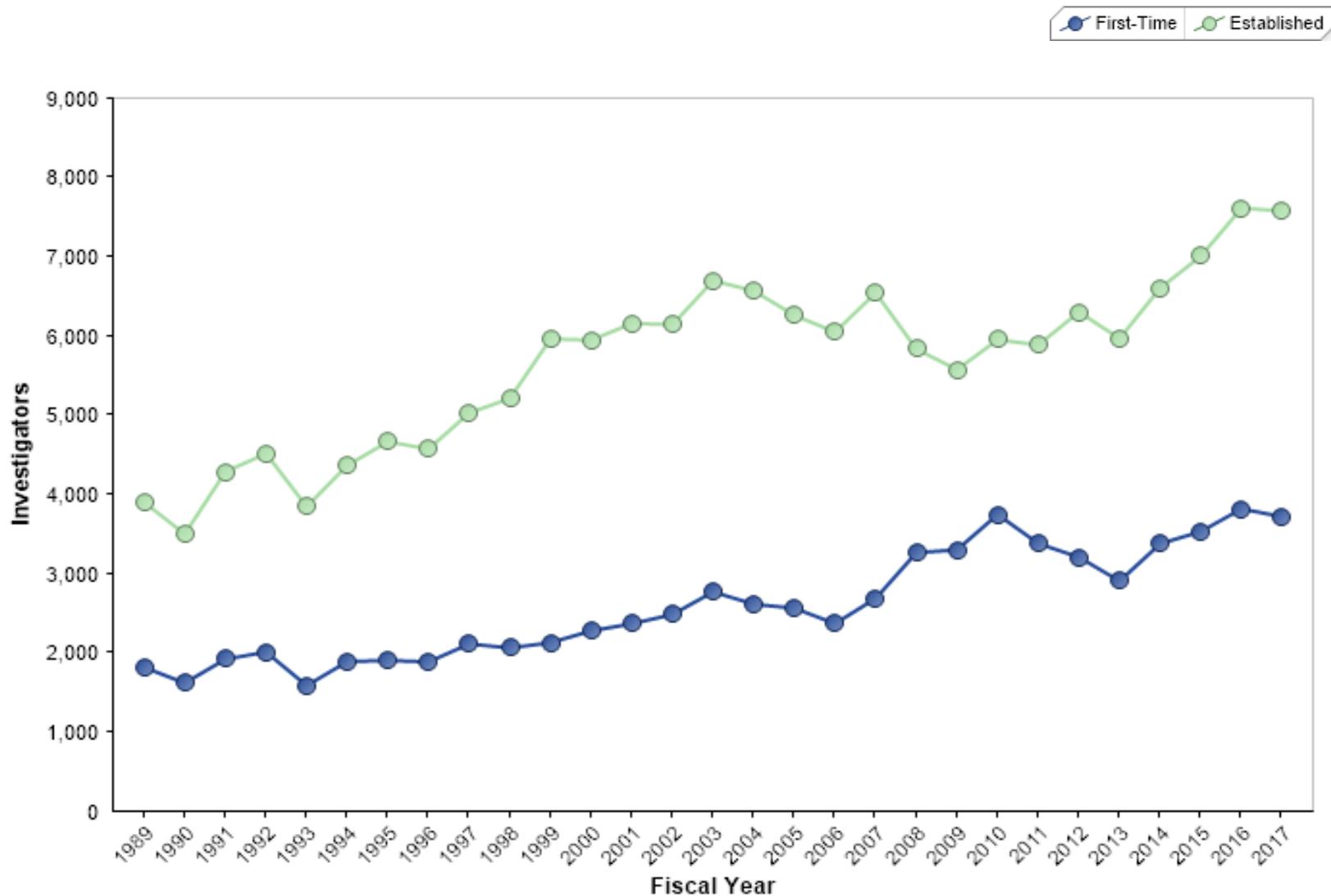
# R01-Equivalent investigators, New (Type 1) Funding rates, by career stage of investigator

First-Time Established



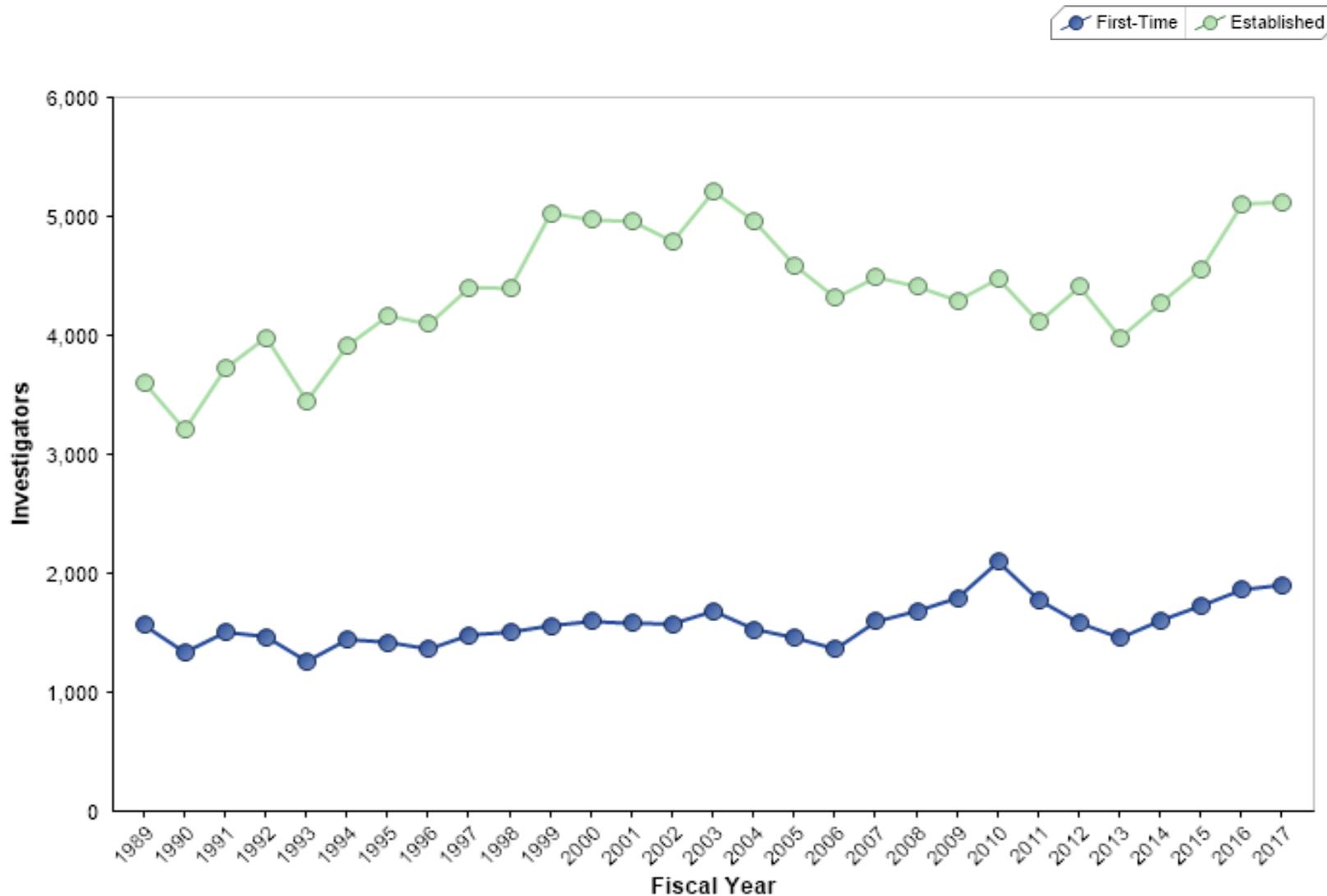
# Research Project Grant investigators

## Number supported on competing awards, by career stage of investigator



# R01-Equivalent investigators

## Number supported on competing awards, by career stage of investigator

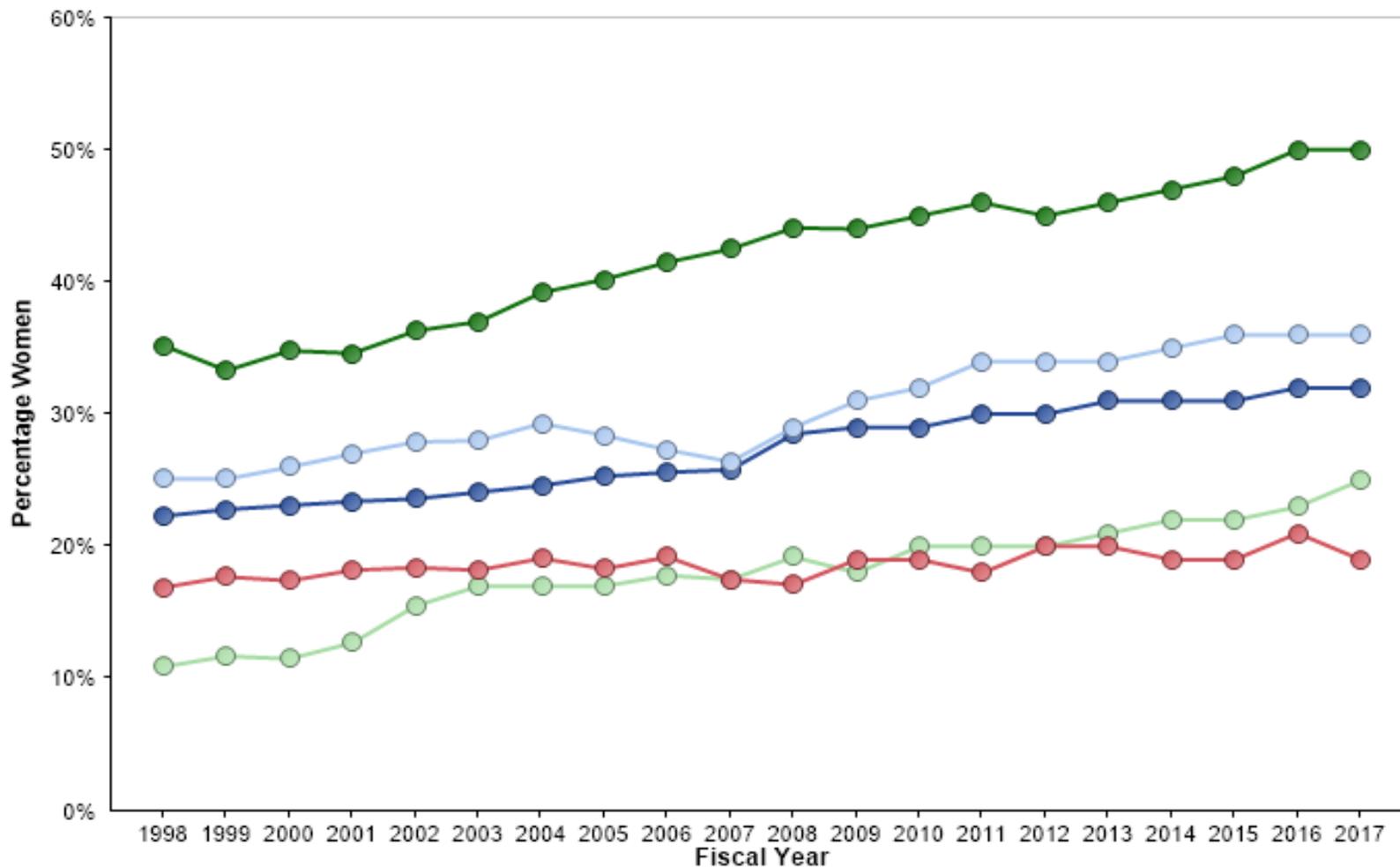




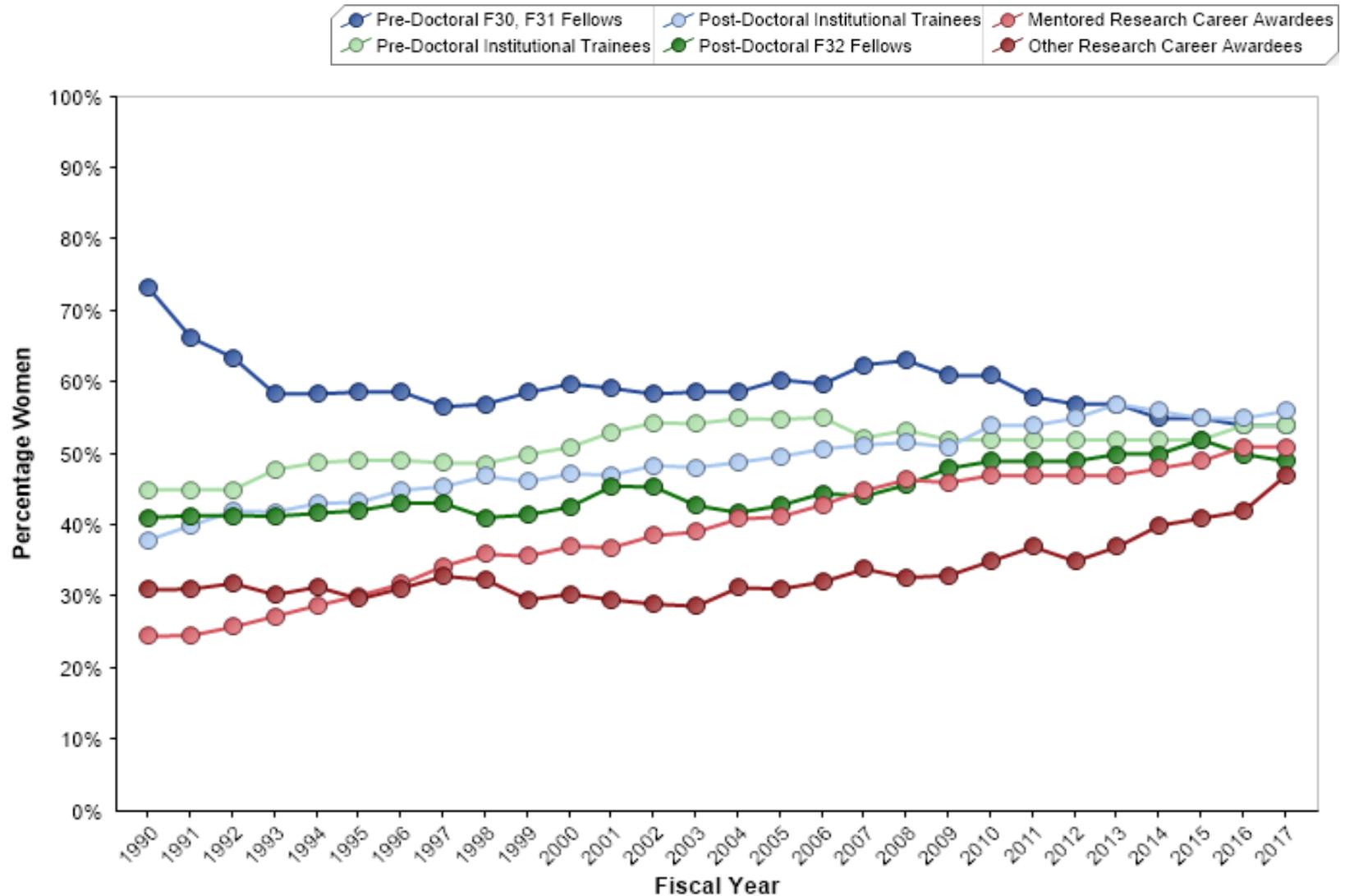
# DATA BY GENDER

# Research grant investigators Representation of women, by mechanism

RPGs Centers Other Research Research Career SBIR/STTR

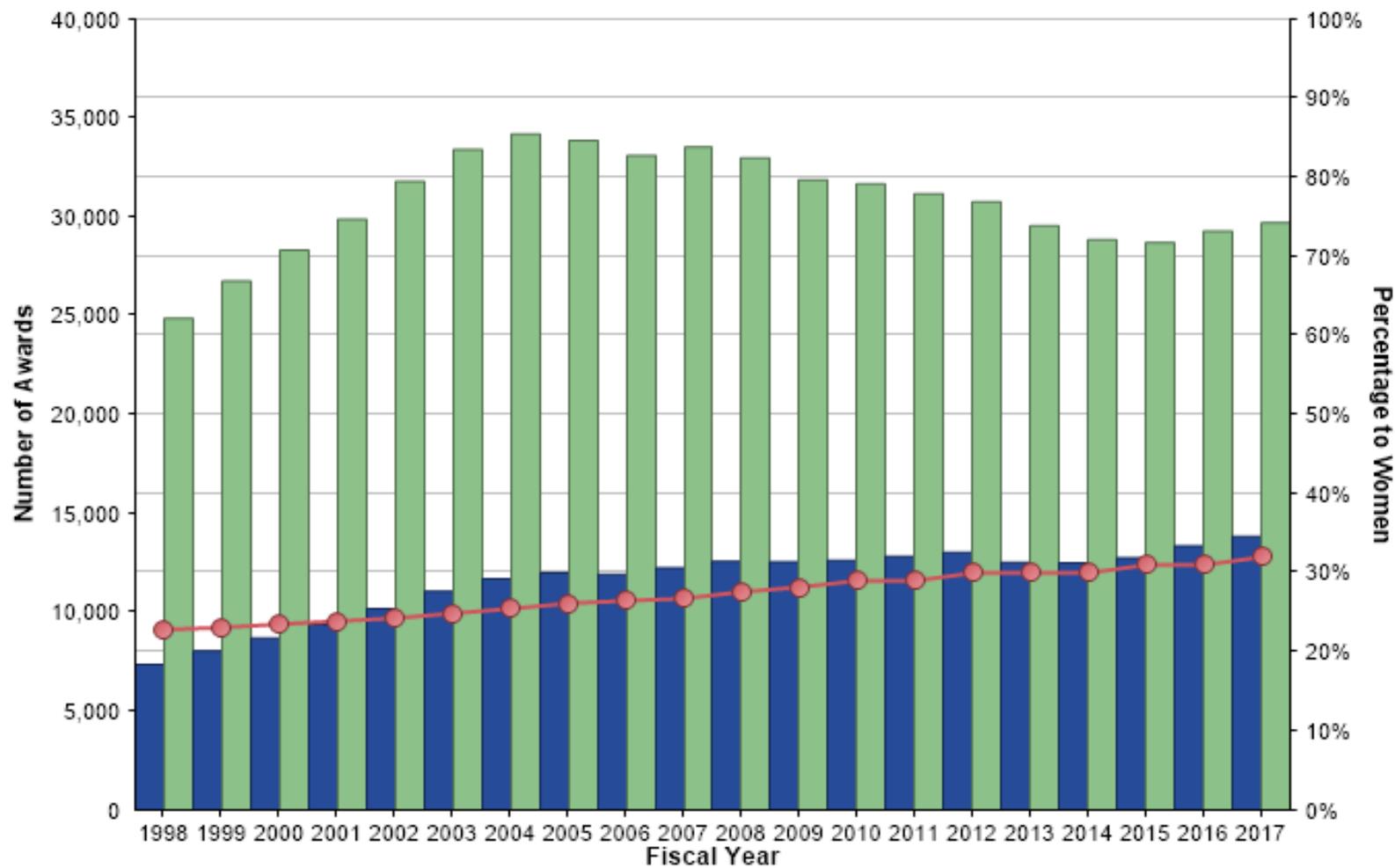


# Research career development award recipients and Kirschstein-NRSA trainees and fellows Representation of women, by activity and career stage



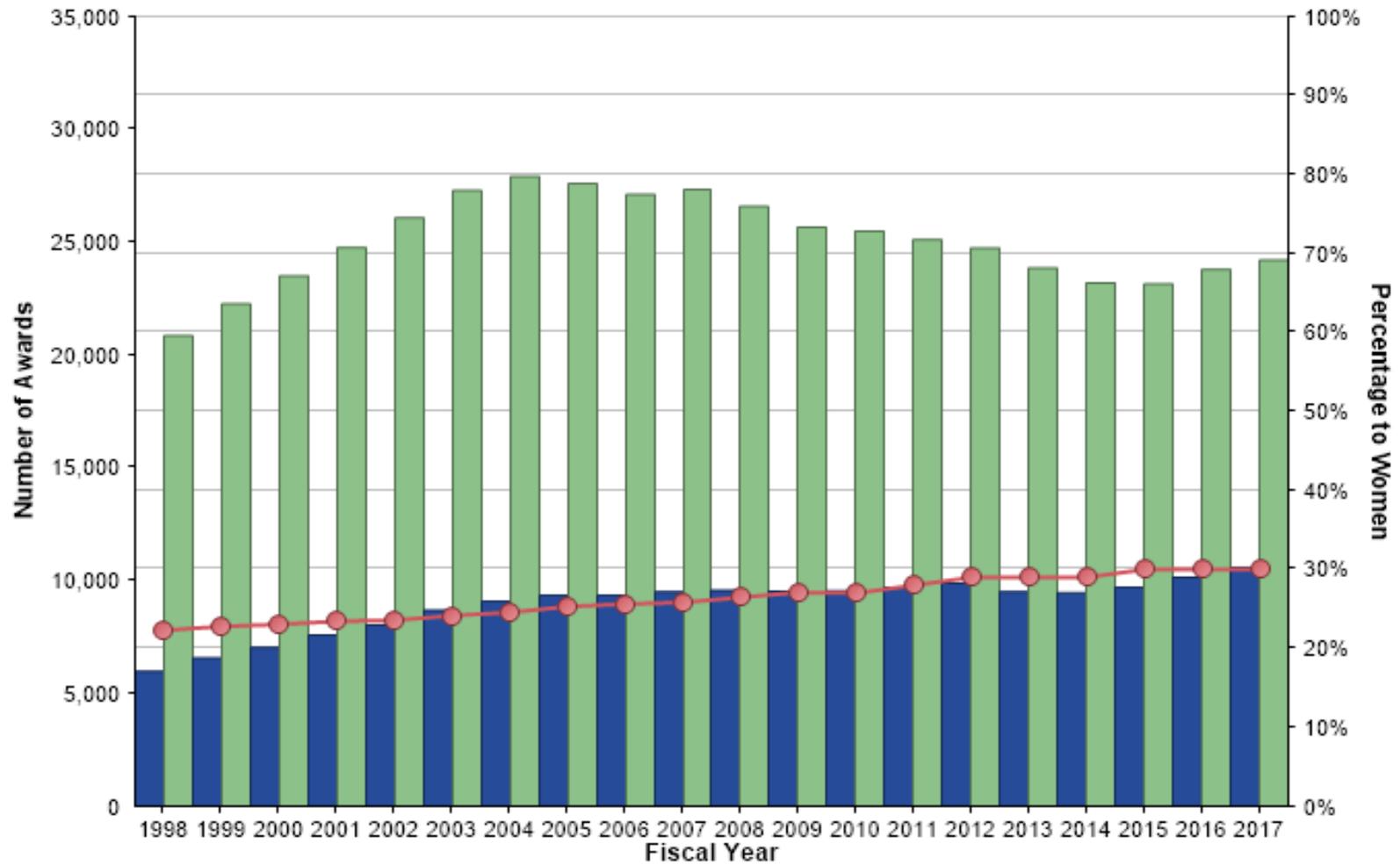
# Research grants Awards, by gender

Women Men Percentage to Women



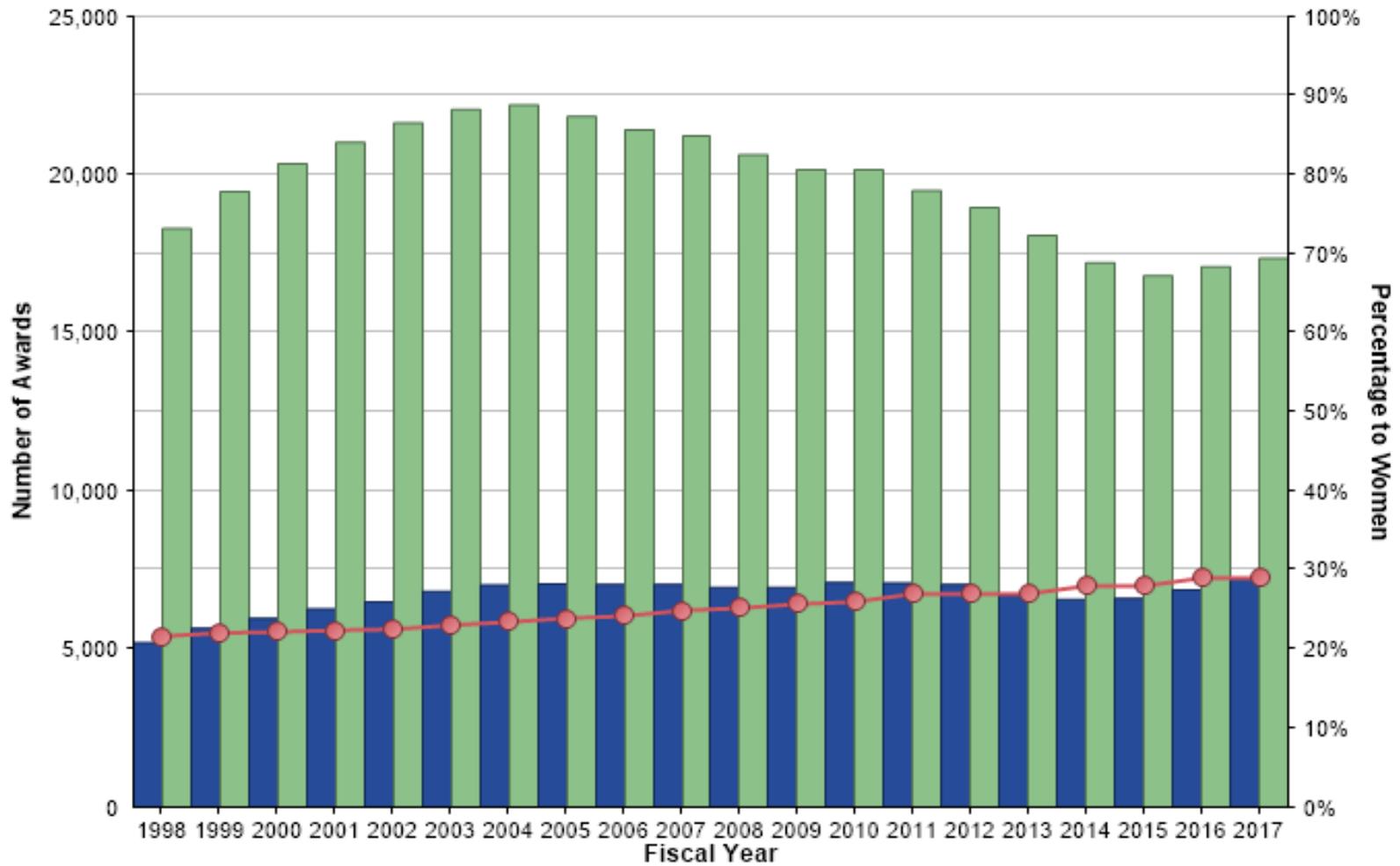
# Research Project Grants Awards, by gender

Women Men Percentage to Women



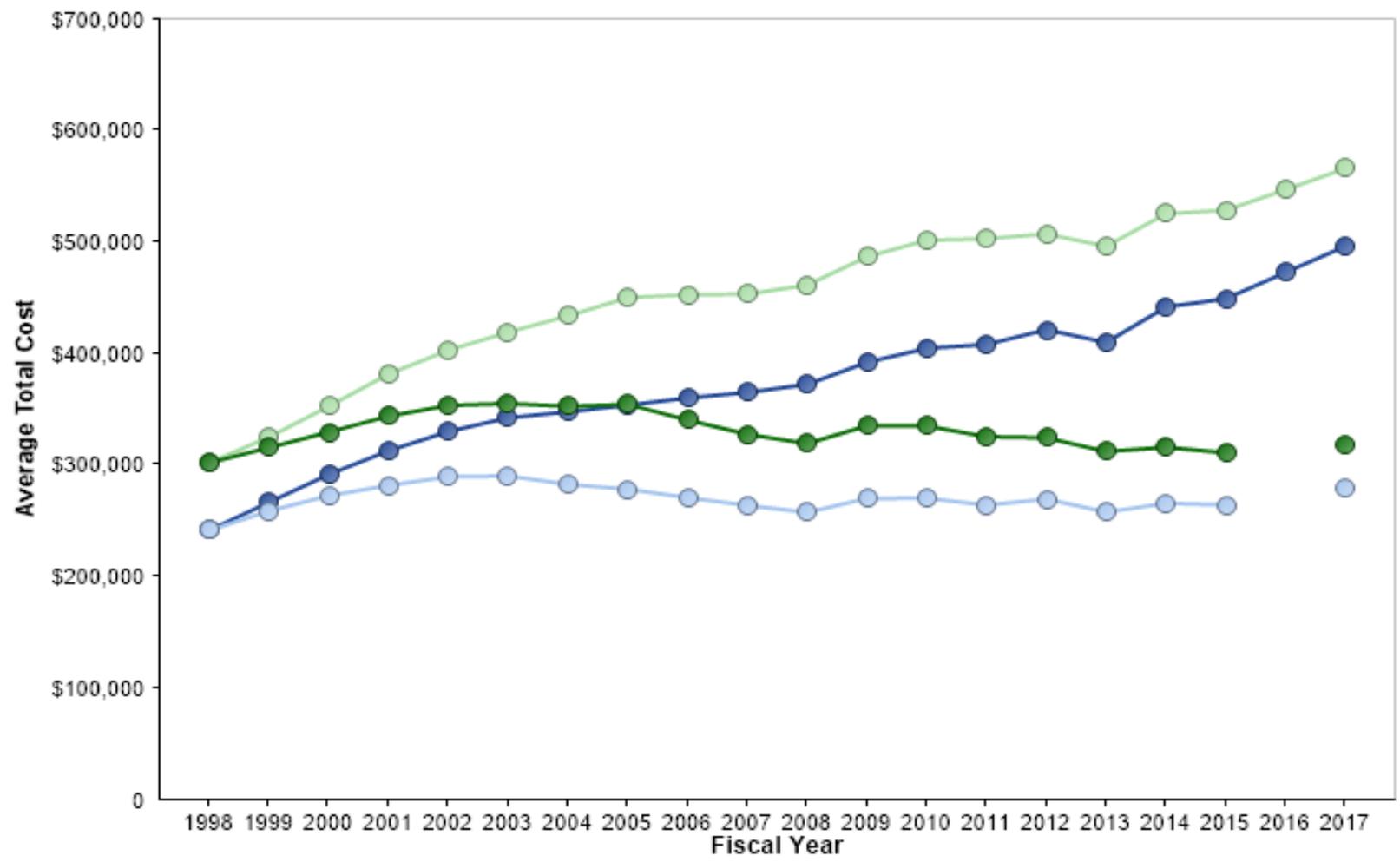
# R01-Equivalent grants Awards, by gender

Women Men Percentage to Women



# Research grants Average size, by gender

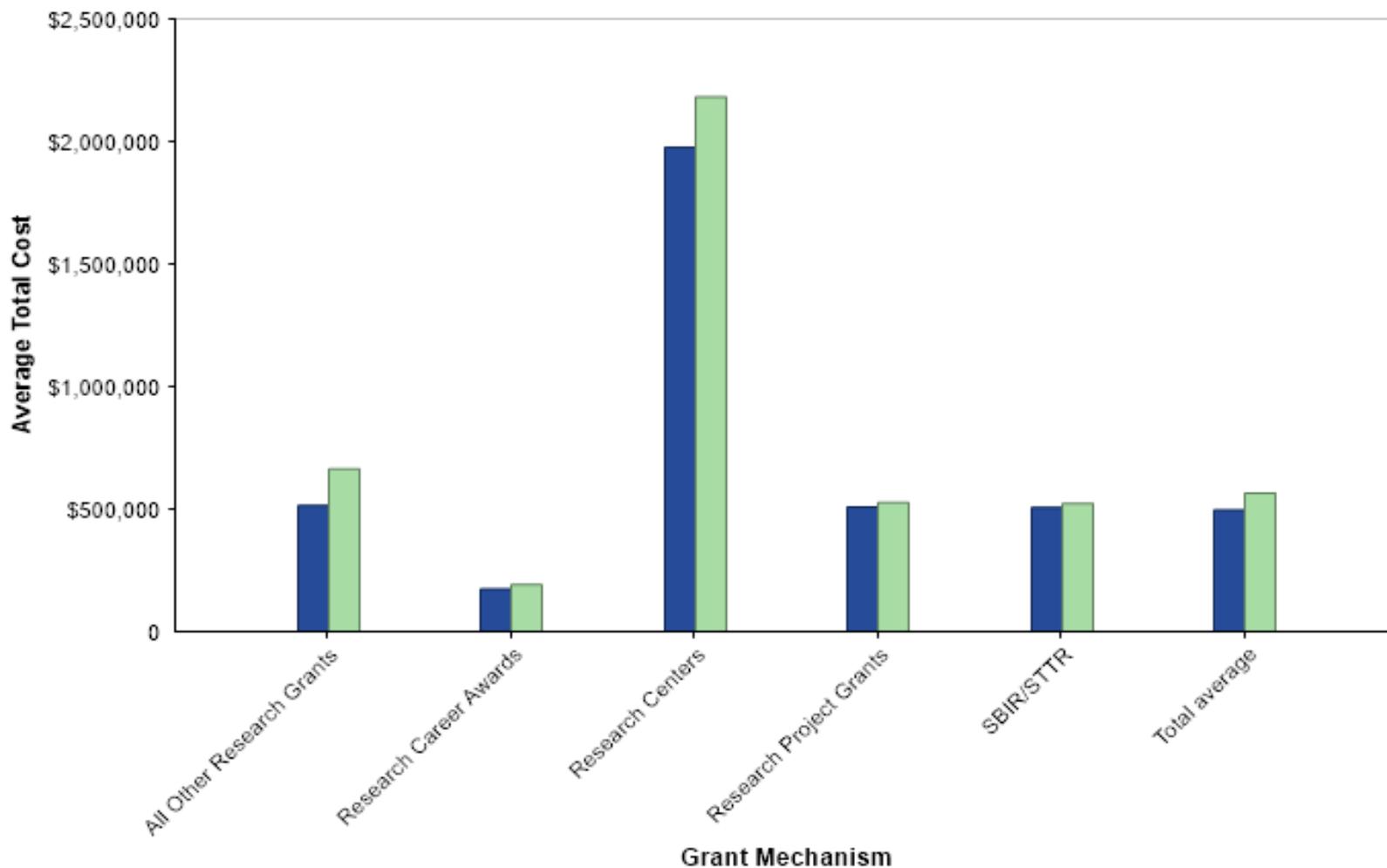
Women Men Women, Constant (1998) \$ Men, Constant (1998) \$



