

**Federal Research and Development (R&D)  
Funding: FY2020**

Updated August 13, 2019

**Table I. Federal Research and Development Funding by Agency, FY2018-FY2020**  
(budget authority, dollar amounts in millions)

Department/Agency	FY2018 Actual	FY2019 Enacted	FY2020 Request	Change, FY2018- FY2020		Change, FY2019- FY2020	
				Dollar	Percent, Total	Dollar	Percent, Total
Department of Defense	\$52,386	\$55,832	\$59,463	\$7,077	13.5%	\$3,631	6.5%
Dept. of Health and Human Services	36,942	38,647	33,693	-3,249	-8.8%	-4,954	-12.8%
Department of Energy	17,482	17,793	14,718	-2,764	-15.8%	-3,075	-17.3%
NASA	11,755	n/a	11,280	-475	-4.0%	n/a	n/a
National Science Foundation	6,327	n/a	5,760	-567	-9.0%	n/a	n/a
Department of Agriculture	2,618	n/a	2,464	-154	-5.9%	n/a	n/a
Department of Commerce	2,029	n/a	1,694	-335	-16.5%	n/a	n/a
Department of Veterans Affairs	1,286	1,342	1,325	39	3.0%	17	-1.3%
Department of Transportation	1,043	n/a	1,076	33	3.2%	n/a	n/a
Department of the Interior	885	n/a	753	-132	-14.9%	n/a	n/a
Department of Homeland Security	725	n/a	507	-218	-30.1%	n/a	n/a
Environmental Protection Agency	492	n/a	285	-207	-42.1%	n/a	n/a
Smithsonian Institution	357	n/a	315	-42	-11.8%	n/a	n/a
Department of Education	257	258	224	-33	-12.8%	34	-13.2%
Other	1,181	n/a	540	-641	-54.3%	n/a	n/a
<b>Total</b>	<b>135,765</b>	<b>n/a</b>	<b>134,097</b>	<b>-1,668</b>	<b>-1.2%</b>	<b>n/a</b>	<b>n/a</b>

**Source:** CRS analysis of data from EOP, OMB, *Analytical Perspectives, Budget of the United States Government, Fiscal Year 2020, Research and Development*, March 18, 2019, p. 269, [https://www.whitehouse.gov/wp-content/uploads/2019/03/ap\\_21\\_research-fy2020.pdf](https://www.whitehouse.gov/wp-content/uploads/2019/03/ap_21_research-fy2020.pdf). The "FY2019" column includes enacted funding levels for only those agencies that received appropriations prior to February 15, 2019, for which OMB provided estimated levels of R&D based on the enacted legislation.

**Notes:** Components may not sum to totals due to rounding. n/a=not available.

**Table 9. National Institutes of Health Funding**

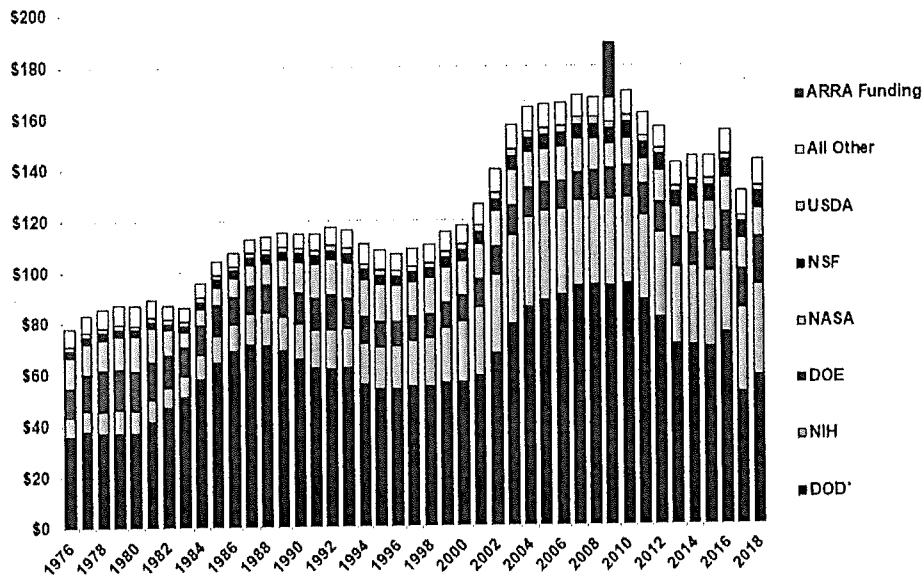
(budget authority, in millions of dollars)

