For a New Application including both Pre- and Postdoctoral Training

Submit the tables indicated: 1^{New}, 2, 3, 4, 5AB, 6AB^{New}, 7AB, 8AB, 9AB^{New}, 10 (optional)

The Instructions and Sample Data Tables file includes example data, and detailed instructions and rationale statements for each table. These are designed to print best in landscape mode. The Blank Data Tables file provides fillable format pages.

Table 1. Membership of Participating Departments and Programs (New Applications)

Participating Department or Program	Faculty Members In Department or Program	Faculty Members Participating in This Application	Predoctoral Trainees in Department or Program [Supported by Any NIH Training Grant]	Predoctoral Trainees With Participating Faculty Total (TGE) A/B/C	Leave Column Blank	Postdoctoral Trainees in Department or Program [Supported by Any NIH Training Grant]	Postdoctoral Trainees With Participating Faculty Total (TGE) A/B/C	Leave Column Blank
Dept. of Biology	45	14	38 [15]	12 (6) 1/1/0		50 [5]	15 (7) 1/0/0	
Neuroscience Program	32	20	31 [20]	14 (7) 2/0/1		40 [7]	23 (10) 0/0/1	
Dept. of Pharmacology (Medical School)	25	5	30 [10]	5 (3) 1/0/0		28 [0]	12 (6) 0/0/1	
Totals	Need not sum	Need not sum	99 [45]	31 (16) 4/1/1		118 [12]	50 (23) 1/0/2	

Table 1 Instructions: Provide the total number of current faculty members, predoctoral trainees, and postdoctoral trainees in each participating department/program. Faculty members may be counted more than once if they participate in a departmental as well as an interdepartmental program(s). Predoctoral and postdoctoral trainees are counted only once and should be associated with a single department or program. In brackets, indicate the number of predoctoral trainees and postdoctoral trainees who are supported by any NIH training grant. Indicate the number of faculty members participating in this training grant application, and the numbers of predoctoral and postdoctoral trainees with the participating faculty. In parentheses, put the number of trainees with the participating faculty who are Kirschstein-NRSA training grant eligible (TGE). Include the number of TGE predoctoral and postdoctoral trainees who are from underrepresented groups that fulfill the diversity requirement: TGE predoctoral and postdoctoral trainees who are underrepresented minorities (Group A), who are individuals with disabilities (Group B), or who are individuals from disadvantaged backgrounds (Group C). Individuals may be counted in more than one of these groups if applicable. Data on Group C may not be required by the specific instructions in the FOA to which you are responding.

Summarize these data in the Background Section 2.2 of the Research [Training Program](#) Plan. Use the narrative to comment on the organization of the training program, the participating departments/programs, the extent to which faculty and students from those departments/programs participate in the program of activities to be supported by the training grant.

Rationale: This table provides insight into the environment in which training will take place. It allows reviewers to assess whether the program has the "critical mass" (trainees, faculty and other research personnel) and representation/distribution of scientific disciplines to be successful.

Table 2. Participating Faculty Members
(Alphabetically by Faculty Member)

Name/Degree(s)	Rank	Primary (& Secondary) Appointment(s)	Role in Program	Research Interest
Abrams-Johnson, Jane, PhD	Asst. Prof.	Pharmacology; (Biochemistry-Medical School)	Mentor	Regulation of Synthesis of Biogenic Amines
Jones, Lisa S., MD	Res. Asst. Prof.	Microbiology and Immunology (Neuroscience Program)	Mentor Exec Com	Protein Structure, Folding, and Immunogenicity
Sandoz, J. Miguel, MD, PhD	Assoc. Prof.	Neuroscience Program	Mentor	Developmental Genetics in Drosophila
Thomas, C. James, III, PhD	Prof. & Chr.	Biochemistry and Molecular Biophysics	Program Director	Molecular and Genetic Analysis of RNA Viruses

Table 2 Instructions: List each training faculty member with his/her degree(s), academic rank, primary departmental affiliation and secondary appointments, role in the proposed training grant program, and research interests that are relevant to the proposed program.

Summarize these data in the Background Section 2.2 of the Research Training Program Plan. Use the narrative to comment on the distribution of mentors by academic rank and department, to discuss areas of research emphasis, and the rationale for the selection of participating faculty.

Rationale: This information allows reviewers to assess the distribution of junior versus senior faculty and clinical versus basic scientists participating in the training program, as well as their distribution by department. The data concisely summarize the scientific areas of the training faculty.

