



FY 2009

# THE DLR DATA BOOK

Extramural Loan Repayment  
Programs

Payback Service Center  
National Research Service Award

## Fiscal Year 2009 Highlights

Fiscal Year period covers  
October 1, 2008 to September 30, 2009

## Application Cycle:

September 1 - December 3, 2008

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) 2009, 3,391 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, 1,604 were awarded contracts totaling \$73,577,093.95. The combined (new and renewal applicants) success rate for the Extramural LRPs was 47 percent.

The Extramural Clinical Research LRP received 53 percent (1,810) of all applications.

New applicants (those not previously funded) constituted 63 percent of all applications while renewal applicants (those previously funded) comprised 37 percent of all applicants. Success rates for new and renewal applicants were 36 and 67 percent, respectively.

The LRPs are open to health professionals with doctoral level degrees and varying levels of experience. Most new FY 2009 awardees are beginning their careers, with 58 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 52 percent of the 1,604 awards, while those with academic doctoral level degrees comprised 45 percent of the total awards.

Seventy-four percent of the new awardees had educational debt greater than \$50,000, with 10 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 857 of the 1,604 LRP awards. Black/African American applicants received 143 awards, Asians received 149 awards, Hispanics received 90 awards, and American Indians/Alaska Natives were recipients of 9 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 3,391 applications**

- 63 percent of the applications were from new applicants
- 47 percent of all applicants were awarded

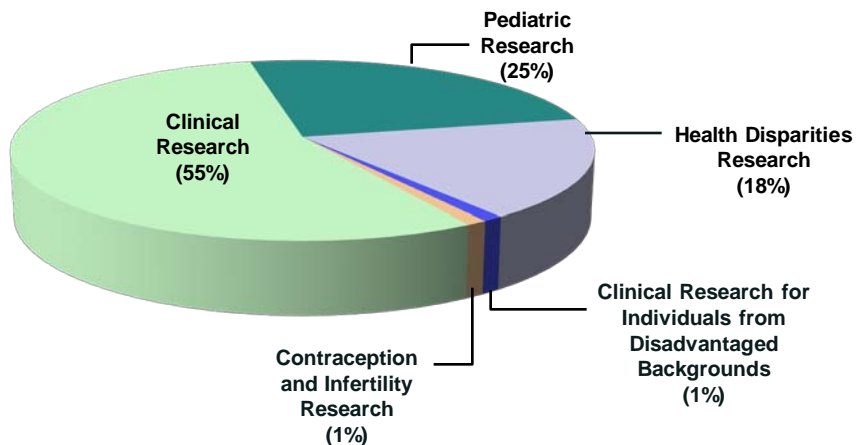
LRP	New			Renewal			Total		
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	Applications	Awards	Success Rate
Clinical Research	1,135	410	36%	675	469	69%	1,810	879	49%
Pediatric Research	528	175	33%	313	213	68%	841	388	46%
Health Disparities Research	426	168	39%	223	127	57%	649	295	45%
Clinical Research for Individuals from Disadvantaged Backgrounds	18	8	44%	17	10	59%	35	18	51%
Contraception and Infertility Research	42	15	36%	14	9	64%	56	24	43%
<b>Total</b>	<b>2,149</b>	<b>776</b>	<b>36%</b>	<b>1,242</b>	<b>828</b>	<b>67%</b>	<b>3,391</b>	<b>1,604</b>	<b>47%</b>



## Funding By Program

LRP	New		Renewal		Total	
	Awards	Funding	Awards	Funding	Awards	Funding
 Clinical Research	410	\$25,283,155	469	\$15,003,604	879	\$40,286,759
 Pediatric Research	175	\$10,593,784	213	\$7,556,603	388	\$18,150,387
 Health Disparities Research	168	\$9,122,712	127	\$4,009,777	295	\$13,132,490
 Clinical Research for Individuals from Disadvantaged Backgrounds	8	\$624,418	10	\$314,048	18	\$938,466
 Contraception and Infertility Research	15	\$864,055	9	\$204,937	24	\$1,068,992
<b>Total</b>	<b>776</b>	<b>\$46,488,125</b>	<b>828</b>	<b>\$27,088,969</b>	<b>1,604</b>	<b>\$73,577,094</b>