Institutes/Centers	FY2019 Enacted	FY2020 Request	FY2020 House	FY2020 Senate	FY2020 Enacted
Cancer Institute (NCI)	\$6,144	\$5,247	\$6,444		
Heart, Lung, and Blood Institute (NHLBI)	\$3,488	\$3,003	\$3,659		
Dental/Craniofacial Research (NIDCR)	\$462	\$397	\$484		
Diabetes/Digestive/Kidney (NIDDK) <sup>a</sup>	\$2,030	\$1,747	\$2,129		
Neurological Disorders/Stroke (NINDS)	\$2,274	\$2,026	\$2,386		
Allergy/Infectious Diseases (NIAID)	\$5,523	\$4,754	\$5,808		
General Medical Sciences (NIGMS) <sup>b</sup>	\$1,726	\$1,732	\$1,886		
Child Health/Human Development (NICHD)	\$1,506	\$1,297	\$1,580		
National Eye Institute (NEI)	\$797	\$686	\$835		
Environmental Health Sciences (NIEHS) <sup>c</sup>	\$775	\$667	\$813		
National Institute on Aging (NIA)	\$3,083	\$2,654	\$3,286		
Arthritis/Musculoskeletal/Skin Diseases (NIAMS)	\$605	\$521	\$635		
Deafness/Communication Disorders (NIDCD)	\$474	\$408	\$498		
National Institute of Mental Health (NIMH)	\$1,870	\$1,630	\$1,962		
National Institute on Drug Abuse (NIDA)	\$1,420	\$1,296	\$1,489		
Alcohol Abuse/Alcoholism (NIAAA)	\$526	\$452	\$551		
Nursing Research (NINR)	\$163	\$140	\$171		
Human Genome Research Institute (NHGRI)	\$576	\$495	\$604		
Biomedical Imaging/Bioengineering (NIBIB)	\$389	\$336	\$408		
Minority Health/Health Disparities (NIMHD)	\$315	\$271	\$341		
Complementary/Integrative Health (NCCIH)	\$146	\$126	\$154		
Advancing Translational Sciences (NCATS)	\$806	\$694	\$846		
Fogarty International Center (FIC)	\$78	\$67	\$85		
National Library of Medicine (NLM)	\$442	\$380	\$464		
Office of Director (OD) <sup>d</sup>	\$1,917	\$1,769	\$2,063		
Innovation Account <sup>e</sup>	\$196	\$157	\$157		
Buildings and Facilities (B&F)	\$200	\$200	\$200		
National Institute for Research on Safety & Quality (NIRSQ) <sup>f</sup>	—	\$256	—		
<b>Subtotal, NIH (LHHS Discretionary BA)</b>	<b>\$37,933</b>	<b>\$33,411</b>	<b>\$39,937</b>		
PHS Program Evaluation (provided to NIGMS)	\$1,147	\$741	\$1,147		
Superfund (Interior approp. to NIEHS) <sup>g</sup>	\$79	\$67	\$80		
Mandatory type 1 diabetes funds <sup>h</sup>	\$150	\$150	\$200		
<b>NIH Program Level</b>	<b>\$39,308</b>	<b>\$34,368</b>	<b>\$41,364</b>		

- R-01 **Research Project**  
To support a discrete, specified, circumscribed project to be performed by the named investigator(s) in an area representing his or her specific interest and competencies.  
NIH Guidelines, Current and Recent NCI and Trans-NIH Initiatives (R01)
  
- R-03 **Small Research Grants**  
To provide research support specifically limited in time and amount for studies in categorical program areas. Small grants provide flexibility for initiating studies which are generally for preliminary short-term projects and are non-renewable.  
NIH Guidelines, Current and Recent NCI and Trans-NIH Initiatives (R03)
  
