



FY 2011

THE DLR DATA BOOK

Extramural Loan Repayment Programs

Payback Service Center
National Research Service Award

Fiscal Year 2011 Highlights

Fiscal Year period covers
October 1, 2010 to September 30, 2011

Application Cycle:

September 1 - November 15, 2010

NIH Division of Loan Repayment





NIH Institutes and Centers*

Institutes

National Cancer Institute (NCI)

National Eye Institute (NEI)

National Heart, Lung, and Blood Institute (NHLBI)

National Human Genome Research Institute (NHGRI)

National Institute on Aging (NIA)

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

National Institute of Allergy and Infectious Diseases (NIAID)

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

National Institute of Child Health and Human Development (NICHD)

National Institute on Deafness and Other Communication Disorders (NIDCD)

National Institute of Dental and Craniofacial Research (NIDCR)

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

National Institute on Drug Abuse (NIDA)

National Institute of Environmental Health Sciences (NIEHS)

National Institute of General Medical Sciences (NIGMS)

National Institute of Mental Health (NIMH)

National Institute on Minority Health and Health Disparities (NIMHD)

National Institute of Neurological Disorders and Stroke (NINDS)

National Institute of Nursing Research (NINR)

Centers

John E. Fogarty International Center (FIC)

National Center for Complementary and Alternative Medicine (NCCAM)

National Center for Research Resources (NCRR)

* Participating in the Extramural Loan Repayment Programs



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The Year in Review

In Fiscal Year (FY) 2011, 3,159 individuals applied to the five Extramural Loan Repayment Programs (LRPs): Clinical Research, Pediatric Research, Health Disparities Research, Clinical Research for Individuals from Disadvantaged Backgrounds, and Contraception and Infertility Research. Of those applicants, 1,572 were awarded contracts totaling \$72,402,447. The combined (new and renewal applicants) success rate for the Extramural LRPs was 50 percent.

The Extramural Clinical Research LRP received 51 percent (1,604) of all applications.

New applicants (those not previously funded) constituted 61 percent of all applications while renewal applicants (those previously funded) comprised 39 percent of all applicants. Success rates for new and renewal applicants were 39 and 67 percent, respectively.

The LRPs are open to health professionals with doctoral level degrees and varying levels of experience. Most new FY 2011 awardees are beginning their careers, with 62 percent having received their qualifying degrees within the last 5 years and 94 percent within the past 10 years.

Physician doctorates (including dual physician doctorates and academic doctorates, for example, MD/PhD degrees) comprised 51 percent of the 1,572 awards, while those with academic doctoral level degrees comprised 47 percent of the total awards.

Seventy-five percent of the new awardees had educational debt greater than \$50,000, with 10 percent having debt levels greater than \$200,000.

Women received 853 of the 1,572 LRP awards. Black/African American applicants received 118 awards. Asians received 171 awards. Hispanics received 86 awards. American Indians/Alaska Natives were recipients of 9 awards.

The Division of Loan Repayment offers multiple resources for assisting applicants. This includes two webinars that have been watched over 7,000 times. An *Overview of the Loan Repayment Programs* summarizes the programs and gives tips for applying, and the *Application Tutorial* outlines the four sections of the application and shows applicants how to avoid common pitfalls. The LRP web site www.lrp.nih.gov contains links for both webinars.



The Five Extramural Loan Repayment Programs

Clinical Research LRP:

Clinical research is patient-oriented clinical research conducted with human subjects, or research on the causes and consequences of disease in human populations involving material of human origin (such as tissue specimens and cognitive phenomena) for which an investigator or colleague directly interacts with human subjects in an outpatient or inpatient setting to clarify a problem in human physiology, pathophysiology or disease, or epidemiologic or behavioral studies, outcomes research or health services research, or developing new technologies, therapeutic interventions, or clinical trials.

Pediatric Research LRP:

Qualified Pediatric Research is defined as research directly related to diseases, disorders, and other conditions in children.

Health Disparities Research LRP:

The scope of research qualified for this program includes basic research, clinical research or behavioral research directly related to health disparity populations and the medically underserved. Group is defined as a health disparity population: if there is a significant disparity in the overall rate of disease incidence, prevalence, morbidity, mortality, or survival rates in the population as compared to the health status of the general population.

Clinical Research for Individuals from Disadvantaged Backgrounds LRP:

For this program, an individual from a disadvantaged background is defined according to low family income levels set by the U.S. Bureau of the Census – as published in the Federal Register.

