



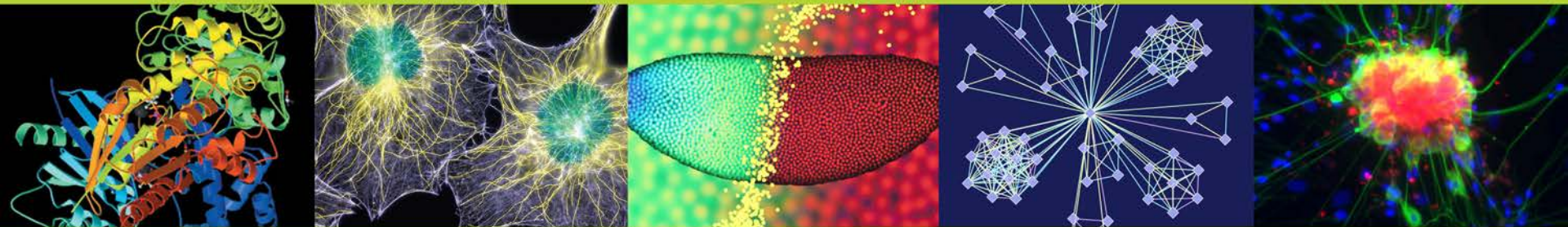
National Institute of
General Medical Sciences



New NIH T32 Tables


Shiva Singh, John Laffan, Lisa Newman,
Richard Okita

National Institute of General Medical Sciences, NIH



Today's Webinar Agenda

- 1:00 pm Remarks by Dr. Alison Gammie, Director, TWD
- 1:05 pm Overview by Dr. Shiva Singh, Chief, Predoctoral Training
- 1:15 pm New T32 Tables – Drs. Laffan, Newman, Okita
- 2:00 pm Q & A Period
- 2:30 pm Adjourn



The screenshot shows a chat window with a text input field and a row of icons. A blue arrow points to the chat icon, and a text box points to the input field.

2. Type Here

1. Click Chat Button

Questions during the Webinar?

Ask on-line in the “Chat” box located on the lower left side of your screen (type in your question(s)).

We will answer them during the Q & A period

Overview

- Transition to New Research Training Table Formats:
<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-16-007.html>
- New T32 Data Tables & Instructions:
<http://grants.nih.gov/grants/funding/424/datatables.htm>
- FAQs about New Training Tables:
http://grants.nih.gov/grants/forms_updates_faq.htm#4802
- xTRACT User Guide, FAQs, and other Resources:
https://era.nih.gov/modules_user_guides_documentation.cfm
- Videos demonstrating how xTRACT works:
https://era.nih.gov/era_training/era_videos.cfm

Overview, cont.

- Biosketch Requirements:

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-15-085.html>

- Biosketch FAQs:

http://grants.nih.gov/grants/policy/faq_biosketches.htm

- New Biosketch Formats:

<https://loop.nigms.nih.gov/2015/04/new-biosketch-formats-for-applications-due-may-25-and-later/>



Changes in the T32 application for May 25th deadline

- Rigor and Transparency – now 2017
 - NOT-OD-16-034
- Appendix Policy: Information coming soon
- New PHS Assignment Request Form
- New Font Guidelines - NOT-OD-009
 - 15 characters/inch, 6 lines/inch
- New Biosketch
- Research Training Tables

New Biosketch

- All biosketches must be in the new format.
- Up to 5 pages
- URLs for a publication list is optional but, if provided, must be to a government website (.gov)
- Publications and research products can be cited in both the personal statement and the contributions to science sections
- Graphics, figures and tables are not allowed

Biosketch Format

A. Personal Statement

- Why you are well suited for the role (May include up to four peer reviewed publications that highlight experience and qualifications)

B. Positions and Honors

C. Contributions to Science

- Up to 5 of the most significant contributions. For each contribution
 - Indicate historical background that frame the scientific problem
 - Influence of finding(s) on progress of science or application of finding(s) to health and technology
 - Your specific role in the described work