**Percent of Total Awards by LRP**





## Funding by NIH Institutes and Centers New Awards

IC	Awards	Funding
NCMHD	176	\$9,747,131
NHLBI	83	\$5,757,479
NCI	79	\$4,904,812
NIAID	66	\$4,397,973
NICHD	62	\$3,752,866
NIMH	55	\$2,900,430
NIDDK	51	\$3,525,881
NIDA	39	\$2,413,371
NINDS	22	\$1,297,334
NIA	21	\$974,200
NCRR	20	\$1,092,424
NIAAA	20	\$1,075,814
NIAMS	19	\$1,182,157
NIDCD	13	\$671,608
NIGMS	12	\$675,346
NEI	9	\$556,001

IC	Awards	Funding
NIDCR	7	\$415,799
NIEHS	6	\$254,795
NHGRI	5	\$223,940
NCCAM	4	\$279,492
NLM	3	\$178,360
NINR	2	\$40,049
NIBIB	2	\$170,864
<b>Total</b>	<b>776</b>	<b>\$46,488,125</b>

**23 Institutes and Centers funded  
at least one new LRP contract  
in FY 2009**





## Funding by NIH Institutes and Centers Renewal Awards

IC	Awards	Funding
NCMHD	137	\$4,323,825
NHLBI	84	\$3,397,748
NCI	73	\$3,149,013
NIAID	70	\$2,259,345
NIMH	70	\$1,674,900
NIDA	59	\$1,110,692
NICHD	53	\$1,590,223
NINDS	45	\$1,515,884
NIA	44	\$1,526,328
NCRR	42	\$1,673,009
NIDDK	36	\$1,463,392
NIAAA	25	\$509,187
NEI	23	\$1,013,151
NIDCD	16	\$498,689
NIAMS	15	\$598,854
NIDCR	9	\$300,816

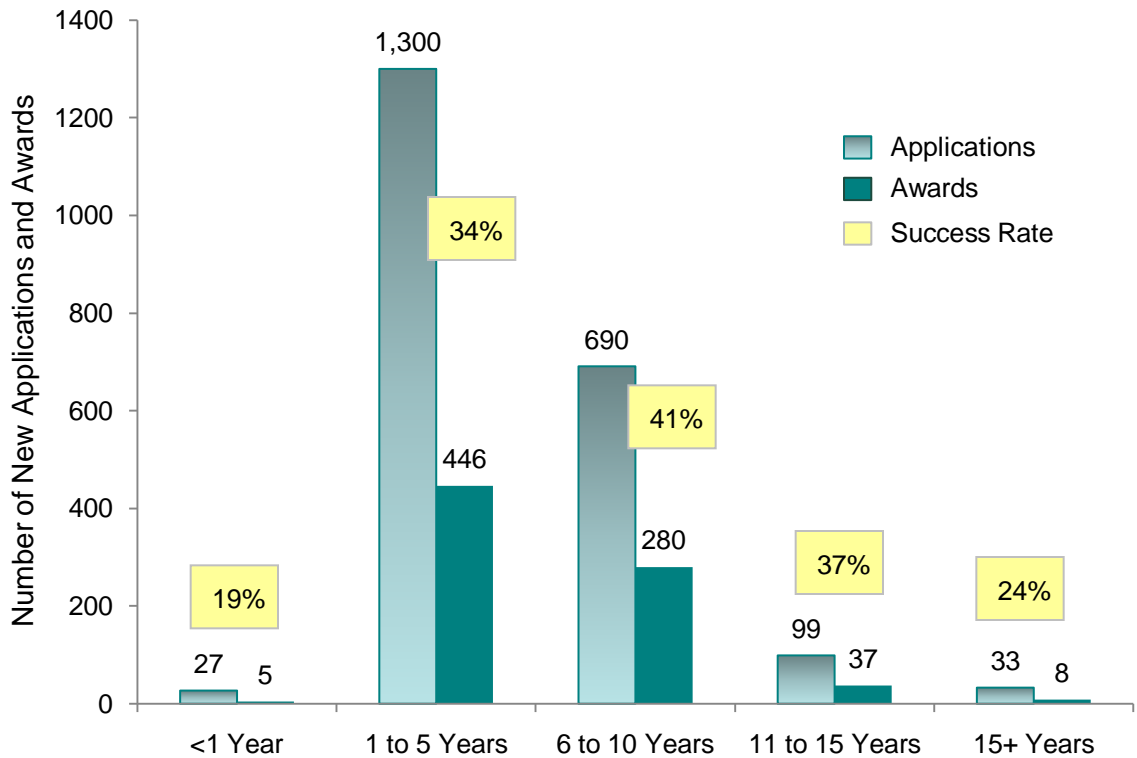
IC	Awards	Funding
NIEHS	14	\$246,679
NCCAM	6	\$123,639
NIGMS	3	\$40,223
NHGRI	1	\$24,018
NLM	1	\$17,460
FIC	1	\$27,460
NINR	1	\$4,433
<b>Total</b>	<b>828</b>	<b>\$27,088,969</b>