To meet this low-income requirement candidates must demonstrate their disadvantaged status by submitting (1) a written statement from former school(s) where he/she qualified for Federal disadvantaged assistance, (2) verification of receipt of loans from either the Health Professions Student Loans (HPSL) or Loans for Disadvantaged Student Program, or (3) verification of a scholarship from the U.S. Department of Health and Human Services under the Scholarship for Individuals with Exceptional Financial Need.

Contraception and Infertility Research LRP:

Contraception research is defined as research whose ultimate goal is to provide new or improved methods of preventing pregnancy. Infertility research is defined as research whose long-range objective is to evaluate, treat, or ameliorate conditions which result in the failure of couples to either conceive or bear young.



Applications, Awards, and Success Rates New and Renewal by Program

NIH received 3,159 applications

- 61 percent of the applications were from new applicants
- 50 percent of all applicants were awarded

LRP	New			Renewal			Total		
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	Applications	Awards	Success Rate
Clinical Research	959	404	42%	645	468	73%	1,604	872	54%
Pediatric Research	506	185	37%	307	227	74%	813	412	51%
Health Disparities Research	383	122	32%	240	110	46%	623	232	37%
Clinical Research for Individuals from Disadvantaged Backgrounds	35	17	49%	12	9	75%	47	26	55%
Contraception and Infertility Research	52	19	37%	20	11	55%	72	30	42%
Total	1,935	747	39%	1,224	825	67%	3,159	1,572	50%

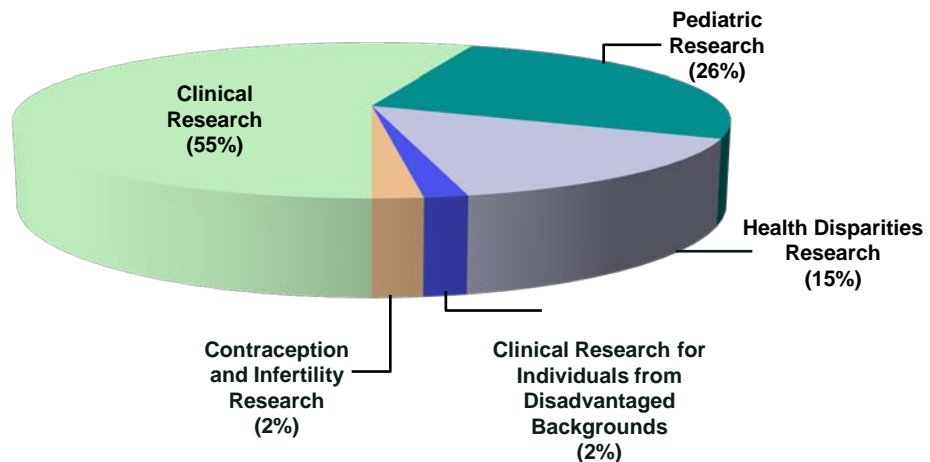


Funding

New and Renewal by Program

LRP	New		Renewal		Total	
	Awards	Funding	Awards	Funding	Awards	Funding
■ Clinical Research	404	\$25,278,584	468	\$15,174,929	872	\$40,453,513
■ Pediatric Research	185	\$11,372,915	227	\$7,039,978	412	\$18,412,893
■ Health Disparities Research	122	\$6,763,239	110	\$3,690,634	232	\$10,453,873
■ Clinical Research for Individuals from Disadvantaged Backgrounds	17	\$1,310,158	9	\$440,324	26	\$1,750,482
■ Contraception and Infertility Research	19	\$1,112,780	11	\$218,906	30	\$1,331,686
Total	747	\$45,837,676	825	\$26,564,771	1,572	\$72,402,447

Percent of Total Awards by LRP





Funding by NIH Institutes and Centers New Awards

IC	Awards	Funding
NIMHD	139	\$8,073,397
NCI	100	\$6,648,549
NHLBI	88	\$5,927,004
NICHD	60	\$3,579,513
NIAID	51	\$3,041,676
NIMH	50	\$2,711,110
NCRR	42	\$1,969,636
NIDDK	40	\$2,899,530
NIDA	34	\$2,071,962
NIA	29	\$1,660,085
NINDS	28	\$2,270,888
NIAMS	17	\$992,710
NIAAA	14	\$690,208
NEI	13	\$785,628
NIEHS	9	\$377,952
NIGMS	7	\$586,136

