



Number of Principal Investigators Funded by the National Institutes of Health By Grant Mechanism and Gender Fiscal Years 2016-2020

Source: Data drawn from the frozen FY 2020 PUB file and current IMPAC II files as of 02/13/2021.

- Notes: (1) Includes investigators receiving both competing and non-competing awards.
 (2) Includes both Principal Investigators (PIs) and Multiple Principal Investigators (MPIs).
 (3) Excludes awards issued using supplemental Coronavirus (COVID-19) appropriations.
 (4) "D" is entered for suppressed cells due to small count.
 (5) Grant Mechanisms are defined as follows:

Construction Grants: Defined as activity codes C06, UC6 and G20.

Fellowships: Defined as activity codes F05, F30, F31, F32, F33, F34, F37, F38 and F99.

Other Awards: Defined as activity codes D43, D71, DP7, G07, G08, G11, G13, OT2 and OT3.

Research Grants: Defined as extramural awards made for Research Centers, Research Projects, Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Grants, and Other Research Grants.

Research grants are defined by the following activity codes: R, P, M, S, K, U (excluding UC6), DP1, DP2, DP3, DP4, DP5, D42 and G12.

Training Grants: Defined as activity codes T01, T02, T09, T14, T15, T32, T34, T35, T36, T37, T42, T90, TL1, TL4 and TU2.

Not all of these activities may be in use by NIH every year.

(6) "Withheld" indicates the investigator chose to not disclose that information. "Unknown" indicates that item was not completed and missing in the IMPACII database.

(7) An investigator is counted only once within each fiscal year, demographic category, and grant mechanism. For All Mechanisms, an investigator is counted only once within each fiscal year and demographic category for all mechanisms combined. Therefore, the sum of the individual mechanisms may be more than All Mechanisms, as an investigator may have received awards for more than one grant mechanism but is counted only once for that fiscal year and demographic category. Similarly, for "2016-2020," an investigator is counted only once within each mechanism and demographic category for all years combined. Therefore, the sum of the individual demographic categories may be more than "2016-2020," as an investigator may have received awards in more than one year but is counted only once for that mechanism and demographic category.

Report #1421-21

Fiscal Year	Demographic Category: Gender	Principal Investigators by Grant Mechanism and Gender										All Mechanisms Total	
		Research Grants		Fellowships		Training Grants		Construction Grants		Other Grants			
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2016	Female	11,876	32.7%	1,657	50.0%	653	28.9%	D	D	109	35.6%	13,791	34.2%
2016	Male	23,535	64.9%	1,501	45.3%	1,593	70.5%	D	D	184	60.1%	25,490	63.2%
2016	Unknown	809	2.2%	157	4.7%	13	0.6%	0	0.0%	13	4.2%	985	2.4%
2016	Withheld	64	0.2%	D	D	D	D	D	D	0	0.0%	67	0.2%
2016	Total Gender 2016	36,284	100.0%	3,317	100.0%	2,260	100.0%	13	100.0%	306	100.0%	40,333	100.0%
2017	Female	12,281	32.8%	1,723	49.2%	707	30.5%	0	0.0%	121	35.5%	14,277	34.2%
2017	Male	24,109	64.4%	1,609	45.9%	1,599	69.0%	D	D	200	58.7%	26,214	62.8%
2017	Unknown	972	2.6%	170	4.9%	D	D	0	0.0%	20	5.9%	1,165	2.8%
2017	Withheld	64	0.2%	D	D	D	D	0	0.0%	0	0.0%	66	0.2%
2017	Total Gender 2017	37,426	100.0%	3,504	100.0%	2,318	100.0%	D	100.0%	341	100.0%	41,722	100.0%
2018	Female	13,378	33.8%	1,800	51%	764	31.5%	D	D	99	31.8%	15,436	35.1%
2018	Male	24,993	63.1%	1,589	45%	1,644	67.8%	D	D	192	61.7%	27,082	61.6%
2018	Unknown	1,206	3.0%	174	5%	16	0.7%	0	0.0%	19	6.1%	1,405	3.2%