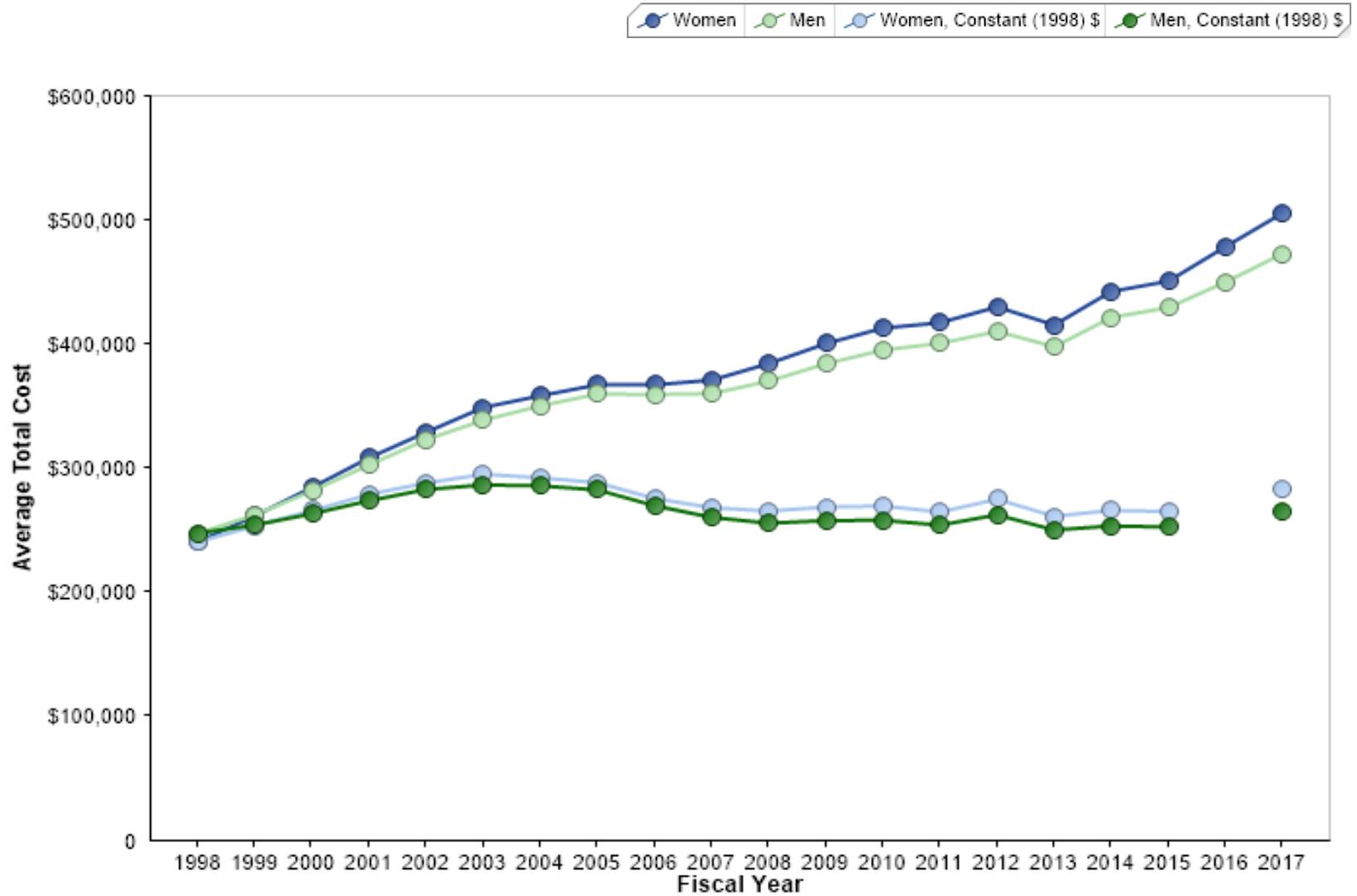
# Research grants

## Average size, by mechanism and gender, FY 2017

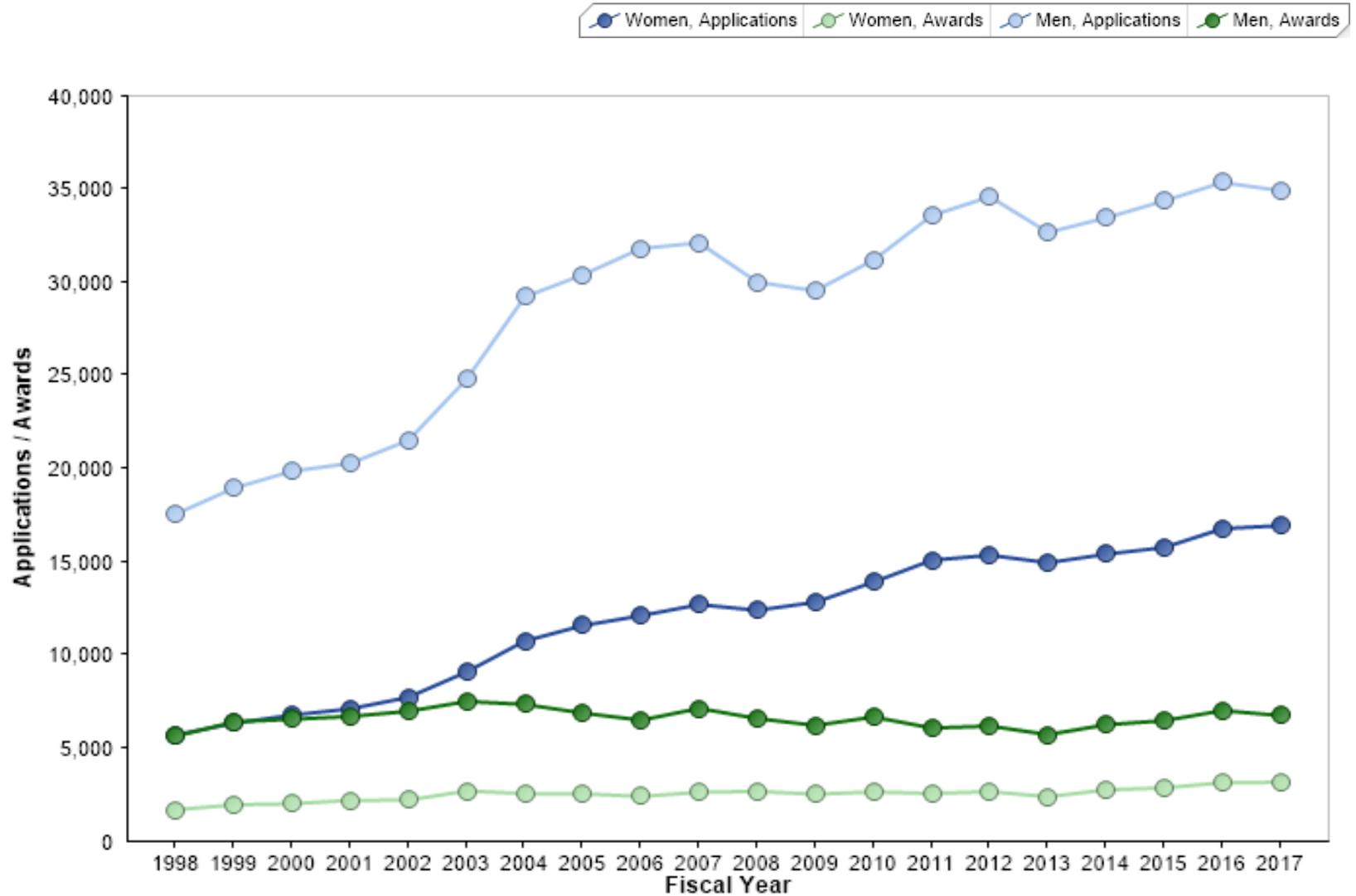
Women Men



# R01-Equivalent grants Average size, by gender

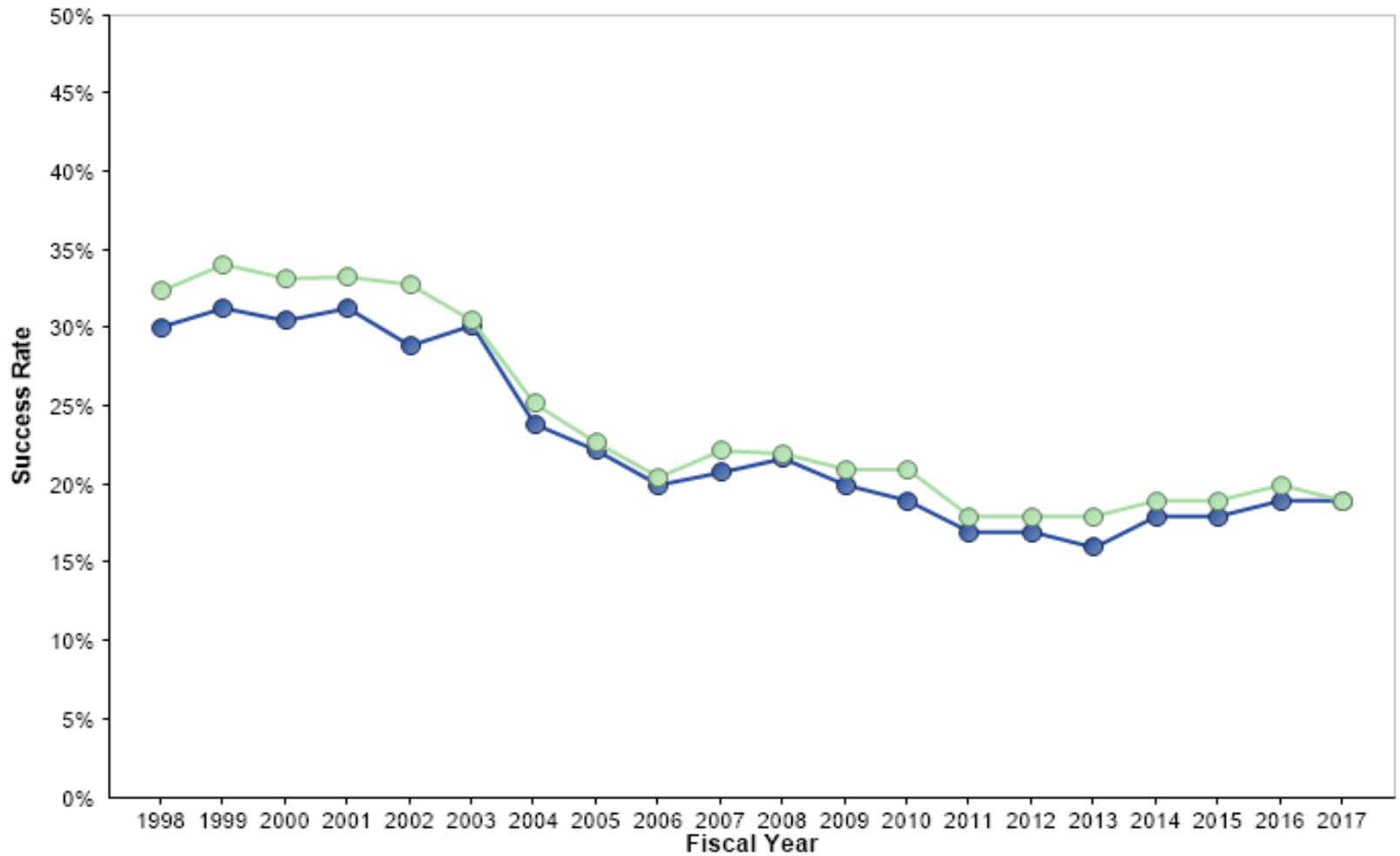


# Research Project Grants Competing applications and awards, by gender



# Research Project Grants Success rates, by gender

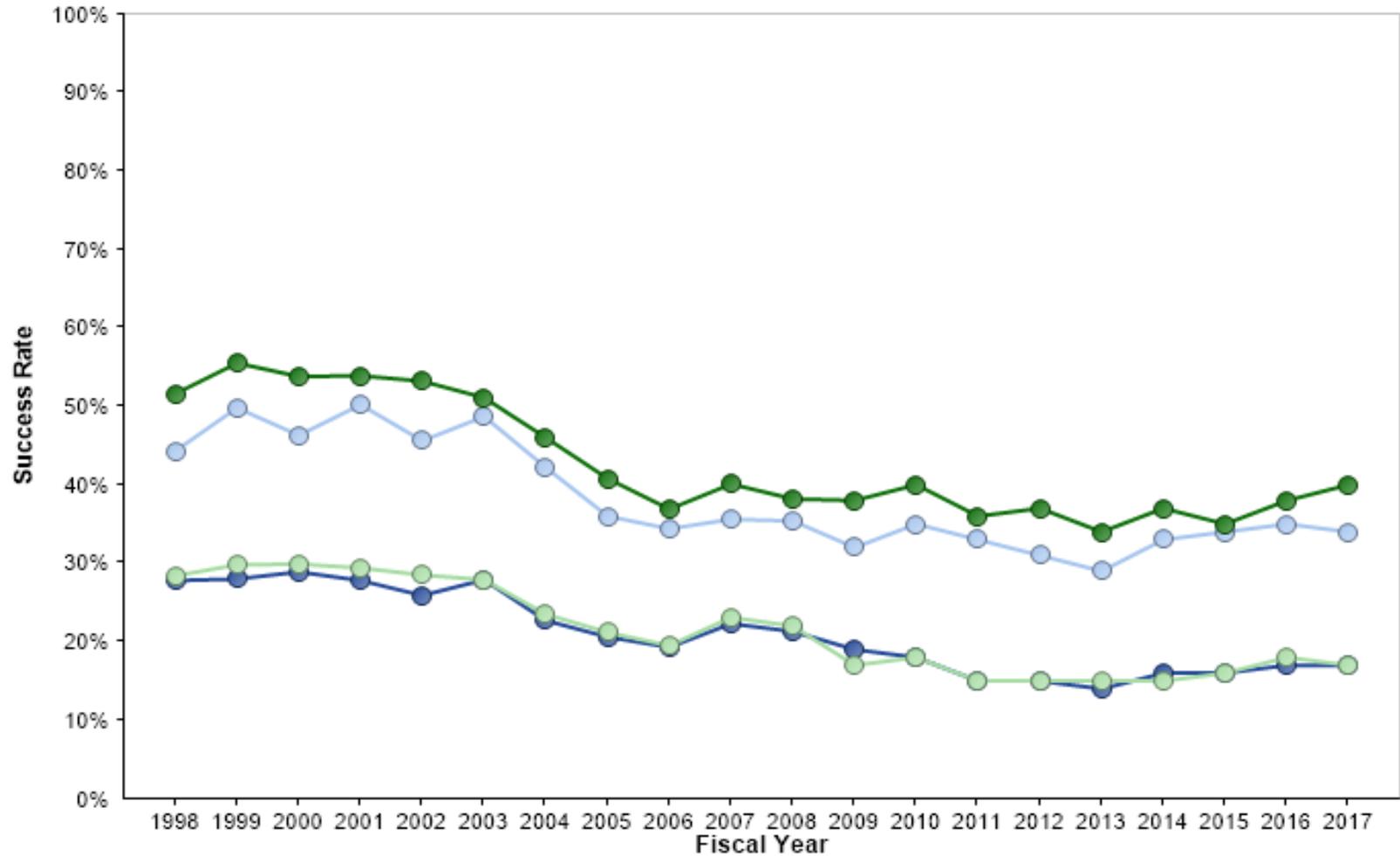
Women Men



# R01-Equivalent grants

## Success rates, by gender and type of application

Women, New (Type 1) Men, New (Type 1) Women, Renewal (Type 2) Men, Renewal (Type 2)





# TRENDS IN RESEARCH CAREER DEVELOPMENT (K) AWARDS



## Research Career Development Awards: Competing applications, awards, and success rates

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Applications	1,029	1,082	1,464	1,921	1,783	2,009	2,147	2,642	2,962	2,712	3,340	2,832	2,518	2,825	2,848	2,940	2,900	3,113	3,122	3,208	3,334
K01	233	266	277	383	376	422	503	563	645	654	578	443	395	465	441	522	483	569	598	629	645
K02	117	111	90	98	116	106	100	114	112	93	67	72	73	65	64	54	48	35	31	23	18
K07	51	88	37	75	61	72	76	154	169	144	88	84	54	72	75	68	83	72	75	62	69
K08	557	536	479	496	515	560	592	669	676	635	524	509	466	480	425	371	346	393	430	429	447
K12	15	42	53	78	23	124	52	106	126	70	106	36	42	43	76	105	75	27	79	60	69
K22		8	55	111	87	117	143	146	171	173	149	115	111	124	88	103	172	214	227	207	237
K23		1	203	394	399	421	505	635	679	666	650	574	517	558	599	555	555	524	589	575	641
K24			185	172	128	108	89	120	149	127	133	97	87	105	87	111	104	88	94	90	86
K25				19	41	42	48	80	113	99	78	50	41	69	82	75	59	59	53	57	51
K99										1	893	795	703	778	832	911	926	1,114	932	1,004	1,005
All Other Ks	56	30	85	95	37	37	39	55	122	50	74	57	29	66	79	65	49	18	14	72	66
Awards	527	544	673	835	829	928	938	938	1,046	829	1,036	1,002	963	1,004	899	930	850	932	959	998	1,020
K01	82	90	107	137	160	179	216	179	198	180	183	172	144	185	151	168	160	195	201	202	203
K02	62	63	64	53	65	49	48	54	42	33	28	27	26	19	24	14	11	14	6	5	10
K07	25	39	16	31	22	28	27	31	37	35	23	29	21	16	19	5	22	13	19	17	10
K08	306	311	249	250	255	293	280	267	266	215	189	222	221	211	177	157	124	158	170	162	195
K12	15	19	19	19	10	44	24	33	35	24	48	19	22	21	24	49	34	7	35	27	32
K22		0	5	21	33	47	47	47	50	50	40	26	29	31	26	25	34	33	52	50	44
K23		1	86	192	184	196	214	226	232	180	217	216	227	211	203	203	178	201	206	207	218
K24			81	77	58	48	40	50	76	56	62	49	41	64	39	51	41	43	45	51	34

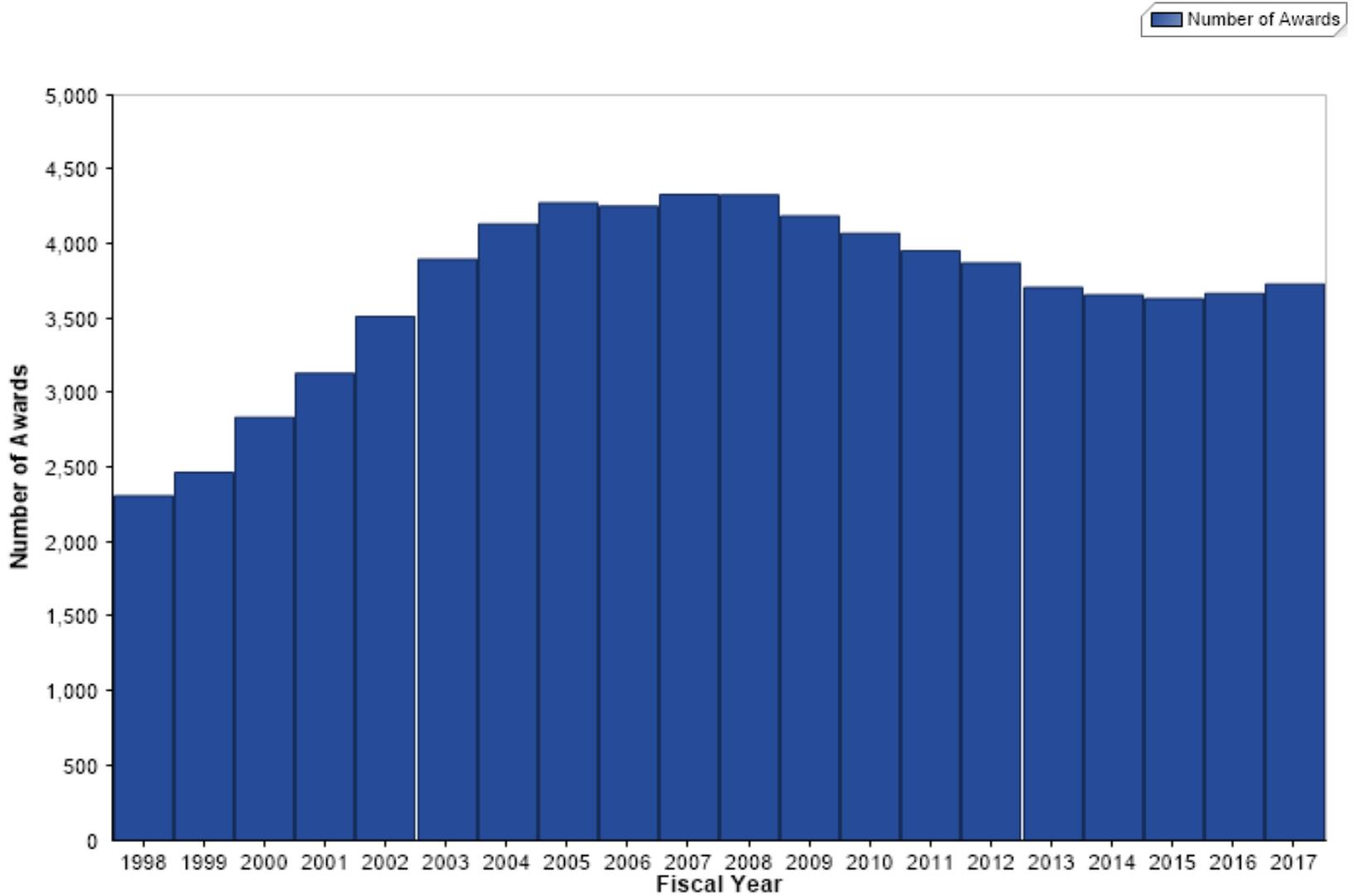


## Research Career Development Awards: Competing applications, awards, and success rates (continued)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
K25				8	23	22	20	24	37	31	27	24	9	21	19	19	17	16	12	14	12
K99										1	183	180	204	194	180	212	203	246	208	231	235
All Other Ks	37	21	46	47	19	22	22	27	73	24	36	38	19	31	37	27	26	6	5	32	27
Success Rates	51%	50%	46%	43%	46%	46%	44%	36%	35%	31%	31%	35%	38%	36%	32%	32%	29%	30%	31%	31%	31%
K01	35%	34%	39%	36%	43%	42%	43%	32%	31%	28%	32%	39%	36%	40%	34%	32%	33%	34%	34%	32%	31%
K02	53%	57%	71%	54%	56%	46%	48%	47%	38%	35%	42%	38%	36%	29%	38%	26%	23%	40%	19%	22%	56%
K07	49%	44%	43%	41%	36%	39%	36%	20%	22%	24%	26%	34%	39%	22%	25%	7%	27%	18%	25%	27%	14%
K08	55%	58%	52%	50%	50%	52%	47%	40%	39%	34%	36%	44%	47%	44%	42%	42%	36%	40%	40%	38%	44%
K12	100%	45%	36%	24%	43%	35%	46%	31%	28%	34%	45%	53%	52%	49%	32%	47%	45%	26%	44%	45%	46%
K22		0%	9%	19%	38%	40%	33%	32%	29%	29%	27%	23%	26%	25%	30%	24%	20%	15%	23%	24%	19%
K23		100%	42%	49%	46%	47%	42%	36%	34%	27%	33%	38%	44%	38%	34%	37%	32%	38%	35%	36%	34%
K24			44%	45%	45%	44%	45%	42%	51%	44%	47%	50%	47%	61%	45%	46%	39%	49%	48%	57%	40%
K25				42%	56%	52%	42%	30%	33%	31%	35%	48%	22%	30%	23%	25%	29%	27%	23%	25%	24%
K99										100%	20%	23%	29%	25%	22%	23%	22%	22%	22%	23%	23%
All Other Ks	66%	70%	54%	49%	51%	59%	56%	49%	60%	48%	49%	67%	66%	47%	47%	42%	53%	33%	36%	44%	41%

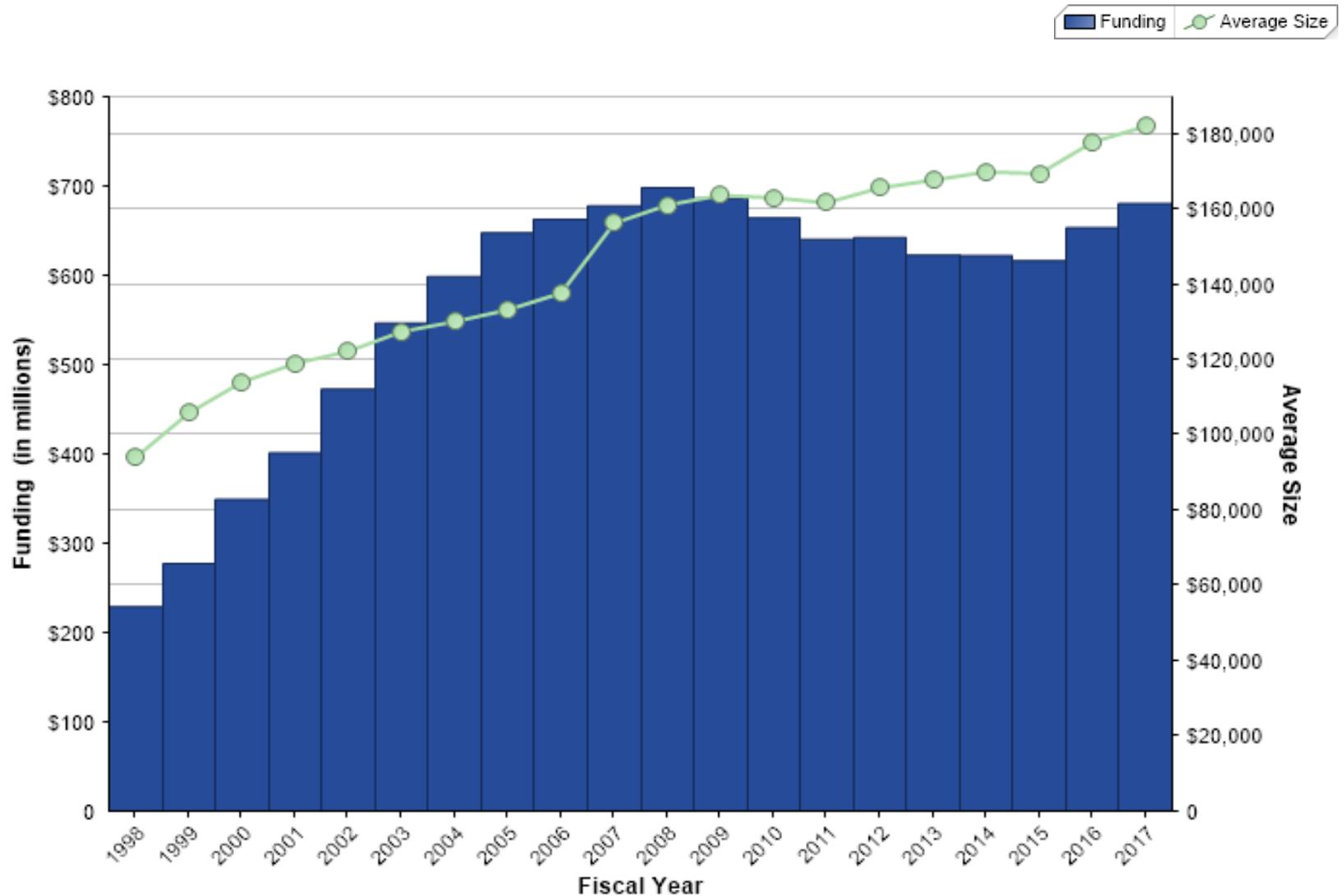


# Research Career Development Awards



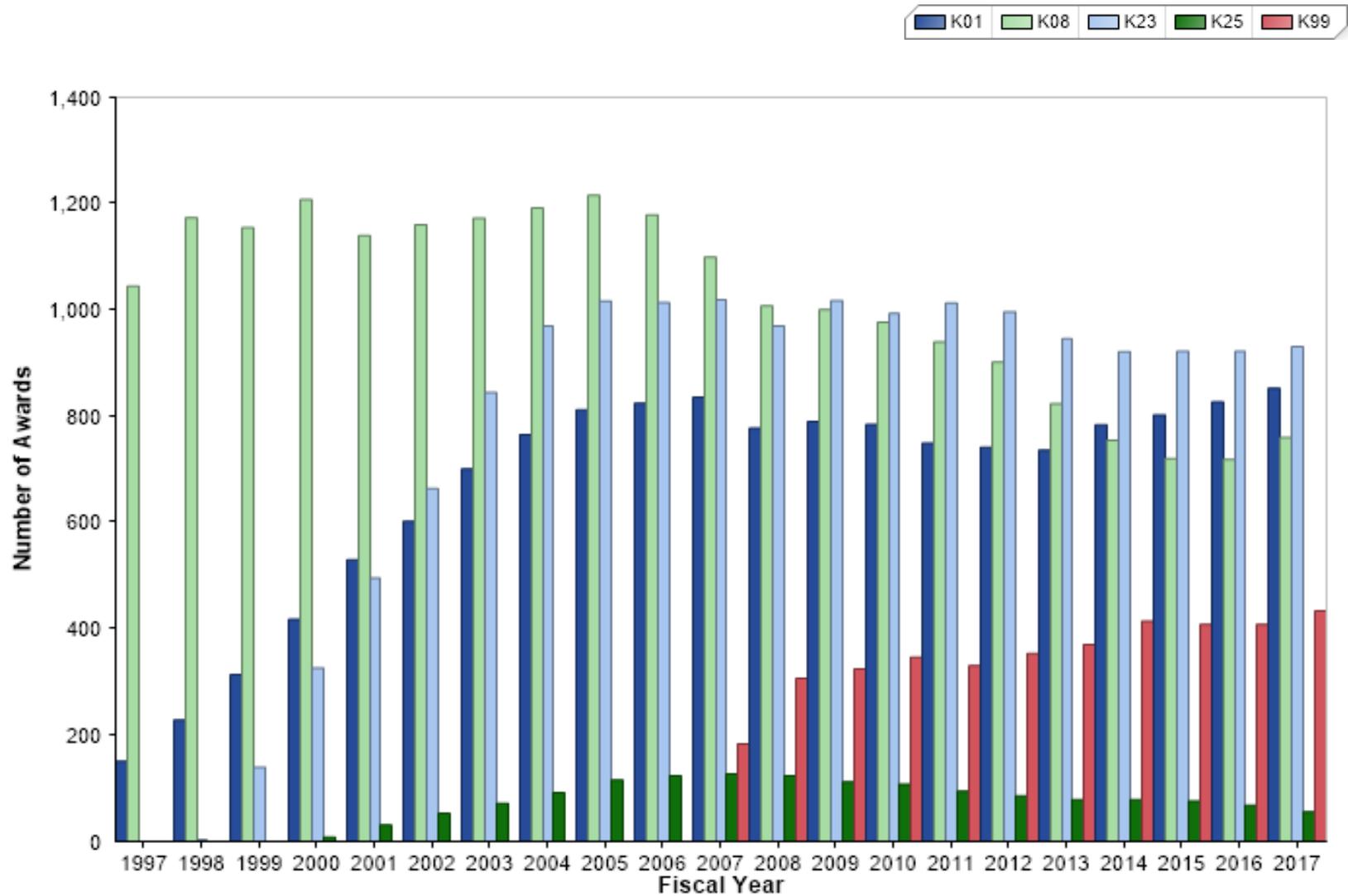
# Research Career Development Awards

## Total funding and average size



# Individual Research Career Development Awards

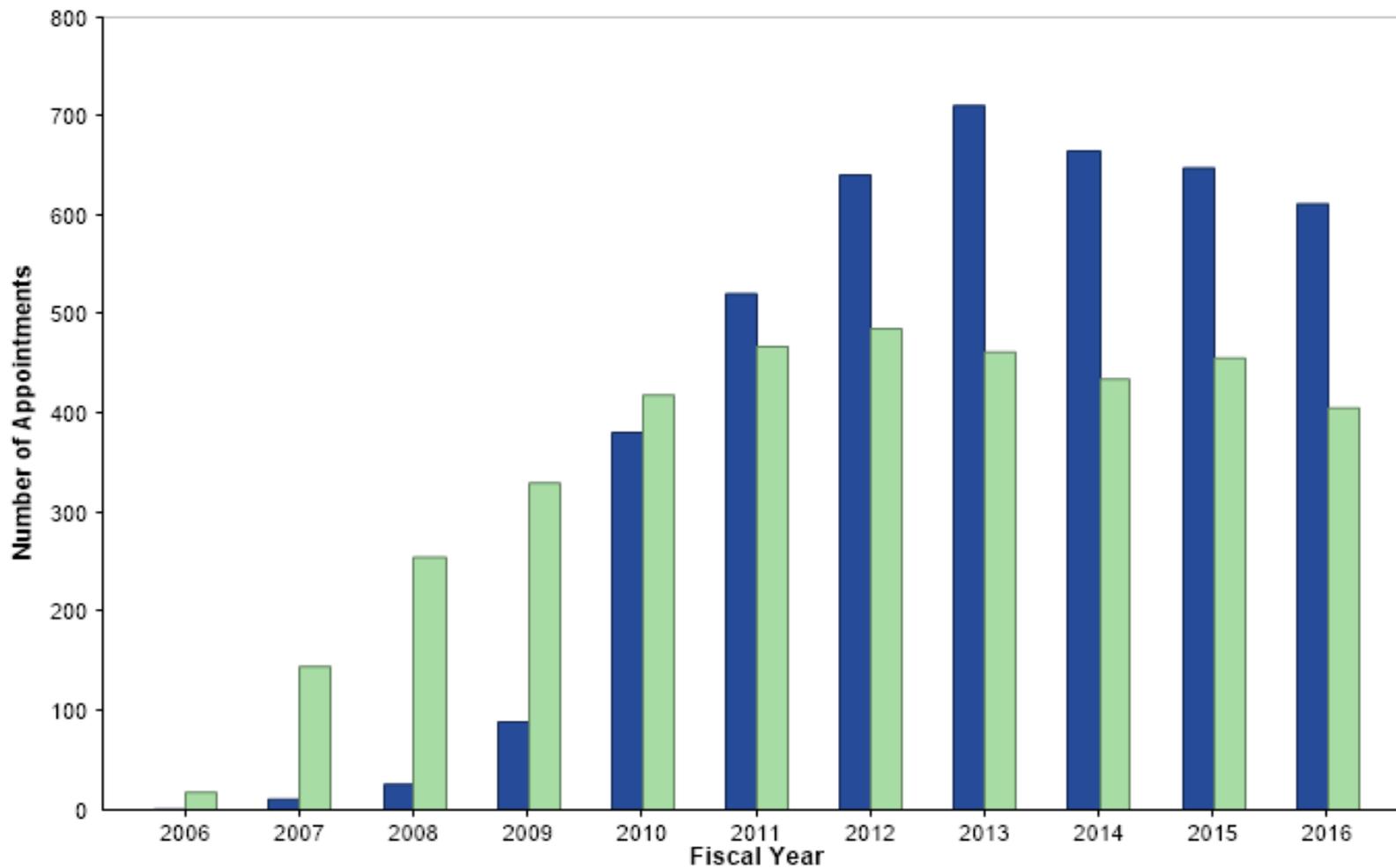
## Number of entry-level awards



# Institutional Research Career Development Awards

## Number of entry-level appointments

K12 KL2



# Research Career Development Awards: Awards by Institute/Center FY 2010-2017

Institute / Center	2010		2011		2012		2013		2014		2015		2016		2017	
	Award	Amount	Awards	Amount												
FIC	15	\$1,712,514	22	\$2,648,699	20	\$2,405,280	22	\$2,636,658	21	\$2,711,662	26	\$3,347,630	35	\$4,243,006	47	\$5,554,569
NCATS					67	\$48,088,878	58	\$45,469,967	50	\$45,112,451	59	\$47,440,439	57	\$52,291,064	57	\$45,477,150
NCCIH	46	\$6,021,064	47	\$6,055,413	46	\$6,034,096	37	\$4,974,857	33	\$4,472,121	32	\$4,464,700	33	\$4,432,243	35	\$4,985,576
NCI	453	\$75,083,078	439	\$73,832,380	422	\$73,008,886	390	\$67,566,536	403	\$68,132,984	407	\$69,336,465	406	\$71,863,217	399	\$71,932,323
NCRR	118	\$59,919,899	107	\$46,923,387												
NEI	64	\$12,797,296	68	\$14,301,470	67	\$13,203,490	75	\$16,431,610	75	\$16,455,077	79	\$14,953,339	81	\$15,851,879	84	\$16,436,023
NHGRI	4	\$647,685	5	\$490,170	9	\$1,017,007	11	\$1,281,374	10	\$1,251,870	18	\$2,249,588	20	\$2,497,090	17	\$2,416,105
NHLBI	596	\$82,265,745	576	\$79,014,467	563	\$80,159,163	523	\$77,027,791	485	\$73,912,626	462	\$68,741,599	530	\$84,894,348	606	\$100,446,735
NIA	237	\$31,146,194	225	\$29,764,849	220	\$28,992,040	196	\$26,051,464	201	\$27,407,085	214	\$29,235,824	246	\$34,332,837	270	\$39,141,323
NIAAA	93	\$14,345,498	94	\$14,588,447	95	\$14,770,729	95	\$14,352,162	94	\$14,258,370	89	\$14,023,822	95	\$15,241,464	108	\$17,631,166
NIAID	314	\$40,325,392	304	\$39,269,385	290	\$37,015,360	260	\$35,131,166	261	\$36,748,767	260	\$38,525,133	269	\$41,363,246	253	\$41,902,594
NIAMS	150	\$18,825,418	156	\$19,469,801	154	\$19,354,337	157	\$19,539,529	150	\$18,907,117	144	\$18,102,573	142	\$20,469,762	136	\$19,692,123
NIBIB	33	\$3,981,949	30	\$3,750,577	27	\$3,894,660	28	\$4,043,156	31	\$4,235,775	29	\$4,013,904	26	\$3,594,983	21	\$2,835,215
NICHD	295	\$64,122,903	285	\$58,059,716	296	\$59,242,877	287	\$56,398,042	267	\$52,269,459	252	\$47,467,199	245	\$50,993,459	217	\$49,539,768
NIDA	243	\$38,605,584	220	\$35,419,725	212	\$35,128,474	203	\$34,209,356	214	\$35,251,856	203	\$34,560,885	205	\$35,085,946	223	\$40,243,902
NIDCD	31	\$4,878,388	33	\$5,459,430	28	\$4,836,195	38	\$6,132,612	42	\$7,124,031	43	\$7,972,654	43	\$7,953,095	42	\$7,772,315
NIDCR	63	\$7,722,198	59	\$7,179,523	55	\$6,682,700	47	\$6,378,107	41	\$5,524,899	43	\$5,716,117	42	\$5,682,622	49	\$6,585,898
NIDDK	511	\$73,234,714	503	\$75,195,367	496	\$75,782,577	497	\$75,240,850	497	\$75,952,333	497	\$74,907,957	481	\$74,609,301	445	\$72,192,655
NIHES	41	\$6,010,554	46	\$6,830,037	45	\$6,361,485	49	\$6,427,280	61	\$8,366,055	70	\$9,987,779	65	\$9,260,777	60	\$8,691,920
NIGMS	98	\$20,194,442	95	\$22,018,261	99	\$23,490,533	105	\$24,241,953	100	\$25,058,580	105	\$25,790,076	105	\$26,314,068	93	\$25,570,014
NIMH	401	\$62,273,049	386	\$60,297,157	382	\$59,468,928	353	\$55,630,377	343	\$55,264,579	322	\$51,553,467	307	\$49,607,314	311	\$52,469,777
NIMHD					2	\$375,025	4	\$763,174	6	\$1,071,977	4	\$888,393	6	\$1,023,276	4	\$587,402