Table 3. Institutional Training Grant Support Available to Participating Faculty Members, Department(s), or Program(s)

Title of Training Grant	Funding Source Including Identifying Number	Active or Pending Project Period	Program Director (Department)	Predoctoral Trainees Supported This Year	Postdoctoral Trainees Supported This Year	Short-Term Trainees Supported This Year	Total No. of Participating Faculty (Number Overlapping)	Names of Overlapping Faculty
Bioimmunotherapy Training Grant	T32 CA05964-11	06/09-07/13	Baker, A. (Pathology)	12			25 (6)	Abelson Brown Fields Johnson Sung Watson
Pharmacological Sciences	T32 GM04823-01	Pending	James, C. (Pharmacology)	10			19 (3)	Jones Jenson Watson
Genetic Basis of Mental Illness	T32 MH02708-07	06/07-07/12	Johnson, A. (Psychiatry)	4	4		7 (2)	Johnson Watson
Interdisciplinary Training in Nanotechnology	Dept of Ed	Pending	Small, V. (Engineering)	6	0	2	12 (2)	Small Wee
Med into Grad	HHMI	Pending	Brown (Cell Biology)	4	0		10 (2)	Brown Jones
Totals	N/A	N/A	N/A	36	4	2	N/A	N/A

Table 3 Instructions: List all sources of current and pending training support available to the participating faculty members. It is not necessary to list every training grant at the institution, only those with overlapping faculty mentors or student pools. For each grant, include the title of the training grant; funding source and complete identifying number; status (active or pending) and dates of the active or pending project period; name of the program director and department; number(s) of training positions (predoctoral, postdoctoral, and short term), number of participating faculty members; and list overlapping participating faculty members who are also named in this application.

Rationale: This table will permit an evaluation of the level of support for training available to each of the participating departments/programs and the extent to which the proposed training grant overlaps with or duplicates available training grant support. It is useful in determining the number of training positions to be awarded.

**Table 4. Grant and Contract Support of the Participating Faculty Members
(Alphabetically by Faculty Member)**

Faculty Member	Faculty Member Role on Project and Grant Title	Source of Support Grant Number and Status	Project Period	Current Year Direct Costs Awarded (Total Direct Costs for Awards With Substantial Future Changes)
Jones, J.	PI - Structure and Function of Acetylcholine Receptors	NIH 1 R01 CA76259-01*	05/09-05/014	$190,000
Jones, J.	PI - Purification & Identification of Receptors	NIH 5 K08 AI00091-03	11/10-11/13	$140,000
Mack, T.	PI - Control of Angiogenesis	American Heart Assoc.	03/8-03/11	$185,000
Mack, T.	Co-PI - Cell Culture Center	NSF PCM 80-12935 (D. Stockton, PD/PI)	12/10-12/13	$180,000
Mack, T.	Project Leader of Subproject 4: "Genetic Control of Cell Division"	NIH 1 P01 CA71802-02 (D. Stockton, PD/PI)	10/07-10/12	$165,000
Smith, J.		None		
Zachary, A.	PI – Human Monoclonal Antibodies as a Therapy for Staphyloccal Enterotoxin	NIH 1 U01 AI-28507-01 *	07/09-07/14	$200,000 ($3 million)

Table 4 Instructions: For each participating faculty member, list active and pending research grant and contract support from all sources (including Federal, non-Federal, and institutional research grant and contract support) that will provide the context for research training experiences. Exclude research training grants. If none, state "None." Include the role of the participating faculty member (PD/PI, co-investigator, etc.) in the grant and grant title; source of support, grant number, and status (use an asterisk (*) to indicate pending sources of support); dates of the entire project period; and the current year annual direct costs. If the source of support is part of a multiple project grant (for example, a P01), additionally identify the PD/PI of the overall project, and provide the above information for that component of the grant with which the faculty member is associated. For grants with major budget changes in future years such as clinical trials, include the total direct costs of the award in parentheses. Do not list grants that have expired unless a pending continuation application has been submitted.

Summarize these data in the Program Plan Section 2.3.b Program Faculty. Analyze the data in terms of total and average grant support. Comment on the inclusion of faculty without research grant support and explain how the research of students that may work with them would be supported.

Rationale: This table 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 members in terms of their active research support.