Fiscal Year	Demographic Category: Gender	Principal Investigators by Grant Mechanism and Gender										All Mechanisms Total	
		Research Grants		Fellowships		Training Grants		Construction Grants		Other Grants			
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2018	Withheld	57	0.1%	0	0%	0	0.0%	0	0.0%	D	D	D	D
2018	Total Gender 2018	39,634	100.0%	3,563	100%	2,424	100.0%	D	100.0%	311	100.0%	43,980	100.0%
2019	Female	14,469	34.6%	1,894	50.9%	815	32.5%	D	D	128	31.8%	D	D
2019	Male	25,761	61.7%	1,642	44.1%	1,672	66.6%	D	D	241	59.8%	D	D
2019	Unknown	1,498	3.6%	184	4.9%	20	0.8%	0	0.0%	32	7.9%	1,720	3.7%
2019	Withheld	55	0.1%	0	0.0%	D	D	0	0.0%	D	D	57	0.1%
2019	Total Gender 2019	41,783	100.0%	3,720	100.0%	2,509	100.0%	14	100.0%	403	100.0%	46,371	100.0%
2020	Female	15,170	35.3%	2,047	51.5%	919	34.2%	D	D	93	30.5%	17,526	36.6%
2020	Male	26,044	60.6%	1,669	42.0%	1,738	64.7%	D	D	178	58.4%	28,212	59.0%
2020	Unknown	1,719	4.0%	261	6.6%	29	1.1%	D	10.0%	33	10.8%	2,026	4.2%
2020	Withheld	57	0.1%	0	0.0%	D	D	0	0.0%	D	D	59	0.1%
2020	Total Gender 2020	42,990	100.0%	3,977	100.0%	2,688	100.0%	D	100.0%	305	100.0%	47,823	100.0%
Total Years	Female	21,649	34.6%	4,927	51.5%	1,206	32.5%	13	34.2%	251	34.6%	26,603	36.7%
Total Years	Male	37,886	60.5%	4,121	43.0%	2,468	66.5%	23	60.5%	402	55.4%	42,219	58.3%
Total Years	Unknown	2,950	4.7%	524	5.5%	37	1.0%	D	2.6%	70	9.6%	3,529	4.9%
Total Years	Withheld	116	0.2%	D	0.0%	D	0.1%	D	2.6%	D	0.4%	121	0.2%
Total Years	Total All Years Gender	62,601	100.0%	9,574	100.0%	3,713	100.0%	38	100.0%	726	100.0%	72,472	100.0%

**Number of Principal Investigators Funded by the National Institutes of Health
By Grant Mechanism and Race
Fiscal Years 2016-2020**