Biosketch Format (continued)

C. Contributions to Science (Continued)

- Reference up to 4 relevant peer-reviewed publications or other research products
 - May provide URL to full list of published work

D. Research support

Current

Pending

Past

(5 pages max)

xTract module

- **Extramural Trainee Reporting And Career Tracking (xTRACT)**
- Access through NIH eRA Commons
 - Only Signing Officials, Principal Investigators, and delegated assistants have access
- Will populate tables with information from Commons
- Must provide link in application. xTract does not submit to us
- Currently active
- **Not required** yet.
- Does not upload your batch information yet

New tables summary

Table #	Title of Table	New	Renewal	Comments	old
1	Census of Participating Departments and Interdepartmental Programs		same		1
2.	Participating Faculty Members		same		2
3	Federal Institutional Research Training Grant and Related Support Available to Participating Faculty Members		same		3
4	Research Support of Participating Faculty Members		same		4
5	Publications of Those in Training: Predoctoral	5A	5A	5B for postdoc	6
6	Applicants, Entrants, and their Characteristics for the Past Five Years: Predoctoral	6A	6A	6B for postdoc	8, 9, 11
7	Appointments to the Training Grant for Each Year of the Current Project Period	NA	7		11, 12
8	Program Outcomes: Predoctoral	8A	8A	8C for postdoc	5

Table 1

Census of Participating Departments and Interdepartmental Programs

- Provides insight into the environment of the proposed training. It allows reviewers to assess whether the program has the "critical mass" of trainees and faculty and representation/distribution of scientific disciplines to be effective.
- Fill out both parts even if one section has zero.
- Summarize these data in the Background Section of the Research Training Program Plan.

Table 1 Census of Participating Departments and Interdepartmental Programs

Part I. Predoctorates								
Participating Department or Program	Total Faculty	Participating Faculty	Total Predoctorates	Total Pre-doctorates Supported by any HHS Training Award	Total Pre-doctorates with Participating Faculty	Eligible Predoctorates with Participating Faculty	TGE Predoctorates Supported by this Training Grant (Renewals/Revisions)	Predoctorates Supported by this Training Grant (R90 Only Renewals/Revisions)
Department of Biochemistry	45	14	38	15	12	6	2	0
Neuroscience Program	32	20	31	20	14	7	4	1
Department of Pharmacology	25	5	30	10	5	3	3	0
Total	102	39	99	45	31	16	9	1

Part II. Postdoctorates								
Participating Department or Program	Total Faculty	Participating Faculty	Total Post-doctorates	Total Postdoctorates Supported by any HHS Training Award	Total Postdoctorates with Participating Faculty	Eligible Postdoctorates with Participating Faculty	TGE Postdoctorates Supported by this Training Grant (Renewals/Revisions)	Postdoctorates Supported by this Training Grant (R90 Only Renewals/Revisions)
Department of Biochemistry	45	14	24	10	9	5	2	0
Neuroscience Program	32	20	27	20	12	5	3	1
Department of Pharmacology	25	5	15	8	5	3	2	0
Total	102	39	66	38	26	13	7	1

Table 2 Participating Faculty Members

- Allows reviewers to assess the distribution of participating faculty by rank (junior vs. senior), by research interests, and by department or interdepartmental program. Also faculty mentoring records permit an evaluation of the experience of participating faculty in facilitating the progression of predoctorates and postdoctorates.
- Summarize and analyze these data in the Background section and the program faculty section of the program plan.