**23 Institutes and Centers funded  
at least one renewal LRP contract  
in FY 2009**

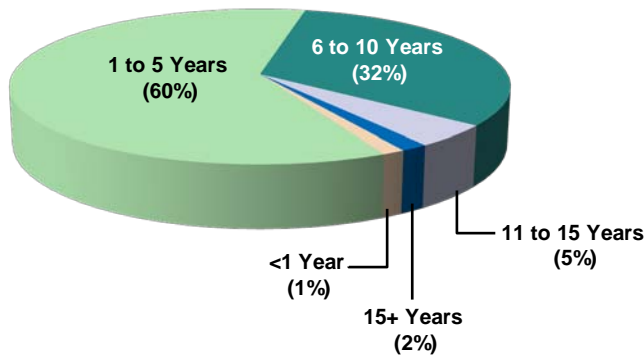


# Applications, Awards, and Success Rates

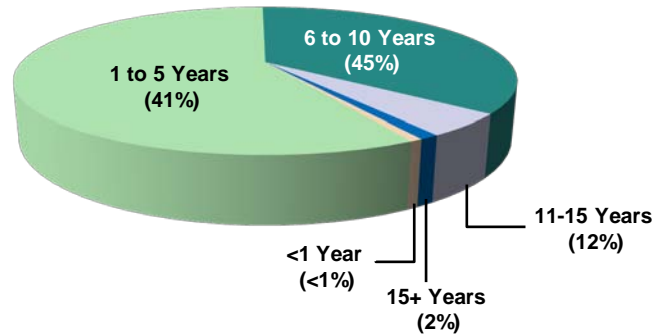
## New Applicants and Awardees By Post-Degree Years