Fiscal Year	Demographic Category: Race	Principal Investigators by Grant Mechanism and Race										All Mechanisms Total	
		Research Grants		Fellowships		Training Grants		Construction Grants		Other Grants			
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2016	American Indian or Alaskan Native	88	0.2%	15	0.5%	D	D	D	D	D	D	107	0.3%
2016	Asian	7,063	19.5%	394	11.9%	210	9.3%	D	D	37	12.1%	7,516	18.6%
2016	Black or African American	737	2.0%	138	4.2%	35	1.5%	0	0.0%	37	12.1%	923	2.3%
2016	More than One Race	410	1.1%	133	4.0%	25	1.1%	0	0.0%	D	D	557	1.4%
2016	Native Hawaiian or Other Pacific Islander	26	0.1%	D	D	D	D	0	0.0%	D	D	39	0.1%
2016	Unknown	863	2.4%	D	D	32	1.4%	0	0.0%	15	4.9%	D	D
2016	White	25,274	69.7%	2,315	69.8%	1,884	83.4%	D	D	192	62.7%	D	D
2016	Withheld	1,823	5.0%	305	9.2%	67	3.0%	D	D	13	4.2%	D	D
2016	Total Race 2016	36,284	100.0%	3,317	100.0%	2,260	100.0%	13	100.0%	306	100.0%	40,333	100.0%
2017	American Indian or Alaskan Native	83	0.2%	13	0.4%	D	D	0	0.0%	D	D	99	0.2%
2017	Asian	7,490	20.0%	461	13.2%	217	9.4%	0	0.0%	49	14.4%	8,027	19.2%
2017	Black or African American	776	2.1%	135	3.9%	41	1.8%	0	0.0%	48	14.1%	965	2.3%
2017	More than One Race	419	1.1%	141	4.0%	26	1.1%	0	0.0%	D	D	D	D
2017	Native Hawaiian or Other Pacific Islander	24	0.1%	D	D	D	D	0	0.0%	D	D	32	0.1%
2017	Unknown	889	2.4%	D	D	28	1.2%	0	0.0%	20	5.9%	D	D
2017	White	25,741	68.8%	2,440	69.6%	1,937	83.6%	D	D	192	56.3%	D	D
2017	Withheld	2,004	5.4%	301	8.6%	63	2.7%	0	0.0%	21	6.2%	2,334	5.6%
2017	Total Race 2017	37,426	100.0%	3,504	100.0%	2,318	100.0%	D	100.0%	341	100.0%	41,722	100.0%
2018	American Indian or Alaskan Native	94	0.2%	20	0.6%	D	D	0	0.0%	0	0.0%	D	D
2018	Asian	8,017	20.2%	528	14.8%	232	9.6%	0	0.0%	38	12.2%	8,614	19.6%
2018	Black or African American	841	2.1%	145	4.1%	50	2.1%	0	0.0%	45	14.5%	1,035	2.4%
2018	More than One Race	491	1.2%	139	3.9%	31	1.3%	0	0.0%	D	D	D	D
2018	Native Hawaiian or Other Pacific Islander	22	0.1%	D	D	D	D	0	0.0%	D	D	31	0.1%
2018	Unknown	1,015	2.6%	D	D	28	1.2%	0	0.0%	19	6.1%	1,057	2.4%
2018	White	26,940	68.0%	2,428	68.1%	2,011	83.0%	D	D	178	57.2%	D	D
2018	Withheld	2,214	5.6%	290	8.1%	66	2.7%	0	0.0%	22	7.1%	2,537	5.8%
2018	Total Race 2018	39,634	100.0%	3,563	100.0%	2,424	100.0%	D	100.0%	311	100.0%	43,980	100.0%
2019	American Indian or Alaskan Native	101	0.2%	22	0.6%	D	D	0	0.0%	D	D	124	0.3%
2019	Asian	8,520	20.4%	525	14.1%	252	10.0%	0	0.0%	57	14.1%	9,124	19.7%
2019	Black or African American	928	2.2%	138	3.7%	47	1.9%	0	0.0%	50	12.4%	1,117	2.4%
2019	More than One Race	563	1.3%	164	4.4%	33	1.3%	0	0.0%	D	D	D	D
2019	Native Hawaiian or Other Pacific Islander	27	0.1%	D	D	D	D	0	0.0%	D	D	34	0.1%
2019	Unknown	1,171	2.8%	D	D	35	1.4%	D	D	29	7.2%	1,227	2.6%
2019	White	28,078	67.2%	2,554	68.7%	2,065	82.3%	12	85.7%	236	58.6%	31,287	67.5%
2019	Withheld	2,395	5.7%	303	8.1%	70	2.8%	D	D	20	5.0%	D	D
2019	Total Race 2019	41,783	100.0%	3,720	100.0%	2,509	100.0%	14	100.0%	403	100.0%	46,371	100.0%

