



# FY 2010

## THE DLR DATA BOOK

Extramural Loan Repayment  
Programs

Payback Service Center  
National Research Service Award

### Fiscal Year 2010 Highlights

Fiscal Year period covers  
October 1, 2009 to September 30, 2010

### Application Cycle:

September 1 - December 1, 2009

**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 of Neurological Disorders and Stroke (NINDS)**

**National Institute of Nursing Research (NINR)**

**National Library of Medicine (NLM)**

### Centers

**John E. Fogarty International Center (FIC)**

**National Center for Complementary and Alternative Medicine (NCCAM)**

**National Center on Minority Health and Health Disparities (NCMHD)**

**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) 2010, 3,217 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, 1,584 were awarded contracts totaling \$75,543,460.14. The combined (new and renewal applicants) success rate for the Extramural LRPs was 49 percent.

The Extramural Clinical Research LRP received 55 percent (1,771) of all applications.

New applicants (those not previously funded) constituted 64 percent of all applications while renewal applicants (those previously funded) comprised 36 percent of all applicants. Success rates for new and renewal applicants were 38 and 69 percent, respectively.

The LRPs are open to health professionals with doctoral level degrees and varying levels of experience. Most new FY 2010 awardees are beginning their careers, with 57 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 55 percent of the 1,584 awards, while those with academic doctoral level degrees comprised 43 percent of the total awards.

Seventy-seven percent of the new awardees had educational debt greater than \$50,000, with 5 percent having debt levels greater than \$200,000. In comparison, 36 percent of the renewal awardees had educational debt greater than \$50,000, with 1 percent having debt levels greater than \$200,000.

Women received 841 of the 1,584 LRP awards. Black/African American applicants received 116 awards, Asians received 179 awards, Hispanics received 97 awards, and American Indians/Alaska Natives were recipients of 13 awards.



## The Five Extramural Loan Repayment Programs

### Clinical Research LRP:

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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:

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

### Health Disparities Research LRP:

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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:

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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:

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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 By Program

**NIH received 3,217 applications**

- 64 percent of the applications were from new applicants
- 49 percent of all applicants were awarded

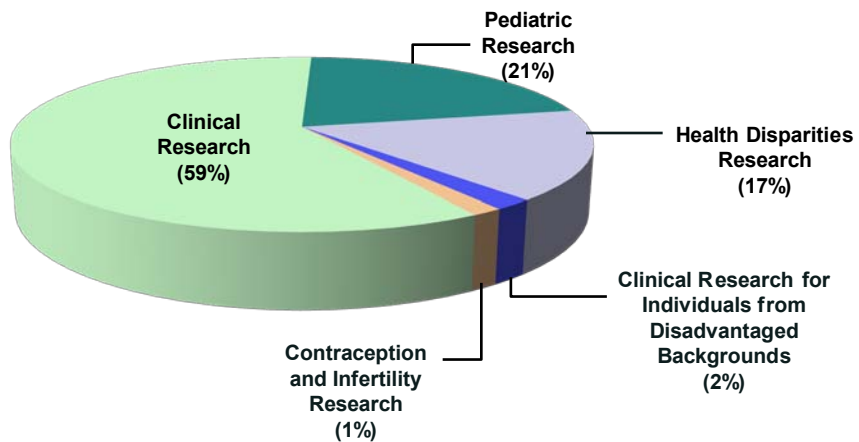
LRP	New			Renewal			Total		
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	Applications	Awards	Success Rate
Clinical Research	1,123	464	41%	648	470	73%	1,771	934	53%
Pediatric Research	424	159	38%	281	176	63%	705	335	48%
Health Disparities Research	419	126	30%	211	136	64%	630	262	42%
Clinical Research for Individuals from Disadvantaged Backgrounds	37	14	38%	18	16	89%	55	30	55%
Contraception and Infertility Research	45	15	33%	11	8	73%	56	23	41%
<b>Total</b>	<b>2,048</b>	<b>778</b>	<b>38%</b>	<b>1,169</b>	<b>806</b>	<b>69%</b>	<b>3,217</b>	<b>1,584</b>	<b>49%</b>