- R-13 **Conference**  
To support recipient sponsored and directed international, national or regional meetings, conferences and workshops.  
NIH Guidelines, Current and Recent NCI and Trans-NIH Initiatives (R13), NCI Support Contacts
  
- R-15 **Academic Research Enhancement Awards (AREA)**  
Supports small-scale research projects at educational institutions that provide baccalaureate or advanced degrees for a significant number of the Nation's research scientists but that have not been major recipients of NIH support. The goals of the program are to (1) support meritorious research, (2) expose students to research, and (3) strengthen the research environment of the institution. Awards provide limited Direct Costs, plus applicable F&A costs, for periods not to exceed 36 months. This activity code uses multi-year funding authority; however, OER approval is NOT needed prior to an IC using this activity code.  
NIH Guidelines, Current and Recent NCI and Trans-NIH Initiatives (R15)
  
- R-21 **Exploratory/Developmental Grants**  
To encourage the development of new research activities in categorical program areas. (Support generally is restricted in level of support and in time.)  
NIH Guidelines, Current and Recent NCI and Trans-NIH Initiatives (R21)
  
- R-24 **Resource-Related Research Projects**  
To support research projects that will enhance the capability of resources to serve biomedical research.

### Trends in R&D by Agency

in billions of constant FY 2018 dollars



\*NOTE: Beginning in FY 2017, a new official definition of R&D has been adopted by federal agencies. Late-stage development, testing, and evaluation programs, primarily within the Defense Department, are no longer counted as R&D. FY 2018 figures are AAAS estimates based on omnibus-enacted appropriations. 1976-1994 figures are NSF data on obligations in the Federal Funds survey. Source: AAAS Report: Research & Development series and analyses of FY 2018 omnibus legislation. © 2018 AAAS

Fiscal Year	Competing Status (Type)	NIH Institutes / Centers	Activity Code	Number of Applications Reviewed	Number of Applications Awarded	Success Rate <sup>1</sup>	Total Funding <sup>2</sup>
2018	New	NCI	P01	72	9	12.5%	\$18,009,848
2018	New	NCI	R01	5,674	561	9.9%	\$266,449,614
2018	New	NCI	R03	564	60	10.6%	\$5,234,715
2018	New	NCI	R15	215	20	9.3%	\$8,944,158
2018	New	NCI	R21	2,403	213	8.9%	\$43,411,567
2018	New	NHLBI	P01	20	3	15.0%	\$7,417,475
2018	New	NHLBI	R01	2,837	633	22.3%	\$355,081,310
2018	New	NHLBI	R03	32	26	81.3%	\$2,090,069
2018	New	NHLBI	R15	135	21	15.6%	\$9,129,635
2018	New	NHLBI	R21	200	43	21.5%	\$7,418,390
2018	New	NIDCR	R01	413	75	18.2%	\$34,393,995
2018	New	NIDCR	R03	136	37	27.2%	\$5,742,599
2018	New	NIDCR	R15	28	6	21.4%	\$2,206,299
2018	New	NIDCR	R21	199	36	18.1%	\$8,313,104
2018	New	NIDDK	P01	12	2	16.7%	\$3,037,156
2018	New	NIDDK	R01	2,243	383	17.1%	\$184,976,341
2018	New	NIDDK	R03	64	30	46.9%	\$3,037,368
2018	New	NIDDK	R15	75	7	9.3%	\$2,663,868
2018	New	NIDDK	R21	355	34	9.6%	\$7,273,760
2018	New	NIDDK Type 1 Diabetes	R01	14	14	100.0%	\$7,300,552
2018	New	NINDS	P01	6	0	0.0%	\$0
2018	New	NINDS	R01	2,260	475	21.0%	\$216,240,200
2018	New	NINDS	R03	129	35	27.1%	\$2,736,600
2018	New	NINDS	R15	103	13	12.6%	\$5,569,459
2018	New	NINDS	R21	1,376	239	17.4%	\$56,937,971
2018	New	NIAID	P01	19	5	26.3%	\$8,945,791
2018	New	NIAID	R01	2,575	511	19.8%	\$288,169,025
2018	New	NIAID	R03	257	68	26.5%	\$5,414,444
2018	New	NIAID	R15	182	21	11.5%	\$8,991,493
2018	New	NIAID	R21	2,632	565	21.5%	\$129,359,429
2018	New	NIGMS	P01	6	2	33.3%	\$2,497,575
2018	New	NIGMS	R01	2,256	512	22.7%	\$184,716,455
2018	New	NIGMS	R15	313	92	29.4%	\$40,226,042
2018	New	NIGMS	R21	233	35	15.0%	\$7,798,685
2018	New	NICHD	R01	1,420	260	18.3%	\$134,908,181
2018	New	NICHD	R03	383	89	23.2%	\$7,713,459
2018	New	NICHD	R15	137	16	11.7%	\$6,869,821
2018	New	NICHD	R21	957	133	13.9%	\$30,012,625
2018	New	NEI	R01	615	144	23.4%	\$62,336,071
2018	New	NEI	R15	21	4	19.0%	\$1,323,346
2018	New	NEI	R21	322	64	19.9%	\$14,547,956
2018	New	NIEHS	P01	17	4	23.5%	\$2,508,151
2018	New	NIEHS	R01	568	90	15.8%	\$41,708,597
2018	New	NIEHS	R03	51	9	17.6%	\$725,922
2018	New	NIEHS	R15	36	3	8.3%	\$1,335,217
2018	New	NIEHS	R21	371	53	14.3%	\$12,228,262
2018	New	NIA	P01	9	3	33.3%	\$7,126,233
2018	New	NIA	R01	1,653	345	20.9%	\$254,748,555
2018	New	NIA	R03	205	59	28.8%	\$5,303,711
2018	New	NIA	R15	89	17	19.1%	\$7,274,391
2018	New	NIA	R21	849	188	22.1%	\$43,304,195
2018	New	NIAMS	R01	838	134	16.0%	\$59,311,364
2018	New	NIAMS	R03	11	6	54.5%	\$499,137