Table 5A. Predoctoral Trainees of Participating Faculty Members (Alphabetically by Faculty Member for the Past Ten Years)

Faculty Member	Past / Current Trainee	Trainee Name (Where Training Occurred)	Training Period (Degree)	Prior Academic Degree Institution (s)	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
Abbott-Miller, Jane	Past	*Schwartz, A. (Cornell)	94-99 (PhD)	U. of WI	BA	94	Role of Transcription Factor X in Synaptic Plasticity	Asst. Scientist, Scripps Research Foundation
Abbott-Miller, Jane	Past	**Jones, J.	95-00 (PhD)	Grinnell	AB	93	Protein kinase signaling cascades in C elegans	Res. Assoc. Prof. Microbiol., U CA, Berkeley
Abbott-Miller, Jane	Current	**Baker, A.	04-	Cornell	BS	04	Gene Expression in Drosophila	NIH 2 R01 GM05964-06
Zyskind, J. Quincy	Past	None						
Zyskind J. Quincy	Current	**Bunting, C.	05-	Vanderbilt	BA	05	Title not yet determined	NIH 1 T32 GM05066-05

Table 5A Instructions: For each participating faculty member, list in groups all past and current predoctoral trainees for whom the faculty member was/is the thesis advisor (past 10 years only). Indicate in parentheses under the trainee name where the predoctoral training with the faculty member occurred, if at a different institution. Exclude medical interns and residents, unless they are heavily engaged in laboratory research. For each trainee indicate period of predoctoral training and degree received; previous institution, degree, and year awarded prior to entry into training; title of the research project; and for past students, their current positions or for current students, their source of support. **Designate Kirschstein-NSRA training grant eligible trainees (TGE) by an asterisk (*). In renewal applications, denote trainees who were or are supported by this training grant with a double asterisk (**).**

Summarize these data in the Program Plan Section 2.3.b Program Faculty. Analyze the data in terms of the overall experience of the faculty in training predoctoral students. Comment on the inclusion of faculty whose training records may not indicate much recent predoctoral training experience.

Rationale: The data in this table permit an evaluation of the success of the proposed faculty in facilitating the progression of students in their research careers, the ability of the faculty to commit appropriate time to mentoring additional trainees, and the institutions from which their trainees are selected.

Table 5B. Postdoctoral Trainees of Participating Faculty Members (Alphabetically by Faculty Member for the Past Ten Years)

Faculty Member	Past / Current Trainee	Trainee Name (Where Training Occurred)	Postdoc Research Training Period	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Prior Academic Degree Institution(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
Abbott-Miller, Jane	Past	Schwartz, A. (Cornell)	97-02	MD/PhD	97	U. of WI	Role of Transcription Factor X in Synaptic Plasticity	Asst. Scientist, Scripps Research Foundation
Abbott-Miller, Jane	Past	**Jones, J. (Cornell)	98-03	PharmD	96	Grinnell	Protein kinase signaling cascades in C elegans	Res. Assoc. Prof. Microbiol., U CA, Berkeley
Abbott-Miller, Jane	Past	Howard, R.	01-04	PhD	01	Purdue	Excision Repair in Multiple Myeloma Cells	Postdoc, Pathology, Yale, lab of I.M. Sickly
Abbott-Miller, Jane	Current	**Baker, A.	07-	MD	07	Cornell	Gene Expression in Drosophila	NIH 2 T32 GM05964-06
Abbott-Miller, Jane	Current	Smith, D.	08-	PhD	08	U. of CT	DNA Repair and Chemical Carcinogenesis	NIH 1 F32 ES06942-01
Abbott-Miller, Jane	Current	Haggerty, D.	09-	PhD	08	U. of MI	Cell Cycle Control in Yeast	NIH 1 R01 CA76259-01
Zyskind, J. Quincy	Past	None						
Zyskind, J. Quincy	Current	Bunting, C.	08-	DMD	08	Vanderbilt	Title not yet determined	NIH 1 T32 GM05066-05

Table 5B Instructions: For each participating faculty member, list in groups all past and current postdoctoral trainees for whom the faculty member was/is the sponsor (**past 10 years only**). Indicate in parentheses under the trainee name where the postdoctoral training with the faculty member occurred, if at a different institution. Exclude medical interns and residents unless they are heavily engaged in laboratory research. For each trainee indicate period of postdoctoral training and any degree received; previous institution, degree, and year awarded prior to entry into training; title of the research project; and for past trainees, their current positions; or for current trainees their source of

support. **Designate Kirschstein-NSRA training grant eligible trainees ([TGE](#)) by an asterisk (*). In renewal applications, denote trainees who were or are supported by this training grant with a double asterisk (**).**

Summarize these data in the Program Plan Section 2.3.b Program Faculty. Analyze the data in terms of the overall experience of the faculty in training postdoctoral trainees. Comment on the inclusion of faculty whose training records may not indicate much recent postdoctoral training experience.