## Funding By Program

LRP	New		Renewal		Total	
	Awards	Funding	Awards	Funding	Awards	Funding
<span style="color: green;">■</span> Clinical Research	464	\$29,510,099	470	\$15,422,348	934	\$44,932,447
<span style="color: teal;">■</span> Pediatric Research	159	\$10,552,141	176	\$5,721,332	335	\$16,273,473
<span style="color: purple;">■</span> Health Disparities Research	126	\$7,020,941	136	\$4,826,285	262	\$11,847,226
<span style="color: blue;">■</span> Clinical Research for Individuals from Disadvantaged Backgrounds	14	\$887,972	16	\$576,400	30	\$1,464,372
<span style="color: orange;">■</span> Contraception and Infertility Research	15	\$684,957	8	\$340,985	23	\$1,025,942
<b>Total</b>	<b>778</b>	<b>\$48,656,110</b>	<b>806</b>	<b>\$26,887,350</b>	<b>1584</b>	<b>\$75,543,460</b>

**Percent of Total Awards by LRP**





## Funding by NIH Institutes and Centers

### New Awards

IC	Awards	Funding
NCMHD	140	\$7,908,913
NCI	101	\$6,869,933
NHLBI	93	\$6,472,521
NIAID	65	\$4,376,593
NICHD	64	\$3,978,755
NIDDK	51	\$3,550,562
NIMH	50	\$3,083,291
NIA	37	\$1,761,600
NIDA	35	\$2,190,116
NINDS	28	\$1,822,991
NCRR	25	\$1,468,404
NIAAA	17	\$927,418
NIAMS	17	\$999,627
NIDCD	14	\$638,951
NIGMS	10	\$554,167
NEI	8	\$529,093
NIDCR	5	\$238,573

IC	Awards	Funding
NCCAM	4	\$353,802
NIEHS	4	\$254,455
NHGRI	3	\$173,581
NLM	3	\$180,720
NIBIB	2	\$172,719
NINR	1	\$46,187
FIC	1	\$103,138
<b>Total</b>	<b>778</b>	<b>\$48,656,110</b>

**24 Institutes and Centers funded  
at least one new LRP contract  
in FY 2010**





## Funding by NIH Institutes and Centers Renewal Awards

IC	Awards	Funding
NCMHD	152	\$5,402,684
NCI	98	\$3,352,964
NHLBI	83	\$4,091,506
NIDA	63	\$1,303,902
NIMH	55	\$1,549,455
NIAID	51	\$1,460,344
NICHD	50	\$1,562,186
NINDS	32	\$986,328
NIA	37	\$738,786
NCRR	37	\$1,216,681
NIAAA	29	\$611,779
NIDDK	28	\$1,409,935
NEI	22	\$1,023,673
NIAMS	21	\$754,488
NIDCD	20	\$458,721
NIEHS	10	\$258,324

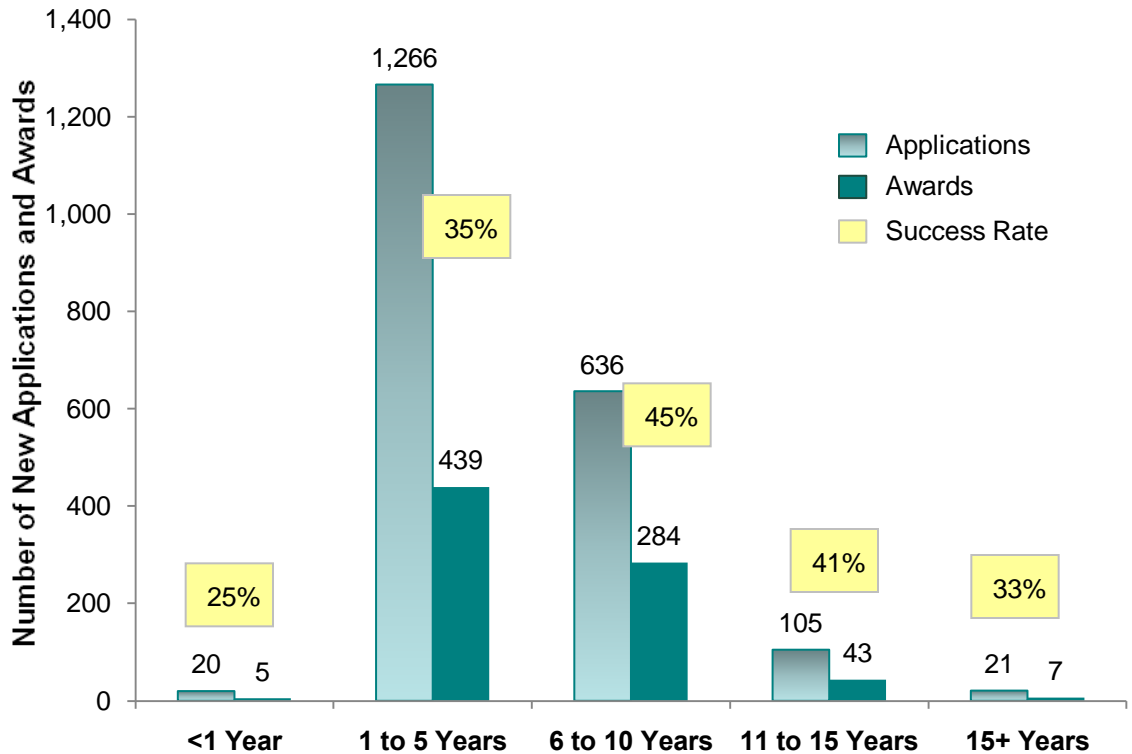
IC	Awards	Funding
NIDCR	8	\$377,035
NCCAM	5	\$100,327
NHGRI	2	\$60,881
NIGMS	2	\$148,920
NLM	1	\$18,428
<b>Total</b>	<b>806</b>	<b>\$26,887,350</b>