Table 2 Participating Faculty Members

Name	Degree(s)	Rank	Primary Department or Program	Research Interest	Training Role	Pre-doctorates In Training	Pre-doctorates Graduated	Pre-doctorates Continued in Research or Related Careers	Post-doctorates In Training	Post-doctorates Completed Training	Post-doctorates Continued in Research or Related Careers
Abrams-Johnson, Jane	PhD	Asst. Prof.	Pharmacology	Regulation of Synthesis of Biogenic Amines	Preceptor Other Comm	1	2	2	1	0	0
Jones, Lisa S.	PhD	Res. Asst. Prof.	Biochemistry	Protein Structure, Folding, and Immunogenicity	Preceptor Exec Comm	3	3	3	4	2	2
Sandoz, Miguel J.	MD, PhD	Assoc. Prof.	Neuroscience	Developmental Genetics in Drosophila	Preceptor	4	6	5	4	8	6
Thomas, James C.	PhD	Prof.	Biochemistry	Molecular and Genetic Analysis of RNA Viruses	PD/PI	7	10	9	8	15	14

Mentoring Information for the last 10 years

Table 3 Federal Institutional Research Training Grants and Related Support Available to Participating Faculty Members

- Permits evaluation of the current level of support for related research training and the extent to which the proposed training grant has overlap in participating faculty. This information is useful in assessing the institutional environment and determining the number of training positions to be awarded.
- Summarize these data in the Background section.

Table 3 Federal Institutional Research Training Grants and Related Support Available to Participating Faculty Members

Grant Title	Award Number	Project Period	PD/PI	Number of Pre-doctoral Positions	Number of Post-doctoral Positions	Number of Short-Term Positions	Number of Participating Faculty (Number Overlapping)	Names of Overlapping Faculty
Bioimmunotherapy Training Grant	T32 CA05964-11	07/2011-06/2016	Thomas, James C.	12	0	0	25 (6)	Abelson Brown Fields Johnson Sung Watson
Genetic Basis of Mental Illness	T32 MH02708-07	07/2010-06/2015	Johnson, Albert P.	4	4	2	7 (2)	Johnson Watson
Research Education Program for Residents in Psychiatry	R25 MH09876-06	07/2013-06/2018	Mendez, V. Roberto	0	6	0	33 (3)	Mendez Rivers Truesdale
Career Development in Pediatric Mental Health	K12 HD01234-09	07/2012-06/2017	Sterman, Patricia S.	0	4	0	19 (1)	Rubin
Total				16	14	2		

List all currently active, federal institutional training (e.g., NIH T32, T35, AHRQ T32), career development, and research education (e.g., NIH R25, K12/KL2, TL1) support available

Table 4 Research Support of Participating Faculty Members

- Provides evidence of the strength of the research environment, the availability of funds to support research conducted by the trainees, and the appropriateness of the participating faculty in terms of their active research support.
- Analyze and summarize these data in the Program Plan.

Table 4 Research Support of Participating Faculty Members

Faculty Member	Funding Source	Grant Number	Role on Project	Grant Title	Project Period	Current Year Direct Costs
Jones, Janine L.	NIH	1 R01 GM76259-01	PD/PI	Structure and Function of Acetylcholine Receptors	06/2014--05/2018	\$190,000
Jones, Janine L.	NIH	5 K08 AI00091-03	PD/PI	Purification & Identification of Receptors	11/2012-11/2017	\$140,000
Ehlers, Roger G.	Univ		PD/PI	University start-up funds	08/2014-07/2017	\$350,000
Mack, Thomas R.	Fdn		PD/PI	Control of Angiogenesis	03/2011-02/2015	\$185,000
Mack, Thomas R.	NSF	PCM 80-12935	PD/PI	Cell Culture Center	12/2012-11/2015	\$180,000
Mack, Thomas R.	NIH	1 P01 HL71802-05	Project PI	Subproject 4: Oncogenic Kit Receptor Signaling in vivo	10/2011-09/2015	\$165,000
Smith, James P.	None					
Zachary, Andrew	NIH	1 U01 AI28507-01	PD/PI	Human Monoclonal Antibodies as a Therapy for Staphylococcal Enterotoxin	07/2013-06/2018	\$200,000
Average Grant Support per Participating Faculty Member						\$282,000

Table 5 Publications of Those in Training

- This information provides an indicator of the ability of each faculty member to foster trainee productivity through generation of publishable results and allows assessment of the research quality and authorship priority of trainees.
- Summarize these data in the body of the application.
- Include average number of publications and average number of first author publications. Also include the number of students graduating with no publications or no first author publications.