## Research Career Development Awards: Awards by Institute/Center FY 2010-2017 (continued)

Institute / Center	2010		2011		2012		2013		2014		2015		2016		2017	
	Award	Amount	Awards	Amount	Award	Amount										
NINDS	232	\$36,725,660	221	\$36,054,877	214	\$35,957,345	209	\$35,831,461	205	\$34,524,742	205	\$34,704,416	167	\$32,512,162	195	\$38,791,682
NINR	30	\$3,124,069	29	\$3,034,302	30	\$3,039,814	29	\$2,840,271	31	\$3,443,026	30	\$3,338,514	24	\$2,929,859	24	\$2,874,300
NLM	4	\$392,465	6	\$632,517	8	\$851,751	8	\$931,830	13	\$1,776,727	15	\$1,846,616	12	\$1,706,695	8	\$1,281,209
OD					28	\$3,247,640	29	\$3,310,146	26	\$3,064,208	26	\$3,118,334	29	\$4,569,035	30	\$5,214,769
NIH Total	4,072	\$664,355,758	3,956	\$640,289,957	3,875	\$642,409,270	3,710	\$622,841,729	3,660	\$622,298,377	3,634	\$616,287,423	3,671	\$653,322,748	3,734	\$680,266,513



National Institutes of Health  
Office of Extramural Research

## Research Career Development Awards: Awards by Institute/Center FY 2003-2009

Institute / Center	2003		2004		2005		2006		2007		2008		2009	
	Awards	Amount												
FIC	17	\$1,890,557	20	\$2,233,234			15	\$1,766,928	12	\$1,312,671	10	\$1,114,949	11	\$1,239,614
NCATS														
NCCIH	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
NCRR	170	\$31,255,195	182	\$35,296,265	213	\$50,452,709	231	\$76,696,194	213	\$70,945,093	161	\$73,404,460	138	\$70,053,004
NEI	54	\$8,339,760	57	\$10,533,071	69	\$13,632,389	63	\$14,249,131	68	\$15,320,076	72	\$16,808,443	64	\$11,983,253
NHGRI	34	\$5,663,954	32	\$5,911,857	22	\$3,820,142	17	\$3,214,173	16	\$2,917,280	11	\$1,979,866	8	\$1,670,844
NHLBI	555	\$73,738,383	562	\$75,725,117	520	\$66,554,503	504	\$67,373,205	524	\$73,263,083	555	\$79,544,863	577	\$85,471,134
NIA	181	\$23,233,207	192	\$25,016,904	199	\$26,448,559	205	\$28,714,571	221	\$30,653,287	223	\$30,943,526	229	\$30,929,657
NIAAA	80	\$9,648,210	75	\$9,694,405	88	\$11,797,847	84	\$11,353,922	83	\$11,600,798	94	\$13,525,784	97	\$14,671,382
NIAID	286	\$33,513,537	316	\$37,120,713	329	\$39,079,834	318	\$38,459,453	315	\$38,413,503	301	\$36,995,479	311	\$39,087,321
NIAMS	127	\$14,871,915	137	\$16,133,129	136	\$15,944,086	142	\$16,805,527	150	\$17,994,027	160	\$19,350,527	154	\$19,025,283
NIBIB	9	\$1,182,315	17	\$2,119,620	21	\$2,976,566	25	\$3,512,926	32	\$4,300,054	35	\$4,586,658	33	\$4,094,078
NICHD	229	\$46,508,183	253	\$57,647,981	271	\$75,476,847	260	\$55,126,969	299	\$62,911,324	290	\$62,637,998	292	\$62,897,624
NIDA	230	\$31,019,067	244	\$33,219,898	248	\$34,839,393	247	\$35,638,666	258	\$38,287,475	257	\$38,855,699	251	\$38,889,689
NIDCD	39	\$6,158,438	42	\$7,225,502	43	\$7,250,705	40	\$6,656,313	41	\$6,666,541	37	\$5,340,016	32	\$4,599,161
NIDCR	98	\$12,045,328	90	\$11,649,962	98	\$12,488,587	85	\$11,433,886	79	\$9,698,782	79	\$9,576,955	75	\$9,206,186
NIDDK	459	\$57,119,044	476	\$59,449,253	498	\$63,232,292	513	\$65,064,532	524	\$67,266,889	530	\$71,214,223	513	\$71,483,731
NIEHS	42	\$4,723,063	46	\$5,294,314	41	\$4,938,318	35	\$4,252,377	44	\$5,585,876	48	\$6,204,425	40	\$5,897,017
NIGMS	42	\$9,785,963	62	\$12,250,673	61	\$13,509,434	67	\$13,215,124	87	\$16,005,288	103	\$19,162,962	89	\$18,201,656
NIMH	485	\$67,204,075	518	\$73,477,347	509	\$73,657,375	478	\$71,111,794	460	\$69,654,724	434	\$66,240,553	400	\$61,501,466
NIMHD									1	\$88,549	1	\$85,309		



## Research Career Development Awards: Awards by Institute/Center FY 2003-2009 (continued)

Institute / Center	2003		2004		2005		2006		2007		2008		2009	
	Awards	Amount												
NINDS	212	\$31,612,484	240	\$36,844,760	272	\$42,771,314	289	\$46,905,516	293	\$47,312,298	307	\$49,466,649	281	\$44,312,911
NINR	31	\$2,824,126	32	\$2,961,875	24	\$2,495,047	23	\$2,428,088	30	\$3,104,717	32	\$3,144,643	32	\$3,281,145
NLM			5	\$749,589	13	\$1,997,306	20	\$3,021,099	18	\$2,539,332	12	\$1,559,729	6	\$628,693
OD														
NIH Total	3,901	\$546,396,514	4,137	\$598,477,912	4,258	\$645,418,212	4,255	\$662,995,825	4,334	\$679,798,172	4,331	\$698,281,957	4,189	\$686,277,944



## Individual Research Career Development Awards: Awards by Institute/Center

Institute / Center	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
FIC		4	8	9	12	17	20	20	15	12	10	11	15	22	20	22	21	26	35	47
NCCIH		2	12	19	29	27	35	44	42	43	51	55	46	47	46	37	33	32	33	35
NCI	219	241	296	340	412	475	483	524	534	507	512	484	435	421	404	372	388	389	387	381
NCRR	18	20	62	91	125	154	166	146	140	135	102	74	55	43						
NEI	43	49	50	48	50	53	51	61	55	60	65	62	60	63	61	68	69	75	77	79
NHGRI	6	5	14	22	27	34	32	22	17	16	11	8	4	5	9	11	10	18	20	17
NHLBI	423	454	505	514	544	500	507	520	496	503	534	556	582	567	537	502	465	442	512	584
NIA	118	132	130	142	154	174	189	196	202	219	221	227	237	225	220	196	201	214	246	270
NIAAA	60	68	74	85	80	80	75	88	84	83	94	97	93	94	95	95	94	89	95	108
NIAID	214	206	243	246	274	286	316	329	318	315	301	311	314	304	290	260	261	260	269	253
NIAMS	66	75	91	109	118	126	136	136	142	150	160	154	150	156	154	157	150	144	142	136
NIBIB					4	9	17	21	25	32	35	33	33	30	27	28	31	29	26	21
NICHD	84	88	106	131	140	166	184	193	192	226	216	219	222	216	226	219	208	187	181	165
NIDA	149	154	163	181	193	226	239	245	244	255	254	248	240	217	208	197	209	198	200	216
NIDCD	43	41	44	45	42	39	42	43	40	41	37	32	31	33	28	38	42	43	43	42
NIDCR	32	37	41	57	69	89	85	96	83	79	79	75	63	59	54	44	38	40	39	47
NIDDK	190	234	277	323	382	448	469	491	511	524	528	511	509	496	488	486	486	486	469	434
NIHES	18	17	29	40	43	42	46	41	35	43	47	39	39	44	44	49	60	70	65	60
NIGMS	10	13	21	26	33	35	56	55	60	76	92	75	82	80	82	86	82	88	86	76
NIMH	338	354	384	408	446	485	517	508	477	459	433	400	401	386	382	353	343	322	307	311
NIMHD										1	1				2	4	6	4	6	4
NINDS	206	191	182	180	191	212	235	266	281	284	298	274	225	214	204	199	196	195	158	190
NINR	24	28	32	31	33	31	32	24	23	30	32	32	30	29	30	29	31	30	24	24



## Individual Research Career Development Awards: Awards by Institute/Center (continued)

Institute / Center	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
NLM	1						5	13	20	18	12	6	4	6	8	8	13	15	12	8
OD															28	29	26	26	29	30
NIH Total	2,262	2,413	2,764	3,047	3,401	3,708	3,937	4,082	4,036	4,111	4,125	3,983	3,870	3,757	3,647	3,489	3,463	3,422	3,461	3,538



## Individual Research Career Development Awards: Funding by Institute / Center, sorted by average amount

Legend: - <= 10 20 30 40 50 60 70 80 90 100 150 200 250 300 400 500 > 500

Institute / Center	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
FIC	0	4	8	9	12	17	20	20	15	12	10	11	15	22	20	22	21	26	35	47
NCCIH		2	12	19	29	27	35	44	42	43	51	55	46	47	46	37	33	32	33	35
NCI	219	241	296	340	412	475	483	524	534	507	512	484	435	421	404	372	388	389	387	381
NCRR	18	20	62	91	125	154	166	146	140	135	102	74	55	43						
NEI	43	49	50	48	50	53	51	61	55	60	65	62	60	63	61	68	69	75	77	79
NHGRI	6	5	14	22	27	34	32	22	17	16	11	8	4	5	9	11	10	18	20	17
NHLBI	423	454	505	514	544	500	507	520	496	503	534	556	582	567	537	502	465	442	512	584
NIA	118	132	130	142	154	174	189	196	202	219	221	227	237	225	220	196	201	214	246	270
NIAAA	60	68	74	85	80	80	75	88	84	83	94	97	93	94	95	95	94	89	95	108
NIAID	214	206	243	246	274	286	316	329	318	315	301	311	314	304	290	260	261	260	269	253
NIAMS	66	75	91	109	118	126	136	136	142	150	160	154	150	156	154	157	150	144	142	136
NIBIB					4	9	17	21	25	32	35	33	33	30	27	28	31	29	26	21
NICHD	84	88	106	131	140	166	184	193	192	226	216	219	222	216	226	219	208	187	181	165
NIDA	149	154	163	181	193	226	239	245	244	255	254	248	240	217	208	197	209	198	200	216
NIDCD	43	41	44	45	42	39	42	43	40	41	37	32	31	33	28	38	42	43	43	42
NIDCR	32	37	41	57	69	89	85	96	83	79	79	75	63	59	54	44	38	40	39	47
NIDDK	190	234	277	323	382	448	469	491	511	524	528	511	509	496	488	486	486	486	469	434
NIEHS	18	17	29	40	43	42	46	41	35	43	47	39	39	44	44	49	60	70	65	60
NIGMS	10	13	21	26	33	35	56	55	60	76	92	75	82	80	82	86	82	88	86	76
NIMH	338	354	384	408	446	485	517	508	477	459	433	400	401	386	382	353	343	322	307	311



## Individual Research Career Development Awards: Funding by Institute / Center, sorted by average amount (continued)

Legend:- <= 10 20 30 40 50 60 70 80 90 100 150 200 250 300 400 500 > 500

Institute / Center	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
NIMHD										1	1				2	4	6	4	6	4
NINDS	206	191	182	180	191	212	235	266	281	284	298	274	225	214	204	199	196	195	158	190
NINR	24	28	32	31	33	31	32	24	23	30	32	32	30	29	30	29	31	30	24	24
NLM	1						5	13	20	18	12	6	4	6	8	8	13	15	12	8
OD															28	29	26	26	29	30
Total	2,262	2,413	2,764	3,047	3,401	3,708	3,937	4,082	4,036	4,111	4,125	3,983	3,870	3,757	3,647	3,489	3,463	3,422	3,461	3,538



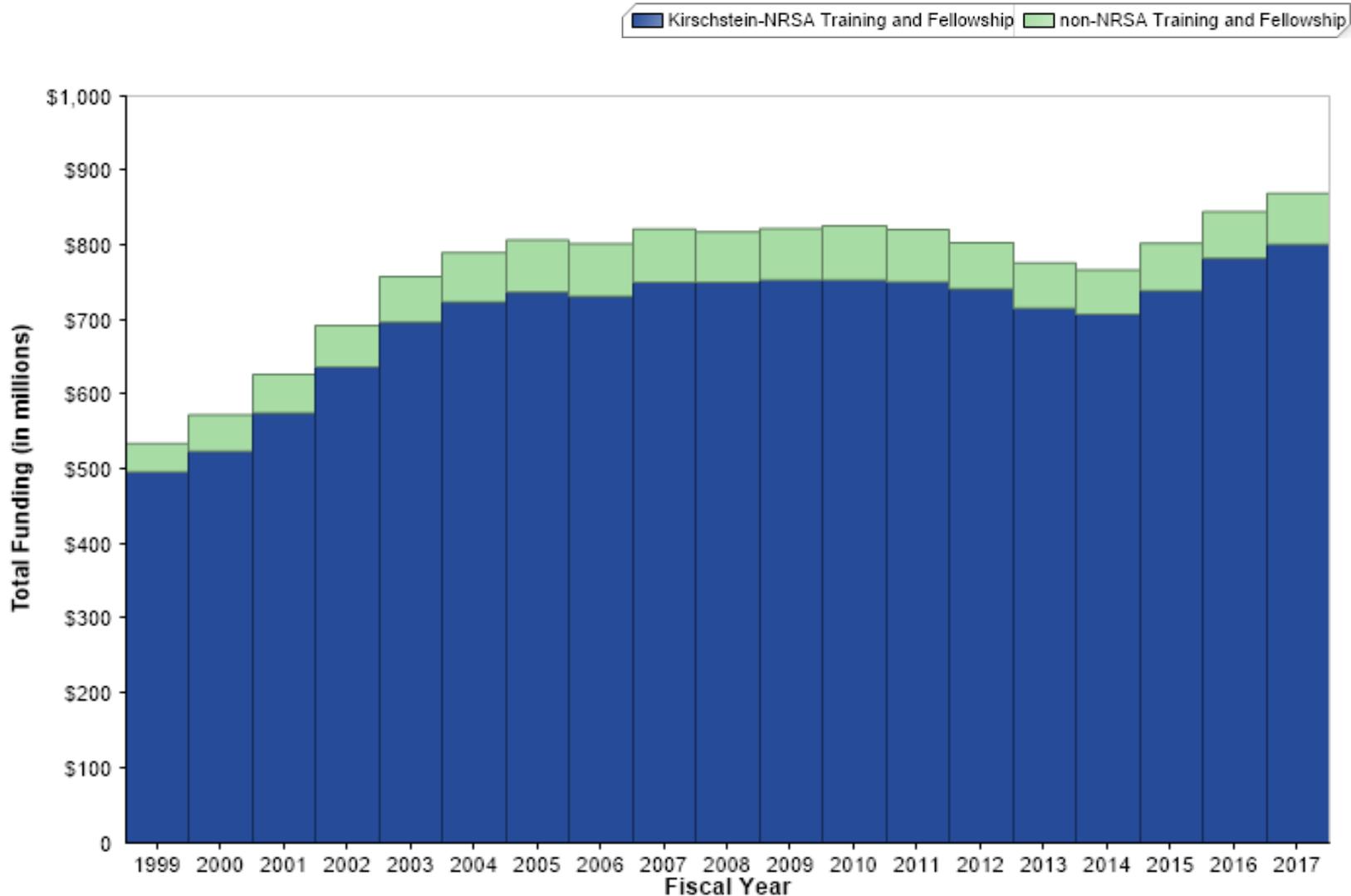


# NIH RESEARCH TRAINING GRANTS AND FELLOWSHIPS



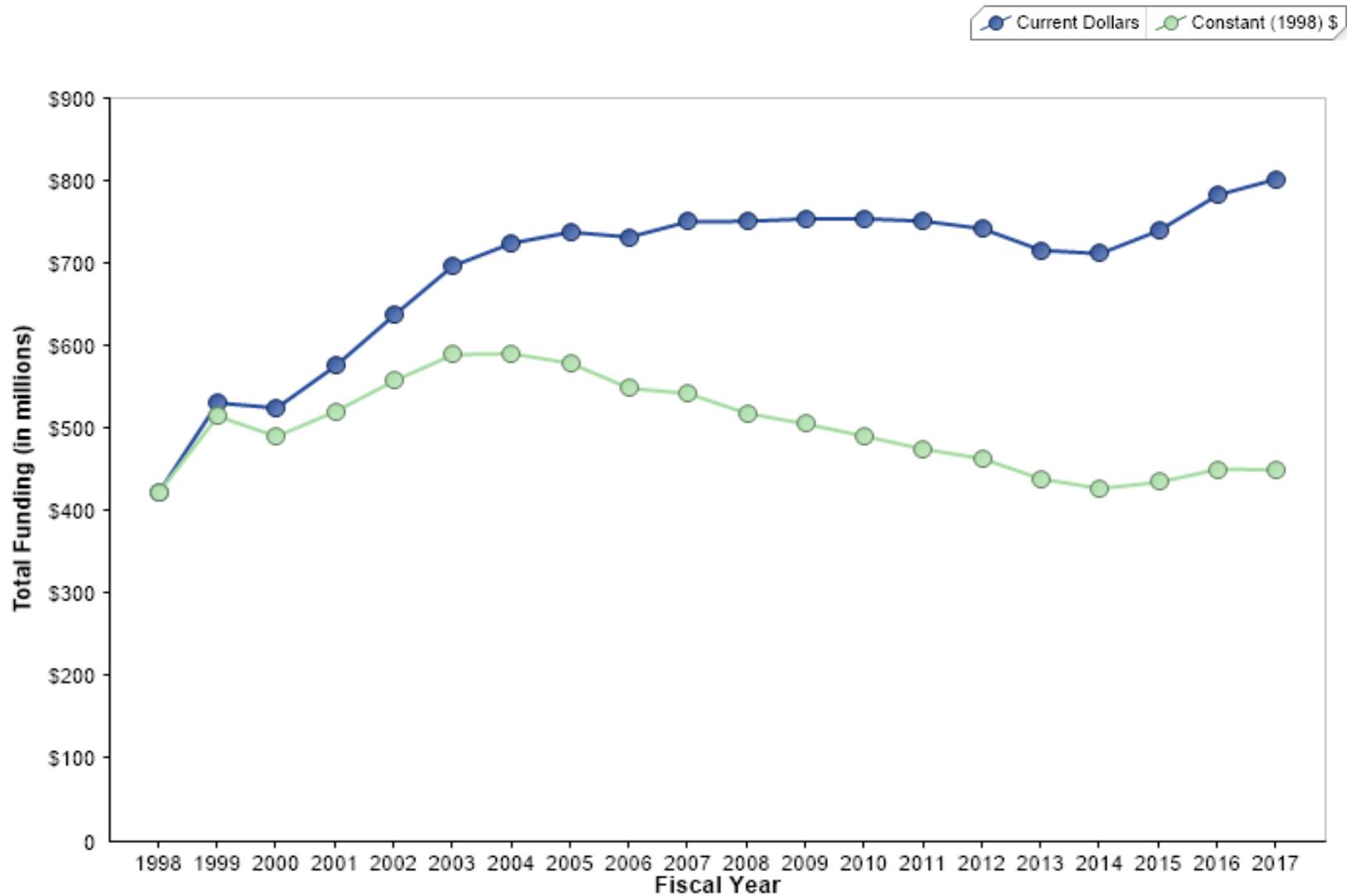
# Research training grants and fellowships

## Funding of Kirschstein-NRSA and non-NRSA awards



# Kirschstein-NRSA training grants and fellowships

## Funding in current and constant dollars



# NIH Research Training Grants and Fellowships

## Kirschstein-NRSA training grants and fellowships: Funding by activity FY 1998- 2009

Type	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
F30	\$1,215,913	\$1,527,853	\$1,864,752	\$2,254,972	\$3,016,882	\$3,720,575	\$4,715,285	\$5,471,693	\$6,227,095	\$7,262,517	\$9,317,342	\$12,843,011
F31	\$12,592,574	\$15,182,943	\$16,727,887	\$21,909,345	\$25,796,400	\$30,084,619	\$33,832,418	\$35,668,413	\$39,085,839	\$41,115,964	\$41,017,503	\$42,278,259
F32	\$54,530,570	\$67,630,039	\$66,622,489	\$69,452,195	\$71,436,894	\$72,838,163	\$72,598,477	\$76,513,573	\$76,972,492	\$71,497,366	\$72,056,660	\$66,087,098
F33	\$490,855	\$848,753	\$555,611	\$832,790	\$578,906	\$1,018,091	\$826,283	\$785,565	\$595,247	\$813,426	\$700,701	\$444,613
F34	\$125,847	\$148,886	\$143,428	\$78,946	\$87,445	\$135,891	\$94,517	\$86,527	\$44,110	\$44,110	\$24,030	
T32	\$322,729,394	\$383,036,992	\$406,751,603	\$444,921,883	\$497,424,833	\$549,907,107	\$569,191,273	\$575,344,879	\$560,609,687	\$577,967,599	\$573,025,996	\$580,933,718
T34	\$17,430,204	\$20,076,070	\$21,935,584	\$24,031,592	\$25,411,858	\$25,049,860	\$24,303,241	\$23,962,495	\$22,601,835	\$21,975,701	\$19,942,735	\$21,818,852
T35	\$6,174,952	\$7,243,693	\$7,295,450	\$7,818,793	\$7,959,251	\$9,107,591	\$9,359,119	\$9,618,065	\$8,864,103	\$8,681,193	\$7,505,582	\$7,053,139
T36	\$1,646,187	\$1,526,173	\$3,114,722	\$4,563,809	\$5,769,410	\$5,148,213	\$6,204,846	\$6,223,143	\$6,717,167	\$6,736,252	\$9,315,770	\$8,420,849
T90							\$3,335,479	\$4,076,003	\$6,937,845	\$6,722,582	\$7,234,290	\$2,345,392
TL1									\$3,215,140	\$7,628,021	\$11,011,851	\$11,798,229
TU2						\$201,918	\$205,391	\$208,189	\$75,137	\$191,432		
Total Funding	\$416,981,710	\$497,221,402	\$525,011,526	\$575,864,325	\$637,481,879	\$697,212,028	\$724,666,329	\$737,958,545	\$731,945,697	\$750,636,163	\$751,152,460	\$754,023,160



# NIH Research Training Grants and Fellowships

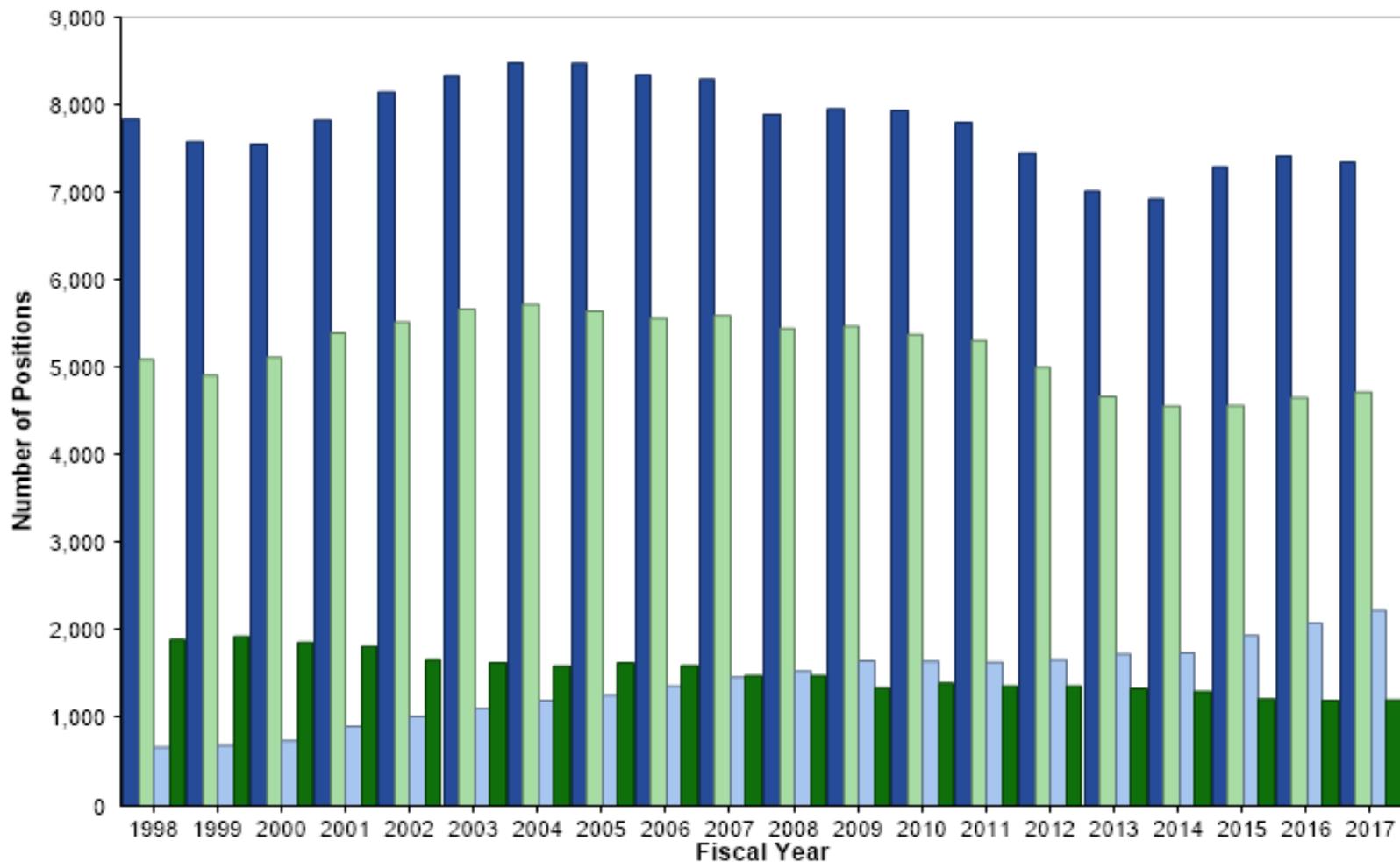
## Kirschstein-NRSA training grants and fellowships: Funding by activity FY 2010- 2017

Type	2010	2011	2012	2013	2014	2015	2016	2017
F30	\$15,253,640	\$15,697,225	\$16,316,709	\$17,609,649	\$19,249,794	\$21,911,902	\$25,419,292	\$28,068,777
F31	\$40,341,205	\$41,335,183	\$42,468,078	\$44,650,964	\$44,627,322	\$49,574,622	\$52,644,234	\$57,184,917
F32	\$70,010,439	\$70,338,146	\$70,331,404	\$69,376,170	\$69,827,752	\$65,466,626	\$67,916,830	\$70,370,800
F33	\$89,619	\$108,646	\$474,695	\$215,702	\$104,014	\$62,011		
T32	\$577,320,176	\$570,189,349	\$556,708,314	\$529,315,730	\$525,284,218	\$541,976,438	\$564,978,499	\$570,922,776
T34	\$22,544,118	\$22,400,781	\$21,960,058	\$21,000,075	\$17,159,859	\$17,903,357	\$18,032,897	\$17,314,346
T35	\$6,339,119	\$6,315,948	\$6,859,469	\$6,415,969	\$6,532,553	\$7,268,394	\$7,154,016	\$7,572,234
T36	\$8,534,336	\$9,186,074	\$9,733,709	\$9,025,715	\$8,730,325	\$4,972,723	\$2,553,459	\$2,308,135
T90	\$1,451,524	\$4,066,103	\$6,331,709	\$5,419,846	\$6,124,679	\$5,933,317	\$5,087,688	\$4,617,651
TL1	\$12,212,793	\$11,630,583	\$10,952,513	\$12,975,664	\$10,502,370	\$13,181,709	\$22,680,718	\$23,936,324
TL4						\$11,644,539	\$16,427,440	\$19,955,489
Total Funding	\$754,096,969	\$751,268,038	\$742,136,658	\$716,005,484	\$708,142,886	\$739,895,638	\$782,895,073	\$802,251,449



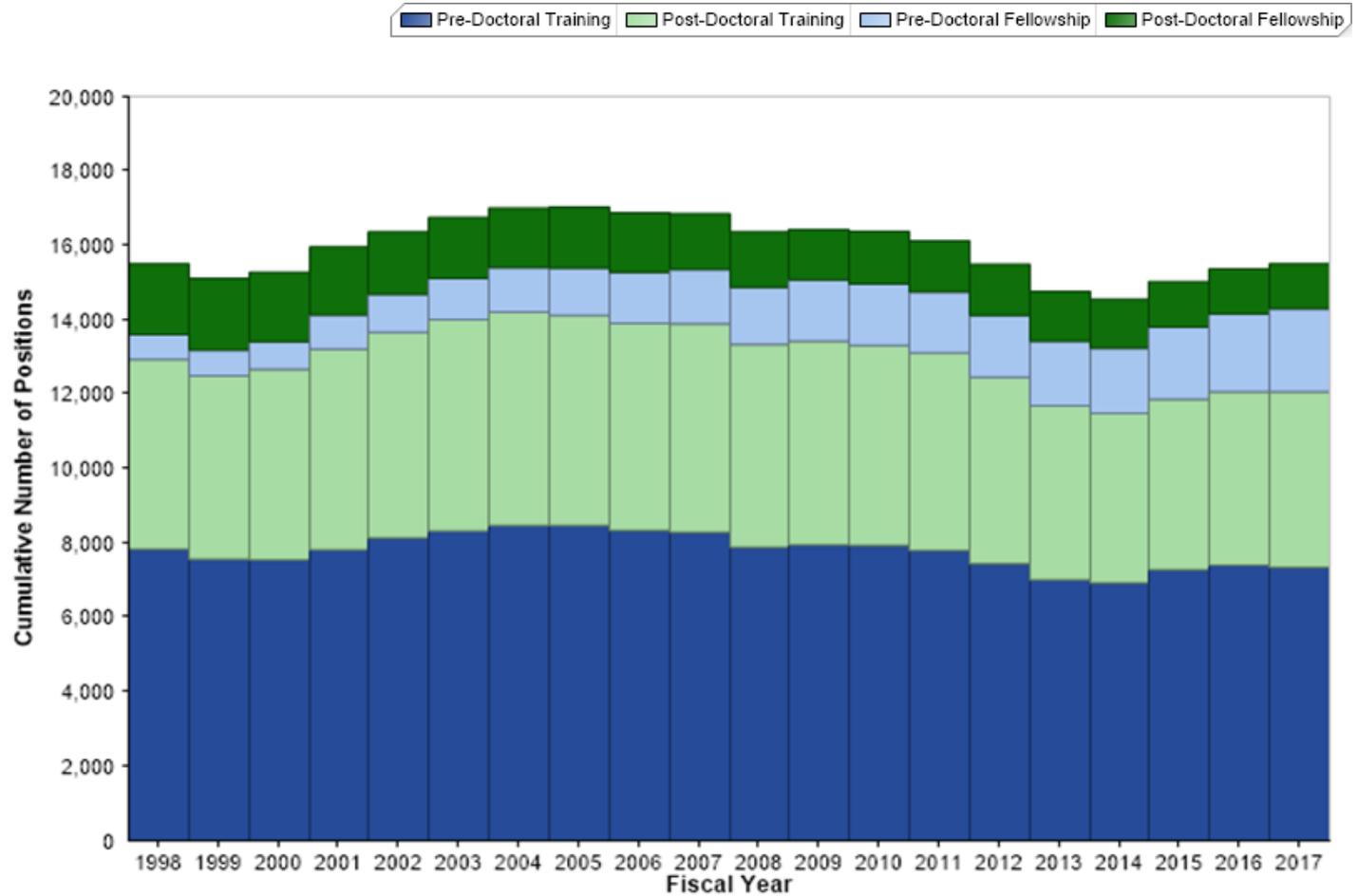
## Kirschstein-NRSA training grants and fellowships Pre- and Post-Doctoral full-time training positions awarded

■ Pre-Doctoral Training   
 ■ Post-Doctoral Training   
 ■ Pre-Doctoral Fellowship   
 ■ Post-Doctoral Fellowship



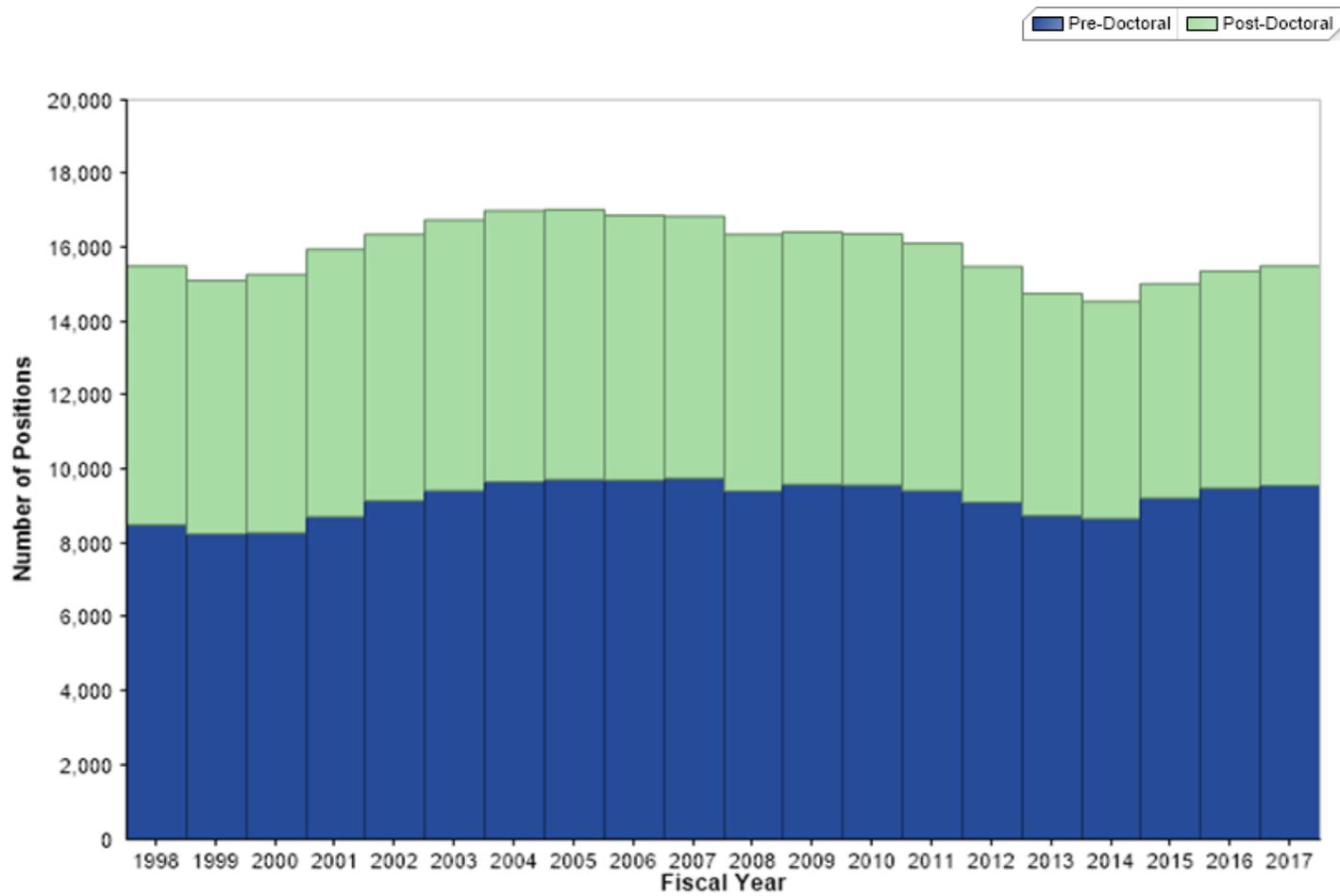
# Kirschstein-NRSA training grants and fellowships