**21 Institutes and Centers funded  
at least one renewal LRP contract  
in FY 2010**

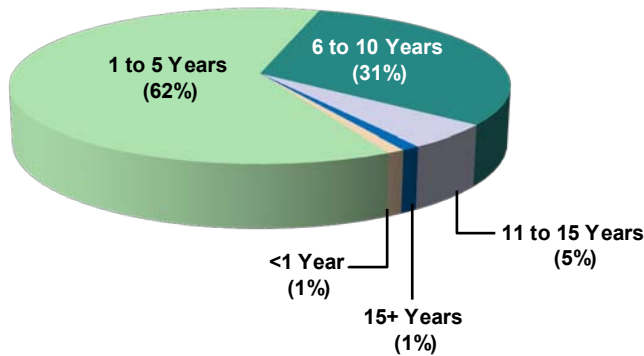


# Applications, Awards, and Success Rates

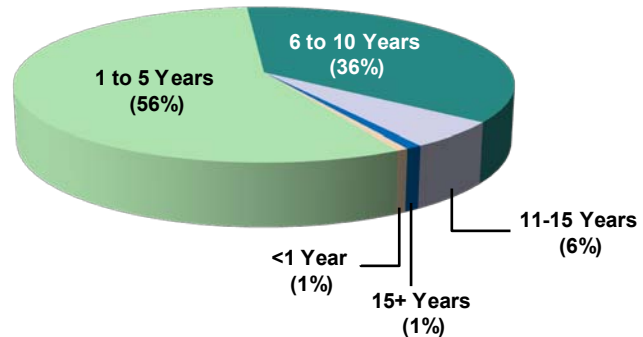
## New Applicants and Awardees By Post-Degree Years