Fiscal Year	Demographic Category: Race	Principal Investigators by Grant Mechanism and Race										All Mechanisms Total	
		Research Grants		Fellowships		Training Grants		Construction Grants		Other Grants			
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2020	American Indian or Alaskan Native	102	0.2%	20	0.5%	D	D	0	0.0%	0	0.0%	D	D
2020	Asian	8,858	20.6%	545	13.7%	294	10.9%	0	0.0%	50	16.4%	9,495	19.9%
2020	Black or African American	1,052	2.4%	163	4.1%	59	2.2%	0	0.0%	45	14.8%	1,261	2.6%
2020	More than One Race	596	1.4%	174	4.4%	38	1.4%	D	D	D	D	777	1.6%
2020	Native Hawaiian or Other Pacific Islander	25	0.1%	D	D	D	D	0	0.0%	0	0.0%	29	0.1%
2020	Unknown	1,320	3.1%	43	1.1%	47	1.7%	D	D	36	11.8%	D	D
2020	White	28,587	66.5%	2,671	67.2%	2,157	80.2%	D	D	150	49.2%	D	D
2020	Withheld	2,450	5.7%	357	9.0%	87	3.2%	0	0.0%	18	5.9%	2,840	5.9%
2020	Total Race 2020	42,990	100.0%	D	100.0%	2,688	100.0%	D	100.0%	D	100.0%	47,823	100.0%
Total Years	American Indian or Alaskan Native	155	0.2%	46	0.5%	D	D	D	2.6%	D	0.6%	203	0.3%
Total Years	Asian	12,530	20.0%	1,249	13.0%	393	10.6%	D	2.6%	100	13.8%	13,794	19.0%
Total Years	Black or African American	1,522	2.4%	401	4.2%	82	2.2%	0	0.0%	89	12.3%	1,978	2.7%
Total Years	More than One Race	838	1.3%	405	4.2%	49	1.3%	D	2.6%	13	1.8%	1,228	1.7%
Total Years	Native Hawaiian or Other Pacific Islander	42	0.1%	17	0.2%	D	D	0	0.0%	D	0.1%	60	0.1%
Total Years	Unknown	2,468	3.9%	59	0.6%	65	1.8%	D	5.3%	65	9.0%	2,622	3.6%
Total Years	White	41,419	66.2%	6,557	68.5%	2,990	80.5%	31	81.6%	417	57.4%	48,124	66.4%
Total Years	Withheld	3,627	5.8%	840	8.8%	125	3.4%	D	5.3%	37	5.1%	4,463	6.2%
Total Years	Total All Years Race	62,601	100.0%	9,574	100.0%	3,713	100.0%	38	100.0%	726	100.0%	72,472	100.0%

**Number of Principal Investigators Funding by the National Institutes of Health
By Grant Mechanism and Ethnicity
Fiscal Years 2016-2020**