2018	New	NIAMS	R15	46	5	10.9%	\$1,757,058
2018	New	NIAMS	R21	536	79	14.7%	\$16,080,020
2018	New	NIDCD	R01	412	97	23.5%	\$46,214,530
2018	New	NIDCD	R03	4	1	25.0%	\$78,250
2018	New	NIDCD	R15	34	6	17.6%	\$2,750,326
2018	New	NIDCD	R21	276	65	23.6%	\$12,621,150
2018	New	NIMH	R01	1,374	249	18.1%	\$142,147,115
2018	New	NIMH	R03	104	18	17.3%	\$1,453,932
2018	New	NIMH	R15	73	16	21.9%	\$6,575,615
2018	New	NIMH	R21	640	120	18.8%	\$27,130,667
2018	New	NIDA	P01	2	0	0.0%	\$0
2018	New	NIDA	R01	947	153	16.2%	\$92,137,287
2018	New	NIDA	R03	119	19	16.0%	\$2,034,373
2018	New	NIDA	R15	48	9	18.8%	\$3,508,513
2018	New	NIDA	R21	602	100	16.6%	\$23,073,545
2018	New	NIAAA	P01	1	1	100.0%	\$1,202,962
2018	New	NIAAA	R01	465	104	22.4%	\$44,763,182
2018	New	NIAAA	R03	54	9	16.7%	\$701,128
2018	New	NIAAA	R15	9	1	11.1%	\$403,361
2018	New	NIAAA	R21	282	66	23.4%	\$14,018,574
2018	New	NINR	R01	320	41	12.8%	\$22,238,509
2018	New	NINR	R03	1	0	0.0%	\$0
2018	New	NINR	R15	45	3	6.7%	\$1,065,398
2018	New	NINR	R21	307	24	7.8%	\$5,258,203
2018	New	NHGRI	R01	125	30	24.0%	\$19,726,235
2018	New	NHGRI	R03	15	2	13.3%	\$152,750
2018	New	NHGRI	R15	6	1	16.7%	\$451,682
2018	New	NHGRI	R21	63	16	25.4%	\$3,365,236
2018	New	NIBIB	R01	428	105	24.5%	\$42,937,607
2018	New	NIBIB	R03	105	23	21.9%	\$1,899,255
2018	New	NIBIB	R15	37	7	18.9%	\$2,303,380
2018	New	NIBIB	R21	847	87	10.3%	\$19,114,533
2018	New	NCCIH****	P01	2	1	50.0%	\$2,211,628
2018	New	NCCIH****	R01	85	20	23.5%	\$9,186,184
2018	New	NCCIH****	R15	22	3	13.6%	\$1,269,213
2018	New	NCCIH****	R21	87	10	11.5%	\$2,125,727
2018	New	NIMHD***	R01	280	39	13.9%	\$26,101,230
2018	New	NIMHD***	R03	39	2	5.1%	\$162,597
2018	New	NIMHD***	R15	32	2	6.3%	\$890,087
2018	New	NIMHD***	R21	301	25	8.3%	\$5,638,585
2018	New	FIC	R01	3	3	100.0%	\$1,194,625
2018	New	FIC	R03	2	1	50.0%	\$79,875
2018	New	FIC	R21	205	37	18.0%	\$6,467,174
2018	New	NLM	R01	116	15	12.9%	\$5,461,170
2018	New	NLM	R15	7	2	28.6%	\$719,870
2018	New	NLM	R21	53	12	22.6%	\$2,320,348
2018	New	D COMMON FUN	R01	144	9	6.3%	\$12,103,375
2018	New	D COMMON FUN	R21	37	11	29.7%	\$2,461,249
2018	New	NCATS	R01	0	0	0.0%	\$73,000
2018	New	NCATS	R21	15	5	33.3%	\$1,242,644
2018	New	OD ORIP-SEPA†	R01	7	1	14.3%	\$675,885
2018	New	OD ORIP-SEPA†	R21	63	12	19.0%	\$2,741,148
2018	New	OD ORIP-SEPA†	Total	70	13	18.6%	\$3,417,033