Table 5A Publications of Those in Training: Predoctoral

Faculty Member	Trainee Name	Past or Current Trainee	Training Period	Publication (Authors, Year, Title, Journal, Volume, Inclusive Pages)
Berg, Lawrence P.	Thompson, Patricia P.	Past	1998-2004	Miter, M.H., Owens, R., Thompson, P., and Berg, L., 2004, Insulin Treatment of Diabetic Rats, J Comp Neurol, 373:350-378.
Chu, Jeremy K.	Greenstein, Michael L.	Current	2008-Present	Greenstein, M., and Chu, J., 2010, Sympathetic Noradrenergic Innervation of Drosophila, Genetics 185: 1100-1190.
Jones, Janice R.	Brown, Bernice B.	Past	2000-2006	Brown, B. and Jones J., 2005, Repeated Sequences in Drosophila, J Mol Biol, 242:503-510. Corman, T., Walker, J.D., and Brown, B., 2006, Ontogeny of Tolerance to Alloantigens, Am J Anat, 146:156-159.
Layback, Sally G.	Wand, Dennis R.	Past	2000-2001	No Publications: Left program
Neustaff, Lorena B.	Smith, Benjamin L.	Current	2011-Present	Smith, B. and Neustaff, 2014, Preliminary x-ray crystal structure of beta-adrenergic receptor. Biophysical J., Abstract.
Peters, Mark Q.	Samuels, Janine A.	Current	2010-Present	Samuels, J. and Peters M., 2012, Molecular Analysis of RNA Viruses, Molec Biol Cell, 11:12-18.

Trainees last 10 yrs. New - only TGE who would have been eligible for this T32
Do NOT list short term students

Table 6A Applicants, Entrants, and their Characteristics

- Permits evaluation of the ability of participating departments/interdepartmental programs to recruit trainees. Helps assessing the selectivity of the admissions process, the competitiveness of the training program, and the appropriate number of training positions to be awarded.
- Data are for the past 5 years
- Analyze and summarize these data in the Program Plan.

Table 6A Counts

Most Recently Completed Year: 2013-2014	Total Applicant Pool	Applicants Eligible for Support	New Entrants to the Program	New Entrants Eligible for Support	New Entrants Appointed to this Grant (Renewal/Revision Applications Only)
Department of Biochemistry	45	30	6	3	2
Dept of Molecular & Cell Biology	30	19	5	4	3
Program in Systems Biology	12	9	5	5	4
Total	87	58	16	12	9

Previous Year: 2012-2013	Total Applicant Pool	Applicants Eligible for Support	New Entrants to the Program	New Entrants Eligible for Support	New Entrants Appointed to this Grant (Renewal/Revision Applications Only)
Department of Biochemistry	50	35	8	4	3
Dept of Molecular & Cell Biology	30	20	8	5	3
Program in Systems Biology	15	10	5	5	4
Total	95	65	21	14	10

x4

Total All Years	Total Applicant Pool	Applicants Eligible for Support	New Entrants to the Program	New Entrants Eligible for Support	New Entrants Appointed to this Grant (Renewal/Revision Applications Only)
Mean Count Across Years	95	61	19	13	10