Rationale: The data in this table permit an evaluation of the success of the proposed faculty in facilitating the progression of students in their research careers, the ability of the faculty to commit appropriate time to mentoring additional trainees, and the institutions from which their trainees are selected.

Table 6A. Publications of Research Completed by Predoctoral Trainees (New Applications) (Group Past and Current Trainees Separately, then sort by Year of Entry)

Mentor(s)	Past / Current	Name of Trainee (Years in Program)	Publication (Authors, Year, Title, Journal)
Berg	Past	Thompson, P.* (1998-2003)	Miter, M.H., Owens, R., **Thompson, P.**, and Berg, L., 2004, "Insulin Treatment of Diabetic Rats," J. Comp. Neurol., 373:350-378.
Chu	Current	Greenstein, M.* (2008-)	**Greenstein, M.**, and Chu, J., 2010, "Sympathetic Noradrenergic Innervation of Drosophila," Genetics (In press).
Jones	Past	Brown, B.* (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.
Layback	Past	Wand, D. (2000-2007)	No Publications
Neustaff	Current	Smith, B.* (2009-)	**Smith, B.** and Neustaff, 2010, Preliminary x-ray crystal structure of beta-adrenergic receptor. Biophysical J., Abstract.
Peters	Current	Samuels, J.* (2007-)	**Samuels, J.** and Peters M., 2009, "Molecular Analysis of RNA Viruses," Molecular Biology of the Cell, Vol. 11, 12-18.

Table 6A Instructions: For New (Type 1) Applications

Read FOA, SF424 (R&R) Application Guide Section 8, and Introduction to NRSA Data Tables first.

List publications of representative previous predoctoral trainees and of ALL current predoctoral trainees of the proposed mentors. Only include previous trainees over the last ten years and only trainees who would have been considered for appointment, if this program had been supported by an NIH training grant during their period of training. Sort trainees by Mentor. For each mentor, group past trainees separately from current trainees. Sort each group by the year of entry into the graduate program. In parenthesis, include the year the trainee started graduate studies, and if appropriate, when they completed their training. Designate Kirschstein-NSRA training grant eligible trainees (TGE) by an asterisk (*). List all publications of trainees resulting from their period of training in the faculty member's laboratory or in association with the training program, through completion of their doctoral degree regardless of when the publication actually appeared. List abstracts **only** if a more complete publication has not appeared and label these clearly as abstracts. List publications followed by abstracts in chronological order. Boldface the trainee's name in the author list.

Summarize these data in the body of the proposal. For example, what is the average number of papers published by trainees, how many as first author, how many trainees graduate without any first author publication.

Rationale: This information provides an indicator of the ability of the mentor to foster trainee productivity and allows assessment of the research quality and authorship priority of previous predoctoral trainees.

Table 6B. Publications of Research Completed by Postdoctoral Trainees (New Applications)
(Group Past and Current Trainees Separately, then sort by Year of Entry)

Mentor(s)	Past / Current	Name of Trainee (Years in Program)	Publication (Authors, Year, Title, Journal)
Berg	Past	Thomas, P* (2005-2007)	Miter, M.H., Owens, R., **Thomas, P.**, and Berg, L., 2006, "Insulin Deficiency in Diabetic Rats," J. Nutrition, 373:350-378.
Chew	Current	Greenstuff, M.* (2010-)	**Greenstuff, M.**, and Chew, J., 2010, "Non-digestible fibre influences bioavailability of vitamins", J. Pharm Sci. (In press).
Easygai	Past	Schultz, H. (2006-2008)	No Publications
Newpeeye	Current	Jones, W.* (2010)	No Publications
Peters	Current	Samuels, J.* (2009-)	**Samuels, J.** and Peters M., 2009, "Molecular Analysis of DNA Viruses," Molecular Biology of the Cell, Vol. 11, 12-18.
Smith	Past	Green, V.* (2005-2008)	**Green, V.** and Smith, S., 2006, "Repeated Sequences in Xenopus," J. Mol. Biol., 244:103-110. Smith, S., Watkins, J.D., and **Green, V.**, 2007, "Tolerance to Alloantigens in Frogs," Am. J. Anat., 146:156 (abstract).