IC	Awards	Funding
NIDCR	7	\$521,784
NIDCD	7	\$472,079
NCCAM	5	\$239,587
NHGRI	4	\$144,148
NIBIB	2	\$137,901
NINR	1	\$36,193
Total	747	\$45,837,676

**22 Institutes and Centers funded
at least one new LRP contract
in FY 2011**



Funding by NIH Institutes and Centers Renewal Awards

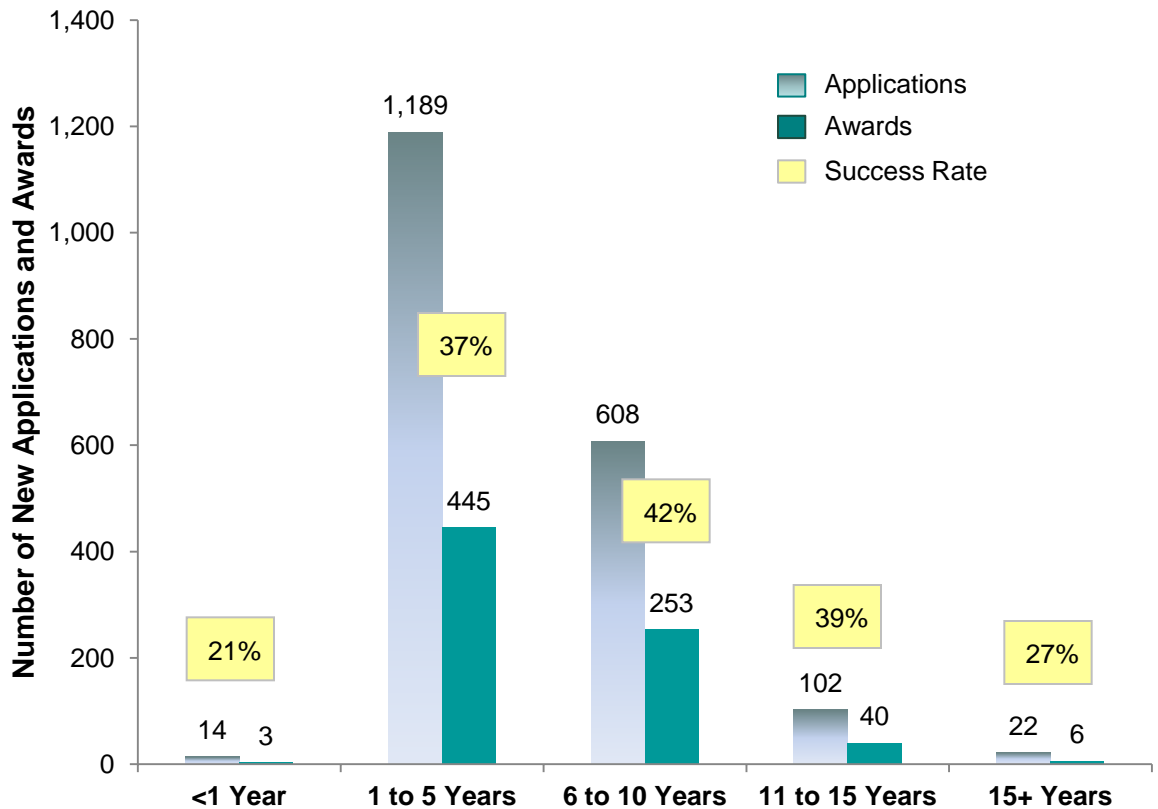
IC	Awards	Funding
NIMHD	119	\$4,130,958
NCI	102	\$3,574,231
NHLBI	85	\$3,824,754
NICHD	79	\$1,966,689
NIMH	79	\$1,963,125
NIAID	70	\$2,602,922
NIDA	62	\$1,437,566
NINDS	34	\$1,225,476
NIDDK	33	\$1,106,859
NCRR	28	\$830,790
NIAAA	26	\$821,011
NIA	26	\$581,637
NIAMS	20	\$838,561
NEI	19	\$761,426
NIEHS	11	\$199,350
NIDCD	11	\$169,729

IC	Awards	Funding
NCCAM	7	\$149,865
NIDCR	6	\$138,465
NIGMS	4	\$116,857
NHGRI	3	\$92,950
NIBIB	1	\$31,550
Total	825	\$26,564,771