Distribution of Applications



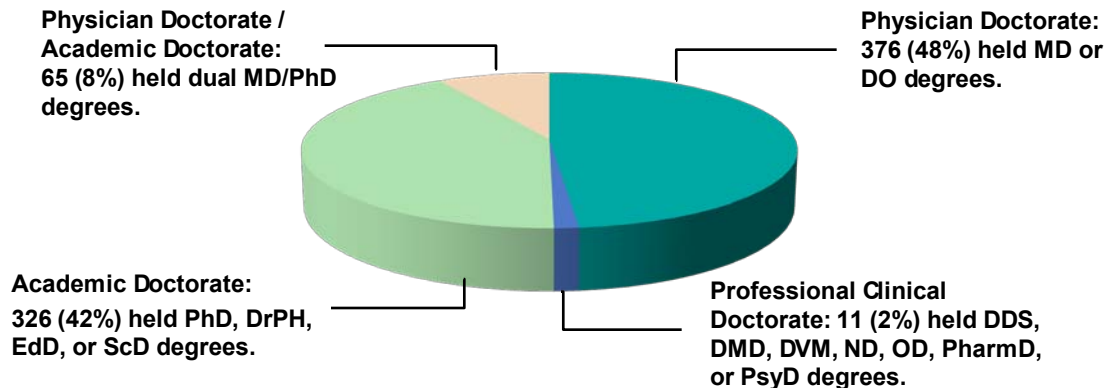
Distribution of Awards





## LRP Awards by Doctoral Degree New Awards

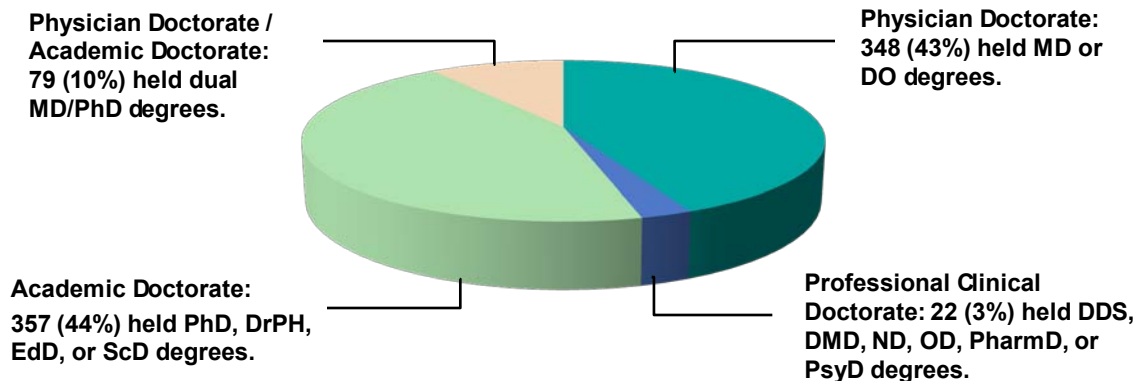
LRP	Physician Doctorate	Professional Clinical Doctorate	Academic Doctorate	Physician Doctorate / Academic Doctorate	Total
Clinical Research	235	9	177	43	464
Pediatric Research	91	2	48	18	159
Health Disparities Research	34	0	89	3	126
Clinical Research for Individuals from Disadvantaged Backgrounds	11	0	3	0	14
Contraception and Infertility Research	5	0	9	1	15
<b>Total</b>	<b>376</b>	<b>11</b>	<b>326</b>	<b>65</b>	<b>778</b>





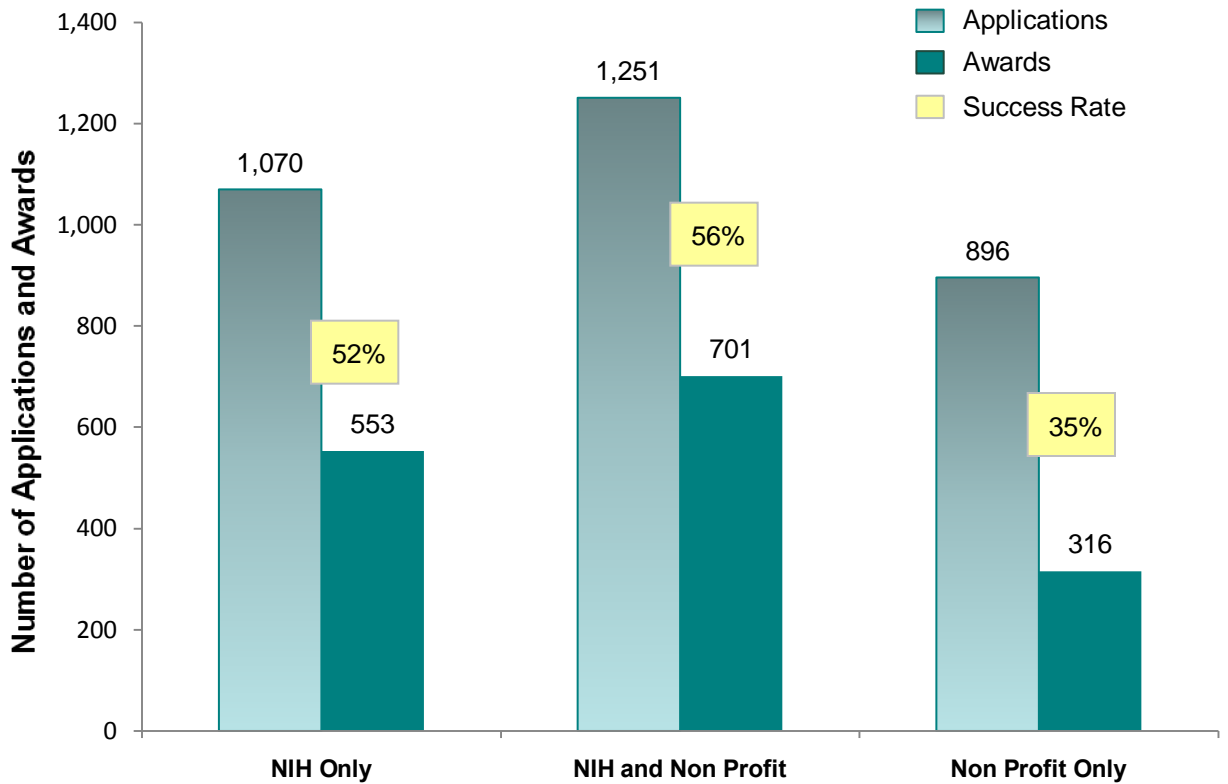
## LRP Awards by Doctoral Degree Renewal Awards