**Distribution of Applications**



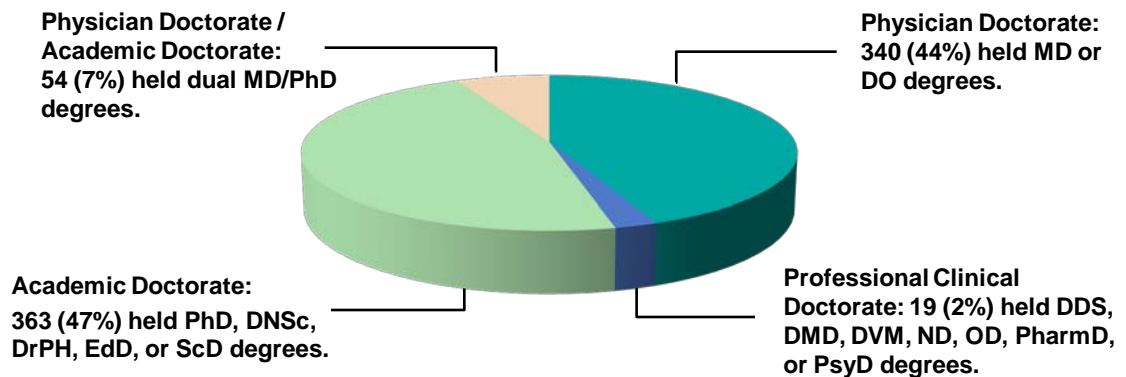
**Distribution of Awards**





## LRP Awards by Doctoral Degree New Awards

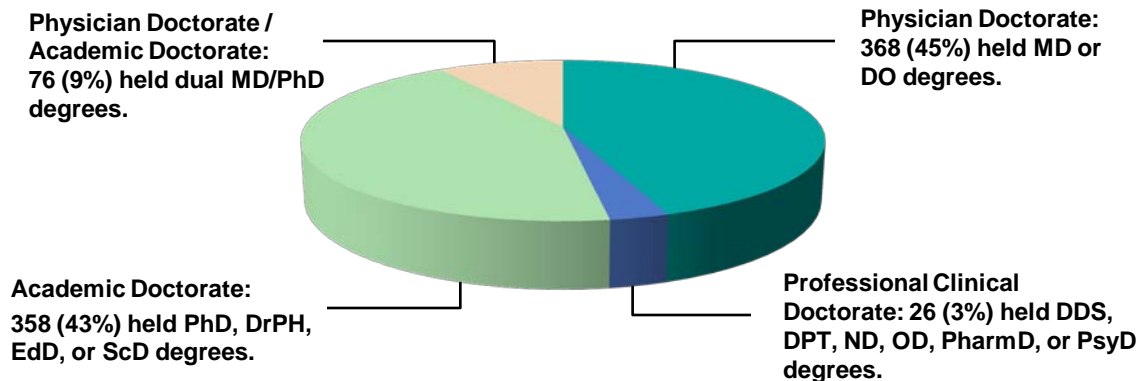
LRP	Physician Doctorate	Professional Clinical Doctorate	Academic Doctorate	Physician Doctorate / Academic Doctorate	Total
Clinical Research	203	7	172	28	410
Pediatric Research	96	2	58	19	175
Health Disparities Research	30	9	125	4	168
Clinical Research for Individuals from Disadvantaged Backgrounds	4	1	2	1	8
Contraception and Infertility Research	7	0	6	2	15
<b>Total</b>	<b>340</b>	<b>19</b>	<b>363</b>	<b>54</b>	<b>776</b>





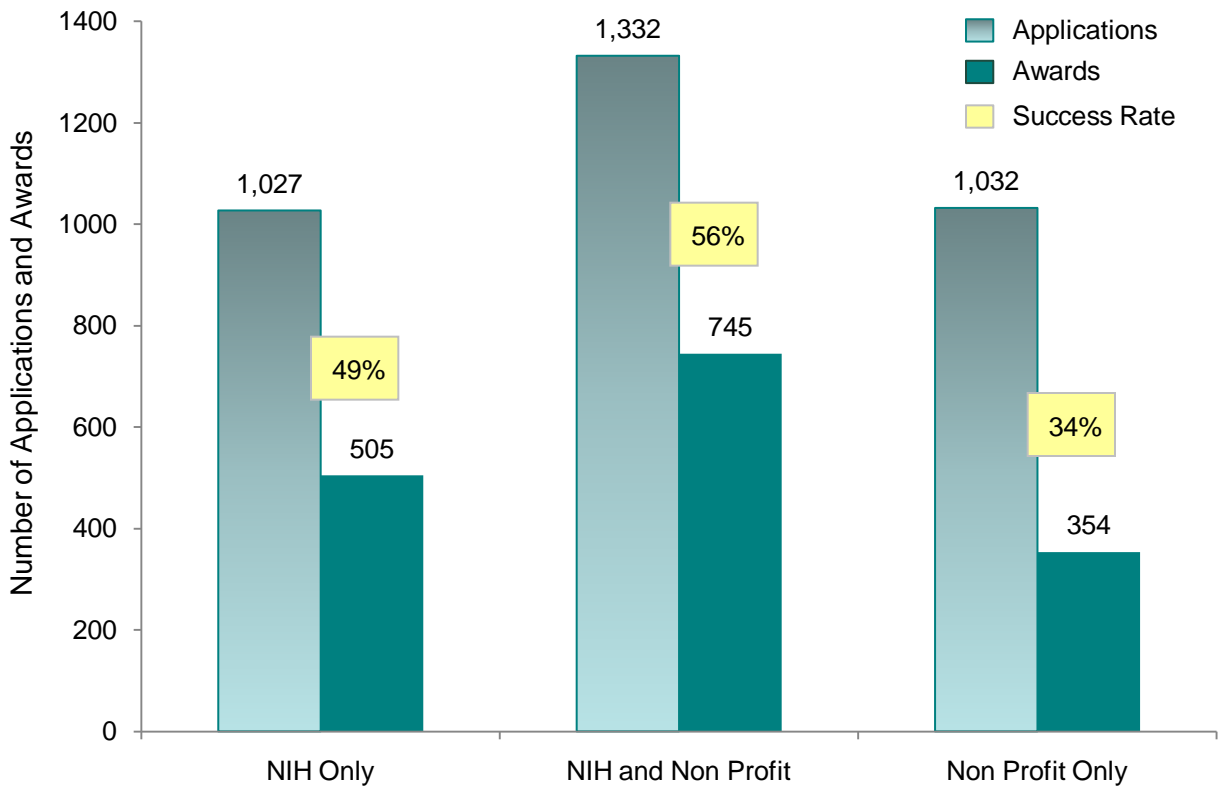
## LRP Awards by Doctoral Degree Renewal Awards