Table 6A Characteristics

Most Recent Program Year: 2013-2014	Total Applicant Pool	Applicants Eligible for Support	New Entrants to the Program	New Entrants Eligible for Support	New Entrants Appointed to this Grant (Renewal/Revision Applications Only)
Mean Months of Prior, Full-Time Research Experience (range)			7.5 (3-24)	8.0 (3-24)	10.0 (3-24)
Prior Institutions			Cornell Univ. (3) Univ. of Virginia Univ. of Utah (3) Ohio State (5) U. Arkansas (4)	Cornell Univ. (2) Univ. of Virginia Univ. of Utah (2) Ohio State (3) U. Arkansas (4)	Cornell Univ. Univ. of Utah (2) Ohio State (3) U. Arkansas (3)
Percent with a Disability			0%	0%	0%
Percent from Underrepresented Racial & Ethnic Groups			19%	25%	22%
Mean GPA (range)	3.4 (2.9-4.0)	3.5 (3.0-4.0)	3.6 (3.3-4.0)	3.7 (3.3-4.0)	3.7 (3.4-4.0)

Previous Year: 2012-2013	Total Applicant Pool	Applicants Eligible for Support	New Entrants to the Program	New Entrants Eligible for Support	New Entrants Appointed to this Grant (Renewal/Revision Applications Only)
Mean Months of Prior, Full-Time Research Experience (range)			7.4 (3-24)	8.0 (3-24)	9.5 (3-24)
Prior Institutions			Georgetown (3) Univ. of Utah (3) UNC (6) UCSD (5) Boston U (4)	Georgetown (3) Univ. of Utah (2) UNC (3) UCSD (4) Boston U (2)	Georgetown (3) UNC (2) UCSD (3) Boston U (2)
Percent with a Disability			0%	0%	0%
Percent from Underrepresented Racial & Ethnic Groups			15%	20%	18%
Mean GPA (range)	3.3 (2.7-4.0)	3.5 (3.0-4.0)	3.6 (3.3-4.0)	3.7 (3.4-4.0)	3.7 (3.4-4.0)

x4

Table 6A Characteristics (cont)

Means Across All Years	Total Applicant Pool	Applicants Eligible for Support	New Entrants to the Program	New Entrants Eligible for Support	New Entrants Appointed to this Grant (Renewal/Revision Applications Only)
Mean Months of Prior, Full-Time Research Experience			7.6	8.0	10.0
Percent with a Disability			0%	0%	0%
Percent from Underrepresented Racial & Ethnic Groups			17%	23%	21%
Mean GPA	3.4	3.5	3.6	3.7	3.7

Table 7

Appointments to the Training Grant for Each Year of the Current Project Period

- For renewal or revision applications **only**
- Permits evaluation of the use of awarded training positions.
- Counts for “Awarded” and “Appointed” trainees will be auto-filled. Counts for the number of “Appointed” trainees will be editable.
- Summarize these data in the Progress Report Section.
- It may also be useful to refer to these data within the Recruitment and Retention Plan to Enhance Diversity Section.

Table 7 Appointments to the Training Grant for Each Year of the Current Project Period

Training Positions	Budget Year 01	Budget Year 02	Budget Year 03	Budget Year 04	Sum of Budget Years
Predocloral Awarded	8	8	8	8	32
Predocloral Appointed	8	8	8	8	32
– Predoc: Dual-Degree	0	0	1	1	2
– Predoc: Diverse Backgrounds	0	5	2	2	9
Postdoctoral Awarded	4	4	4	4	16
Postdoctoral Appointed	4	4	4	4	16
– Postdoc: MD or Equivalent	0	1	0	1	2
– Postdoc: PhD or Equivalent	3	1	3	3	10
– Postdoc: DDS, DVM, Other	1	1	0	0	2
– Postdoc: Dual Degree	0	1	1	0	2
– Postdoc: Diverse Backgrounds	0	0	0	0	0
Short-Term Awarded	8	8	6	7	29
Short-Term Appointed	7	6	6	7	26
– Short-Term: Diverse Backgrounds	2	2	1	2	7

Table 8A Program outcomes

- For new applications, this table provides information on the effectiveness of the proposed training program.
- For renewal applications, this table provides information about the use of predoctoral training positions (e.g., distribution by faculty member, year in program, years of support per trainee). The data also permit an evaluation of the effectiveness of the supported training program in achieving the training objectives of the prior award period(s) for up to **15** years.
- Summarize the data in the Program Plan Section or the Progress Report Section, as appropriate.