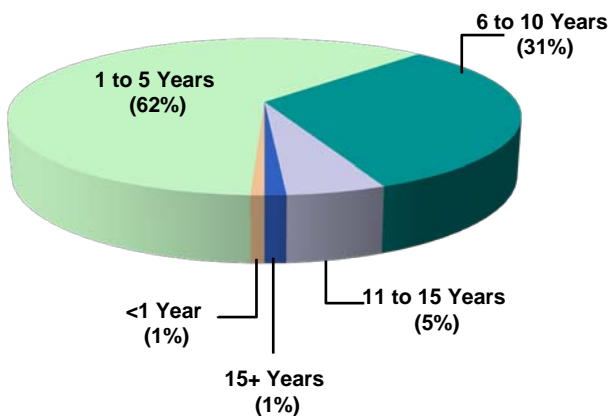
**21 Institutes and Centers funded
at least one renewal LRP contract
in FY 2011**

Applications, Awards, and Success Rates

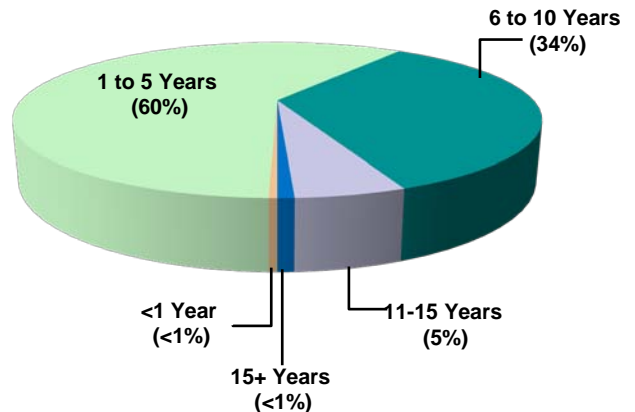
New Applicants and Awardees by Post-Degree Years



Distribution of Applications



Distribution of Awards





LRP Awards by Doctoral Degree New Awards

LRP	Physician Doctorate	Professional Clinical Doctorate	Academic Doctorate	Physician Doctorate / Academic Doctorate	Total
Clinical Research	190	10	166	38	404
Pediatric Research	86	2	80	17	185
Health Disparities Research	27	0	94	1	122
Clinical Research for Individuals from Disadvantaged Backgrounds	8	1	7	1	17
Contraception and Infertility Research	8	1	7	1	17
Total	319	14	354	58	745

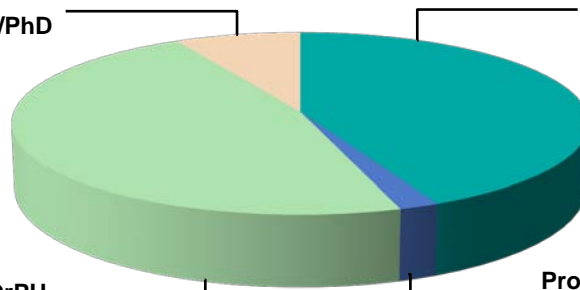
Distribution of New Awards by Degree

Physician Doctorate / Academic Doctorate:
58 (8%) held dual MD/PhD degrees.

Physician Doctorate:
319 (43%) held MD or DO degrees.

Academic Doctorate:
354 (47%) held PhD, DrPH, EdD, or ScD degrees.

Professional Clinical Doctorate: 14 (2%) held DDS, DMD, DVM, ND, OD, PharmD, or PsyD degrees.



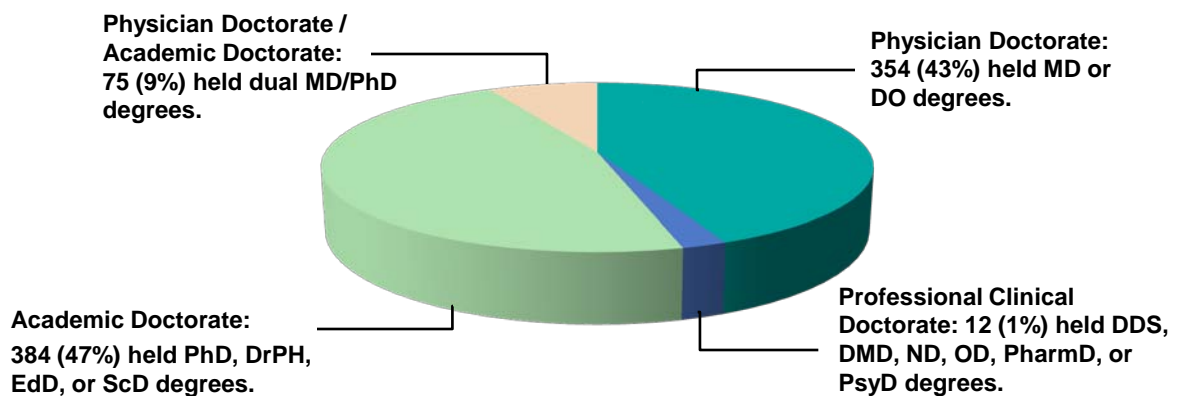
*Does not include New Awardees (2) who did not state their degree.