Report #1421-21

Fiscal Year	Demographic Category: Ethnicity	Principal Investigators by Grant Mechanism and Ethnicity										All Mechanisms Total	
		Research Grants		Fellowships		Training Grants		Construction Grants		Other Grants		Number	Percent
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
2016	Hispanic	1,653	4.6%	291	8.8%	95	4.2%	0	0.0%	18	5.9%	1,976	4.9%
2016	Non-Hispanic	30,876	85.1%	2,783	83.9%	1,951	86.3%	12	92.3%	242	79.1%	34,258	84.9%
2016	Unknown	1,733	4.8%	D	D	117	5.2%	0	0.0%	28	9.2%	D	D
2016	Withheld	2,022	5.6%	236	7.1%	97	4.3%	D	D	18	5.9%	D	D
2016	Total Ethnicity 2016	36,284	100.0%	D	100.0%	2,260	100.0%	D	100.0%	306	100.0%	40,333	100.0%
2017	Hispanic	1,714	4.6%	311	8.9%	96	4.1%	D	D	17	5.0%	2,062	4.9%
2017	Non-Hispanic	31,860	85.1%	2,948	84.1%	2,014	86.9%	0	0.0%	263	77.1%	35,449	85.0%
2017	Unknown	1,695	4.5%	D	D	107	4.6%	0	0.0%	32	9.4%	D	D
2017	Withheld	2,157	5.8%	237	6.8%	101	4.4%	0	0.0%	29	8.5%	2,444	5.9%
2017	Total Ethnicity 2017	37,426	100.0%	D	100.0%	2,318	100.0%	D	100.0%	341	100.0%	41,722	100.0%
2018	Hispanic	1,875	4.7%	332	9.3%	115	4.7%	D	D	21	6.8%	D	D
2018	Non-Hispanic	33,605	84.8%	2,997	84.1%	2,094	86.4%	0	0.0%	241	77.5%	37,240	84.7%
2018	Unknown	1,788	4.5%	D	D	110	4.5%	0	0.0%	26	8.4%	D	D
2018	Withheld	2,366	6.0%	227	6.4%	105	4.3%	0	0.0%	23	7.4%	2,635	6.0%
2018	Total Ethnicity 2018	39,634	100.0%	D	100.0%	2,424	100.0%	D	100.0%	311	100.0%	43,980	100.0%
2019	Hispanic	2,023	4.8%	353	9.5%	122	4.9%	D	D	23	5.7%	D	D
2019	Non-Hispanic	35,292	84.5%	3,136	84.3%	2,167	86.4%	12	85.7%	315	78.2%	39,132	84.4%
2019	Unknown	1,926	4.6%	D	D	111	4.4%	0	0.0%	38	9.4%	D	D
2019	Withheld	2,542	6.1%	223	6.0%	109	4.3%	0	0.0%	27	6.7%	2,811	6.1%
2019	Total Ethnicity 2019	41,783	100.0%	D	100.0%	2,509	100.0%	D	100.0%	403	100.0%	46,371	100.0%
2020	Hispanic	2,169	5.0%	395	9.9%	131	4.9%	0	0.0%	19	6.2%	2,602	5.4%
2020	Non-Hispanic	36,205	84.2%	3,279	82.4%	2,309	85.9%	D	D	223	73.1%	D	D
2020	Unknown	2,038	4.7%	43	1.1%	127	4.7%	D	D	38	12.5%	D	D
2020	Withheld	2,578	6.0%	260	6.5%	121	4.5%	0	0.0%	25	8.2%	2,882	6.0%
2020	Total Ethnicity 2020	42,990	100.0%	3,977	100.0%	2,688	100.0%	D	100.0%	305	100.0%	47,823	100.0%
Total Years	Hispanic	3,020	4.8%	901	9.4%	178	4.8%	D	13.2%	41	5.6%	3,920	5.4%
Total Years	Non-Hispanic	52,020	83.1%	7,979	83.3%	3,189	85.9%	31	81.6%	552	76.0%	60,149	83.0%
Total Years	Unknown	3,735	6.0%	59	0.6%	182	4.9%	D	2.6%	84	11.6%	3,924	5.4%
Total Years	Withheld	3,826	6.1%	635	6.6%	164	4.4%	D	2.6%	49	6.7%	4,479	6.2%
Total Years	Total All Years Ethnicity	62,601	100.0%	9,574	100.0%	3,713	100.0%	38	100.0%	726	100.0%	72,472	100.0%

**Number of Principal Investigators Funded by the National Institutes of Health
By Grant Mechanism and Disability
Fiscal Years 2016-2020**