LRP	Physician Doctorate	Professional Clinical Doctorate	Academic Doctorate	Physician Doctorate / Academic Doctorate	Total
Clinical Research	223	21	183	43	470
Pediatric Research	86	1	60	29	176
Health Disparities Research	22	0	109	5	136
Clinical Research for Individuals from Disadvantaged Backgrounds	12	0	4	0	16
Contraception and Infertility Research	5	0	1	2	8
<b>Total</b>	<b>348</b>	<b>22</b>	<b>357</b>	<b>79</b>	<b>806</b>





## Applications, Awards, and Success Rates By Source of Research Funding





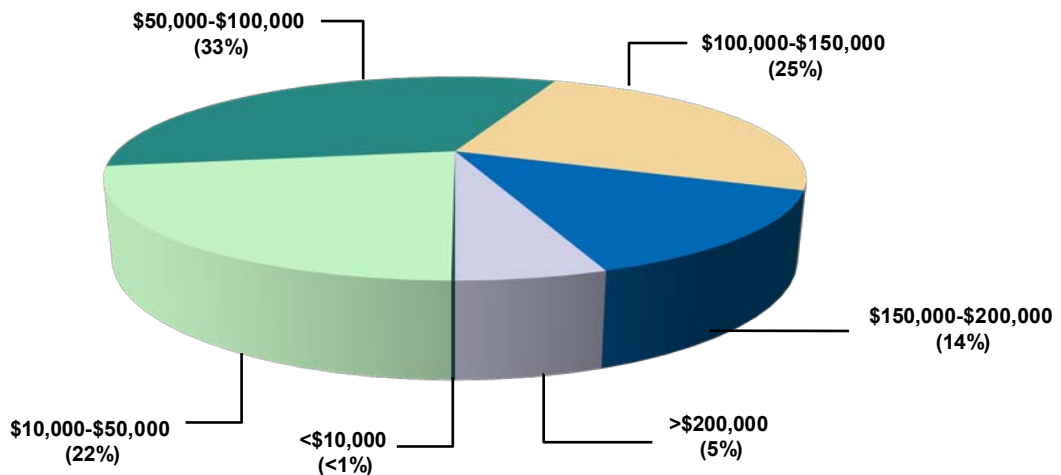
## Educational Debt Levels of LRP Awardees New Awards

**77 percent of new FY 2010 awardees had educational debt levels in excess of \$50,000**

**The average debt was \$97,891.**

Debt Range	Number of Awardees
Less than \$10,000	1
\$10,000 - \$50,000	175
\$50,000 - \$100,000	260
\$100,000 - \$150,000	195
\$150,000 - \$200,000	105
\$200,000 and over	42
<b>Total</b>	<b>778</b>

**Distribution of Awards by Debt Level**





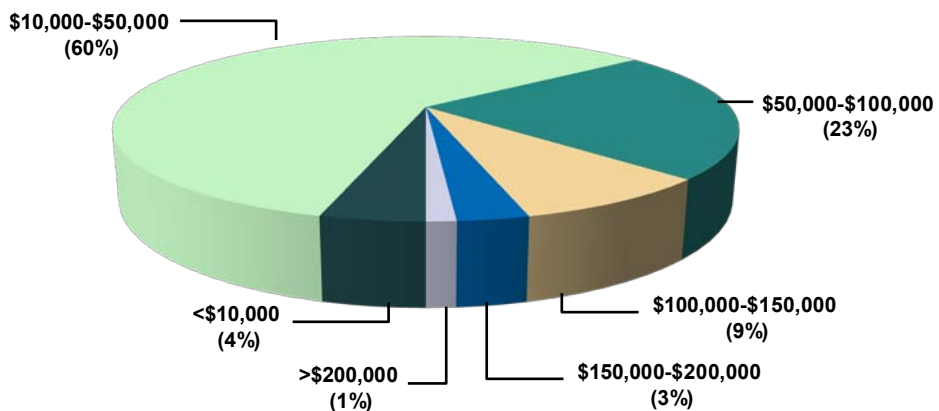
## Educational Debt Levels of LRP Awardees Renewal Awards