LRP Awards by Doctoral Degree Renewal Awards

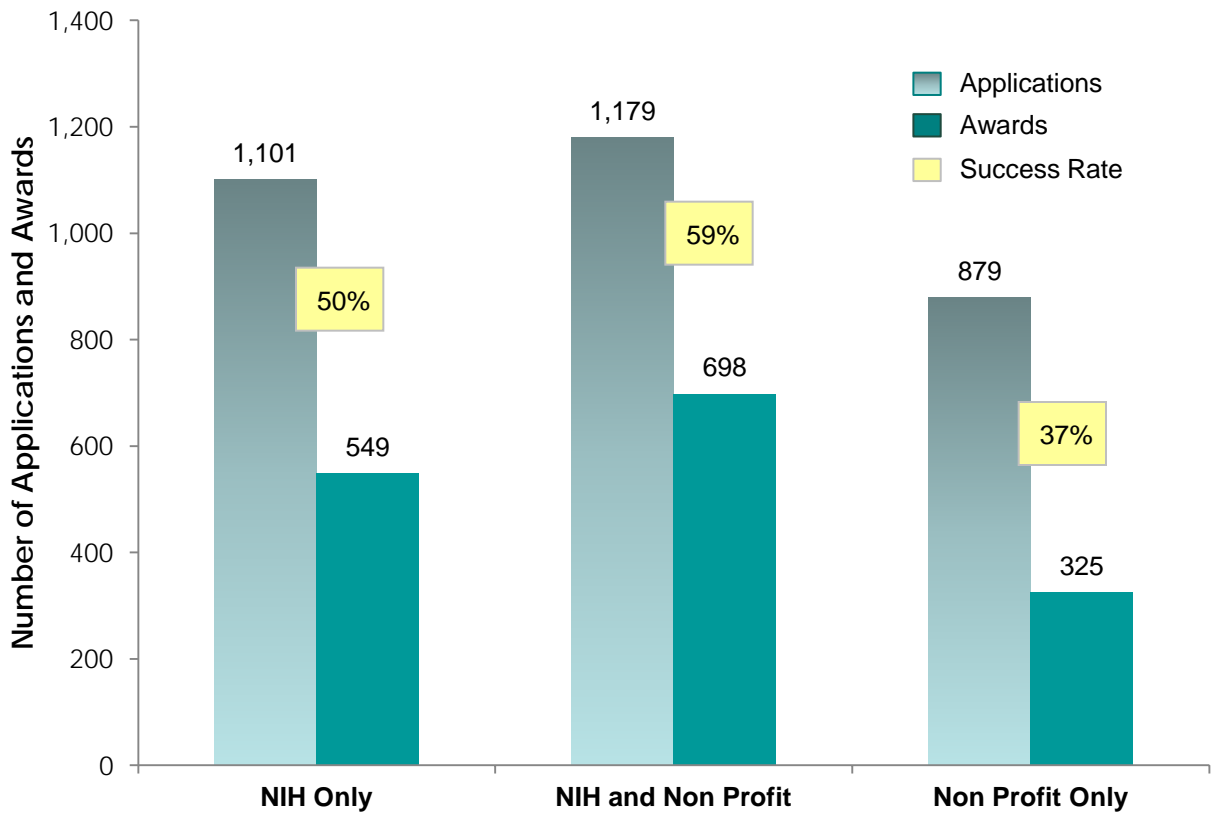
LRP	Physician Doctorate	Professional Clinical Doctorate	Academic Doctorate	Physician Doctorate / Academic Doctorate	Total
Clinical Research	208	9	211	40	468
Pediatric Research	114	2	78	33	227
Health Disparities Research	23	0	86	1	110
Clinical Research for Individuals from Disadvantaged Backgrounds	6	1	2	0	9
Contraception and Infertility Research	3	0	7	1	11
Total	354	12	384	75	825

Distribution of Renewal Awards by Degree





Applications, Awards, and Success Rates New and Renewal by Source of Research Funding