Table 8A Program outcomes

Part I. Those Appointed to the Training Grant

Trainee	Faculty Member	Start Date	Summary of Support During Training	Terminal Degree(s) Received and Year(s)	Topic of Research Project	Initial Position Department Institution Activity	Current Position Department Institution Activity	Subsequent Grant(s)/ Role/Year Awarded
Cox, Charles C.	Doe, John Smith, Jerry	09/1998	TY 1: HL T32 TY 2: HL T32 TY 3: HL F30 TY 4: HL F30 TY 5: HL F30 TY 6: Fdn RA	MD 2003 PhD 2003	The role of Notch in blood vessel maturation	Resident Internal Medicine Emory University Further Training	Assistant Professor Hematology Rutgers University Research-Related	HL K23/PI/2011 HL P01/Co-I/2014
Johnson, Gina R.	Doe, John	09/1998	TY 1: NSF F TY 2: NSF F TY 3: NSF F TY 4: HL T32 TY 5: HL T32 TY 6: GM R01	PhD 2003	Interactions between circadian rhythms, sleep & metabolism	Postdoctoral Fellow Molecular Biology UC San Francisco Further Training	Research Associate Molecular Biology UC San Francisco Research-Intensive	HL F32/PI/2005 GM R01/Staff Scientist/2011
Phelps, Ryan	Vasquez, Richard	09/1999	TY 1: HL T32 TY 2: HL T32	MS 2001	Viral infections	Laboratory Technician Parke-Davis Research-Intensive	Laboratory Manager Pfizer Research-Related	

Table 8A Program outcomes

Part II. Those Clearly Associated with the Training Grant

Trainee	Faculty Member	Start Date	Summary of Support During Training	Terminal Degree(s) Received and Year(s)	Topic of Research Project	Initial Position Department Institution Activity	Current Position Department Institution Activity	Subsequent Grant(s)/ Role/Year Awarded
Robinson, Brian	Smith, Jerry	09/2010	TY 1: Univ S TY 2: CA R01 TY 3: CA R01 TY 4: Fdn F	In Training	Reconstitution of Tumor suppressor function			
O'Leary, Ann L.	Coates, Robert	09/2008	TY 1: GM T32 TY 2: GM T32 TY 3: CA T32 TY 4: CA F31 TY 5: CA F31	PhD 2013	Genetic Cancer Biomarkers	Postdoctoral Fellow Molecular Biology UCLA Research Intensive		

Part III. Recent Graduates (Only New Applications and Renewal/Revision Applications Requesting Expanded support)

Trainee	Faculty Member	Start Date	Summary of Support During Training	Terminal Degree(s) Received and Year(s)	Topic of Research Project	Initial Position Department Institution Activity	Current Position Department Institution Activity	Subsequent Grant(s)/ Role/Year Awarded
Moore, Thomas P.	Trimmer, Sean R.	09/2007		PhD 2013	Src Kinase and Breast Cancer	Postdoctoral Fellow Medicine Boston University Further Training	Postdoctoral Fellow Medicine Boston University Further Training	
Rosenthal, Julia R.	Coates, Robert	09/2009		PhD 2014	Modulation of host cellular responses	Medical Student Medicine Northwestern University Further Training	Medical Student Medicine Northwestern University Further Training	

Table 8A Part IV. Program Statistics

Percentage of Trainees Entering Graduate School 10 Years Ago Who Completed the PhD	Average Time to PhD for Trainees in the Last 10 Years (not including leaves of absence)
50.2%	6.5 years

- % trainees completed PhD – Snap shot of the one class entering 10 years ago funded at any point by the grant.
- Ave time to degree. Time=entry into program until degree granted. Calculate to 1 decimal place
- Not for new programs

Questions

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