LRP	Physician Doctorate	Professional Clinical Doctorate	Academic Doctorate	Physician Doctorate / Academic Doctorate	Total
Clinical Research	216	18	192	43	469
Pediatric Research	120	2	63	28	213
Health Disparities Research	23	4	95	5	127
Clinical Research for Individuals from Disadvantaged Backgrounds	6	2	2	0	10
Contraception and Infertility Research	3	0	6	0	9
<b>Totals</b>	<b>368</b>	<b>26</b>	<b>358</b>	<b>76</b>	<b>828</b>





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



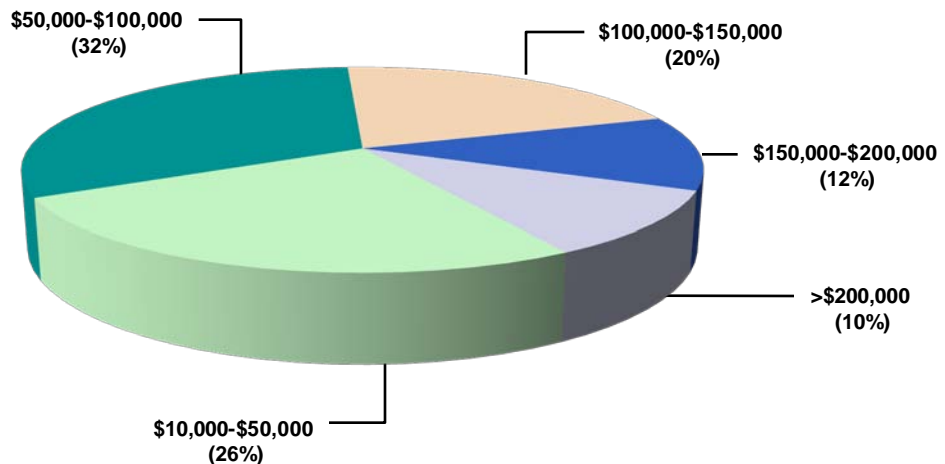


## Educational Debt Levels of LRP Awardees New Awards

**74 percent of new FY 2009 awardees had educational debt levels in excess of \$50,000**

Debt Range	Number of Awardees
Less than \$10,000	0
\$10,000 - \$50,000	200
\$50,000 - \$100,000	246
\$100,000 - \$150,000	160
\$150,000 - \$200,000	91
\$200,000 and over	79
<b>Total</b>	<b>776</b>