Fiscal Year	Demographic Category: Disability	Principal Investigators by Grant Mechanism and Disability										All Mechanisms Total	
		Research Grants		Fellowships		Training Grants		Construction Grants		Other Grants		Number	Percent
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
2016	No	33,240	91.6%	3,090	93.2%	2,054	90.9%	13	100.0%	273	89.2%	36,976	91.7%
2016	Unknown	1,035	2.9%	D	D	43	1.9%	0	0.0%	18	5.9%	D	D
2016	Withheld	1,559	4.3%	159	4.8%	119	5.3%	0	0.0%	D	D	1,752	4.3%
2016	Yes	450	1.2%	61	1.8%	44	1.9%	0	0.0%	D	D	532	1.3%
2016	Total Disability 2016	36,284	100.0%	D	100.0%	2,260	100.0%	13	100.0%	306	100.0%	40,333	100.0%
2017	No	34,287	91.6%	3,272	93.4%	2,120	91.5%	D	D	306	89.7%	38,261	91.7%
2017	Unknown	1,083	2.9%	D	D	44	1.9%	0	0.0%	20	5.9%	D	D
2017	Withheld	1,598	4.3%	170	4.9%	112	4.8%	0	0.0%	D	3.2%	1,807	4.3%
2017	Yes	458	1.2%	54	1.5%	42	1.8%	0	0.0%	D	1.2%	526	1.3%
2017	Total Disability 2017	37,426	100.0%	D	100.0%	2,318	100.0%	D	100.0%	341	100.0%	41,722	100.0%
2018	No	36,275	91.5%	3,377	94.8%	2,208	91.1%	D	100.0%	272	87.5%	40,337	91.7%
2018	Unknown	1,209	3.1%	D	D	50	2.1%	0	0.0%	20	6.4%	1,256	2.9%
2018	Withheld	1,652	4.2%	135	3.8%	122	5.0%	0	0.0%	13	4.2%	1,825	4.1%
2018	Yes	498	1.3%	42	1.2%	44	1.8%	0	0.0%	D	D	562	1.3%
2018	Total Disability 2018	39,634	100.0%	D	100.0%	2,424	100.0%	D	100.0%	311	100.0%	43,980	100.0%
2019	No	38,223	91.5%	3,513	94.4%	2,288	91.2%	13	92.9%	351	87.1%	42,491	91.6%
2019	Unknown	1,357	3.2%	D	D	54	2.2%	D	D	29	7.2%	1,416	3.1%
2019	Withheld	1,719	4.1%	133	3.6%	128	5.1%	0	0.0%	17	4.2%	1,899	4.1%
2019	Yes	484	1.2%	65	1.7%	39	1.6%	0	0.0%	D	1.5%	565	1.2%
2019	Total Disability 2019	41,783	100.0%	D	100.0%	2,509	100.0%	D	100.0%	403	100.0%	46,371	100.0%
2020	No	39,352	91.5%	3,706	93.2%	2,432	90.5%	D	90.0%	257	84.3%	43,787	91.6%
2020	Unknown	1,480	3.4%	45	1.1%	75	2.8%	D	10.0%	30	9.8%	1,592	3.3%
2020	Withheld	1,697	3.9%	155	3.9%	142	5.3%	0	0.0%	D	D	1,893	4.0%
2020	Yes	461	1.1%	71	1.8%	39	1.5%	0	0.0%	D	D	551	1.2%
2020	Total Disability 2020	42,990	100.0%	3,977	100.0%	2,688	100.0%	D	100.0%	305	100.0%	47,823	100.0%
Total Years	No	56,543	90.3%	8,953	93.5%	3,375	90.9%	36	94.7%	617	85.0%	65,660	90.6%
Total Years	Unknown	2,697	4.3%	62	0.6%	89	2.4%	D	5.3%	68	9.4%	2,851	3.9%
Total Years	Withheld	2,599	4.2%	397	4.1%	189	5.1%	0	0.0%	27	3.7%	3,021	4.2%
Total Years	Yes	762	1.2%	162	1.7%	60	1.6%	0	0.0%	14	1.9%	940	1.3%
Total Years	Total All Years Disability	62,601	100.0%	9,574	100.0%	3,713	100.0%	38	100.0%	726	100.0%	72,472	100.0%