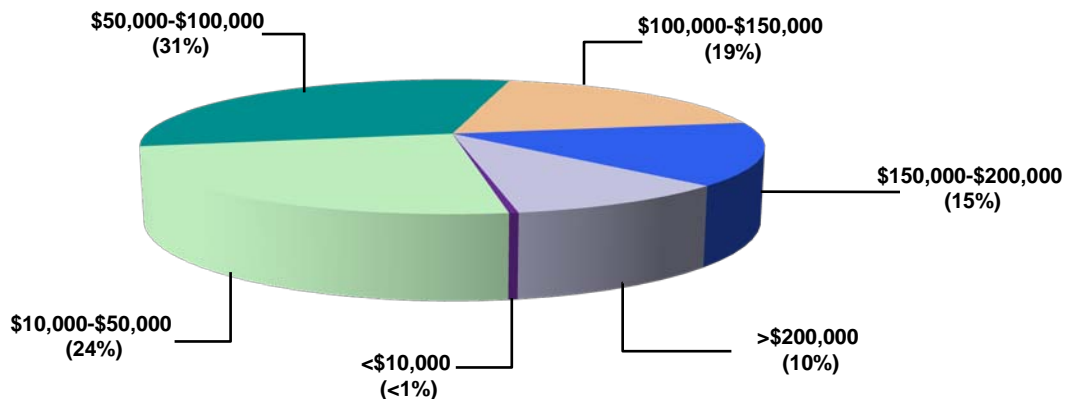
Educational Debt Levels of LRP Awardees New Awards

75 percent of new FY 2011 awardees had educational debt levels in excess of \$50,000

The average debt was \$104,016.

Debt Range	Number of Awardees
Less than \$10,000	3
\$10,000 - \$50,000	182
\$50,000 - \$100,000	236
\$100,000 - \$150,000	139
\$150,000 - \$200,000	113
\$200,000 and over	74
Total	747

Distribution of Awards by Debt Level

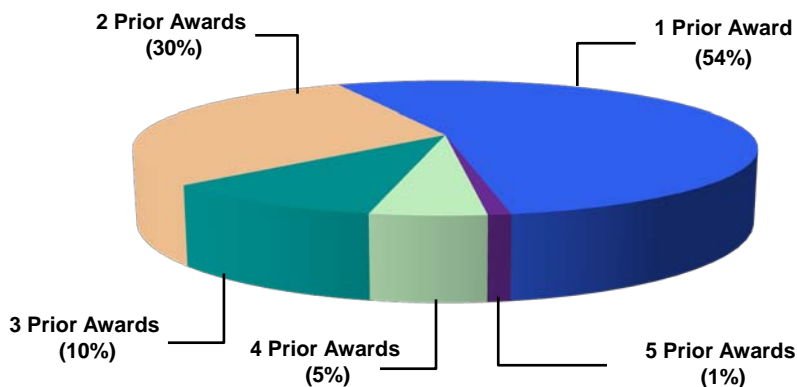




Number of Prior Awards Received Renewal Awards

LRP	1 Prior Award	2 Prior Awards	3 Prior Awards	4 Prior Awards	5 Prior Awards	Total
Clinical Research	256	142	47	18	5	468
Pediatric Research	105	73	29	17	3	227
Health Disparities Research	69	33	4	2	2	110
Clinical Research for Individuals from Disadvantaged Backgrounds	5	0	2	2	0	9
Contraception and Infertility Research	7	1	3	0	0	11
Total	442	249	85	39	10	825

Number of Prior Awards Received by 2011 Renewal Awardees





Applications, Awards, and Success Rates New and Renewal by Gender *

LRP	Male Applicants			Female Applicants			Gender Distribution	
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	% Male Awardees	% Female Awardees
Clinical Research	755	435	58%	812	420	52%	51%	49%
Pediatric Research	331	183	55%	466	221	47%	45%	55%
Health Disparities Research	151	54	36%	461	174	38%	24%	76%
Clinical Research for Individuals from Disadvantaged Backgrounds	13	9	69%	34	17	50%	35%	65%
Contraception and Infertility Research	21	9	43%	51	21	41%	30%	70%
Total*	1,271	690	54%	1,824	853	47%	45%	55%

*Does not include applicants (64) and awardees (29) who did not state their gender.