**Distribution of Awards by Debt Level**



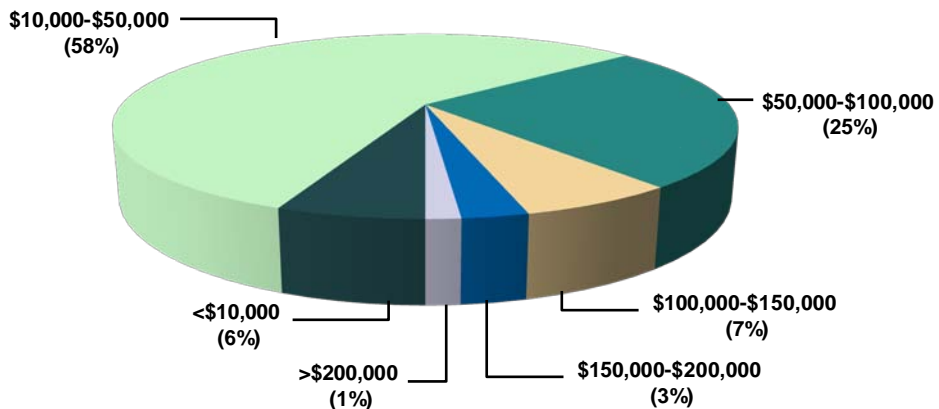


## Educational Debt Levels of LRP Awardees Renewal Awards

**36 percent of renewal FY 2009 awardees had educational debt levels in excess of \$50,000**

Debt Range	Number of Awardees
Less than \$10,000	51
\$10,000 - \$50,000	477
\$50,000 - \$100,000	210
\$100,000 - \$150,000	55
\$150,000 - \$200,000	23
\$200,000 and over	12
<b>Total</b>	<b>828</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	911	460	50%	858	399	47%	54%	46%
Pediatric Research	347	169	49%	481	213	44%	44%	56%
Health Disparities Research	178	77	43%	462	214	46%	26%	74%
Clinical Research for Individuals from Disadvantaged Backgrounds	10	5	50%	25	13	52%	28%	72%
Contraception and Infertility Research	18	5	28%	37	18	49%	22%	78%
<b>Total*</b>	<b>1,464</b>	<b>716</b>	<b>49%</b>	<b>1,863</b>	<b>857</b>	<b>46%</b>	<b>46%</b>	<b>54%</b>

\* Does not include applicants (64) and awardees (31) who did not state their gender.





## Awardee Demographics By Ethnicity

LRP	Awards	Hispanic or Latino	Not Hispanic or Latino
Clinical Research	879	30 (3%)	849 (97%)
Pediatric Research	388	13 (3%)	375 (97%)
Health Disparities Research	295	42 (14%)	253 (86%)
Clinical Research for Individuals from Disadvantaged Backgrounds	18	*	*
Contraception and Infertility Research	24	*	*
<b>Total</b>	<b>1604</b>	<b>90</b>	<b>1514</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