## Distribution of full-time training positions, by activity and career stage



# Kirschstein-NRSA training grants and fellowships

## Pre- and Post-Doctoral full-time training positions awarded



# NIH Research Training Grants and Fellowships

## Kirschstein-NRSA training grants and fellowships: Full-time training positions awarded, by Institute/Center, FY 2017

Legend:- <= 25 50 75 100 125 150 175 200 300 400 500 1000 1500 2000 > 2000

Career Stage	NIGMS	NCI	NIAID	NHLBI	NINDS	NIMH	NIDDK	NICHD	NIEHS	NIA	NCATS	NIDA	NIBIB	NIDCD	NEI	NIAAA	NIDCR	NHGRI	NINR	NIAMS	NLM	NCCIH	OD	NIMHD
Pre-Doctoral	3,740	686	637	618	462	369	320	301	301	295	275	254	195	164	164	161	157	130	116	107	86	21	15	8

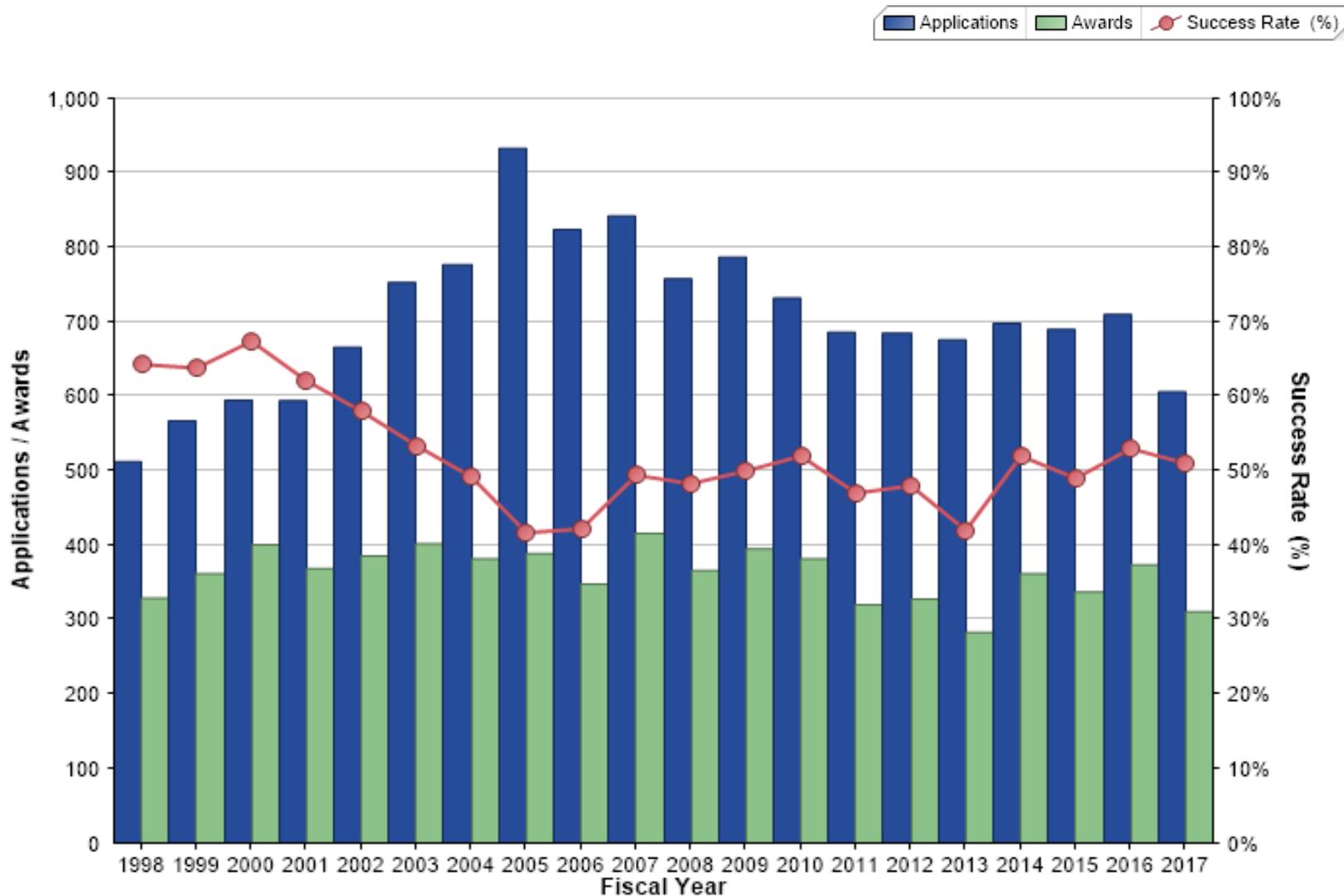
Career Stage	NHLBI	NCI	NIDDK	NIGMS	NIAID	NIMH	NICHD	NINDS	NIDA	NIA	NIAMS	NCATS	NIEHS	NIDCD	NIAAA	OD	NEI	NIDCR	NINR	NIBIB	NCCIH	NHGRI	NIMHD	NLM
Post-Doctoral	1,180	758	670	540	463	373	247	227	218	204	185	150	118	110	109	74	71	70	47	44	37	37	1	0

Career Stage	NIGMS	NHLBI	NCI	NIAID	NIDDK	NIMH	NINDS	NICHD	NIA	NIDA	NCATS	NIEHS	NIAMS	NIDCD	NIAAA	NIBIB	NEI	NIDCR	NHGRI	NINR	OD	NLM	NCCIH	NIMHD	NIH
Pre-Doctoral	3,740	618	686	637	320	369	462	301	295	254	275	301	107	164	161	195	164	157	130	116	15	86	21	8	9,582
Post-Doctoral	540	1,180	758	463	670	373	227	247	204	218	150	118	185	110	109	44	71	70	37	47	74	0	37	1	5,933
Total FTFPs	4,280	1,798	1,444	1,100	990	742	689	548	499	472	425	419	292	274	270	239	235	227	167	163	89	86	58	9	15,515

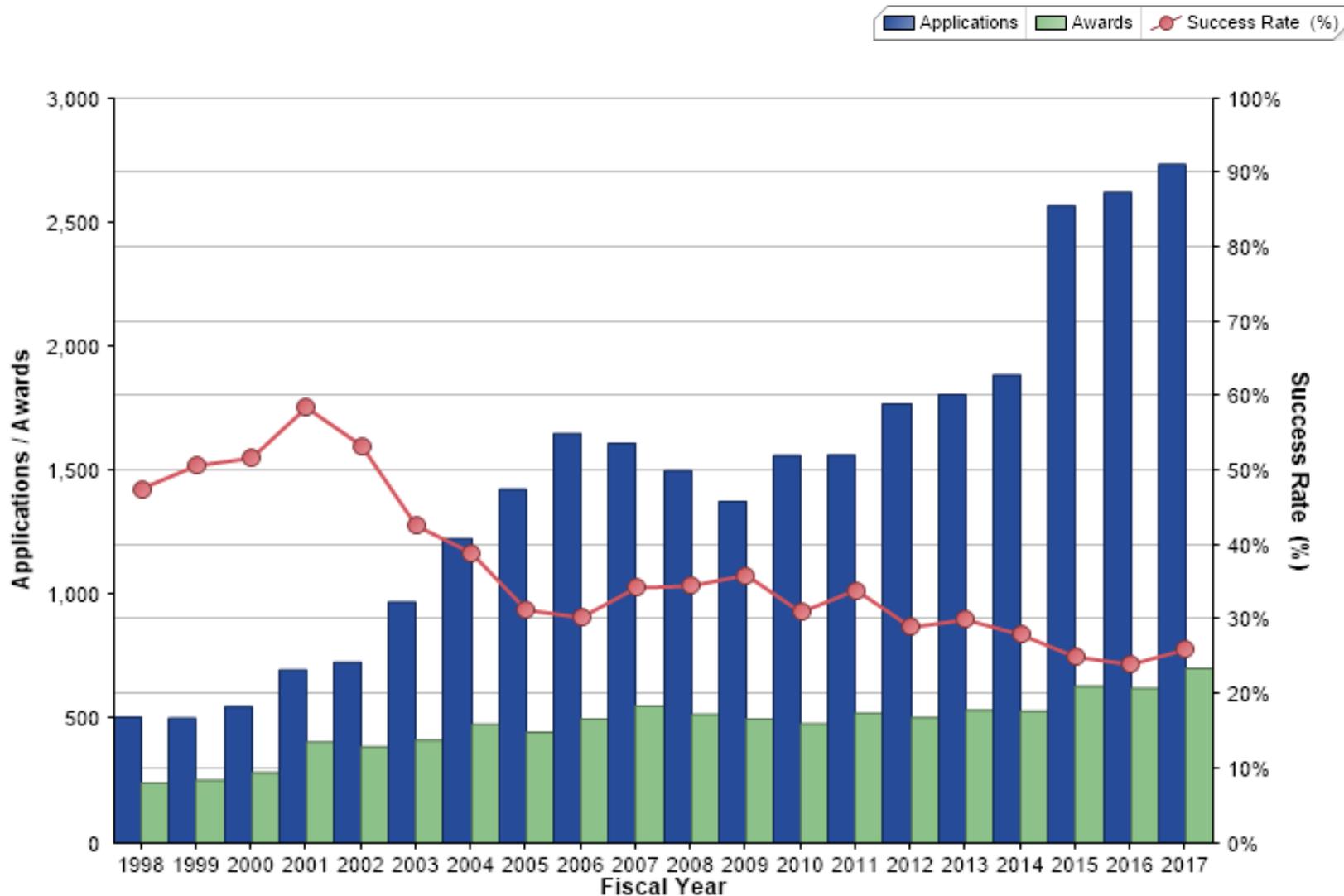


# Kirschstein-NRSA institutional research training grants

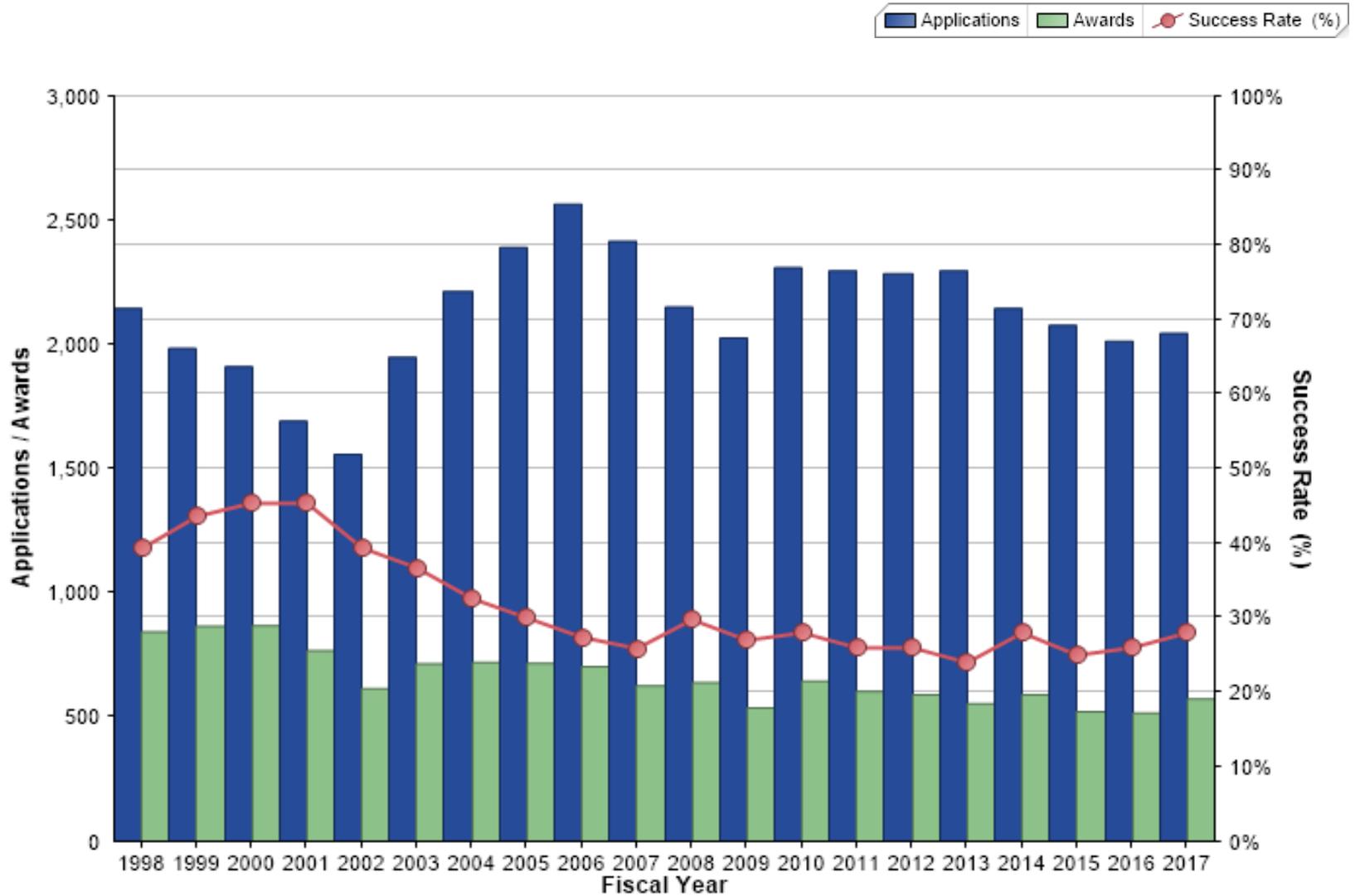
## Applications, awards, and success rates



# Kirschstein-NRSA pre-doctoral fellowships (F31s) Applications, awards, and success rates



# Kirschstein-NRSA pre-doctoral fellowships (F32s) Applications, awards, and success rates

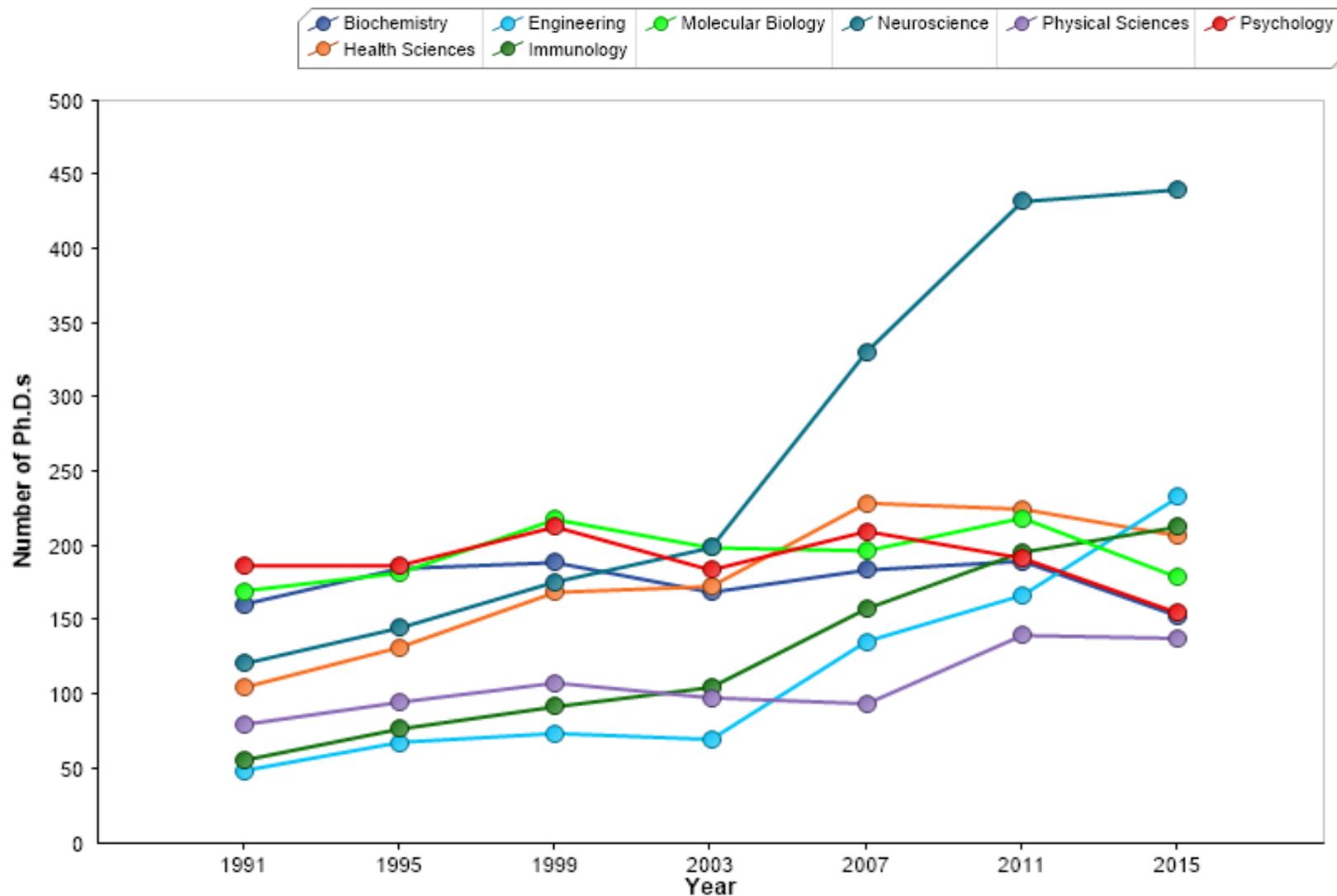




# NIH-SUPPORTED Ph.D. RECIPIENTS



## Trends in major fields of study of NIH-supported Ph.D. recipients



## NIH-Supported Ph.D. Recipients

### NIH-Supported Ph.D. recipients, by field of study

Ph.D. Field of Study	Total Number of Ph.D. Recipients	Number of Ph.D. Recipients Eligible* to be Supported by the NIH	Number of Ph.D. Recipients Supported by the NIH	Percent of Total Ph.D. Recipients Supported by the NIH	Percent of Eligible* Ph.D. Recipients Supported by the NIH
<b>Life Sciences</b>	11,363	7,912	2,496	22.0%	31.5%
Agricultural Sciences/Natural Resources	262	159	3	1.1%	1.9%
Animal Nutrition	40	27	1	2.5%	3.7%
Environmental Science	183	112	1	0.5%	0.9%
Food Science	39	20	1	2.6%	5.0%
Biological/Biomedical Sciences	8,823	6,083	2,286	25.9%	37.6%
Bacteriology	22	20	4	18.2%	20.0%
Biochemistry	749	465	153	20.4%	32.9%
Bioinformatics	175	89	39	22.3%	43.8%
Biology/Biomedical Sciences, General	261	119	37	14.2%	31.1%
Biology/Biomedical Sciences, Other	73	46	17	23.3%	37.0%
Biomedical Sciences	416	267	102	24.5%	38.2%
Biometrics and Biostatistics	171	76	28	16.4%	36.8%
Biophysics	181	117	69	38.1%	59.0%
Biotechnology	38	21	3	7.9%	14.3%
Botany/Plant Biology	97	59	2	2.1%	3.4%
Cancer Biology	455	293	132	29.0%	45.1%
Cell/Cellular Biology and Histology	321	221	99	30.8%	44.8%
Computational Biology	107	49	25	23.4%	51.0%
Developmental Biology/Embryology	187	127	62	33.2%	48.8%



## NIH-Supported Ph.D. Recipients

### NIH-Supported Ph.D. recipients, by field of study (continued)

Ph.D. Field of Study	Total Number of Ph.D. Recipients	Number of Ph.D. Recipients Eligible* to be Supported by the NIH	Number of Ph.D. Recipients Supported by the NIH	Percent of Total Ph.D. Recipients Supported by the NIH	Percent of Eligible* Ph.D. Recipients Supported by the NIH
Ecology	455	388	8	1.8%	2.1%
Endocrinology	22	16	6	27.3%	37.5%
Entomology	110	71	3	2.7%	4.2%
Environmental Toxicology	35	26	5	14.3%	19.2%
Epidemiology	381	296	82	21.5%	27.7%
Evolutionary Biology	209	167	16	7.7%	9.6%
Genetics/Genomics, Human and Animal	358	247	128	35.8%	51.8%
Immunology	473	362	213	45.0%	58.8%
Marine Biology & Biological Oceanography	85	72	1	1.2%	1.4%
Microbiology	480	356	113	23.5%	31.7%
Molecular Biology	631	399	179	28.4%	44.9%
Neurosciences and Neurobiology	1,091	843	440	40.3%	52.2%
Nutrition Sciences	186	118	21	11.3%	17.8%
Parasitology	31	24	9	29.0%	37.5%
Pathology, Human and Animal	87	53	29	33.3%	54.7%
Pharmacology, Human and Animal	243	158	90	37.0%	57.0%
Physiology, Human and Animal	210	161	54	25.7%	33.5%
Plant Genetics	57	33	7	12.3%	21.2%
Structural Biology	64	41	16	25.0%	39.0%
Toxicology	105	85	34	32.4%	40.0%
Virology	164	122	57	34.8%	46.7%
Wildlife Biology	47	44	1	2.1%	2.3%
Zoology	46	32	2	4.3%	6.3%
Health Sciences	2,278	1,670	207	9.1%	12.4%
Environmental Health	81	59	13	16.0%	22.0%
Gerontology	13	11	3	23.1%	27.3%



## NIH-Supported Ph.D. Recipients

### NIH-Supported Ph.D. recipients, by field of study (continued)

Ph.D. Field of Study	Total Number of Ph.D. Recipients	Number of Ph.D. Recipients Eligible* to be Supported by the NIH	Number of Ph.D. Recipients Supported by the NIH	Percent of Total Ph.D. Recipients Supported by the NIH	Percent of Eligible* Ph.D. Recipients Supported by the NIH
Health & Behavior	126	107	13	10.3%	12.2%
Health Policy Analysis	82	63	7	8.5%	11.1%
Health Sciences, General	36	29	2	5.6%	6.9%
Health Sciences, Other	85	56	9	10.6%	16.1%
Health Systems/Services Administration	70	50	1	1.4%	2.0%
Kinesiology/Exercise Physiology	264	180	8	3.0%	4.4%
Nursing Science	536	456	47	8.8%	10.3%
Oral Biology/Oral Pathology	19	11	8	42.1%	72.7%
Pharmaceutical Sciences	270	104	21	7.8%	20.2%
Public Health	437	369	49	11.2%	13.3%
Rehabilitation/Therapeutic Services	87	68	7	8.0%	10.3%
Speech-Language Pathology and Audiology	116	87	15	12.9%	17.2%
Veterinary Sciences	56	20	4	7.1%	20.0%
<b>Social Sciences &amp; Psychology</b>	7,494	5,515	222	3.0%	4.0%
Psychology	3,308	2,736	155	4.7%	5.7%
Clinical Psychology	1,179	1,044	80	6.8%	7.7%
Cognitive Psychology and Psycholinguistics	220	171	19	8.6%	11.1%
Counseling Psychology	419	357	1	0.2%	0.3%
Developmental and Child Psychology	190	163	12	6.3%	7.4%
Experimental Psychology	143	114	14	9.8%	12.3%
Health & Medical Psychology	101	93	4	4.0%	4.3%
Neuropsychology/Physiological Psychology	130	111	10	7.7%	9.0%
Personality Psychology	21	20	1	4.8%	5.0%
Psychology, General	292	155	8	2.7%	5.2%
Psychology, Other	171	146	2	1.2%	1.4%
Psychometrics and Quantitative Psychology	48	35	1	2.1%	2.9%



## NIH-Supported Ph.D. Recipients

### NIH-Supported Ph.D. recipients, by field of study (continued)

Ph.D. Field of Study	Total Number of Ph.D. Recipients	Number of Ph.D. Recipients Eligible* to be Supported by the NIH	Number of Ph.D. Recipients Supported by the NIH	Percent of Total Ph.D. Recipients Supported by the NIH	Percent of Eligible* Ph.D. Recipients Supported by the NIH
School Psychology	115	105	1	0.9%	1.0%
Social Psychology	219	192	2	0.9%	1.0%
Social Sciences	4,186	2,779	67	1.6%	2.4%
Anthropology, Cultural	317	258	6	1.9%	2.3%
Demography/Population Studies	21	17	10	47.6%	58.8%
Economics	1,168	519	13	1.1%	2.5%
Geography	302	210	1	0.3%	0.5%
Gerontology	24	21	2	8.3%	9.5%
Linguistics	288	176	5	1.7%	2.8%
Political Science and Government	857	619	1	0.1%	0.2%
Public Policy Analysis	295	233	6	2.0%	2.6%
Social Sciences, Other	147	119	1	0.7%	0.8%
Sociology	745	598	21	2.8%	3.5%
Statistics	22	9	1	4.5%	11.1%
<b>Physical Sciences</b>	7,116	3,457	138	1.9%	4.0%
Chemistry	2,540	1,504	75	3.0%	5.0%
Analytical Chemistry	389	239	9	2.3%	3.8%
Chemistry, General	401	145	6	1.5%	4.1%
Chemistry, Other	211	126	16	7.6%	12.7%
Inorganic Chemistry	354	238	7	2.0%	2.9%
Medicinal Chemistry	79	44	9	11.4%	20.5%
Organic Chemistry	627	395	19	3.0%	4.8%
Physical Chemistry	368	245	6	1.6%	2.4%
Theoretical Chemistry	111	72	3	2.7%	4.2%
Computer Sciences	2,005	773	11	0.5%	1.4%
Computer and Information Sciences, General	117	40	2	1.7%	5.0%



## NIH-Supported Ph.D. Recipients

### NIH-Supported Ph.D. recipients, by field of study (continued)

Ph.D. Field of Study	Total Number of Ph.D. Recipients	Number of Ph.D. Recipients Eligible* to be Supported by the NIH	Number of Ph.D. Recipients Supported by the NIH	Percent of Total Ph.D. Recipients Supported by the NIH	Percent of Eligible* Ph.D. Recipients Supported by the NIH
Computer and Information Sciences, Other	70	43	1	1.4%	2.3%
Computer Science	1,661	603	7	0.4%	1.2%
Information Science and Systems	157	87	1	0.6%	1.2%
Mathematics	1,151	481	18	1.6%	3.7%
Applied Mathematics	437	202	1	0.2%	0.5%
Mathematics/Statistics, General	244	62	2	0.8%	3.2%
Mathematics/Statistics, Other	87	61	2	2.3%	3.3%
Statistics	383	156	13	3.4%	8.3%
Physics	1,420	699	13	2.4%	4.9%
Applied Physics	145	81	4	2.8%	4.9%
Atomic/Molecular/Chemical Physics	125	74	1	0.8%	1.4%
Biophysics	127	64	10	7.9%	15.6%
Condensed Matter/Low Temperature Physics	439	195	1	0.2%	0.5%
Medical Physics/Radiological Science	84	60	10	11.9%	16.7%
Optics/Phototonics	216	117	5	2.3%	4.3%
Physics, General	284	108	3	1.1%	2.8%
<b>Engineering</b>	8,416	3,666	233	2.8%	6.4%
Bioengineering and Biomedical Engineering	1,129	725	195	17.3%	26.9%
Chemical Engineering	1,002	488	20	2.0%	4.1%
Civil Engineering	633	230	1	0.2%	0.4%
Computer Engineering	412	109	1	0.2%	0.9%
Electrical, Electronics and Communications Engineering	2,004	632	5	0.3%	0.8%
Engineering Mechanics Engineering	66	21	1	1.5%	4.8%
Environmental/Environmental Health Engineering	283	152	1	0.4%	0.7%



## NIH-Supported Ph.D. Recipients

### NIH-Supported Ph.D. recipients, by field of study (continued)

Ph.D. Field of Study	Total Number of Ph.D. Recipients	Number of Ph.D. Recipients Eligible* to be Supported by the NIH	Number of Ph.D. Recipients Supported by the NIH	Percent of Total Ph.D. Recipients Supported by the NIH	Percent of Eligible* Ph.D. Recipients Supported by the NIH
Materials Science Engineering	874	382	4	0.5%	1.0%
Mechanical Engineering	1,467	620	3	0.2%	0.5%
Polymer and Plastics Engineering	80	22	1	1.3%	4.5%
Systems Engineering	105	69	1	1.0%	1.4%
<b>Education</b>	615	514	3	0.5%	0.6%
<b>Humanities</b>	172	132	3	1.7%	2.3%
<b>Other Fields</b>	360	278	12	3.3%	4.3%
<b>Total</b>	35,536	21,474	3,107	8.7%	14.5%



## NIH-Supported Ph.D. Recipients Characteristics of NIH-supported Ph.D. recipients

<b>Median Time to Degree for Trainees*</b>	6.2 years
<b>Completion Rate for Trainees*</b>	79.5%
<b>Median Age at Ph.D.<sup>â€</sup></b>	30
<b>Post-Graduation Plans<sup>â€</sup></b>	
Definite Plans for a Post-doc	38.6%
Definite Plans for Employment	14.5%
Indefinite	27.1%
Other	19.9%
<b>Gender<sup>â€</sup></b>	
Female	55.0%
Male	45.0%
<b>Race/Ethnicity<sup>â€</sup></b>	
American Indian/Alaska Native	0.2%
Asian	12.8%
African American	4.4%
Hispanic	7.9%
White	70.4%
Other (including Multi-racial)	3.9%
Unknown	0.4%



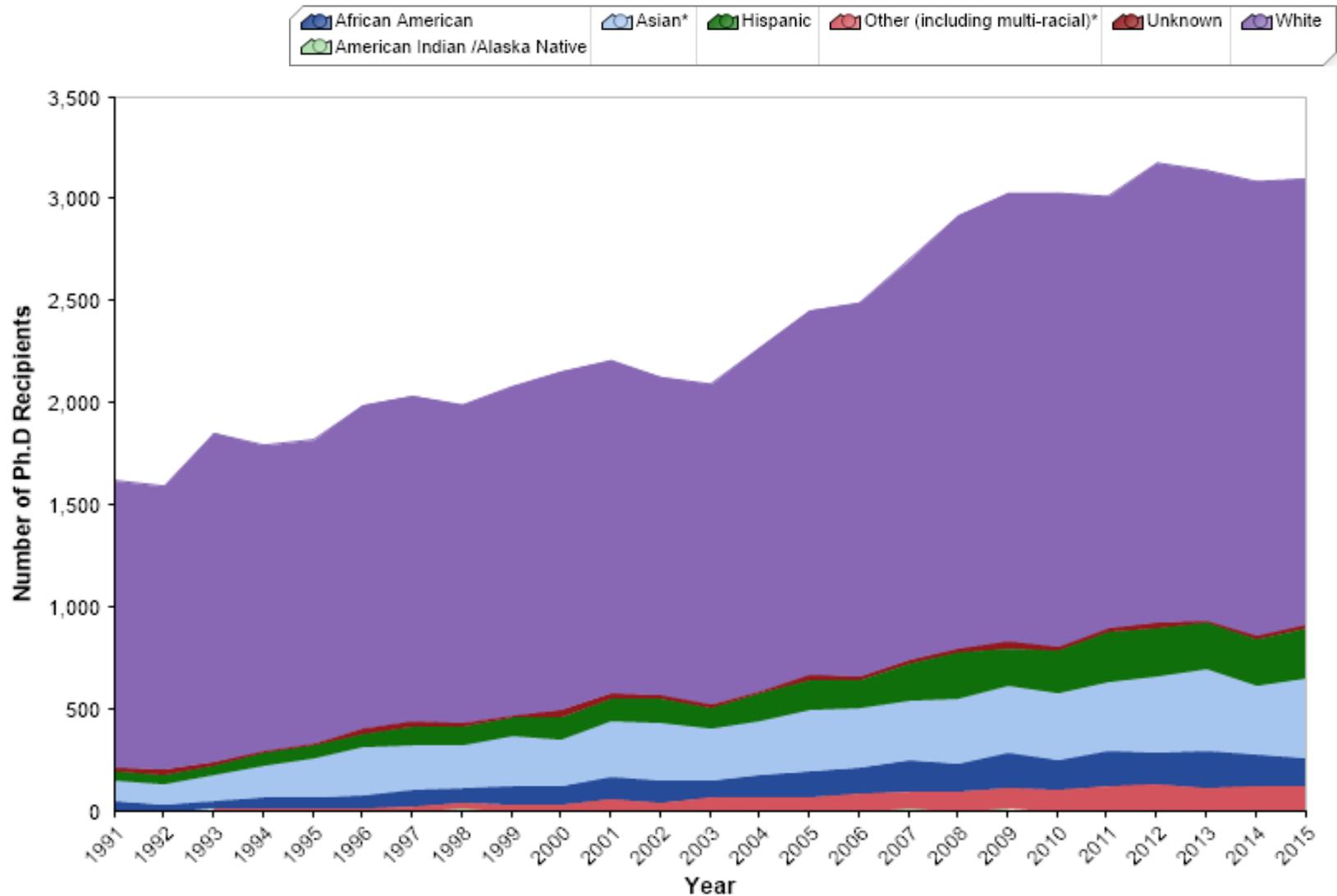
# NIH-Supported Ph.D. Recipients

## Subsequent NIH Grant Activity of NIH Trainees and Fellows Compared to Other Ph.D. Recipients

Type	Applied for NIH Research Project Grants Within 15 Years of Degree	Received NIH Research Project Grants Within 15 Years of Degree
Former NIH Kirschstein-NRSA Trainees and Fellows,	32.5%	20.6%
Other Ph.D.s from the Same Fields and Institutions	17.0%	9.5%
Other Ph.D.s from the Same Fields but from Institutions Without NIH Training Grants	12.6%	5.8%