Awardee Demographics New and Renewal by Ethnicity

LRP	Awards	Hispanic or Latino	Not Hispanic or Latino
Clinical Research	872	36 (4%)	836 (96%)
Pediatric Research	412	15 (4%)	397 (96%)
Health Disparities Research	232	30 (13%)	202 (87%)
Clinical Research for Individuals from Disadvantaged Backgrounds	26	*	*
Contraception and Infertility Research	30	*	*
Total	1,572	86	1,486
Percent of Awards		5%	95%

***Restricted Data** – small-sized datasets cannot be distributed due to participant confidentiality considerations



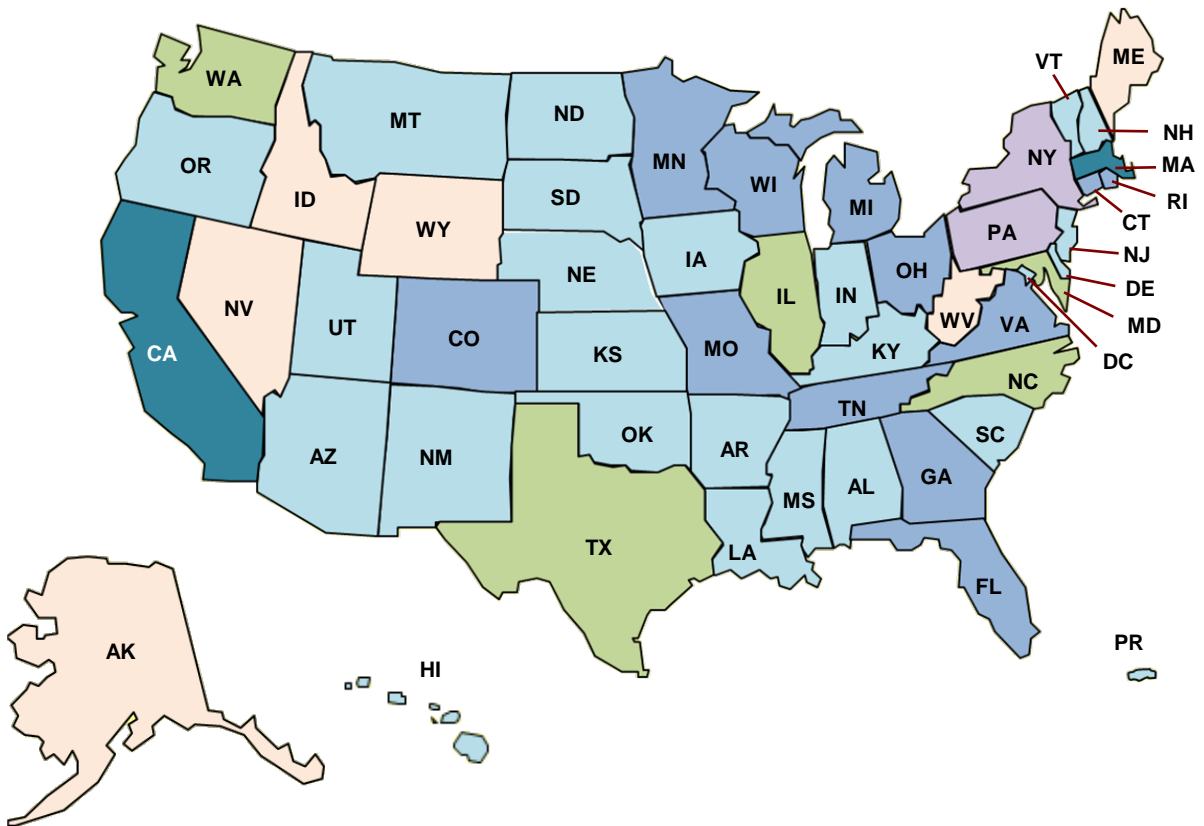
Awardee Demographics New and Renewal by Race

LRP	Awards	American Indian or Alaska Native	Black or African-American	Asian	Native Hawaiian or Other Pacific Islander	White	More Than One Race	Other / No Response
Clinical Research	872	*	27 (3%)	90 (10%)	*	653 (75%)	25 (3%)	74 (8%)
Pediatric Research	412	*	15 (4%)	50 (12%)	*	299 (73%)	8 (2%)	37 (9%)
Health Disparities Research	232	*	68 (29%)	28 (12%)	*	88 (38%)	20 (9%)	23 (10%)
Clinical Research for Individuals from Disadvantaged Backgrounds	26	*	8 (31%)	*	*	7 (27%)	*	*
Contraception and Infertility Research	30	*	*	*	*	22 (73%)	*	*
Total	1,572	9	118	171	2	1,069	59	144
Percent of Awards		*	8%	11%	*	68%	*	9%