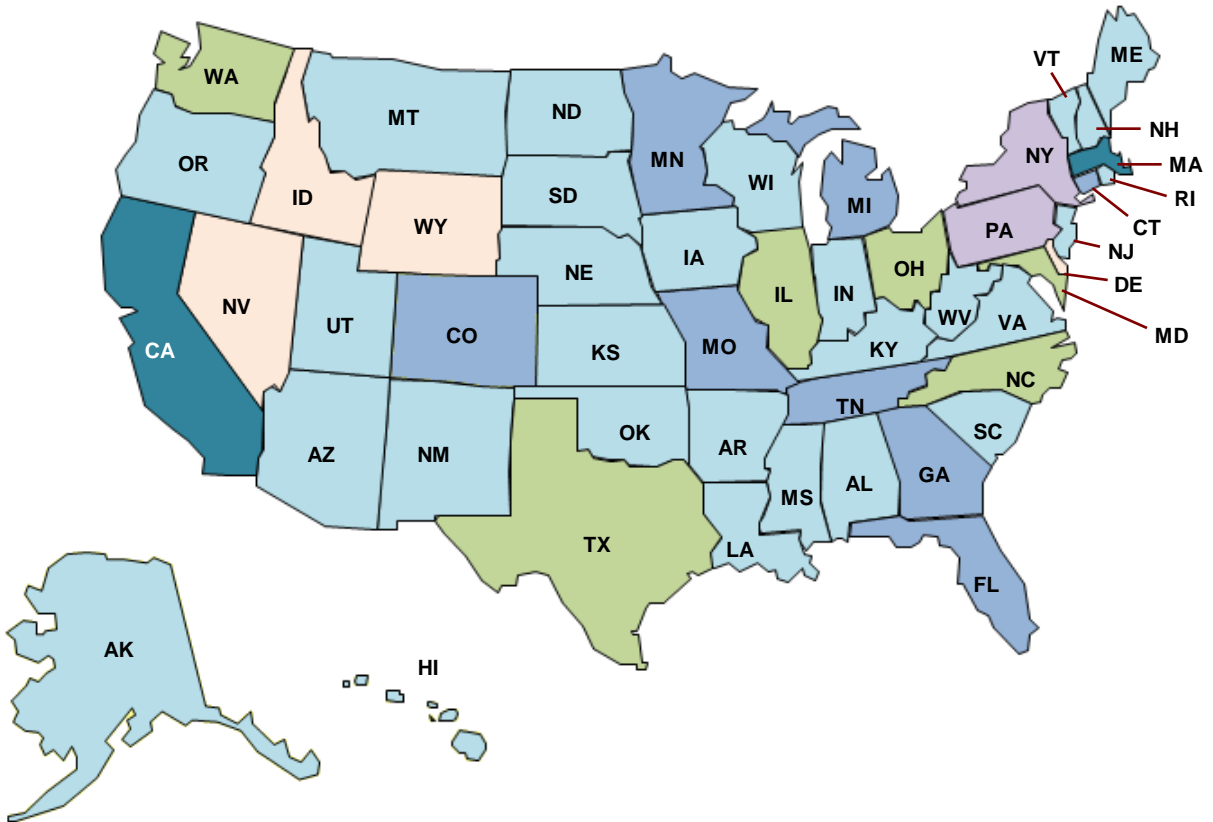
## Awardee Demographics By Race

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	879	*	28 (3%)	85 (10%)	*	676 (77%)	56 (6%)	28 (3%)
Pediatric Research	388	*	12 (3%)	40 (10%)	*	298 (77%)	21 (5%)	14 (4%)
Health Disparities Research	295	*	95 (32%)	23 (8%)	*	122 (41%)	17 (6%)	35 (12%)
Clinical Research for Individuals from Disadvantaged Backgrounds	18	*	*	*	*	*	*	*
Contraception and Infertility Research	24	0	0	0	0	21 (88%)	0	3 (13%)
<b>Total</b>	<b>1,604</b>	<b>9</b>	<b>143</b>	<b>149</b>	<b>3</b>	<b>1,125</b>	<b>95</b>	<b>80</b>
<b>Percent of Awards</b>		<b>1%</b>	<b>9%</b>	<b>9%</b>	<b>&lt;1%</b>	<b>70%</b>	<b>6%</b>	<b>5%</b>

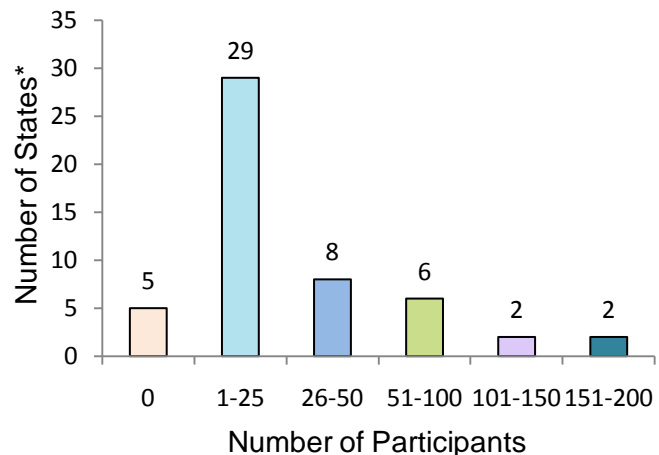
\* **Restricted Data** – small-sized datasets cannot be distributed due to participant confidentiality considerations



## Number of Awardees by State



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



\* Includes DC and PR;  
One participant is working outside of the US.





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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 sends the trainee/fellow file to the NRSA Payback Service Center. The NRSA PSC received 1,938 new files from 22 different institutes and centers, 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 1,599 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 123 files from 17 institutes or centers 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 1,842 closed files from 22 different institutes and centers 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>