## Trends in race/ethnicity of NIH-supported Ph.D. recipients

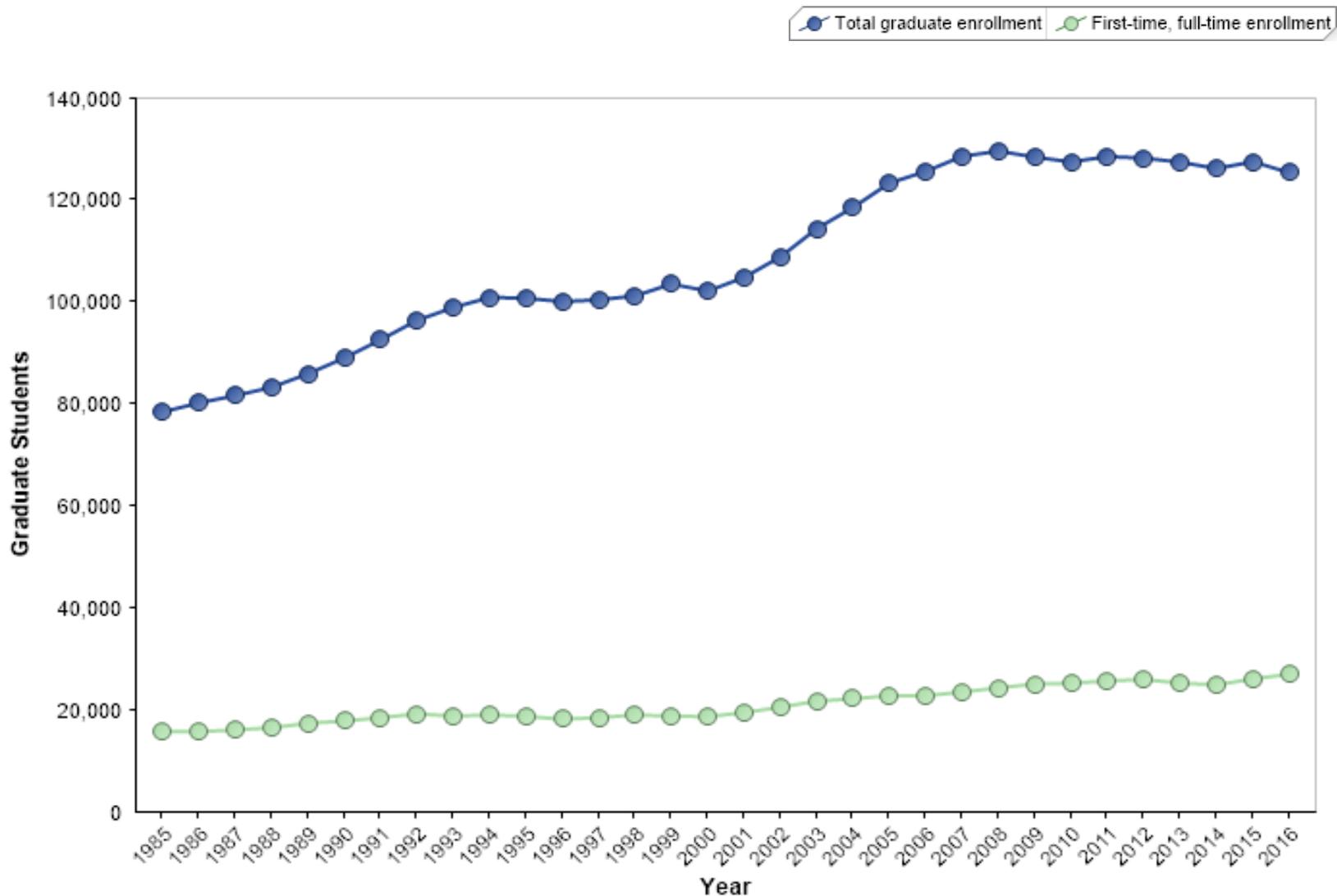




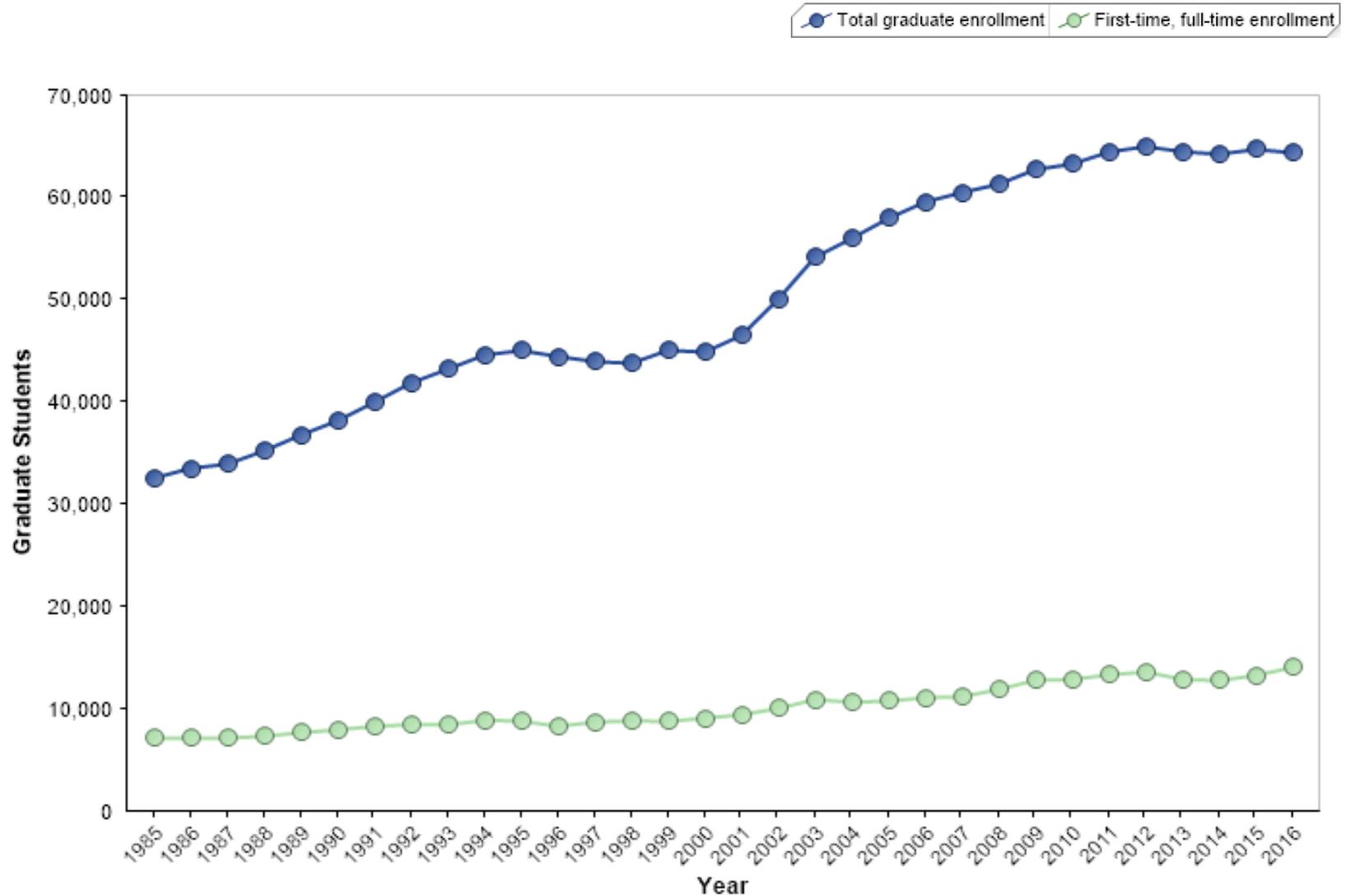
# NATIONAL STATISTICS ON GRADUATE STUDENTS IN THE BIOMEDICAL, BEHAVIORAL, SOCIAL, AND CLINICAL SCIENCES



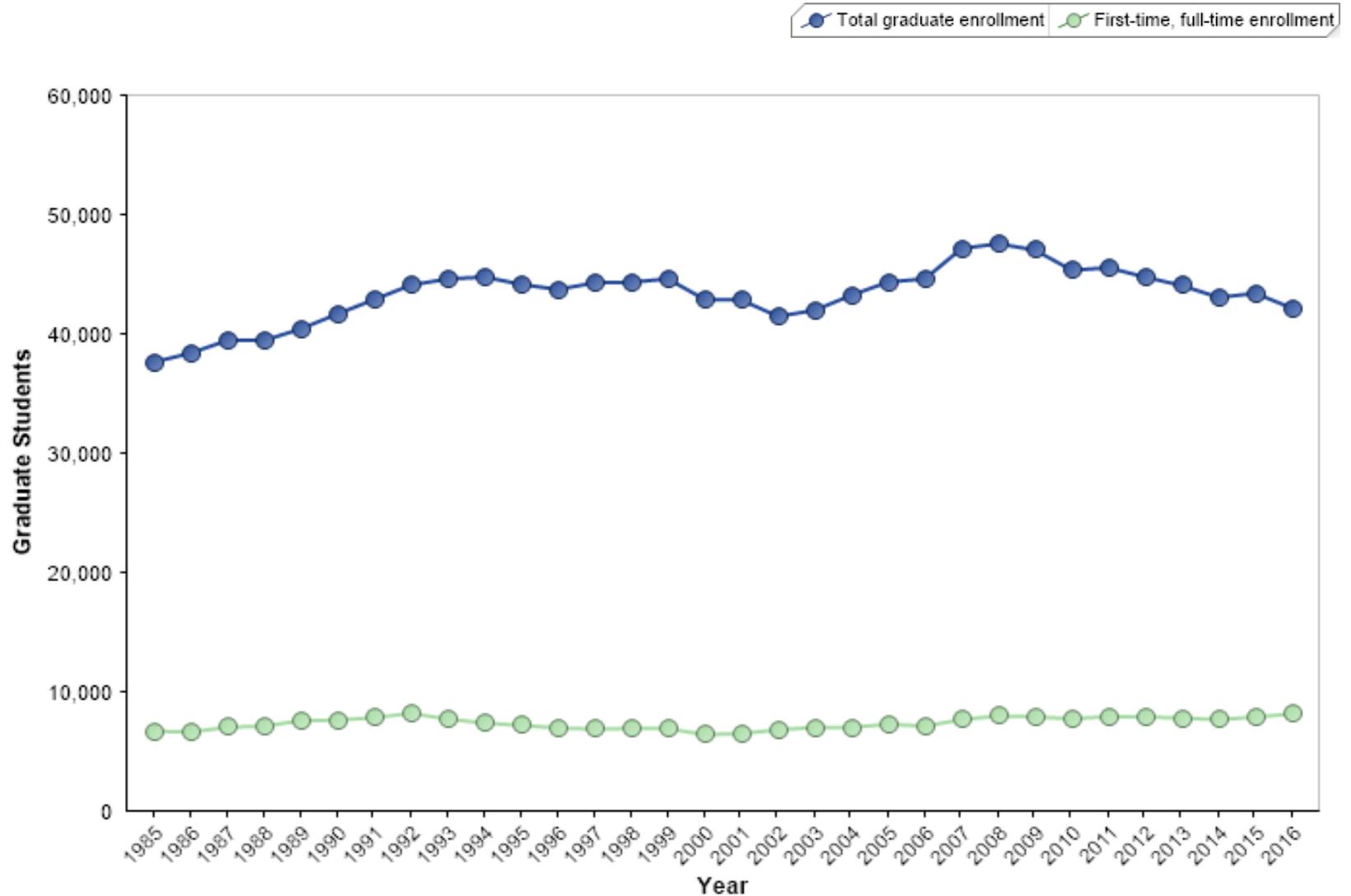
## Total graduate enrollment and first-time, full-time enrollment



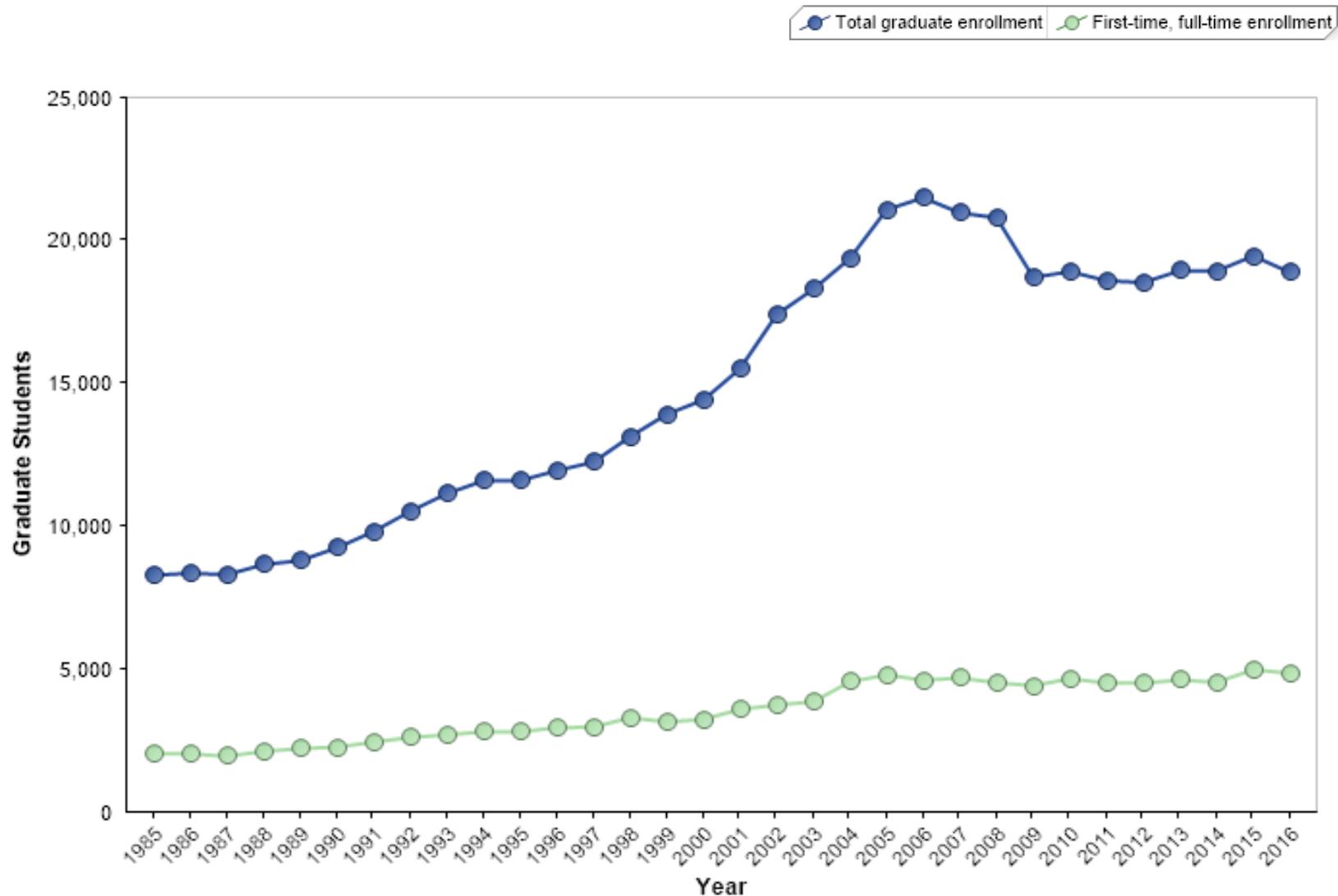
## Total graduate enrollment and first-time, full-time enrollment in the biomedical sciences



## Total graduate enrollment and first-time, full-time enrollment in the behavioral and social sciences

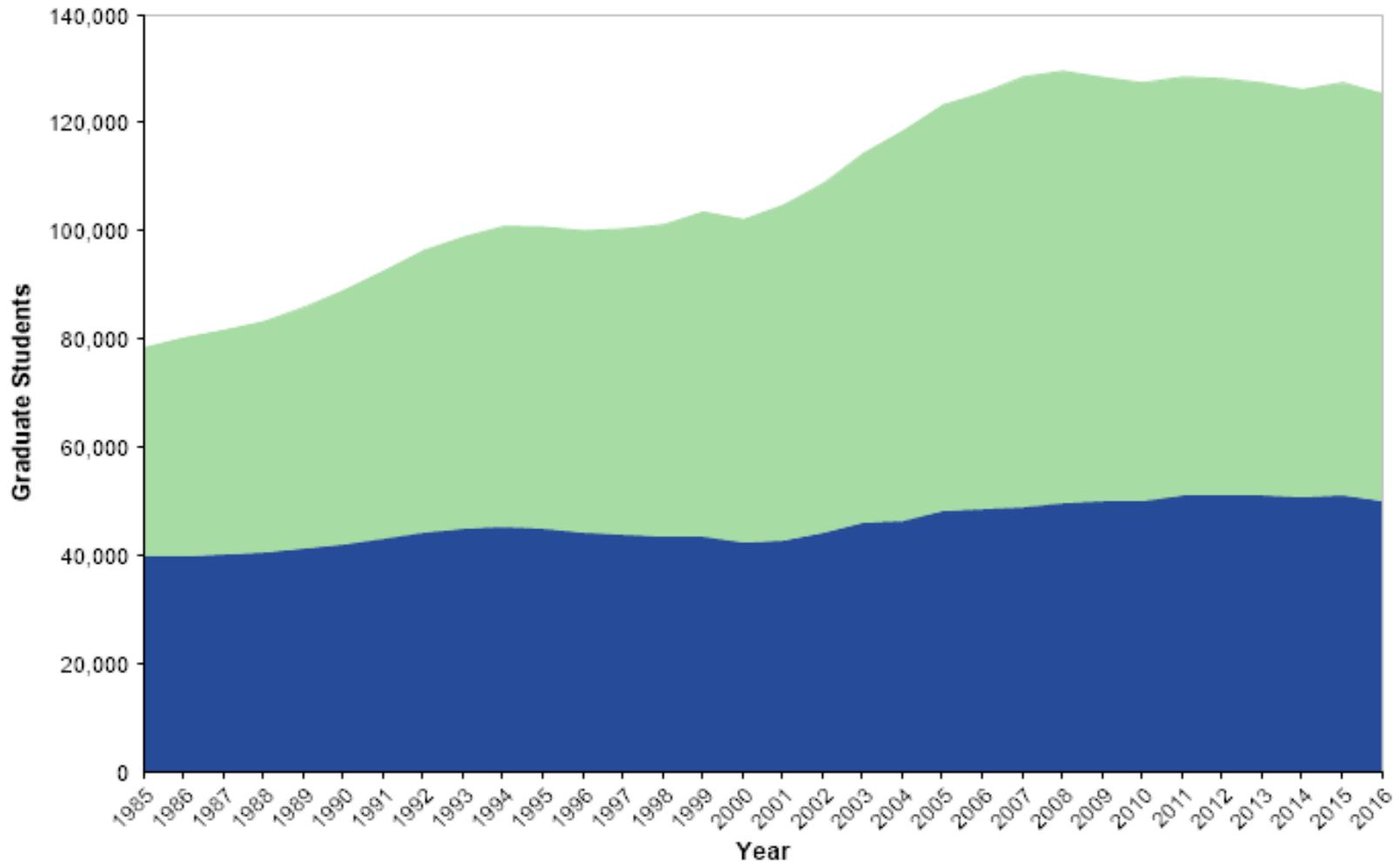


## Total graduate enrollment and first-time, full-time enrollment in the clinical sciences

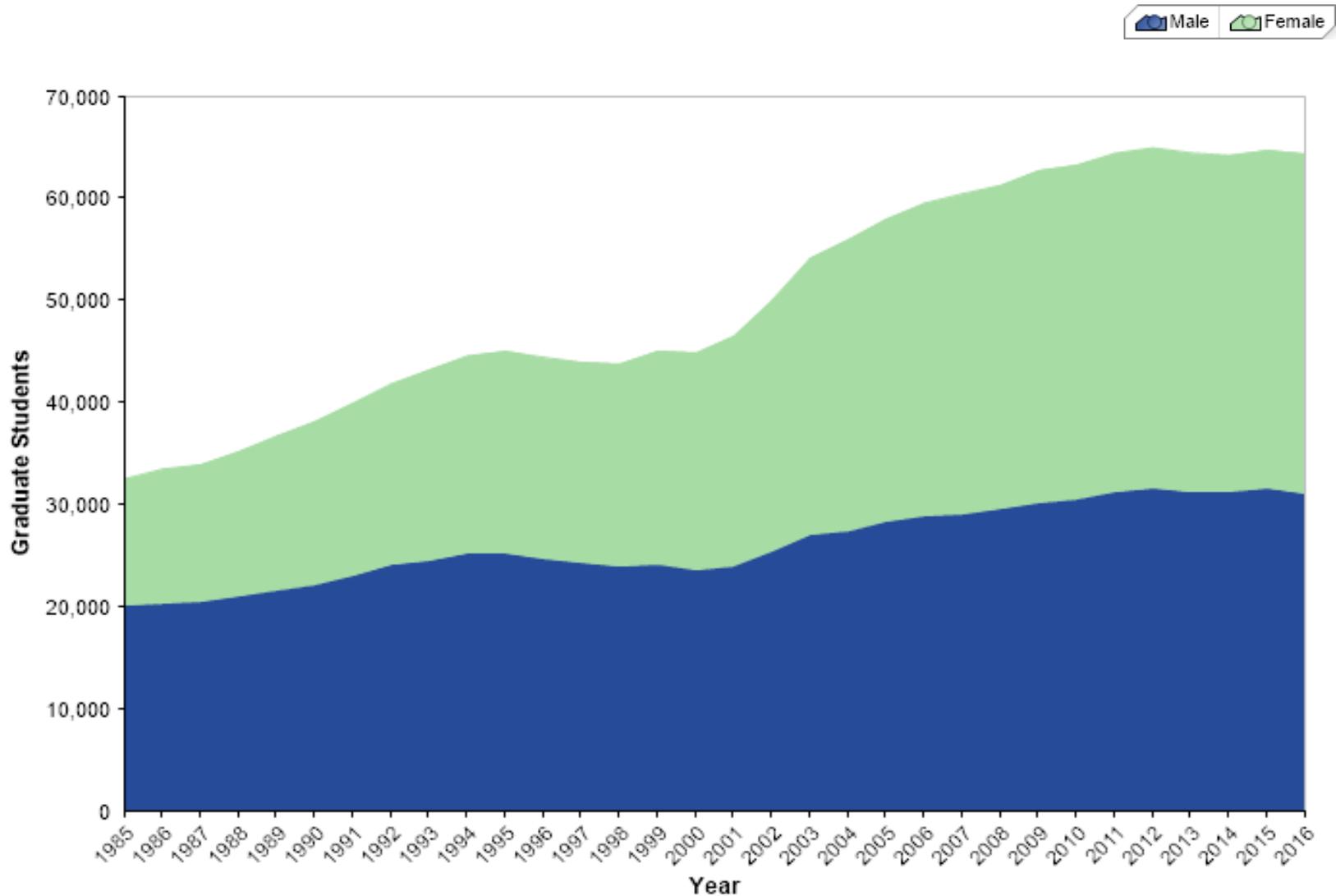


# Graduate enrollment, by gender

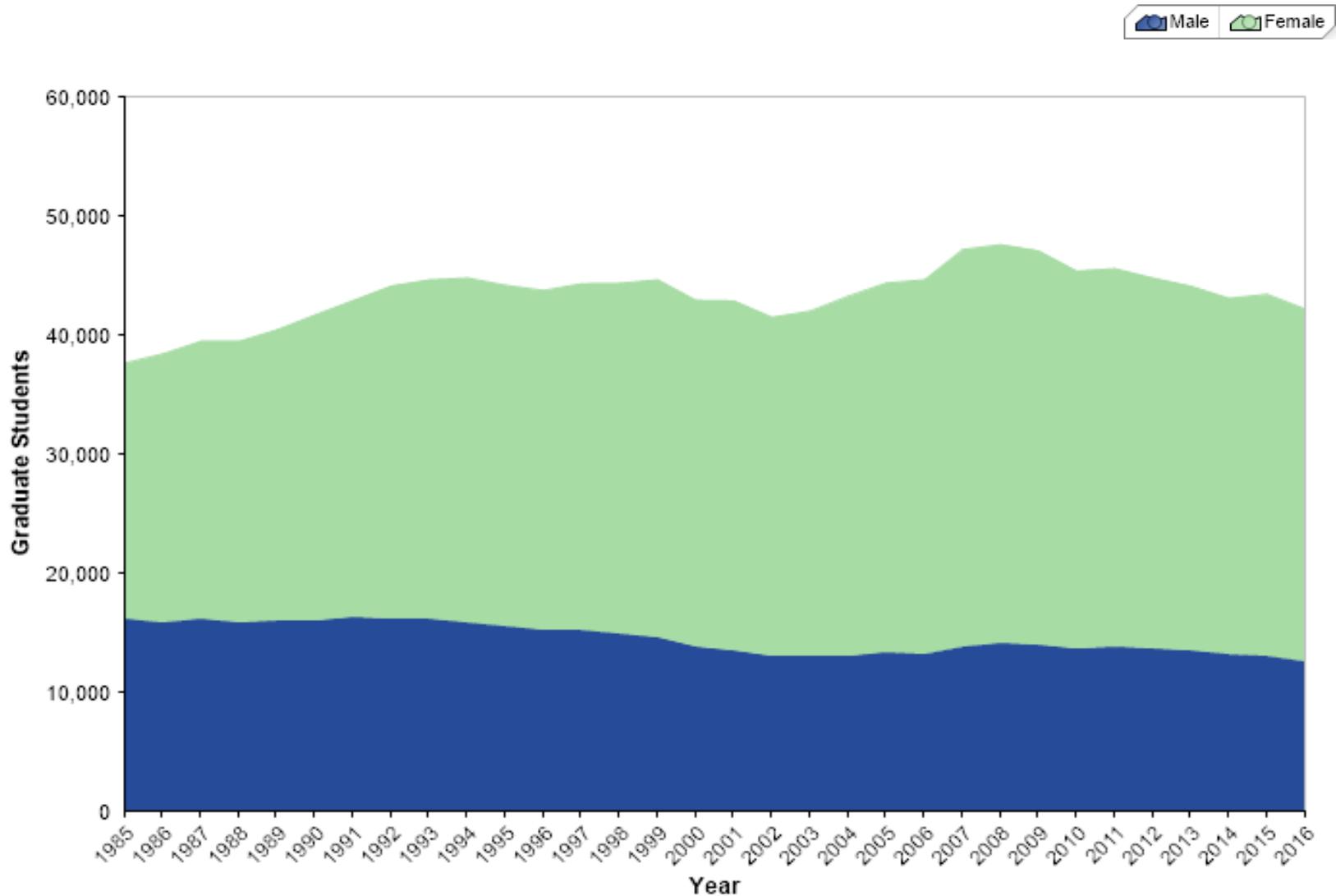
Male Female



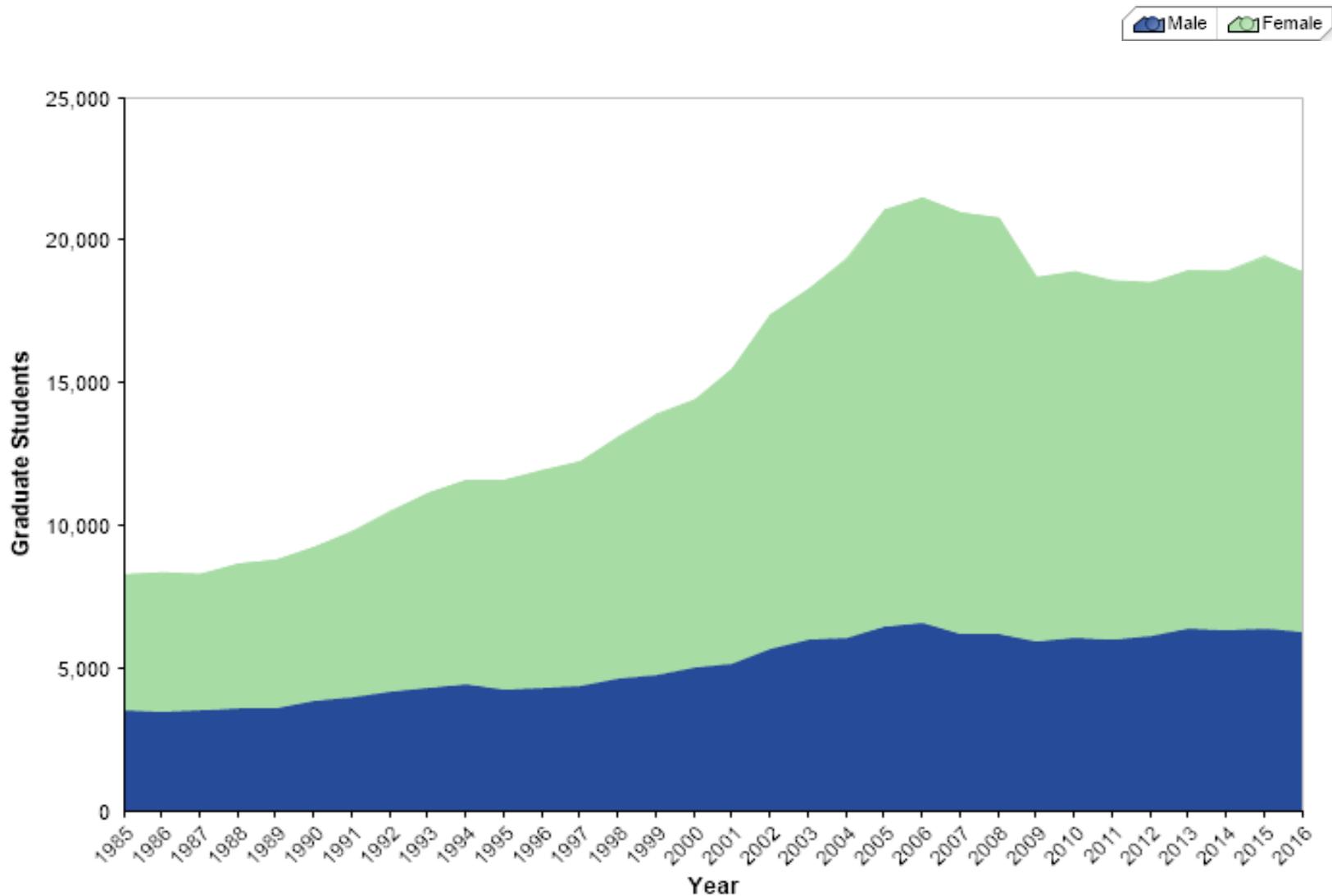
# Graduate enrollment in the biomedical sciences, by gender



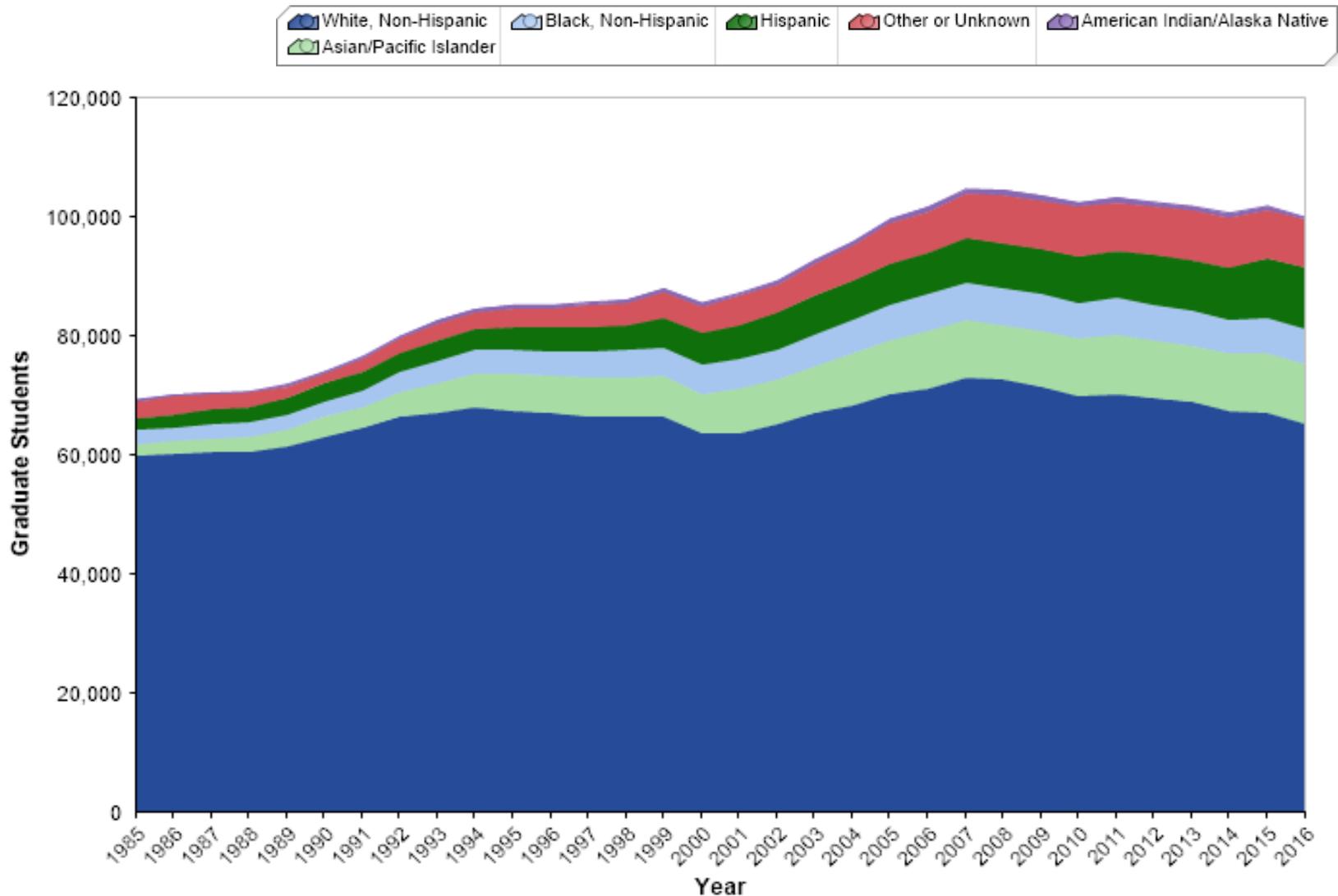
# Graduate enrollment in the behavioral and social sciences, by gender



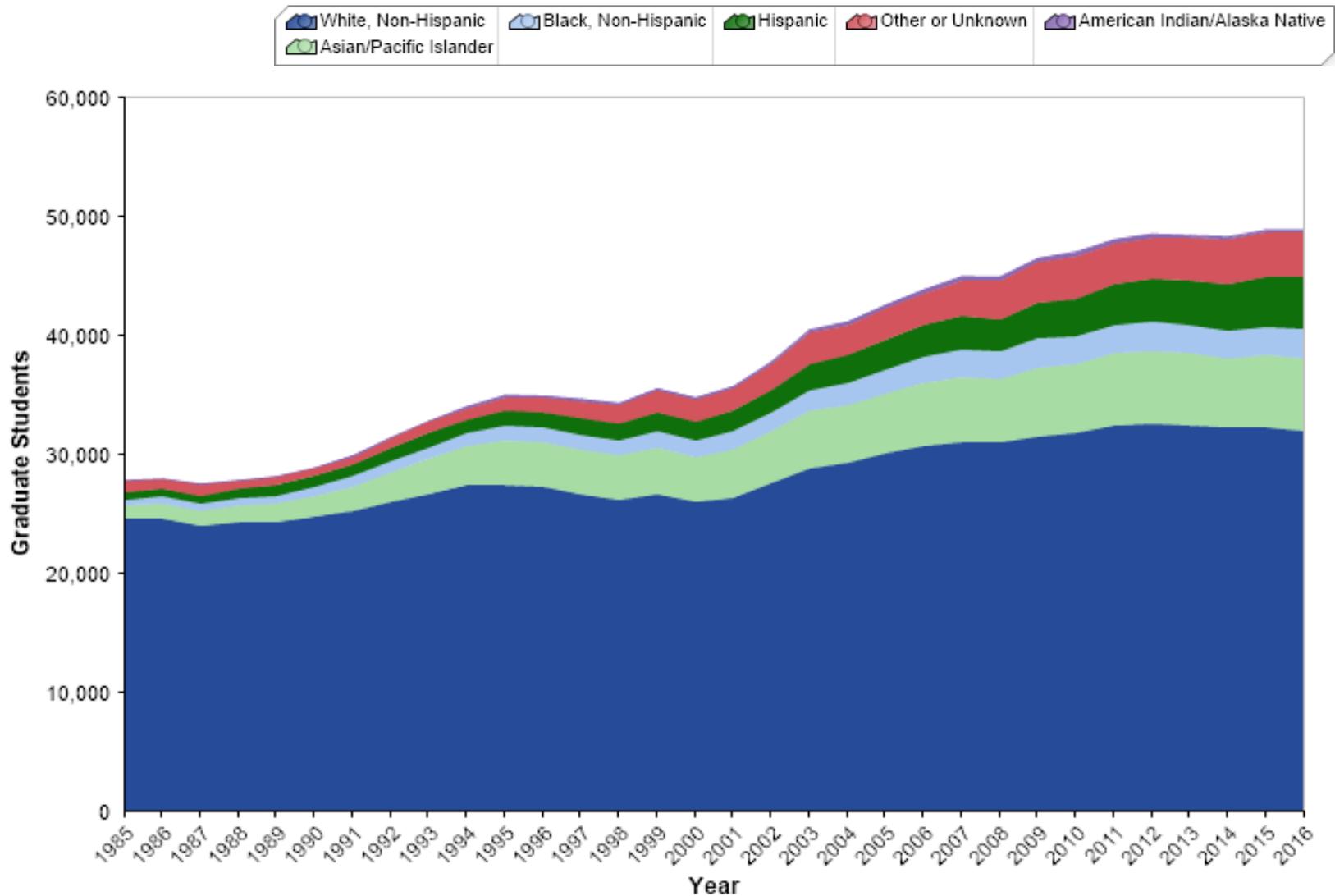
# Graduate enrollment in the clinical sciences, by gender



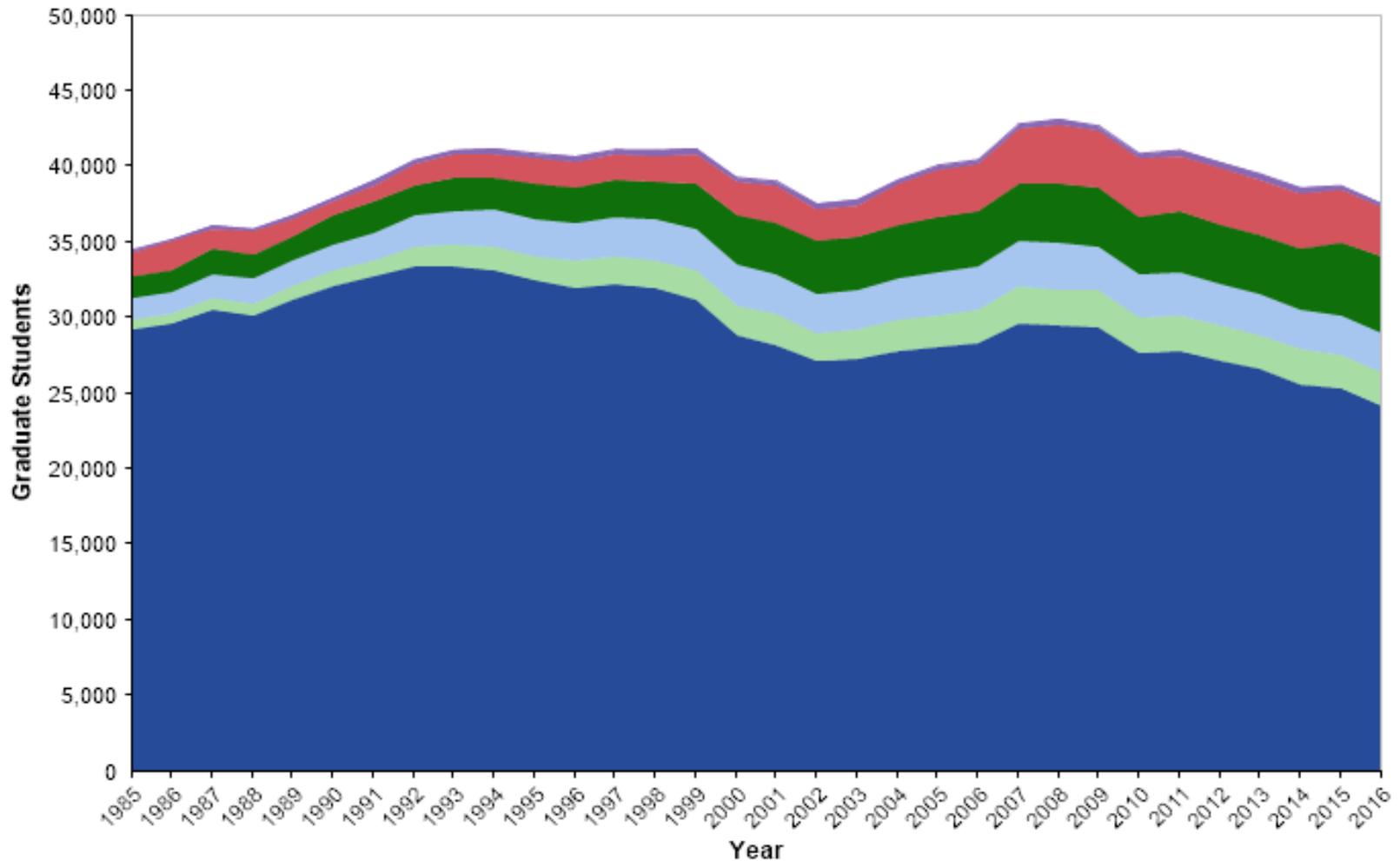
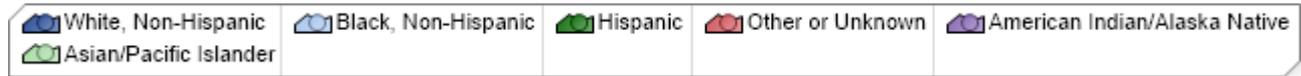
# Graduate enrollment among U.S. citizens and permanent residents, by race/ethnicity