**36 percent of renewal FY 2010 awardees had educational debt levels in excess of \$50,000**

**The average debt was \$50,253.**

Debt Range	Number of Awardees
Less than \$10,000	35
\$10,000 - \$50,000	484
\$50,000 - \$100,000	184
\$100,000 - \$150,000	69
\$150,000 - \$200,000	24
\$200,000 and over	10
<b>Total</b>	<b>806</b>

**Distribution of Awards by Debt Level**





## Applications, Awards, and Success Rates By Gender

LRP	Male Applicants			Female Applicants			Gender Distribution	
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	% Male Awardees	% Female Awardees
Clinical Research	849	479	56%	876	432	49%	53%	47%
Pediatric Research	308	153	50%	381	173	45%	47%	53%
Health Disparities Research	168	60	36%	453	198	44%	23%	77%
Clinical Research for Individuals from Disadvantaged Backgrounds	19	12	63%	34	18	53%	40%	60%
Contraception and Infertility Research	10	3	30%	46	20	43%	13%	87%
<b>Total*</b>	<b>1,354</b>	<b>707</b>	<b>52%</b>	<b>1,790</b>	<b>841</b>	<b>47%</b>	<b>46%</b>	<b>54%</b>

\* Does not include applicants (73) and awardees (36) who did not state their gender.





## Awardee Demographics By Ethnicity

LRP	Awards	Hispanic or Latino	Not Hispanic or Latino
Clinical Research	934	39 (4%)	895 (96%)
Pediatric Research	335	13 (4%)	322 (96%)
Health Disparities Research	262	32 (12%)	230 (88%)
Clinical Research for Individuals from Disadvantaged Backgrounds	30	9 (30%)	21 (70%)
Contraception and Infertility Research	23	*	*
<b>Total</b>	<b>1,584</b>	<b>97</b>	<b>1,487</b>
<b>Percent of Awards</b>		<b>6%</b>	<b>94%</b>