2018	Competing (Renewal)	NCI	P01	23	9	39.1%	\$23,674,745
2018	Competing (Renewal)	NCI	R01	332	84	25.3%	\$34,501,344
2018	Competing (Renewal)	NCI	R15	7	0	0.0%	\$0
2018	Competing (Renewal)	NHLBI	P01	19	11	57.9%	\$23,606,953
2018	Competing (Renewal)	NHLBI	R01	318	108	34.0%	\$63,982,498
2018	Competing (Renewal)	NHLBI	R15	6	2	33.3%	\$906,523
2018	Competing (Renewal)	NIDCR	R01	58	20	34.5%	\$9,317,081
2018	Competing (Renewal)	NIDCR	R15	4	2	50.0%	\$877,499
2018	Competing (Renewal)	NIDCR	R56	6	6	100.0%	\$2,379,352
2018	Competing (Renewal)	NIDDK	P01	3	0	0.0%	\$0
2018	Competing (Renewal)	NIDDK	R01	299	118	39.5%	\$56,160,654
2018	Competing (Renewal)	NIDDK	R15	5	2	40.0%	\$774,642
2018	Competing (Renewal)	NINDS	P01	1	0	0.0%	\$0
2018	Competing (Renewal)	NINDS	R01	262	107	40.8%	\$48,485,385
2018	Competing (Renewal)	NINDS	R15	9	2	22.2%	\$811,033
2018	Competing (Renewal)	NIAID	P01	10	6	60.0%	\$12,338,019
2018	Competing (Renewal)	NIAID	R01	249	114	45.8%	\$59,297,303
2018	Competing (Renewal)	NIAID	R15	16	4	25.0%	\$1,754,094
2018	Competing (Renewal)	NIGMS	P01	3	2	66.7%	\$3,797,381
2018	Competing (Renewal)	NIGMS	R01	443	220	49.7%	\$81,580,583
2018	Competing (Renewal)	NIGMS	R15	29	11	37.9%	\$5,105,827
2018	Competing (Renewal)	NICHD	R01	90	40	44.4%	\$21,071,211
2018	Competing (Renewal)	NICHD	R15	8	3	37.5%	\$1,133,000
2018	Competing (Renewal)	NEI	R01	193	95	49.2%	\$41,687,099
2018	Competing (Renewal)	NIEHS	R01	37	10	27.0%	\$4,638,739
2018	Competing (Renewal)	NIEHS	R15	5	3	60.0%	\$1,282,204