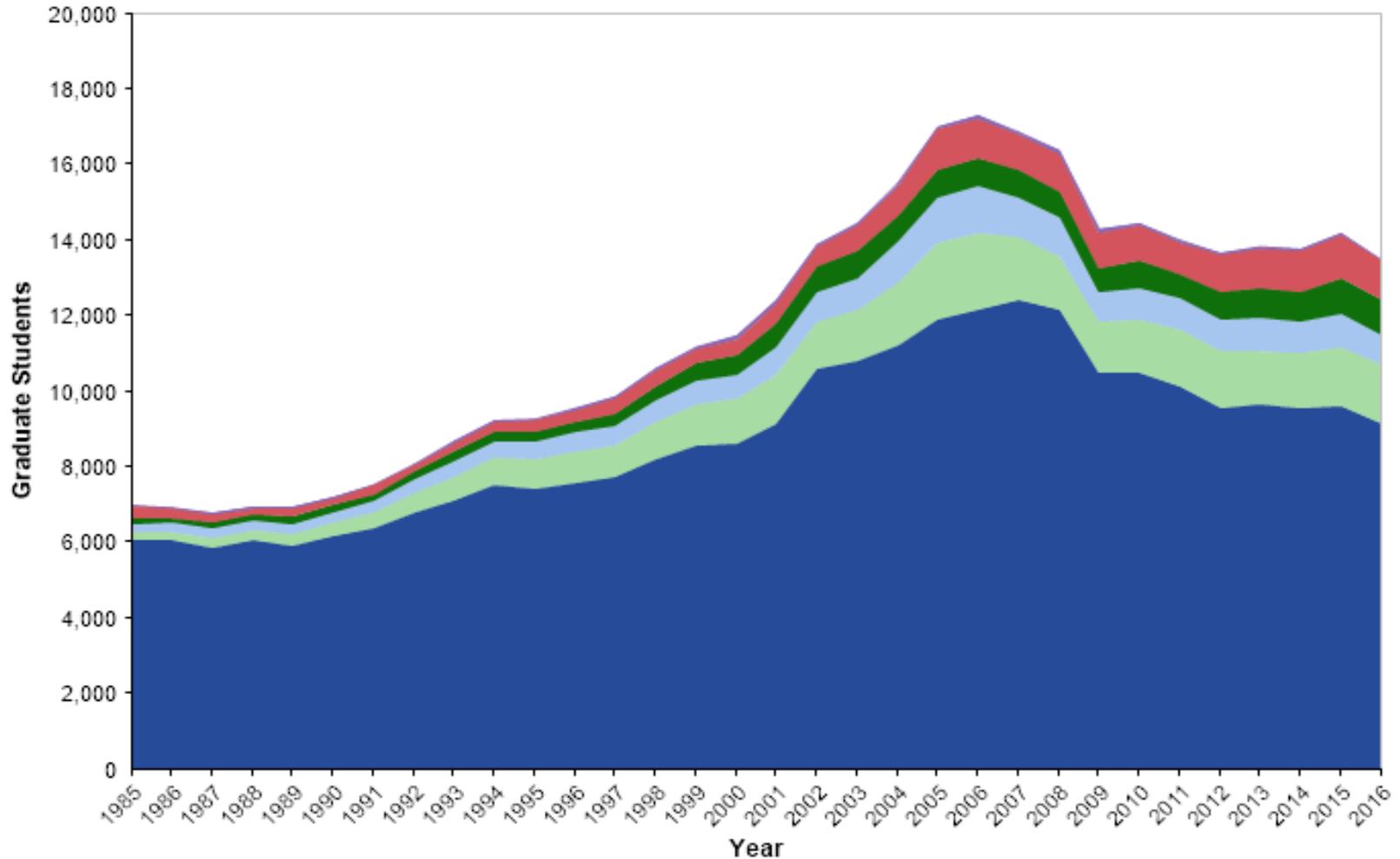
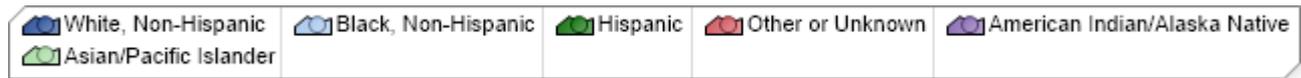
# Graduate enrollment in the biomedical sciences among U.S. citizens and permanent residents, by race/ethnicity



# Graduate enrollment in the behavioral and social sciences among U.S. citizens and permanent residents, by race/ethnicity

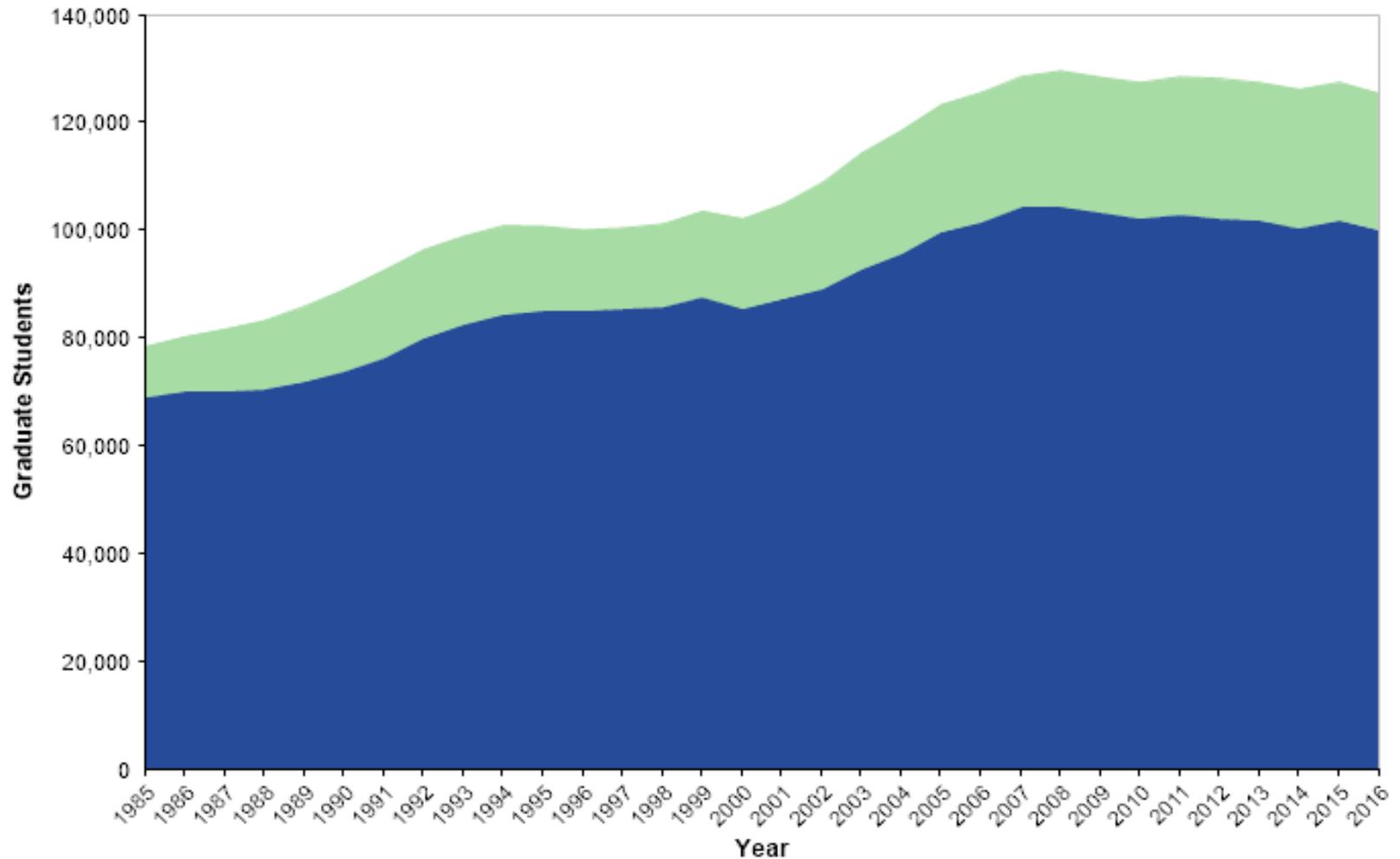


## Graduate enrollment in the clinical sciences among U.S. citizens and permanent residents, by race/ethnicity

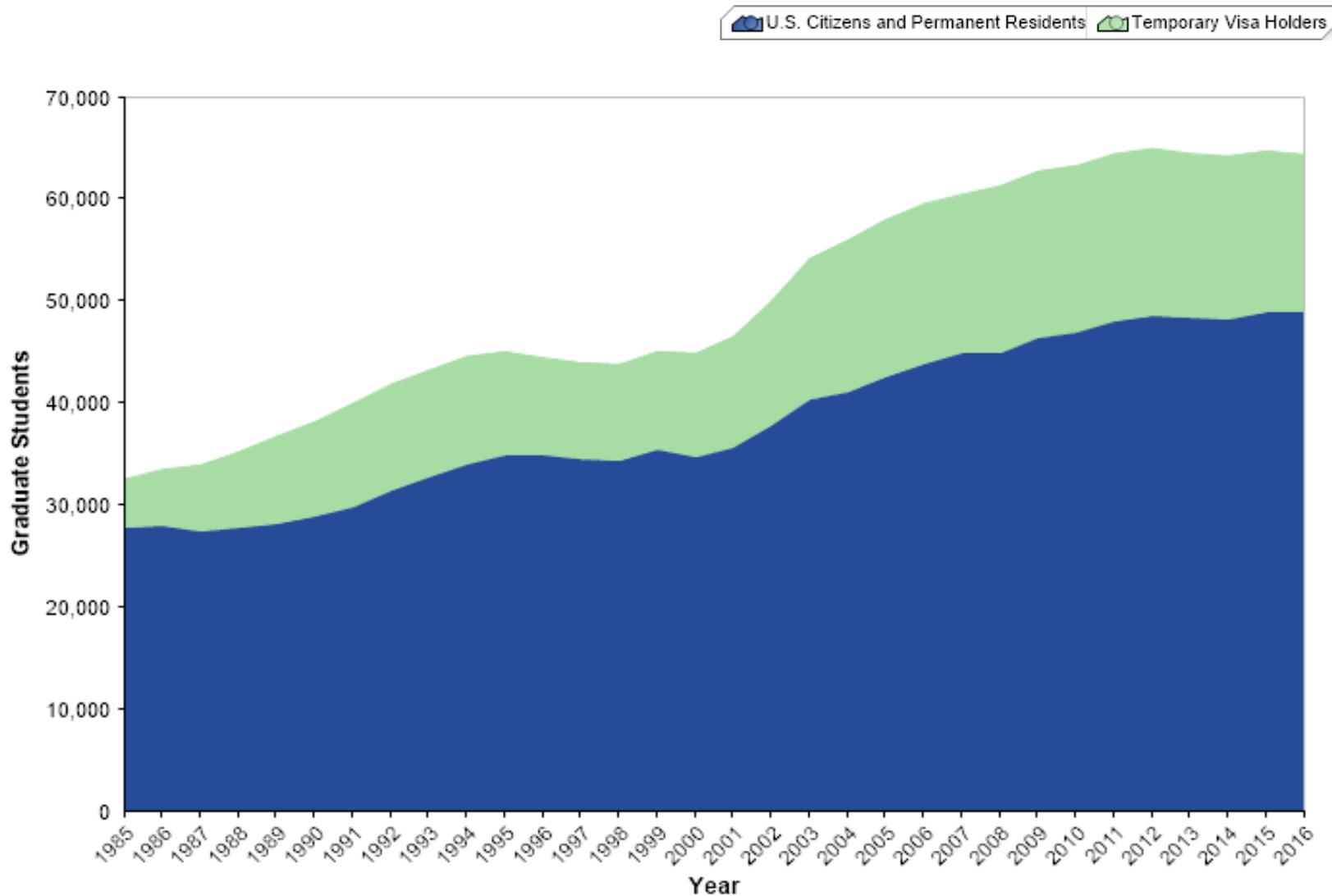


## Graduate enrollment, by citizenship

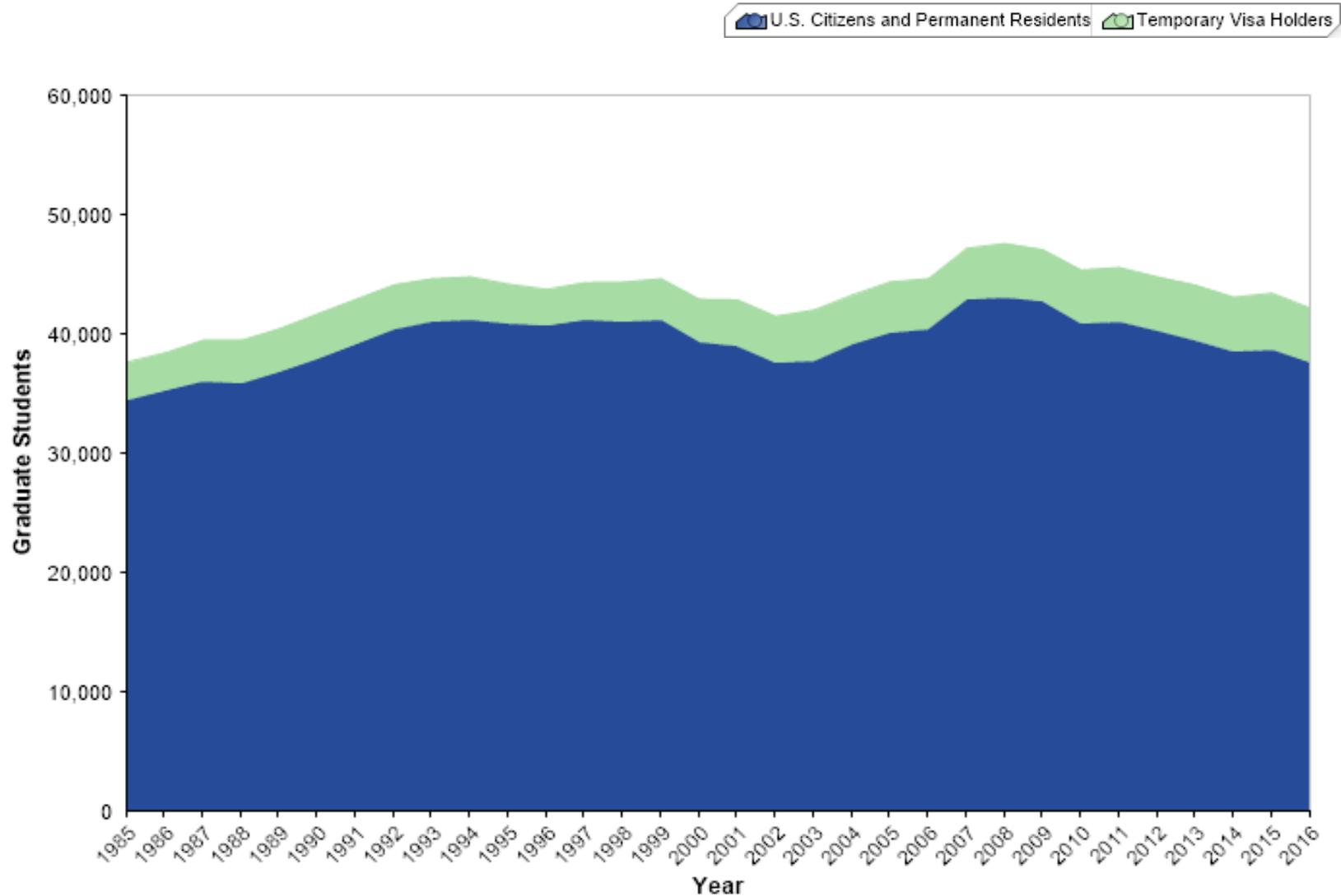
U.S. Citizens and Permanent Residents Temporary Visa Holders



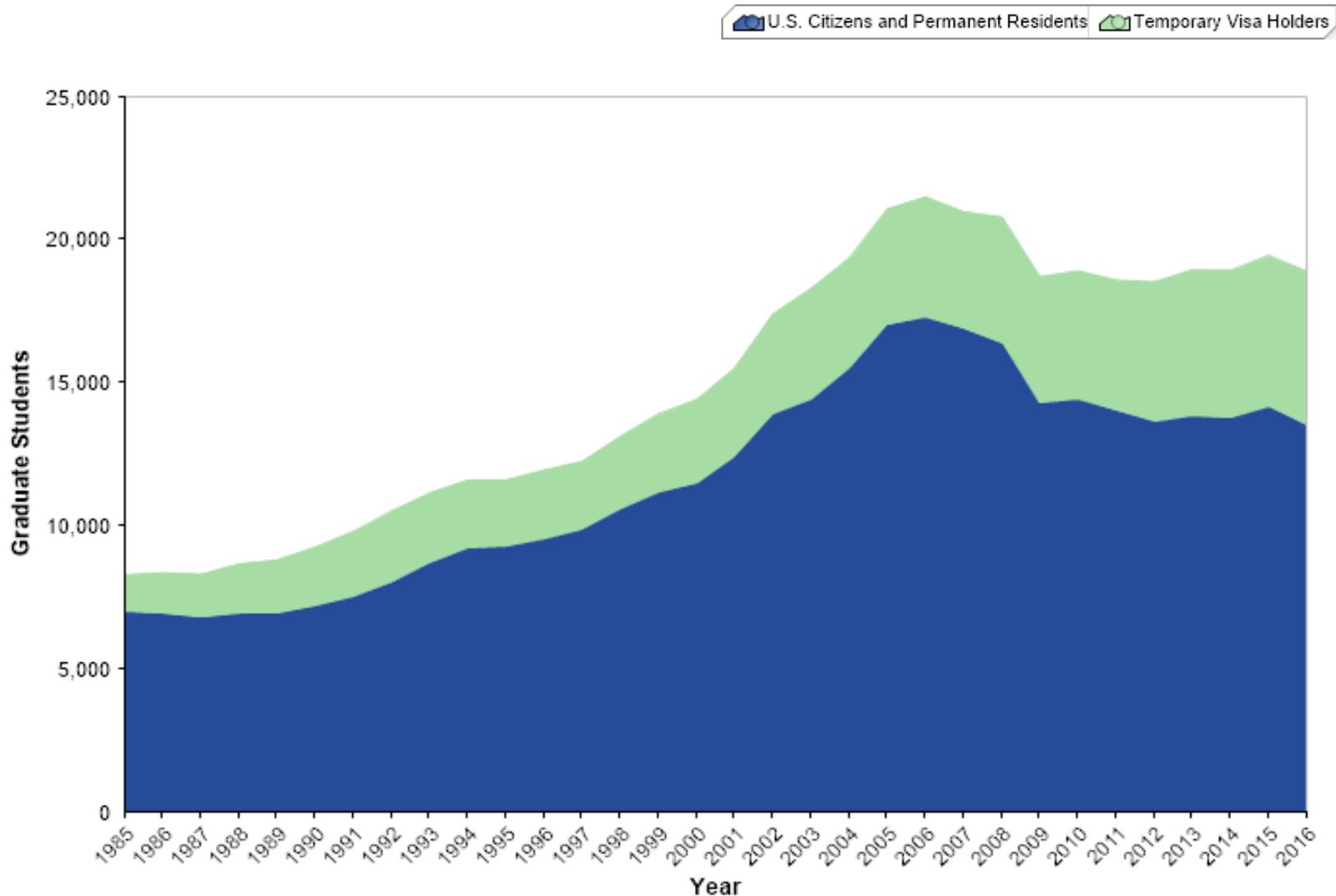
## Graduate enrollment in the biomedical sciences, by citizenship



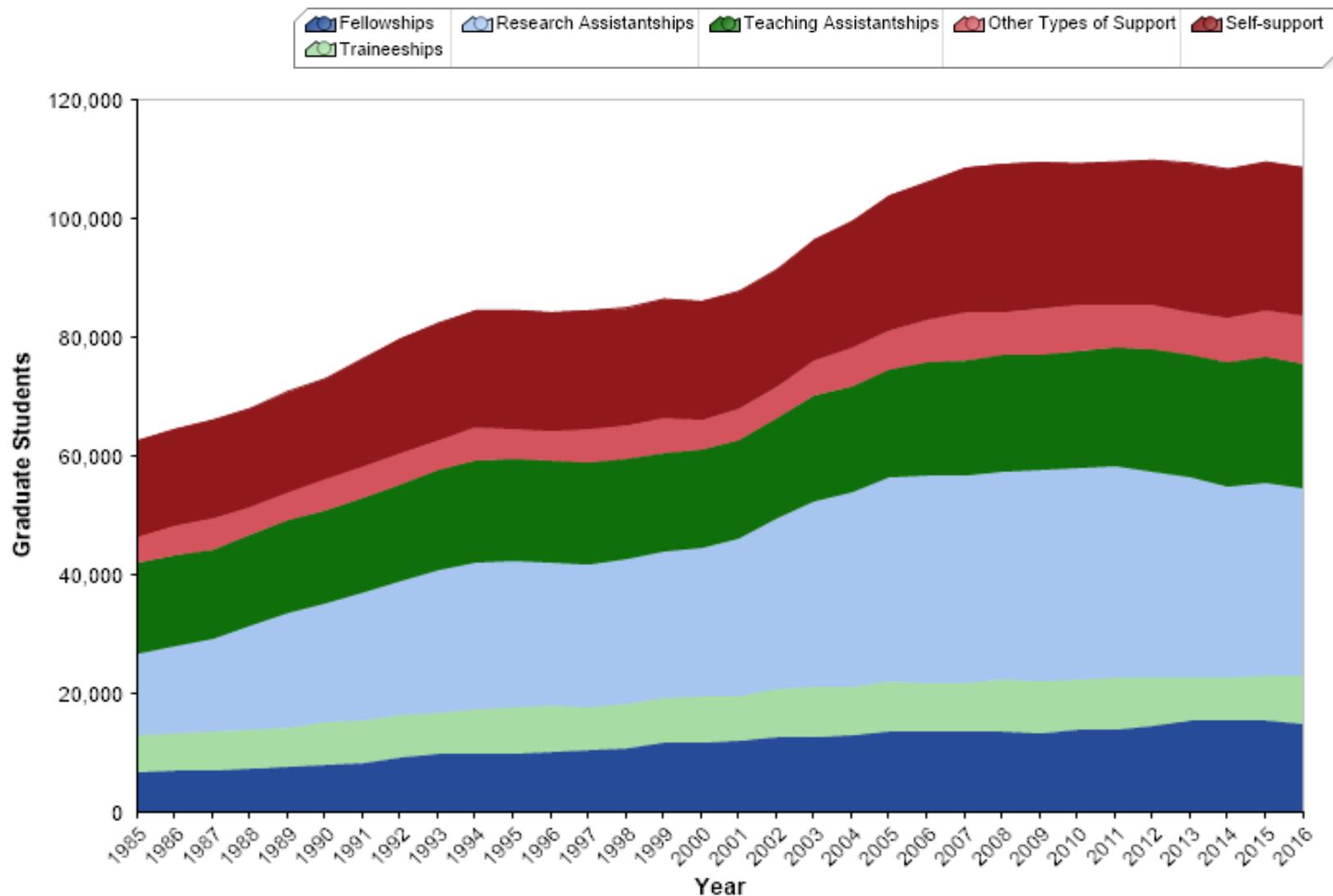
## Graduate enrollment in the behavioral and social sciences, by citizenship



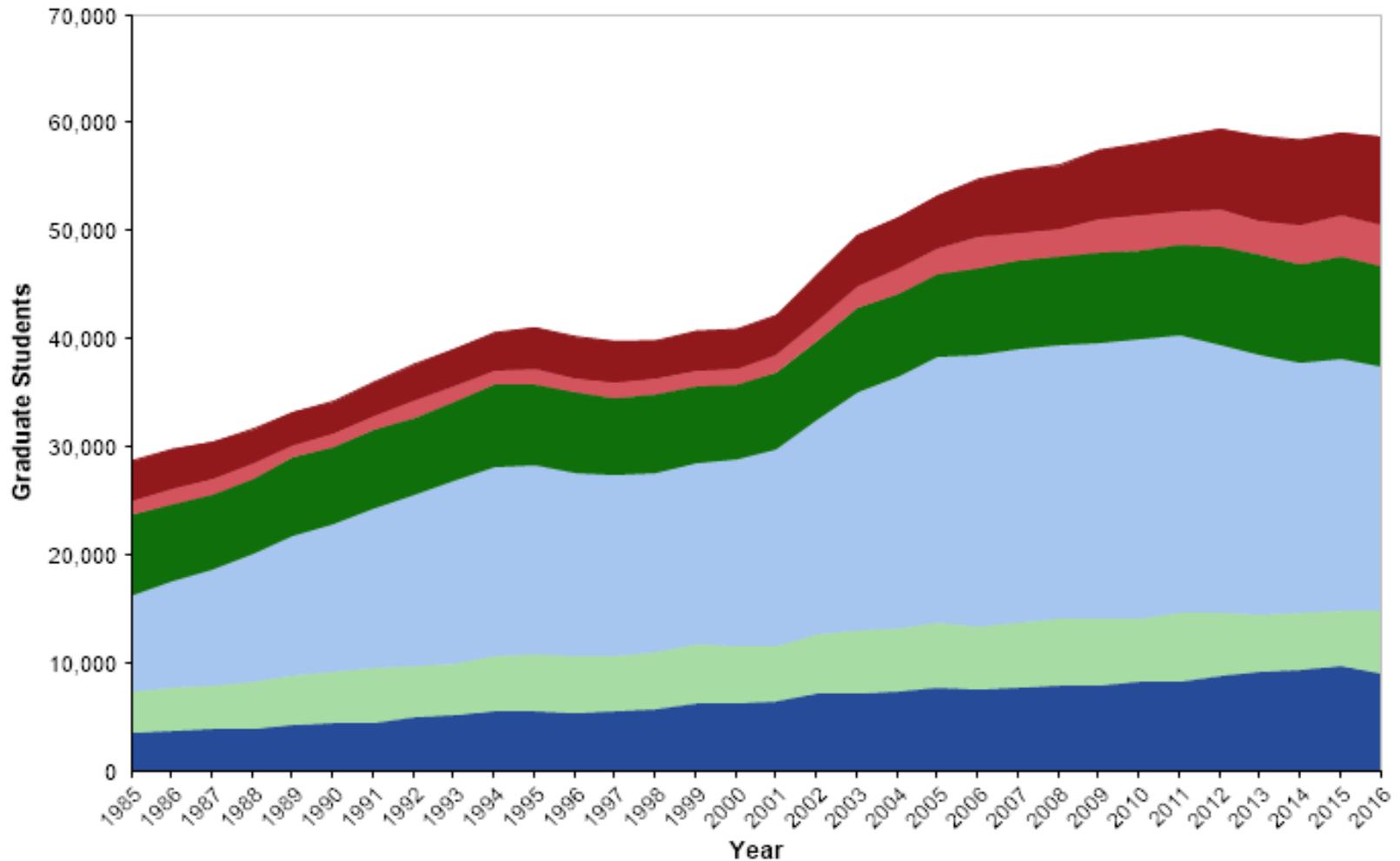
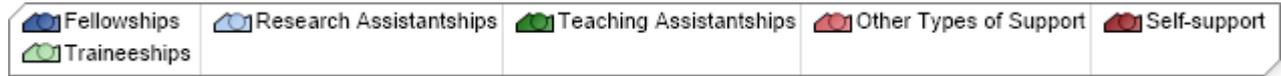
# Graduate enrollment in the clinical sciences, by citizenship



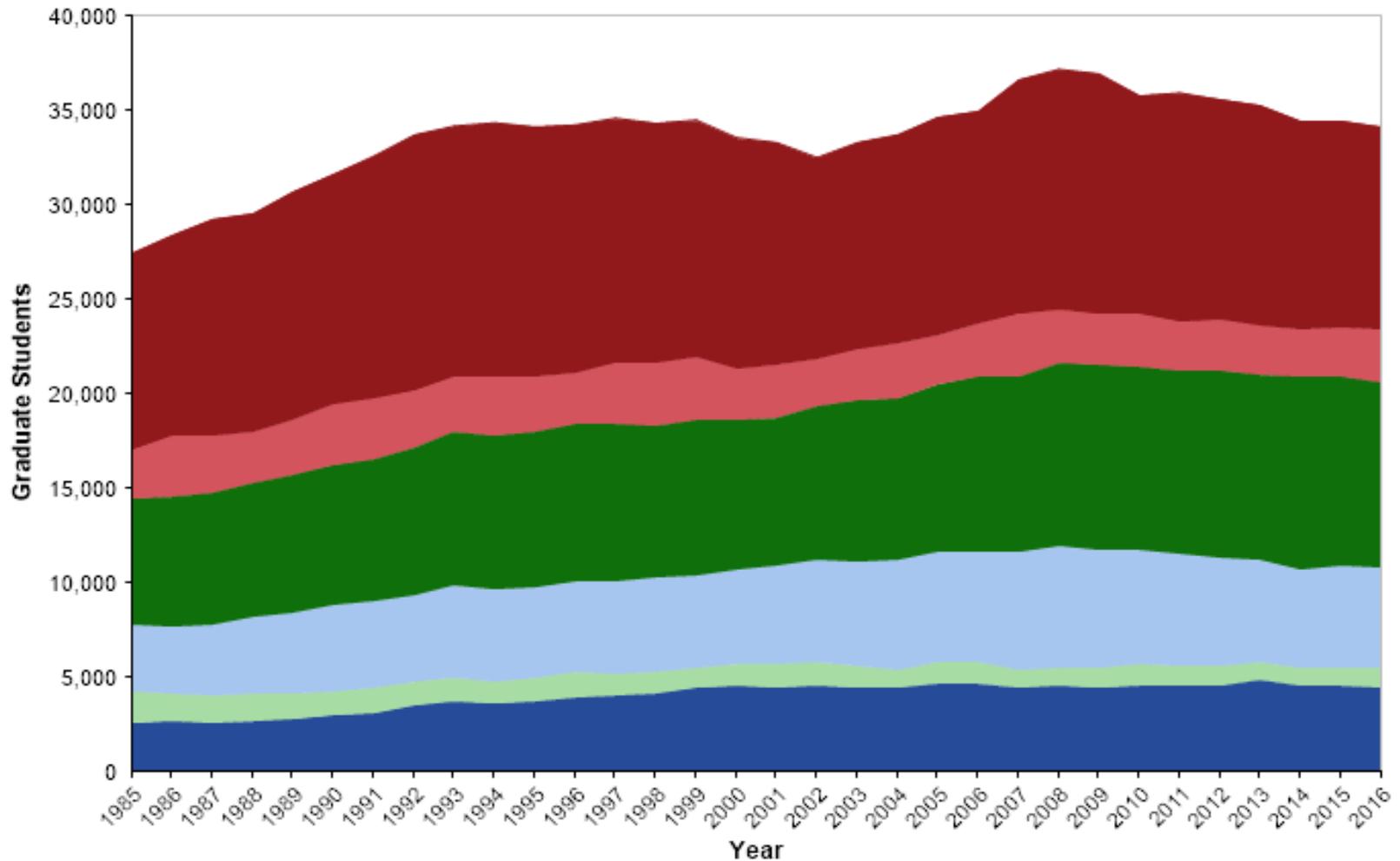
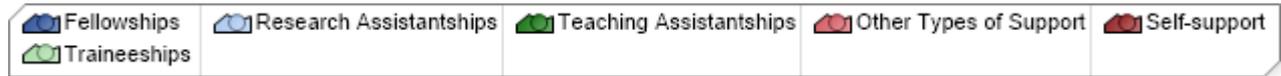
## Primary mechanisms of graduate support



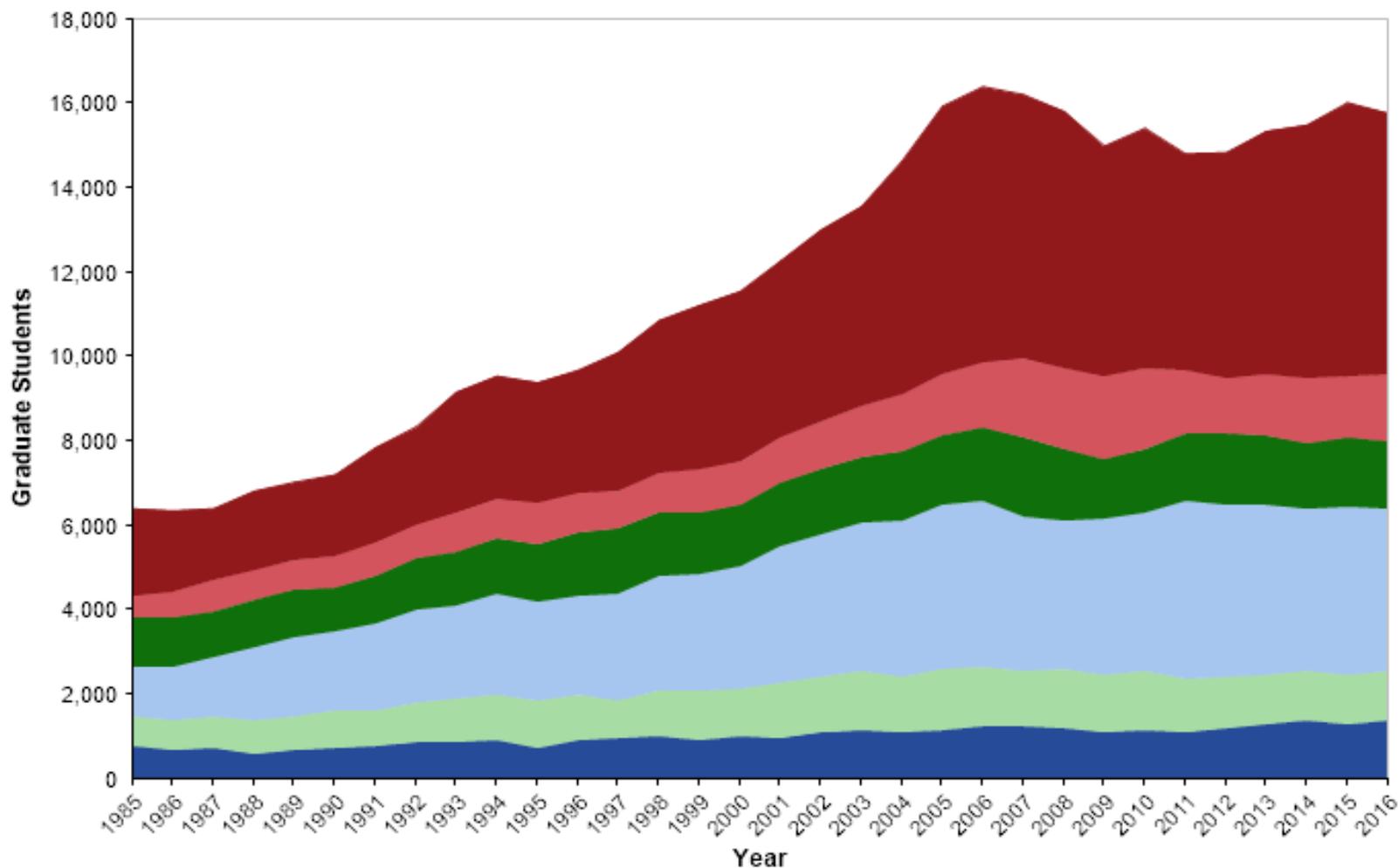
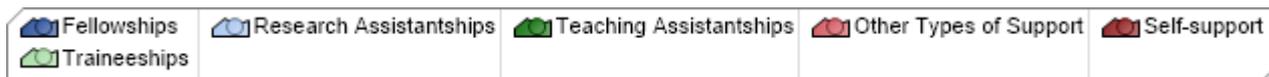
# Primary mechanisms of graduate support in the biomedical sciences