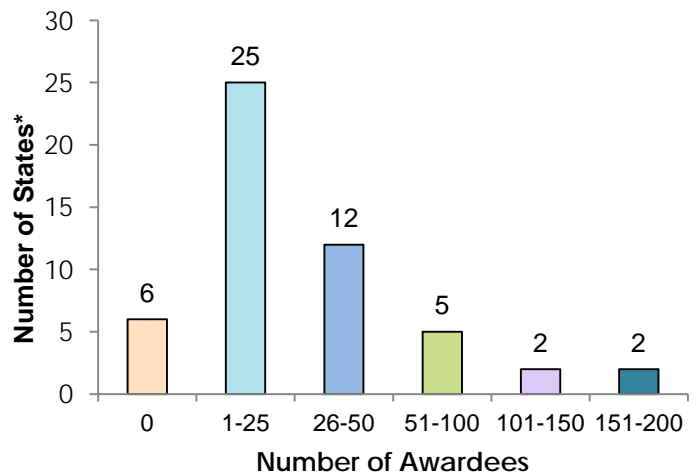
***Restricted Data** – small-sized datasets cannot be distributed due to participant confidentiality considerations



Number of Awardees by State New and Renewal*



Number of Awardees	States
0	AK, ID, ME, NV, WV, WY
1-25	AL, AZ, AR, DE, DC, HI, IN, IA, KS, KY, LA, MS, MT, NE, NH, NJ, NM, ND, OK, OR, PR, SC, SD, UT, VT
26-50	CO, CT, FL, GA, MI, MN, MO, OH, RI, TN, VA, WI
51-100	IL, MD, NC, TX, WA
101-150	NY, PA
151-200	MA, CA



* Does not include 2 awardees who work outside of the United States



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Role of the NRSA Payback Service Center

The National Research Service Award (NRSA) Payback Service Center (PSC) is responsible for monitoring and processing the payback obligation of individuals who received appointments to NIH IC training grants and fellowships under the Ruth L. Kirschstein National Research Service Award.

The NRSA PSC provides this service to all NIH Institutes and Centers (IC) that award training grants and fellowships. If an individual incurs a payback obligation, the awarding NIH IC sends the trainee/fellow file to the PSC. The PSC ensures that the trainee/fellow honors their payback obligation.

The NRSA legislation requires postdoctoral recipients of support to repay the U.S. Government by engaging in health-related biomedical or behavioral research for a length of time equal to the period of NRSA support received up to 12 months. This requirement includes direct administration or review of health-related research, health-related teaching, or any combination of these activities. Postdoctoral trainees and fellows are required to start acceptable payback activities within two years of their award termination. Postdoctoral trainees and fellows who do not engage in payback service can elect to repay their debt financially. Extensions of time to initiate payback service, as well as payback deferrals and waivers, are granted under certain situations and circumstances.

Postdoctoral NRSA recipients with an outstanding payback obligation are required to file a Ruth L. Kirschstein Annual Payback Activities Certification (APAC) form (PHS 6031-1) with the PSC until their payback obligation is fulfilled. A letter with a link to the APAC form is mailed to participants on the anniversary date of their award termination. Each recipient must complete this form to indicate their payback status and report any payback service completed. Upon completion of their payback service, a letter is mailed to the trainee to acknowledge fulfillment of their NRSA obligation.



NRSA Files Processed

A new file is created when the awarding IC sends the trainee/fellow file to the NRSA Payback Service Center. The NRSA PSC received 3,776 new files from 22 different ICs, including the Agency for Healthcare Research and Quality.

A file is officially closed when the trainee/fellow has fulfilled the NRSA payback obligation. The NRSA PSC closed a total of 1,933 files for 22 ICs, including the Agency for Healthcare Research and Quality.

Files are sent to the Office of Financial Management for collection when the trainee/fellow is either unresponsive to letters sent by the NRSA PSC or has elected to fulfill the payback obligation via financial means. The NRSA PSC sent a total of 102 files from 17 ICs to OFM.

One fiscal year after files are officially closed they are sent to the Federal Records Center (FRC) for storage. After six years, the records are destroyed. The NRSA PSC sent a total of 1,747 closed files from 22 different ICs to the FRC.



Notes

**Division of Loan Repayment
Office of Extramural Programs
Office of Extramural Research
Office of the Director
National Institutes of Health
Department of Health and Human Services**

Web sites:

Loan Repayment Programs (LRP)

<http://www.lrp.nih.gov>

National Research Service Award (NRSA)

<http://grants.nih.gov/training/nrsa.htm>