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



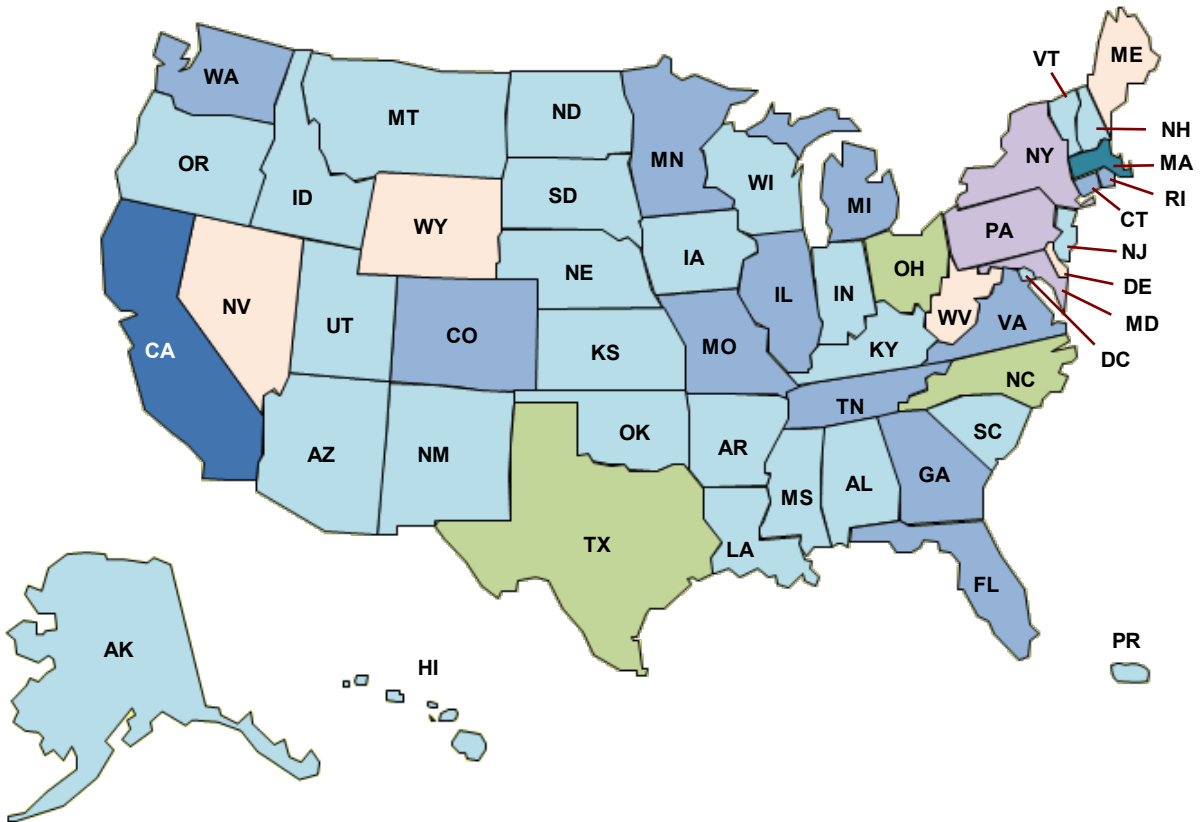
## Awardee Demographics By Race

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	934	*	23 (2%)	116 (12%)	*	698 (75%)	13 (1%)	81 (9%)
Pediatric Research	335	*	6 (2%)	31 (9%)	*	249 (74%)	6 (2%)	42 (13%)
Health Disparities Research	262	*	77 (29%)	24 (9%)	*	105 (40%)	16 (6%)	31 (12%)
Clinical Research for Individuals from Disadvantaged Backgrounds	30	*	9 (30%)	*	*	11 (37%)	*	*
Contraception and Infertility Research	23	*	*	*	*	15 (65%)	*	*
<b>Total</b>	<b>1,584</b>	<b>13</b>	<b>116</b>	<b>179</b>	<b>2</b>	<b>1,078</b>	<b>36</b>	<b>160</b>
<b>Percent of Awards</b>		*	7%	11%	*	68%	*	10%

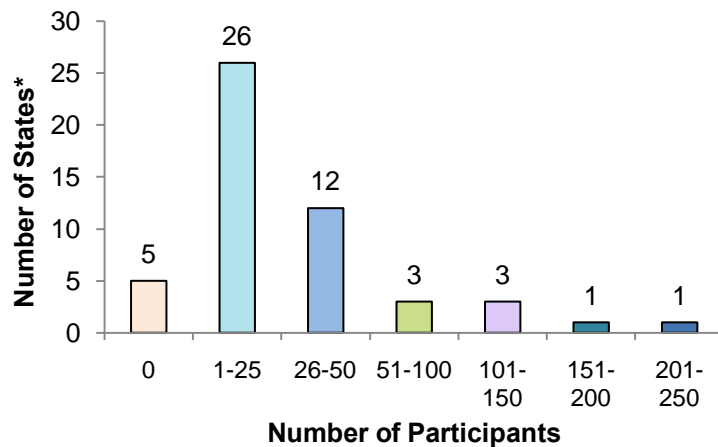
\* **Restricted Data** – small-sized datasets cannot be distributed due to participant confidentiality considerations



## Number of Awardees by State



Number of Participants	States
0	DE, ME, NV, WV, WY
1-25	AL, AK, AZ, AR, DC, HI, ID, IA, KS, KY, LA, MS, MT, NE, NH, NJ, NM, ND, OK, OR, PR, SC, SD, UT, VT, WI
26-50	CO, CT, FL, GA, IL, MI, MN, MO, RI, TN, VA, WA
51-100	NC, OH, TX
101-150	MD, NY, PA
151-200	MA
201-250	CA





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## Role of the 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 “pay back” 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 begin engaging in acceptable payback activities within two years of their award termination. Postdoctoral trainees and fellows who do not engage in payback service can elect to pay back 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 Institute or Center (IC) sends the trainee/fellow file to the NRSA Payback Service Center. The NRSA PSC received 2,042 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 1,825 files for the 22 institutes and centers, 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 223 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 1,610 closed files from 22 different ICs to the FRC.



**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 Program (LRP)**

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

**National Research Service Award (NRSA)**

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