# Primary mechanisms of graduate support in the behavioral and social sciences

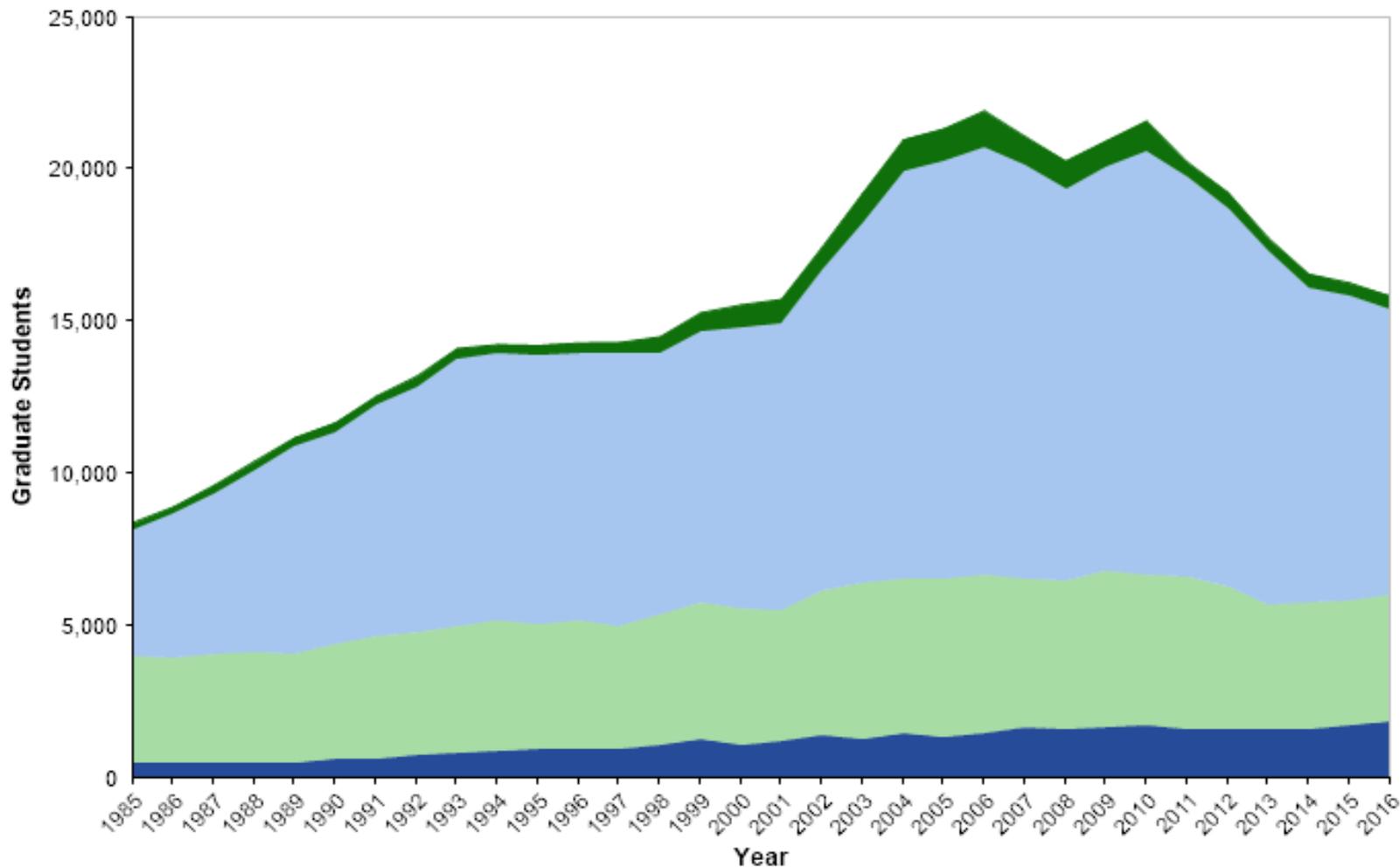


## Primary mechanisms of graduate support in the clinical sciences

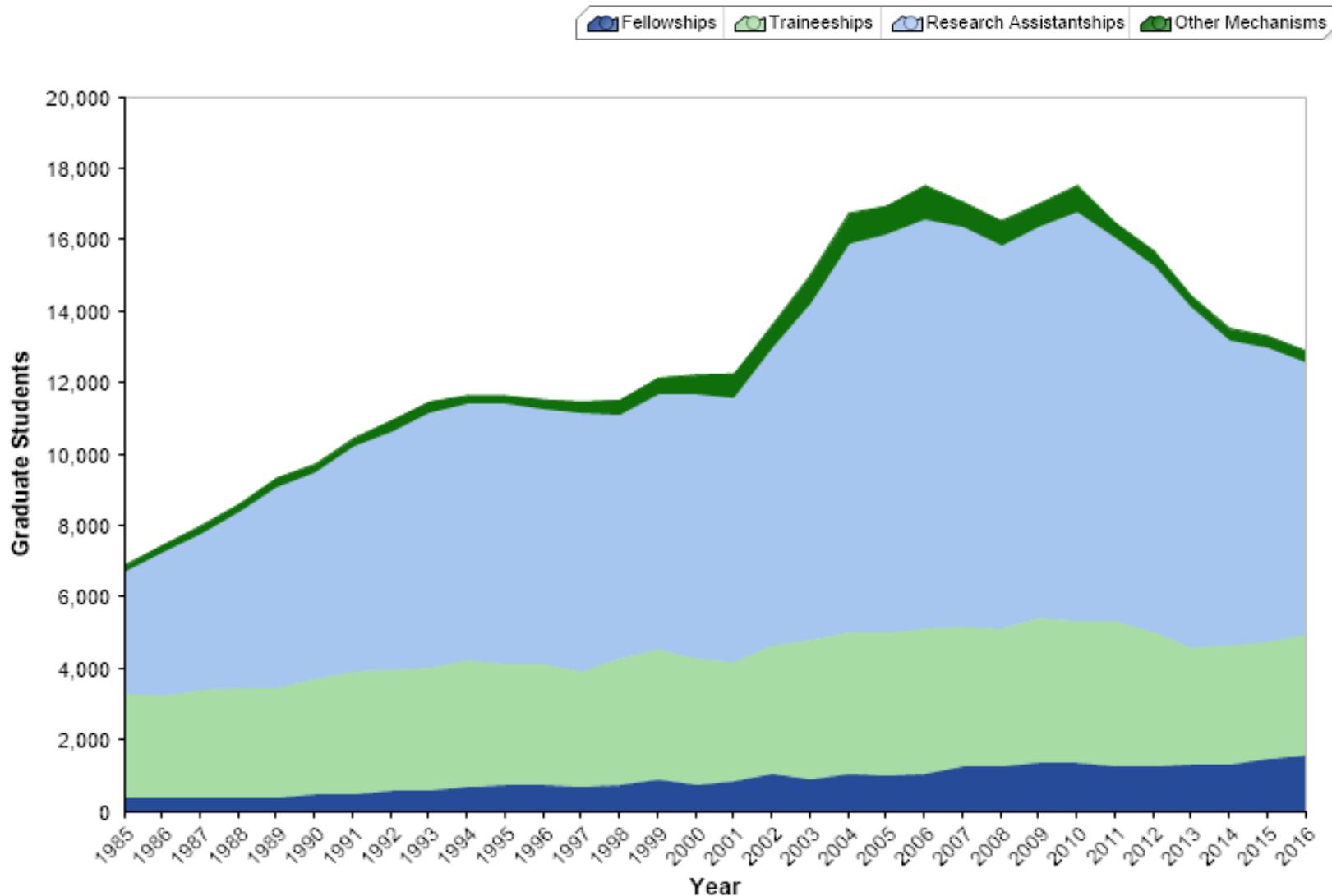


# Primary mechanisms of National Institutes of Health (NIH) support for full-time graduate students

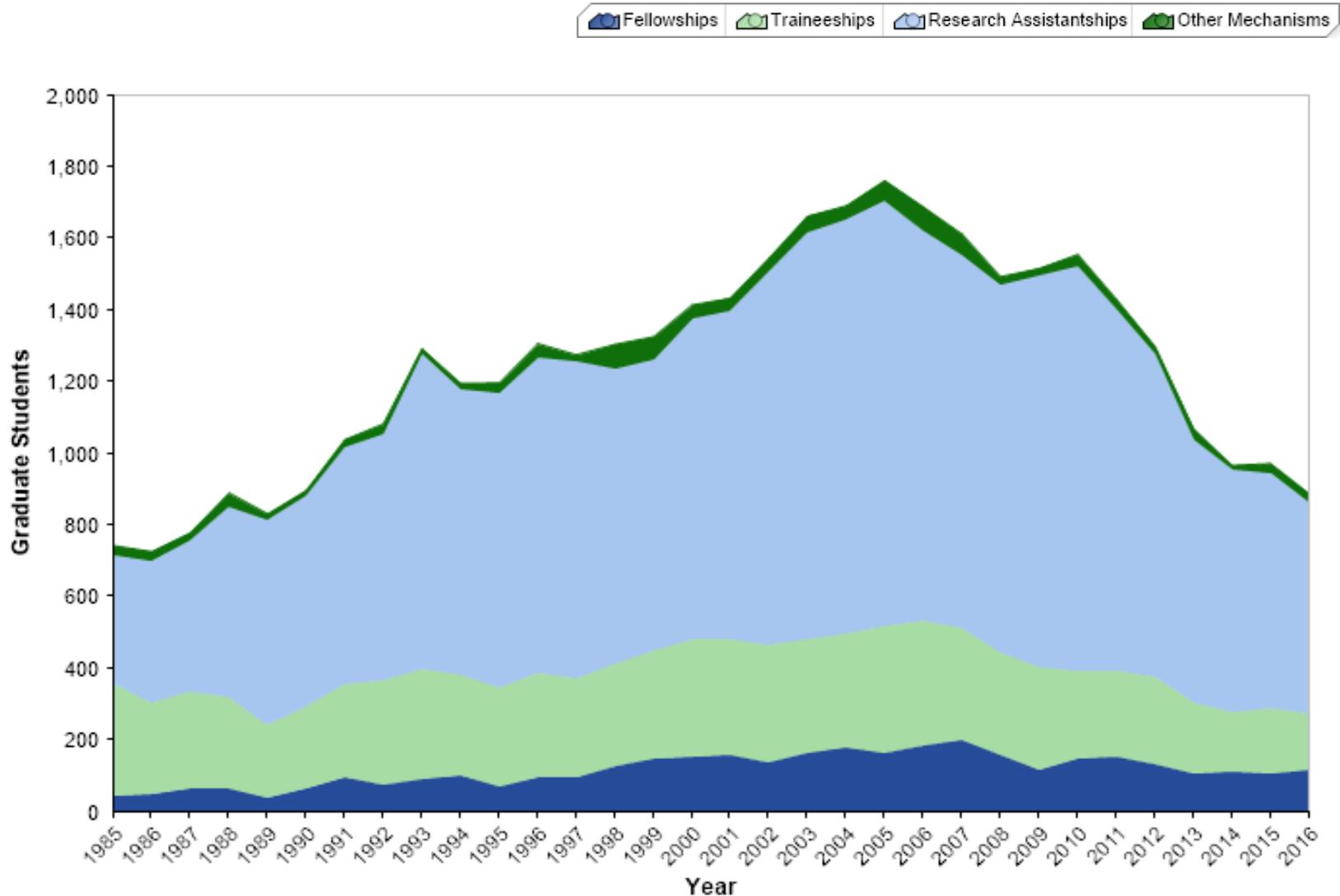
Fellowships    Traineeships    Research Assistantships    Other Mechanisms



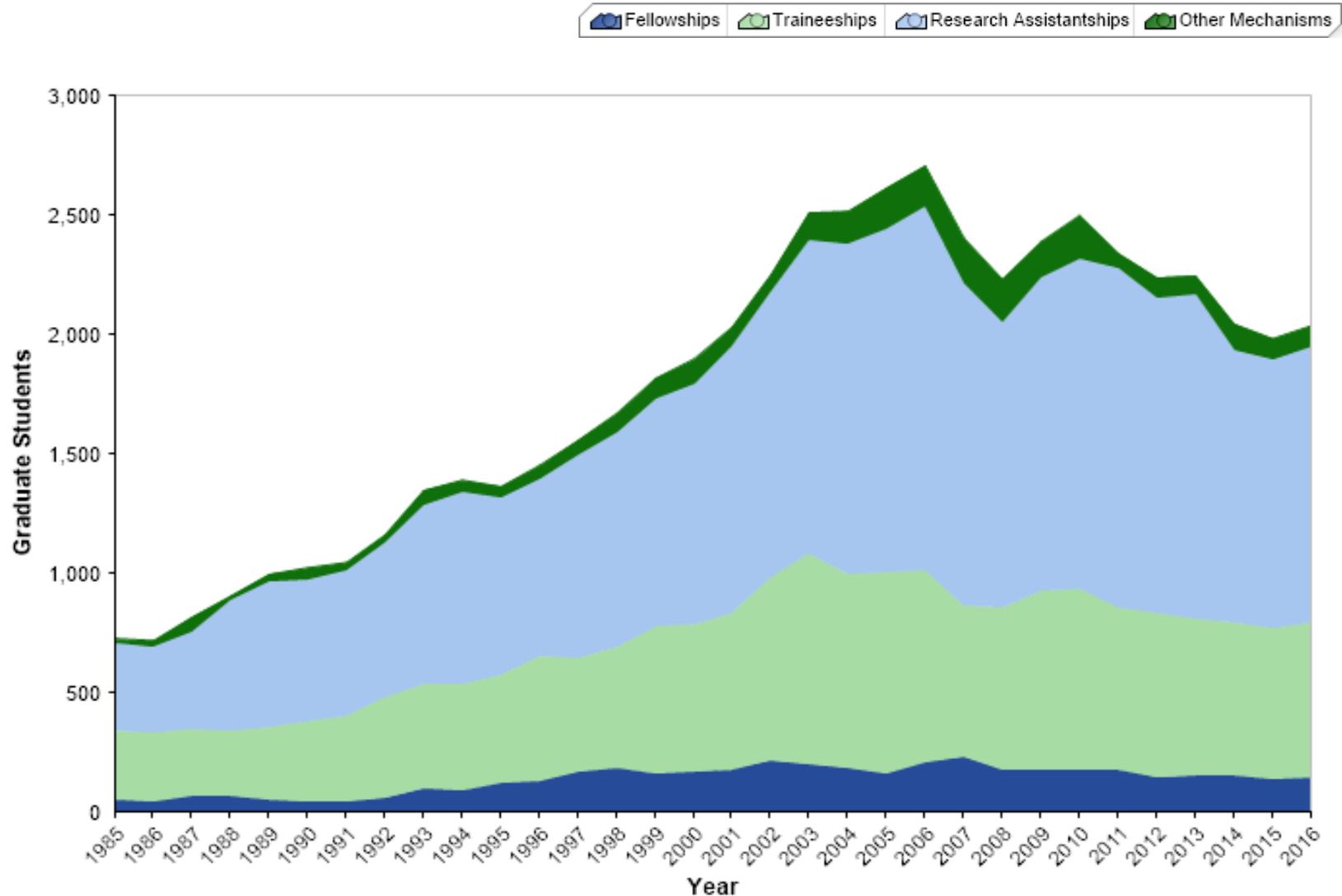
## Primary mechanisms of National Institutes of Health support for full-time graduate students in the biomedical sciences



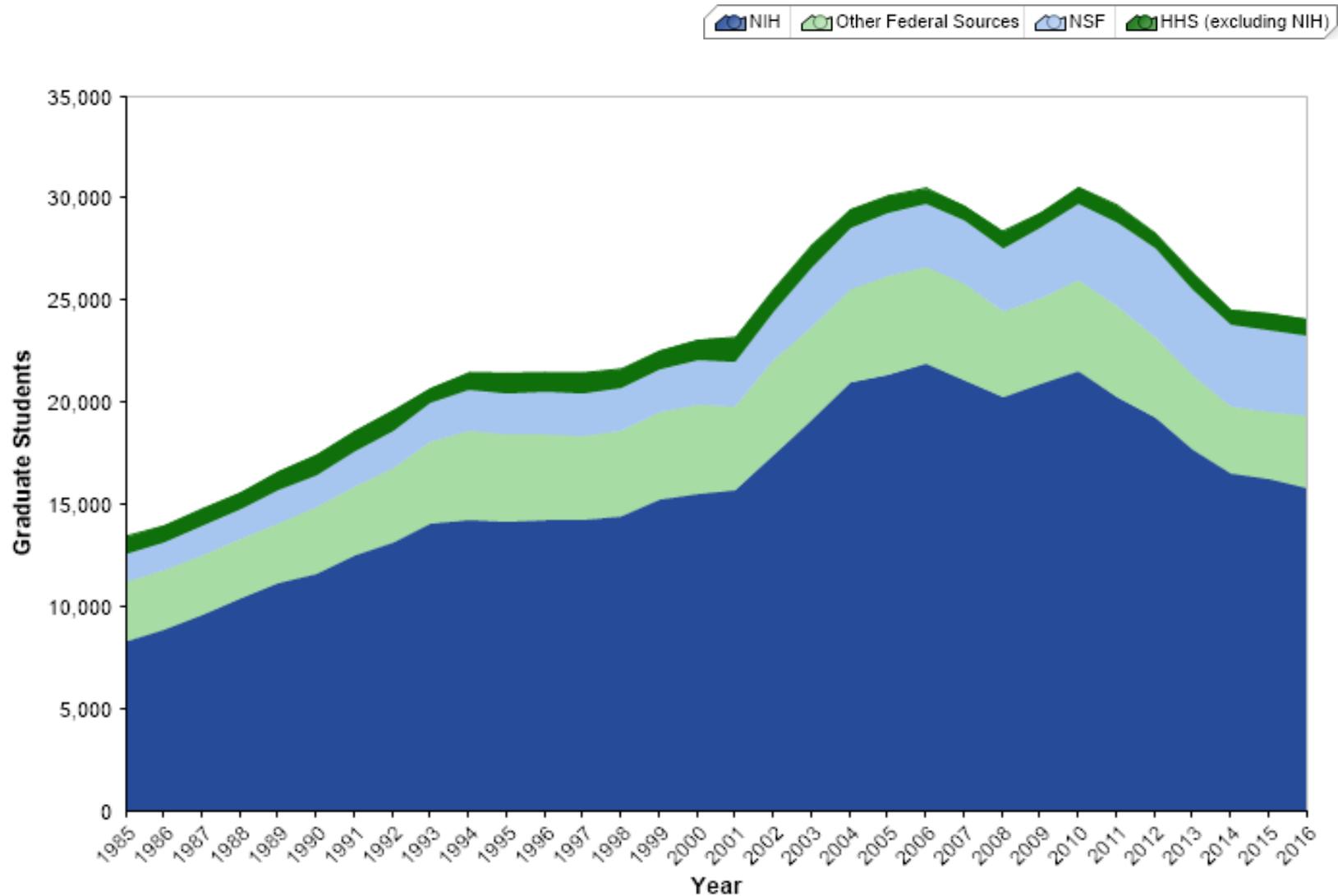
# Primary mechanisms of National Institutes of Health support for full-time graduate students in the behavioral and social sciences



# Primary mechanisms of National Institutes of Health support for full-time graduate students in the clinical sciences

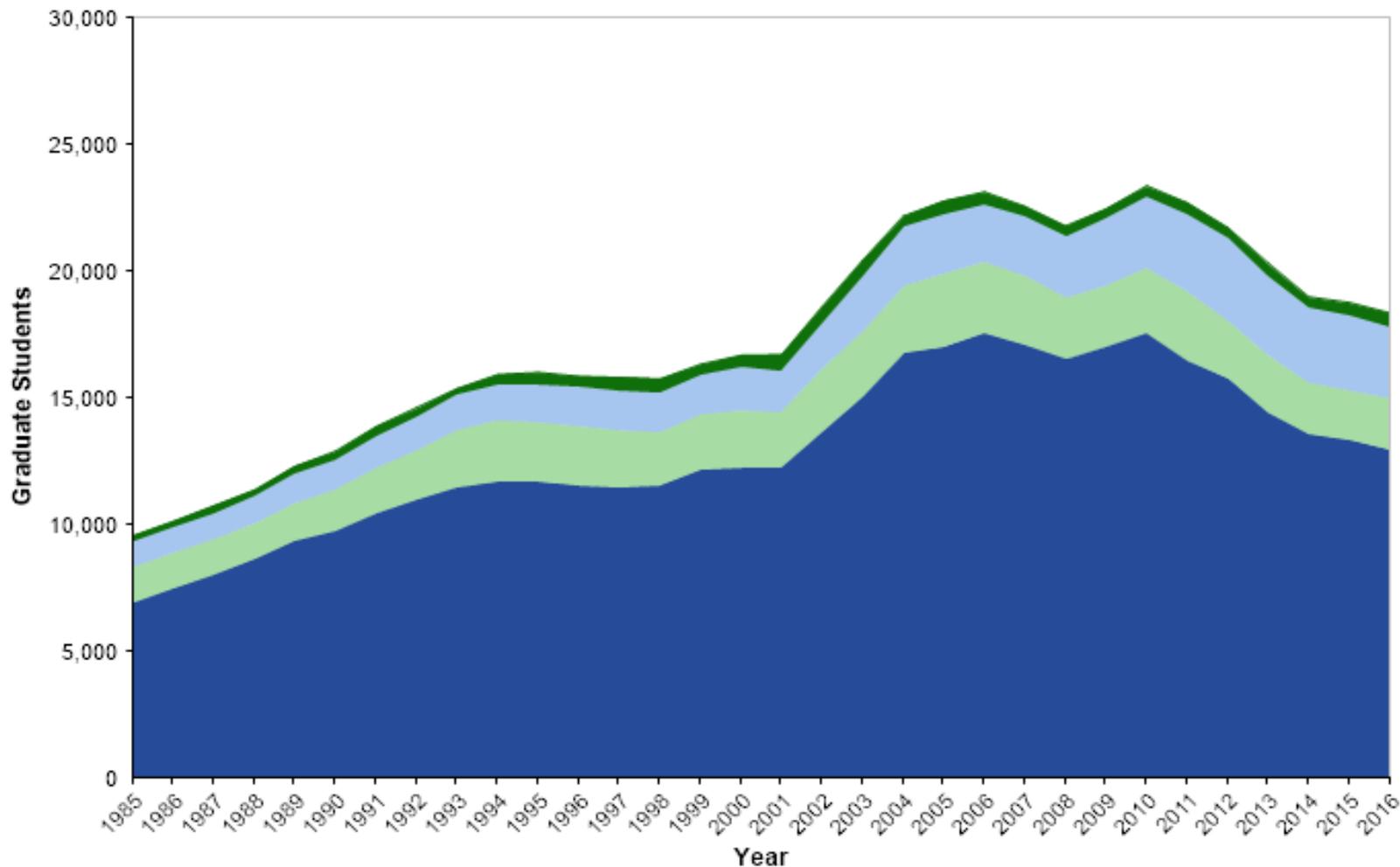


## Primary source of federal support for full-time graduate students



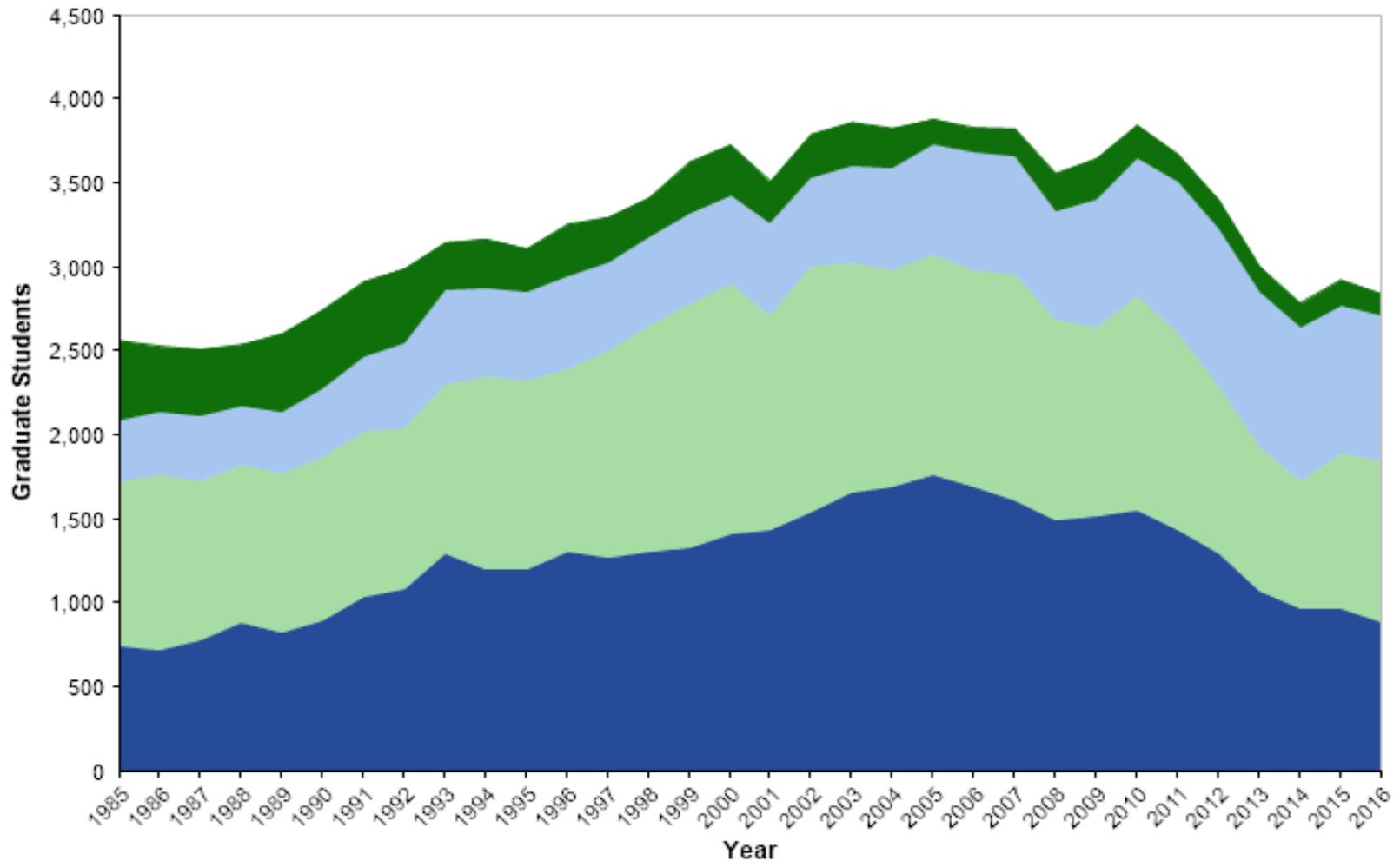
# Primary source of federal support for full-time graduate students in the biomedical sciences

NIH Other Federal Sources NSF HHS (excluding NIH)



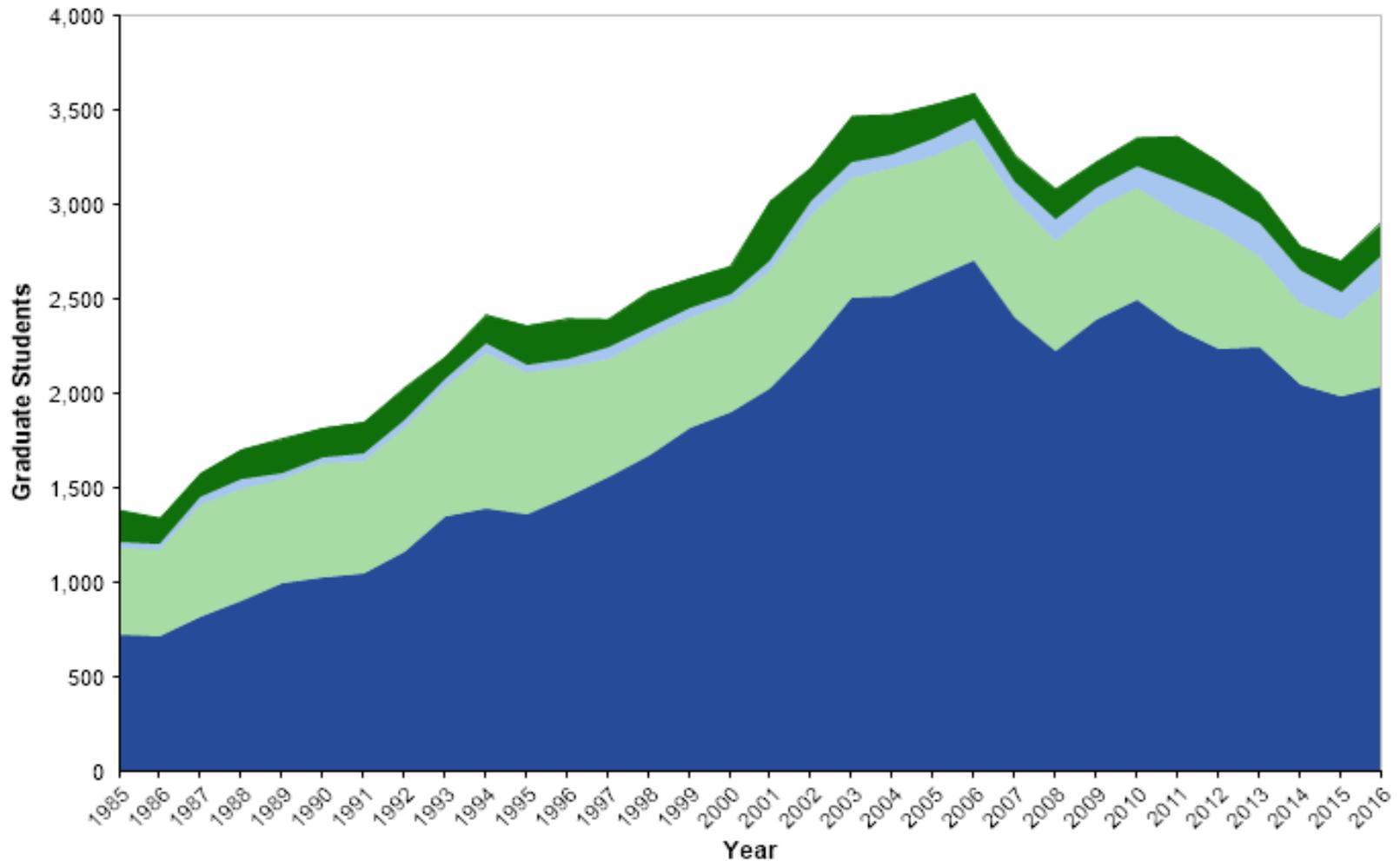
# Primary source of federal support for full-time graduate students in the behavioral and social sciences

NIH Other Federal Sources NSF HHS (excluding NIH)



# Primary source of federal support for full-time graduate students in the clinical sciences

NIH Other Federal Sources NSF HHS (excluding NIH)

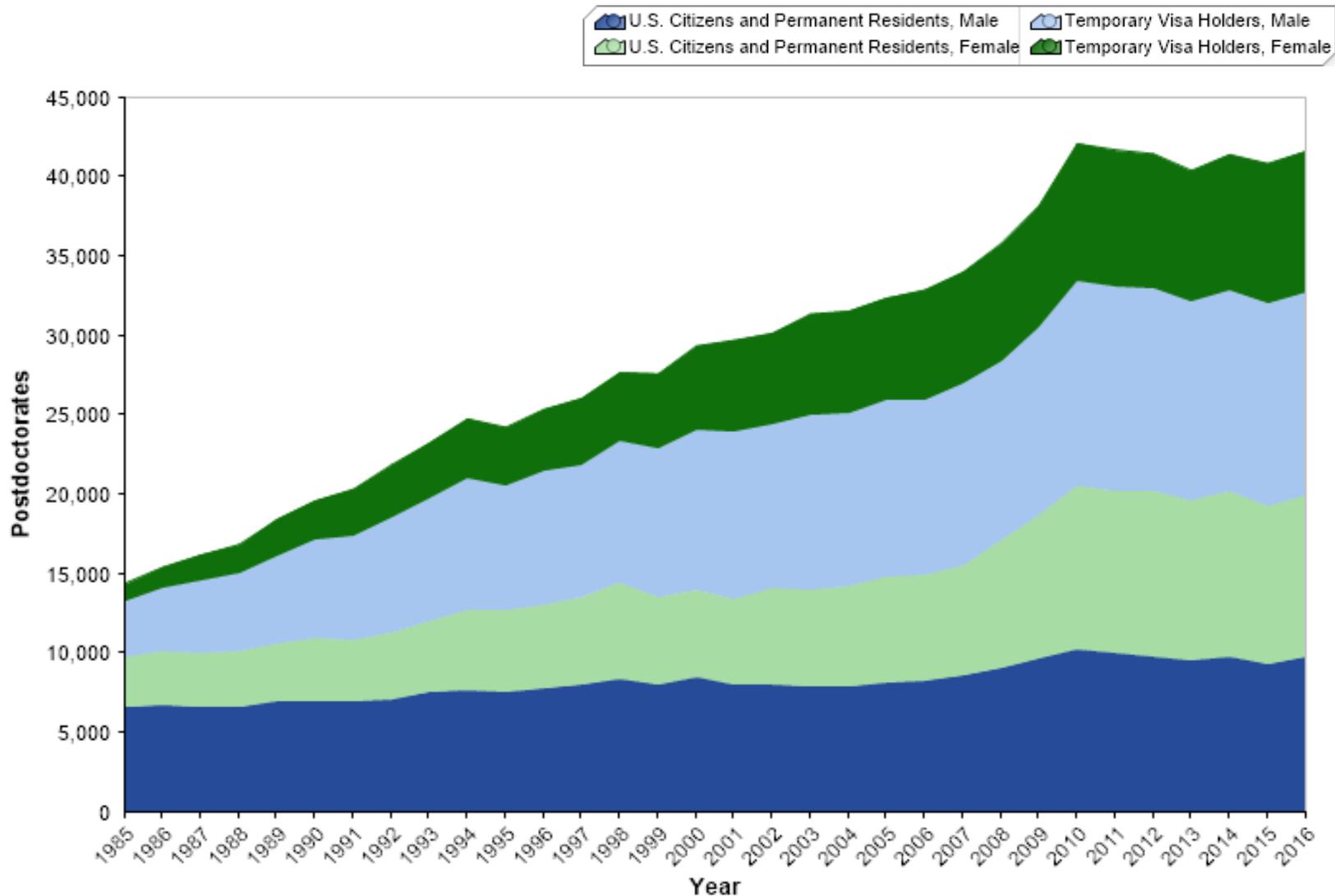




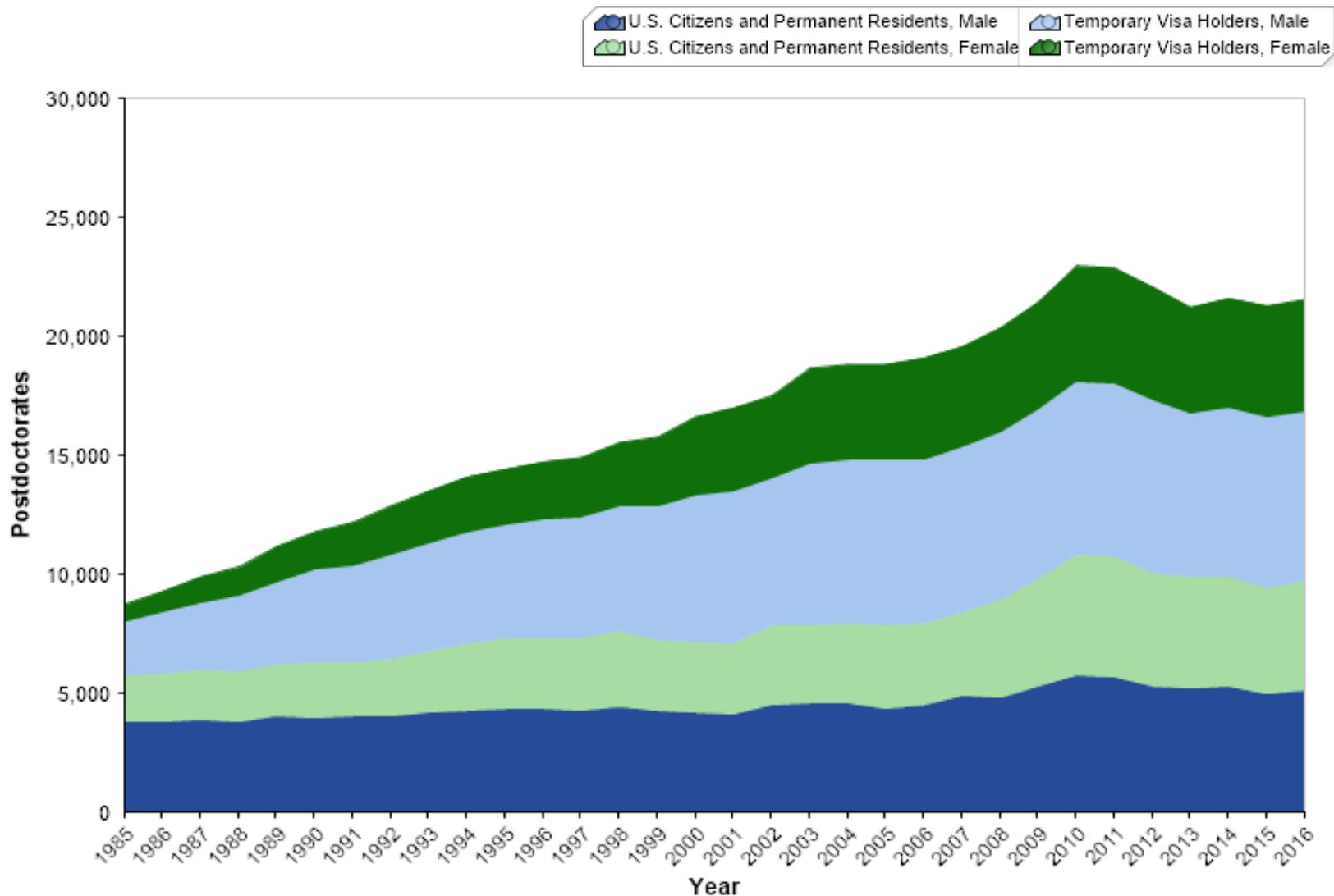
# NATIONAL STATISTICS ON POST-DOCTORAL APPOINTEES IN THE BIOMEDICAL, BEHAVIORAL, SOCIAL, AND CLINICAL SCIENCES



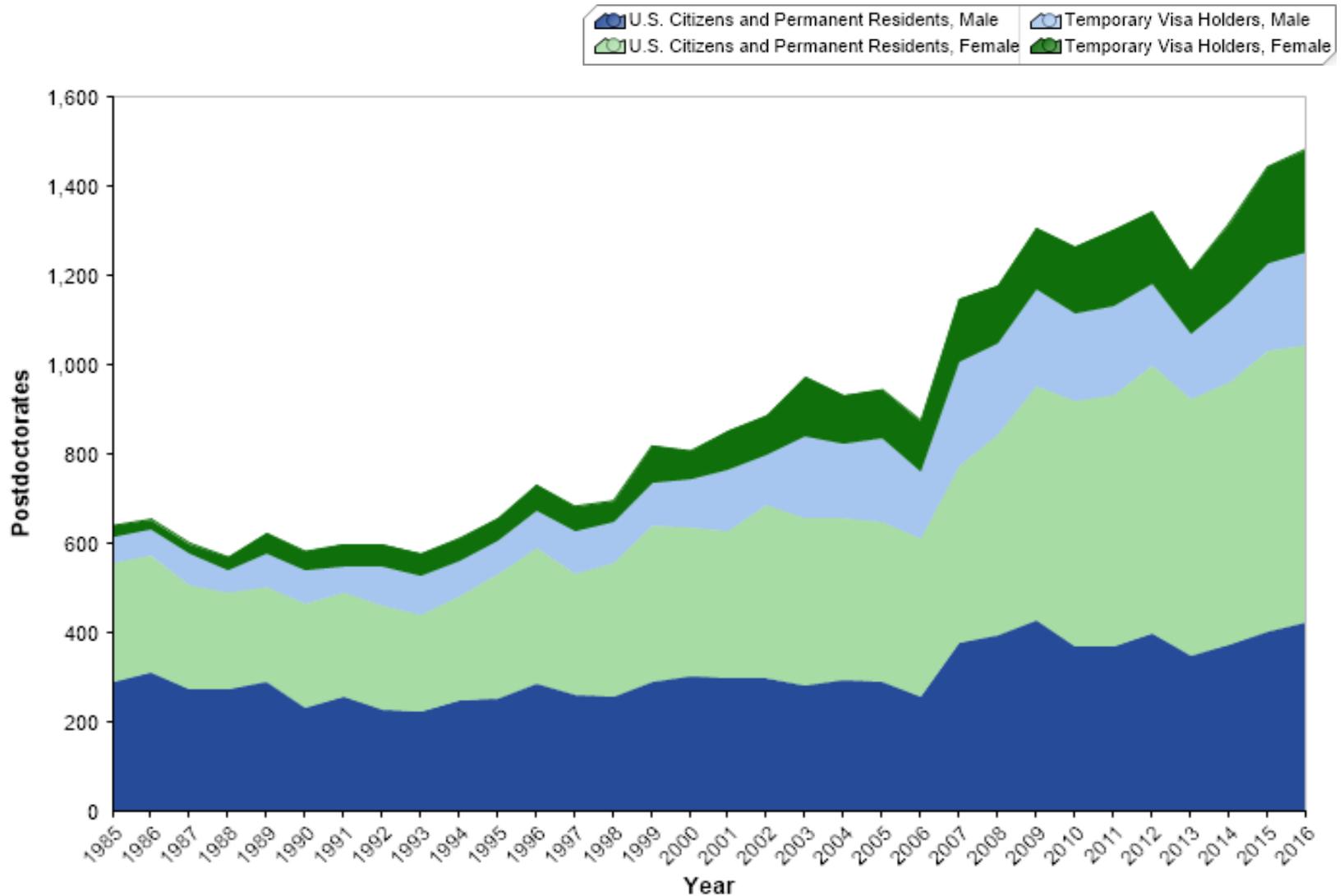
## Postdoctorates, by citizenship and gender



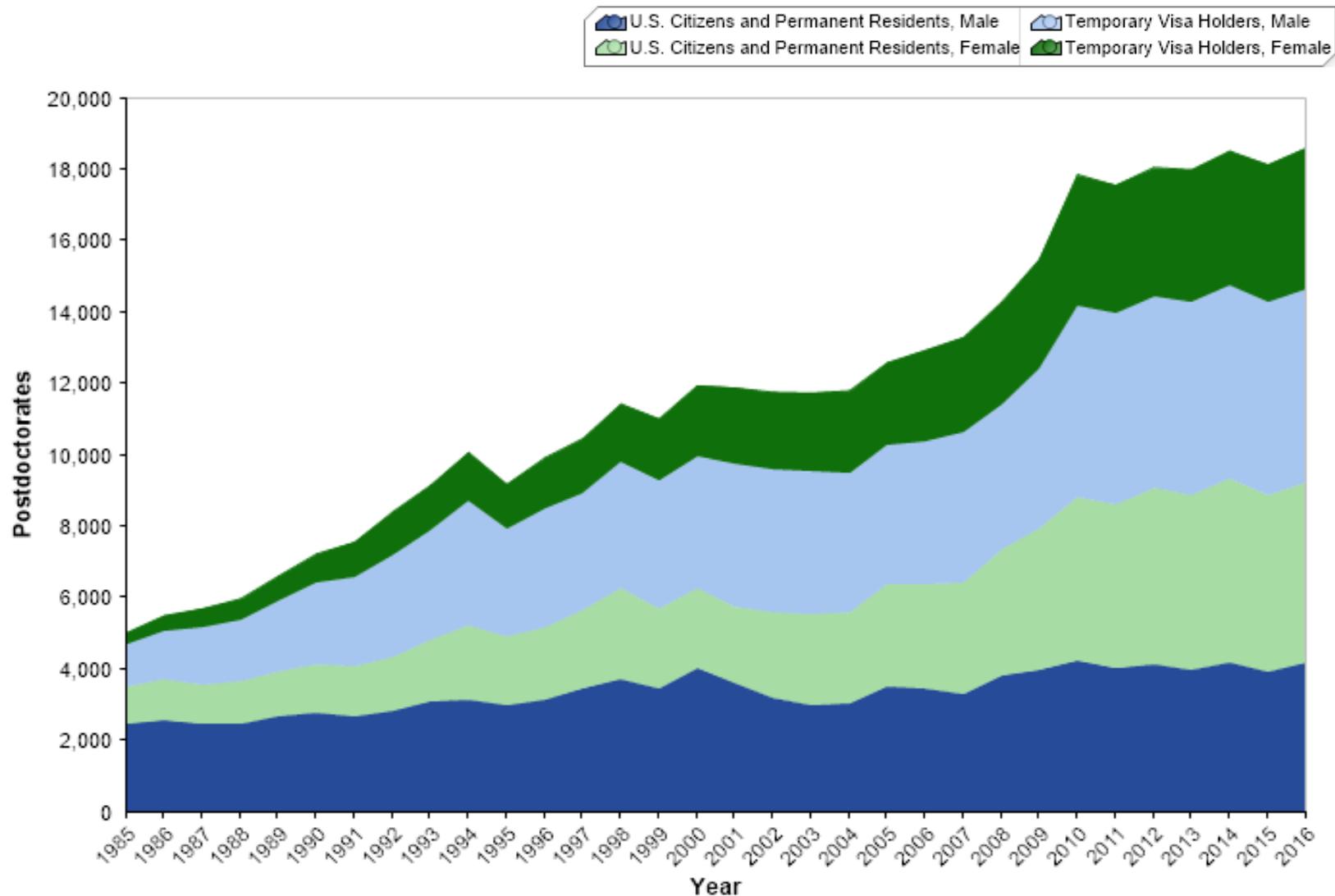
## Postdoctorates in the biomedical sciences, by citizenship and gender



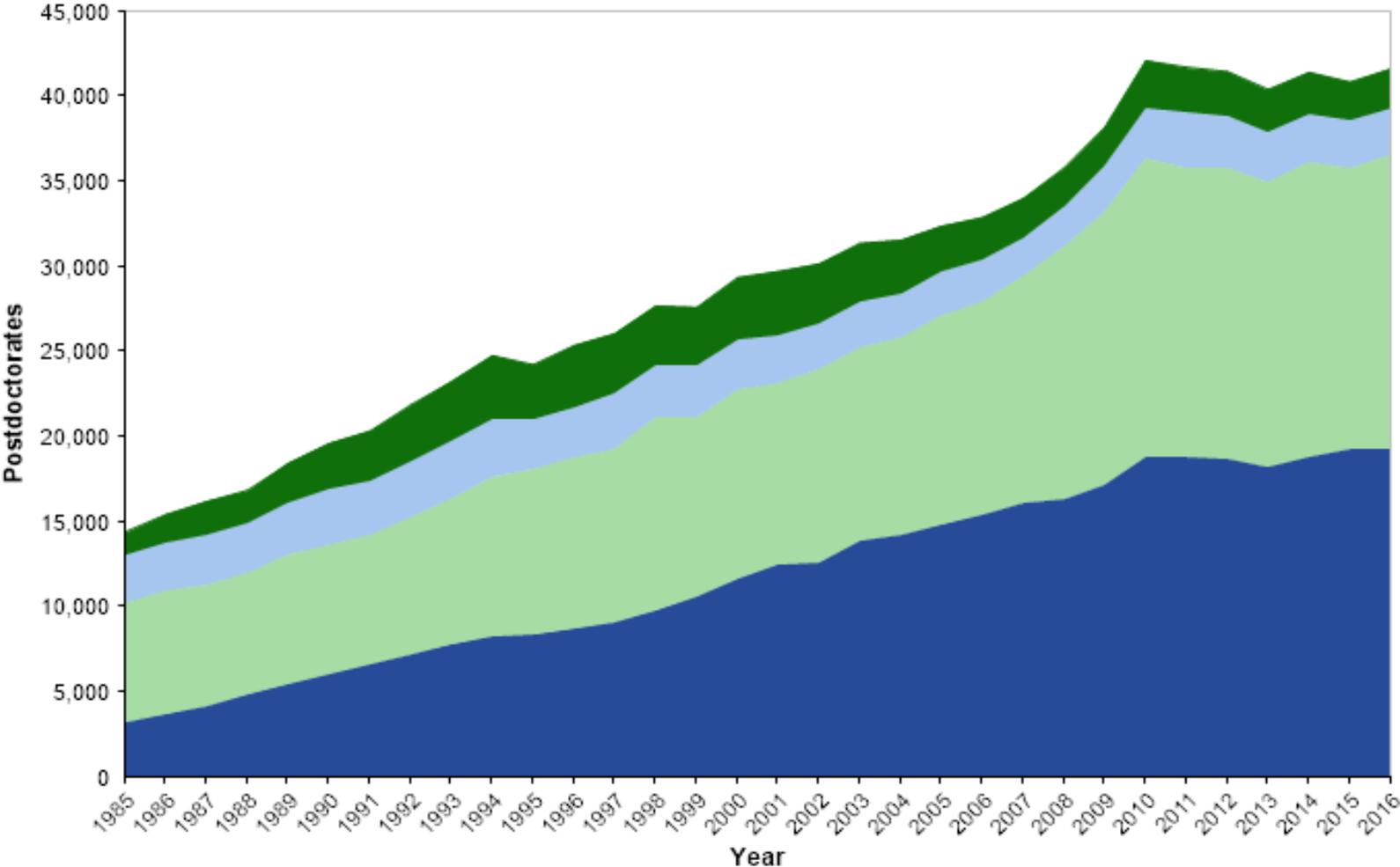
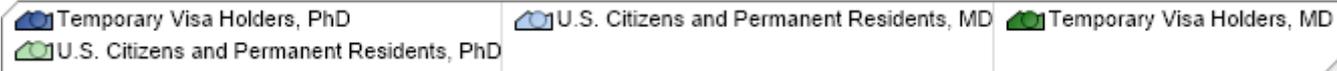
# Postdoctorates in the behavioral and social sciences, by citizenship and gender



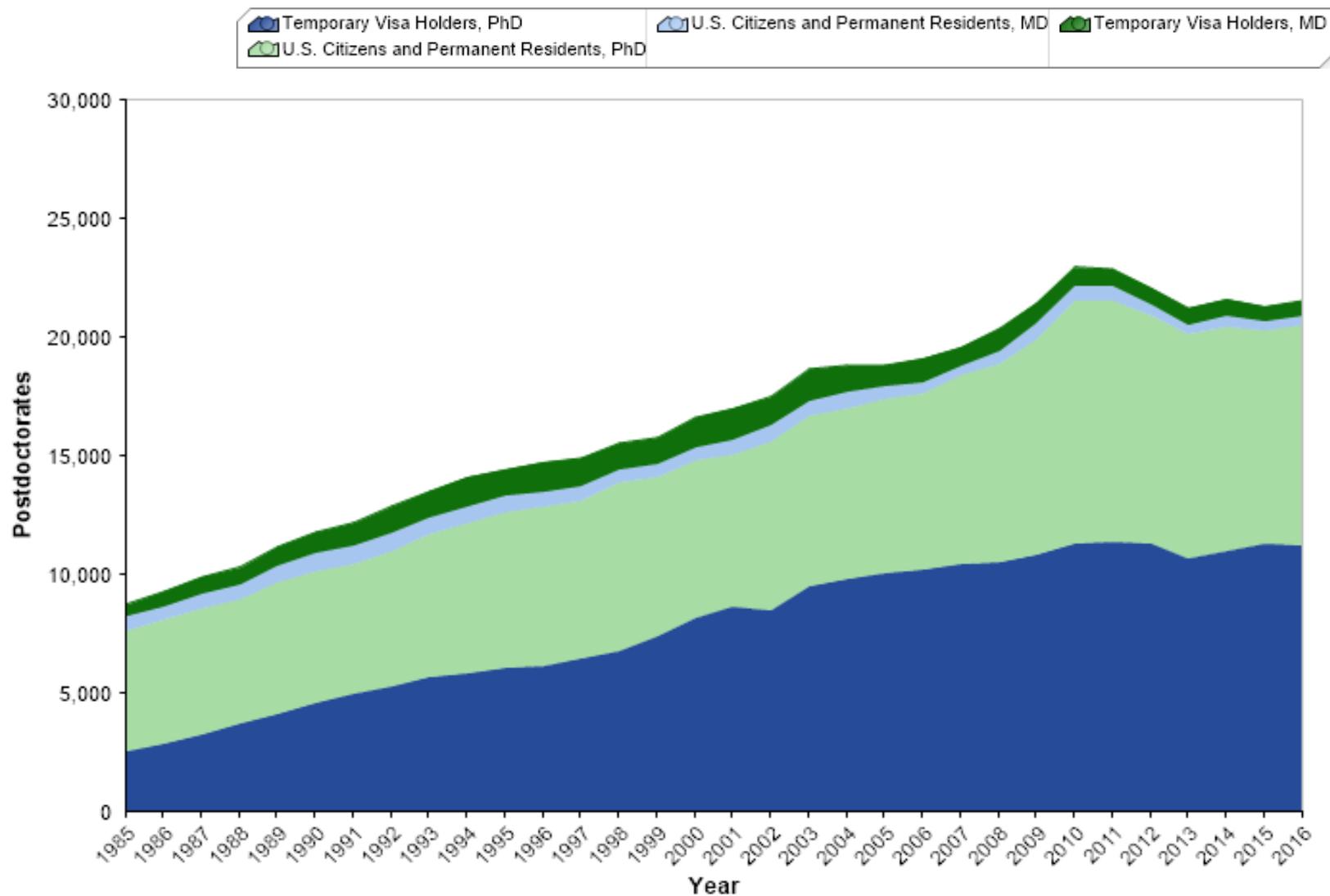
## Postdoctorates in the clinical sciences, by citizenship and gender



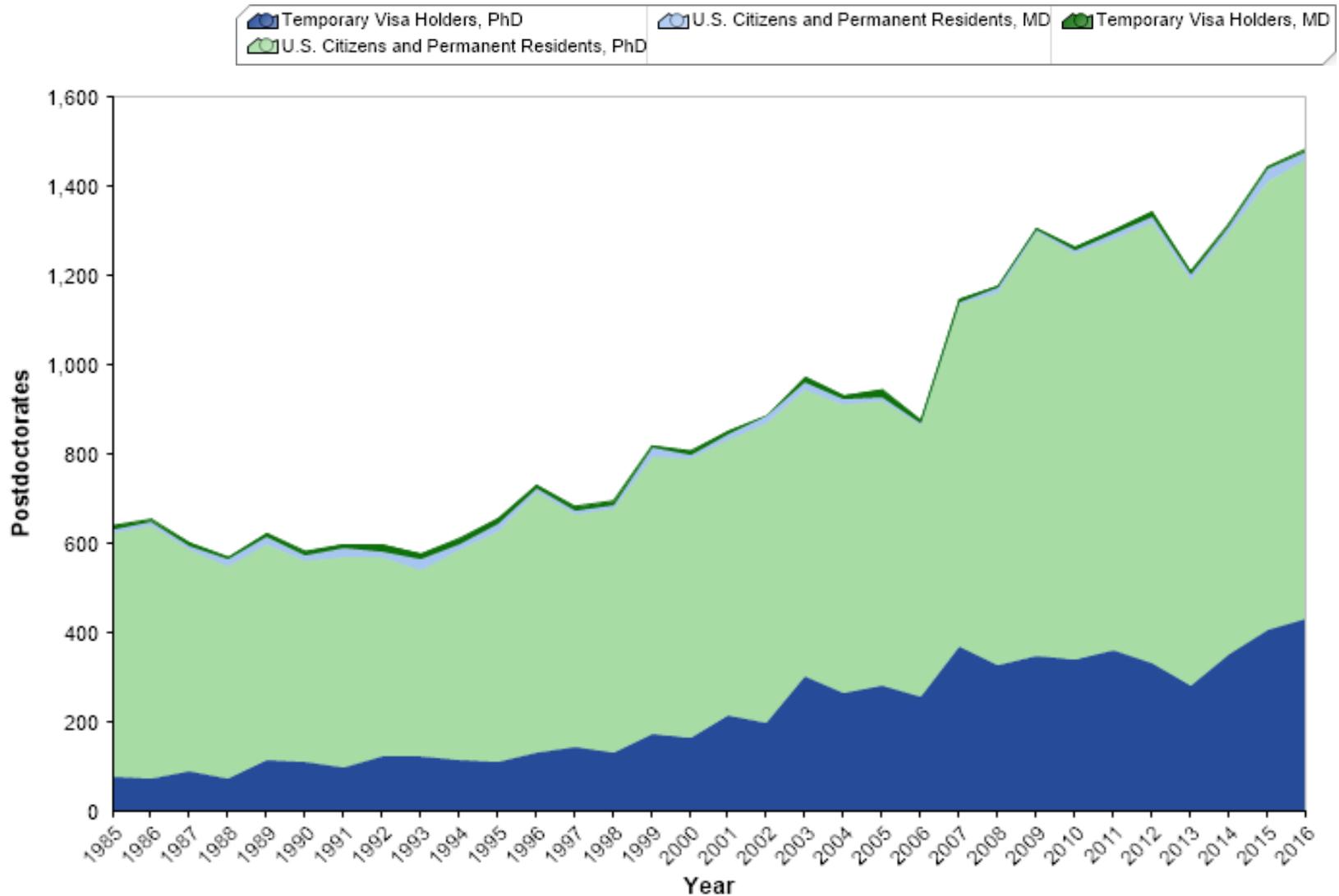
# Postdoctorates, by citizenship and degree



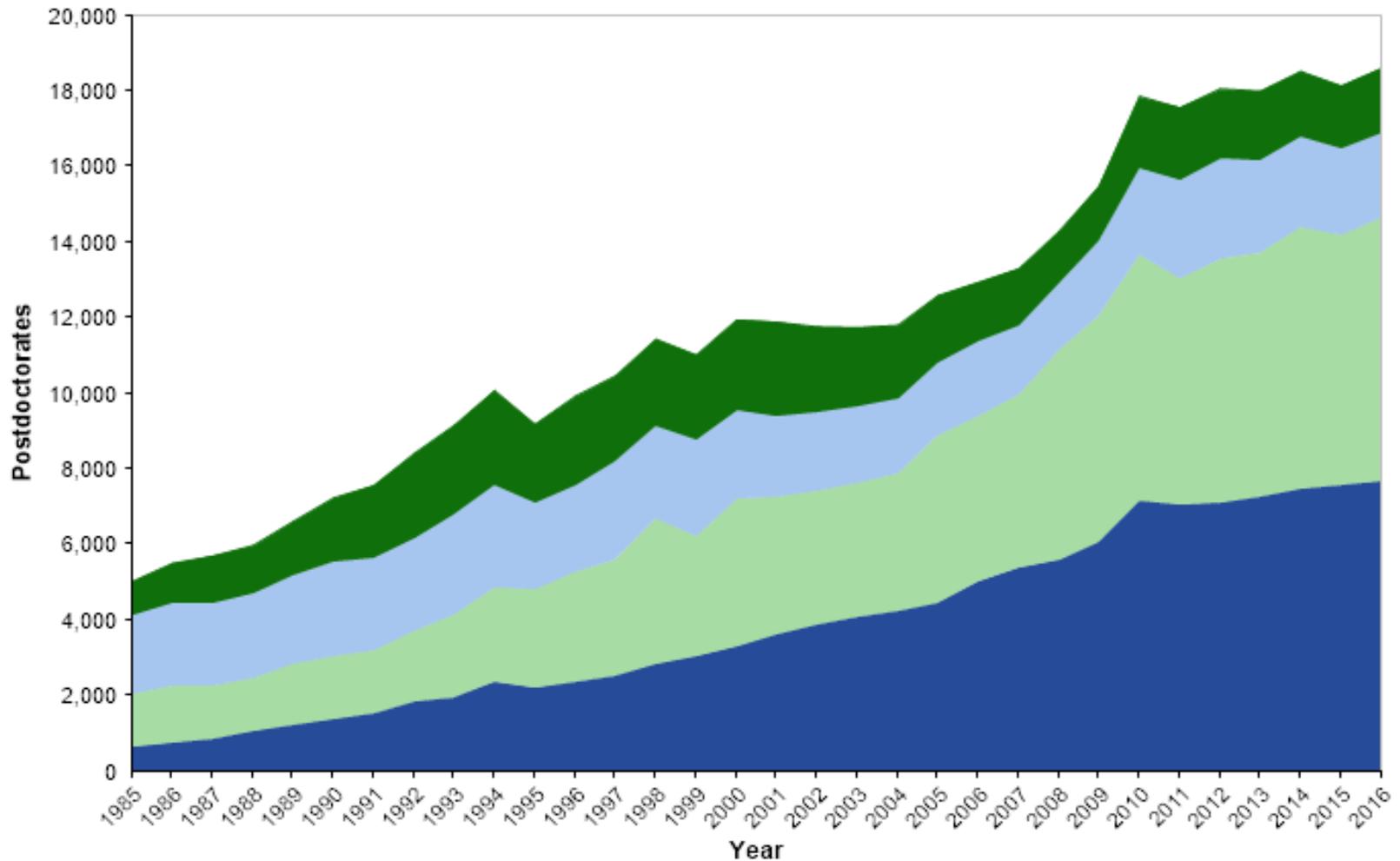
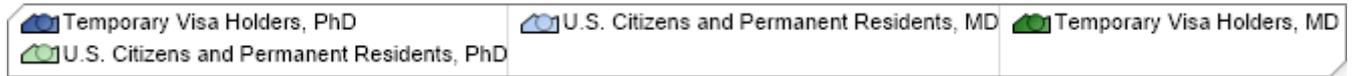
## Postdoctorates in the biomedical sciences, by citizenship and degree



# Postdoctorates in the behavioral and social sciences, by citizenship and degree

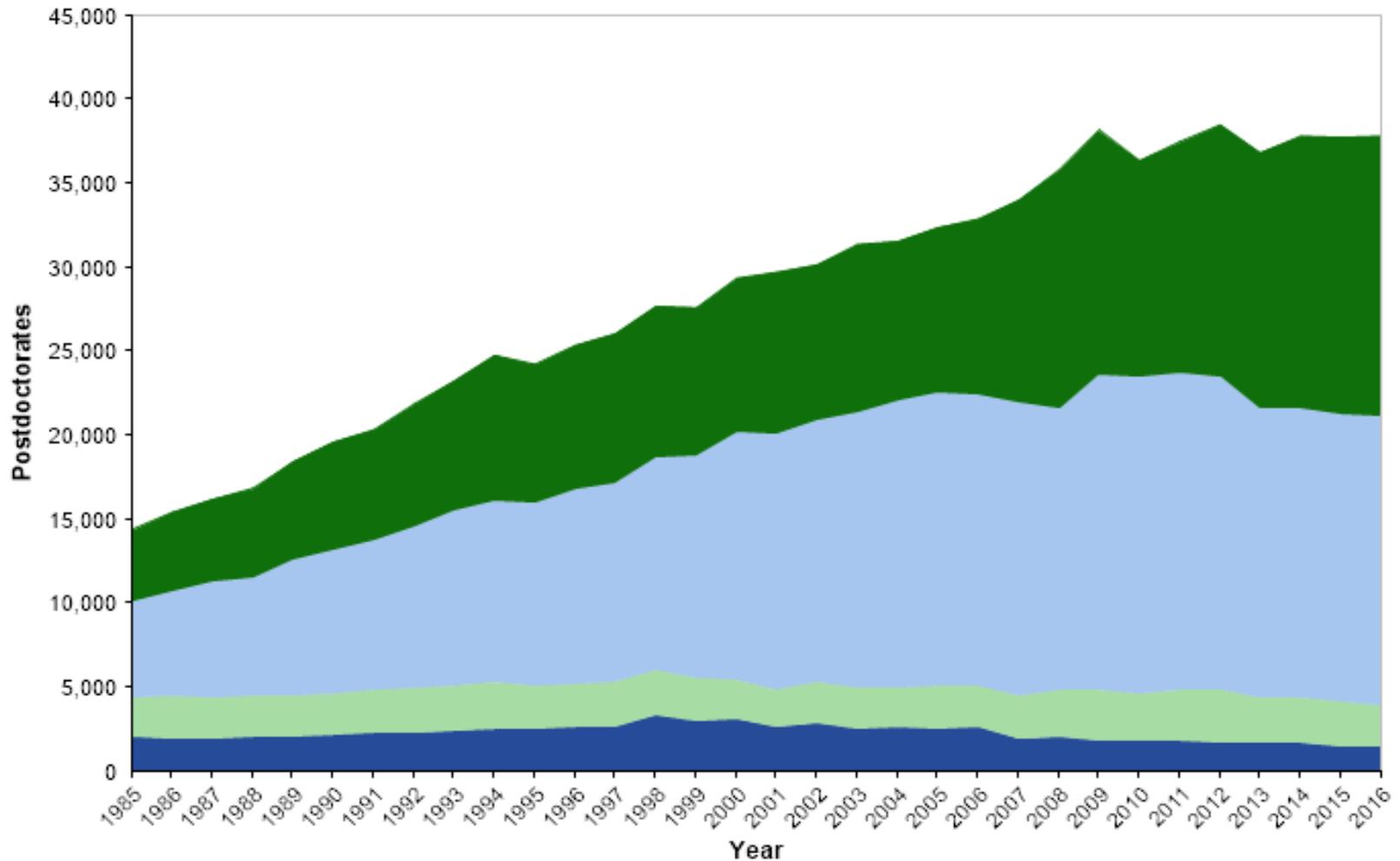


## Postdoctorates in the clinical sciences, by citizenship and degree

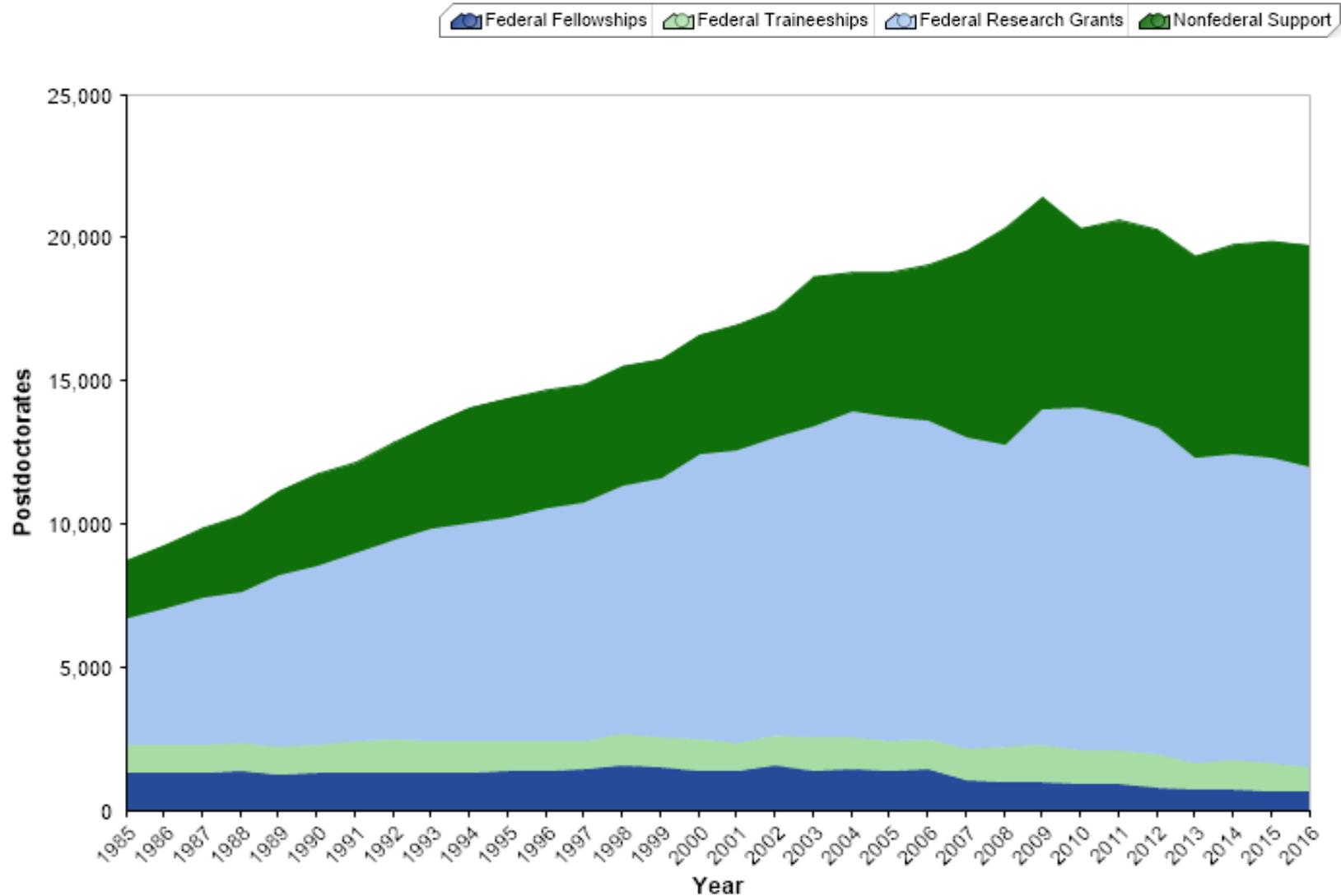


# Primary source of support for postdoctorates

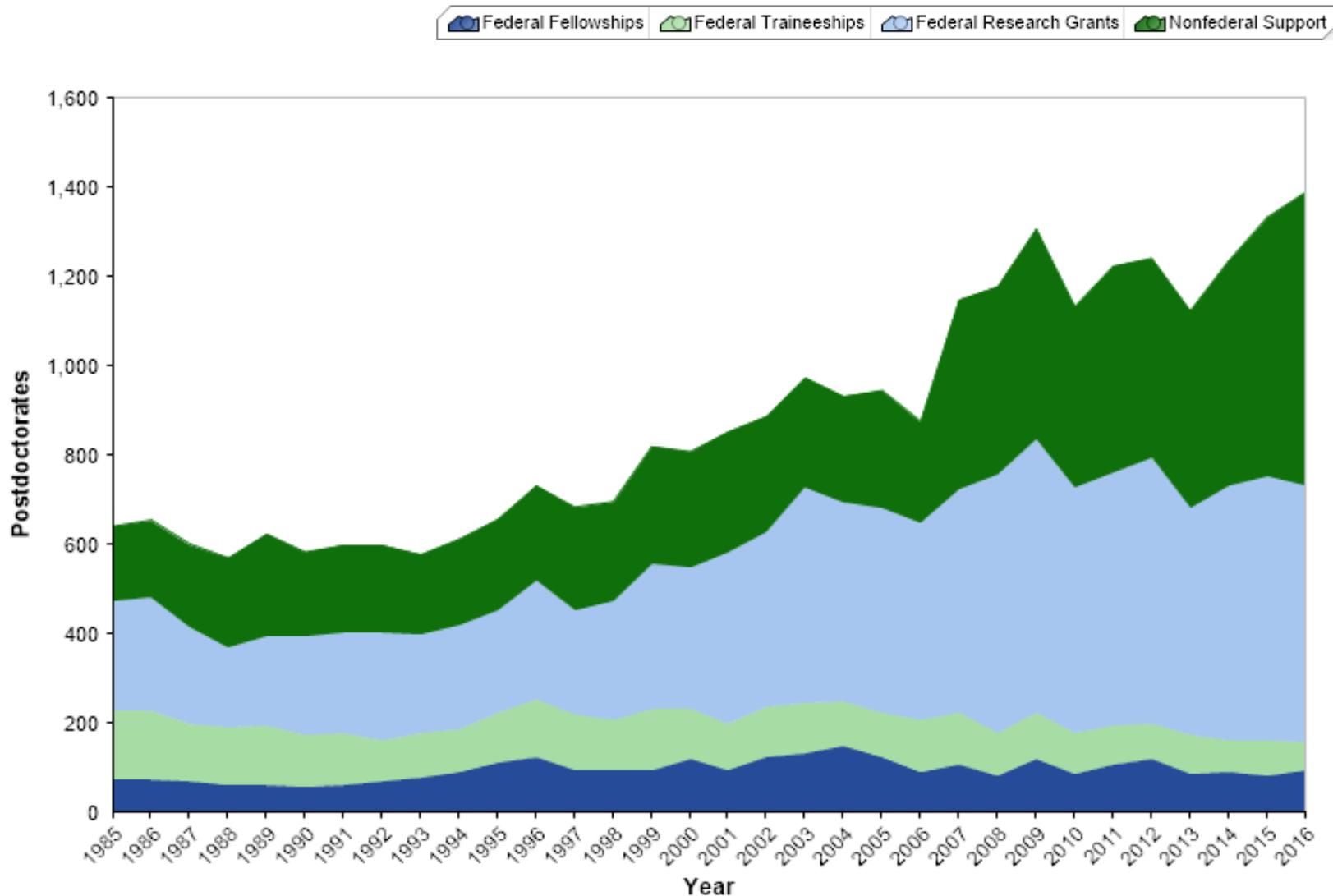
Federal Fellowships Federal Traineeships Federal Research Grants Nonfederal Support



# Primary source of support for postdoctorates in the biomedical sciences



## Primary source of support for postdoctorates in the behavioral and social sciences



## Primary source of support for postdoctorates in the clinical sciences