Table 6B Instructions: For New (Type 1) Applications

Read FOA, SF424 (R&R) Application Guide Section 8, and Introduction to NRSA Data Tables first.

List publications of representative previous postdoctoral trainees and all current postdoctoral trainees of the proposed mentors. Only include previous trainees over the last ten years and only trainees who would have been considered for appointment, if this program had been supported by an NIH training grant during their period of training. Sort trainees by mentor. Group past trainees separately from current trainees. Sort each group by their year of entry into postdoctoral training with their current faculty mentor or in association with the program. In parenthesis, include the year they began their training and, if appropriate, the year they completed training. Designate Kirschstein-NSRA training grant eligible trainees (TGE) by an asterisk (*). List all publications of trainees resulting from their period of training in the faculty member's laboratory or in association with the training program, regardless of when the publication actually appeared. List abstracts **only** if a more complete publication has not appeared and label these clearly as abstracts. List publications followed by abstracts in chronological order. Boldface the trainee's name in the author list.

Summarize these data in the body of the proposal. For example, what is the average number of papers published by trainees, how many first author, what has been the impact of these publications on their field of science.

Rationale: This information provides an indicator of the ability of the mentor to foster trainee productivity and allows assessment of the research quality and authorship priority of previous postdoctoral trainees.

Table 7A. Admissions and Completion Records for the Participating Departments and Programs During the Past Five Years (Predoctoral Applicants)

Department / Program	Entering Year	Applicants Applied (TGE) A	Applicants Accepted (TGE) A	Applicants Enrolled (TGE) A/B/C	Trainees Still in Program (TGE) A/B/C	Trainees Completed Program Earned PhD or MD/PhD (TGE) A/B/C	Trainees Left Program Earned Other Degree (TGE) A/B/C	Trainees Left Program Without Degree (TGE) A/B/C	Reason for Leaving Program (if training was not completed)
Department of Biochemistry	2006	8 (5) 0	6 (4) 0	4 (3) 1/0/0	2 (1) 1/0/0	1 (1) 0/0/0	0 (0) 0/0/0	1 (1) 0/0/0	Changed career interests
Department of Biochemistry	2007	9 (7) 1	6 (4) 1	5 (3) 0/0/0	4 (3) 0/0/0	1 (1) 0/0/0	0(0) 0/0/0	0 (0) 0/0/0	
Department of Biochemistry	2008	10 (6) 2	8 (5) 1	5 (3) 1/0/0	4 (3) 0/0/0	0 (0) 0/0/0	1 (1) MS 1/0/0	0 (0) 0/0/0	Went to medical school
Department of Biochemistry	2009	12 (9) 3	10 (6) 1	8 (5) 1/0/0	6 (4) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	2 (1) 0/0/0	1 left for a job in industry; 1 left for reasons unknown
Department of Biochemistry	2010	15 (12) 4	10 (8) 2	8 (6) 2/1/0	8 (6) 2/1/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
Dept Genetics	2006 Last Year	30 (25) 3	15 (12) 2	8 (7) 1/0/0	7 (6) 1/0/0	1 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
Interdepartmental Graduate Program in Genetics	2007 Newly Formed	125 (90) 5	24 (18) 0	18 (15) 0/0/0	5 (4) 00/0	12 (11) 0/0/0	0 (0) 0/0/0	1 (0) 0/0/0	Transferred to Bioengineering PhD program
Interdepartmental Graduate Program in Genetics	2008	123 (91) 3	22 (17) 1	16 (16) 1/0/0	10 (10) 0/0/0	4 (4) 0/0/0	0 (0) 0/0/0	2 (2) 1/0/0	1 transferred to another institution; 1 enrolled in medical school
Interdepartmental Graduate Program in Genetics	2009	122 (85) 5	21 (19) 0	17 (16) 0/0/0	14 (14) 0/0/0	0 (0) 0/0/0	1 (1) MS 0/0/0	2 (1) 0/0/0	1 left for industry; 1 enrolled in dental school

Department / Program	Entering Year	Applicants Applied (TGE) A	Applicants Accepted (TGE) A	Applicants Enrolled (TGE) A/B/C	Trainees Still in Program (TGE) A/B/C	Trainees Completed Program Earned PhD or MD/PhD (TGE) A/B/C	Trainees Left Program Earned Other Degree (TGE) A/B/C	Trainees Left Program Without Degree (TGE) A/B/C	Reason for Leaving Program (if training was not completed)
Interdepartmental Graduate Program in Genetics	20010	130 (83) 5	35 (22) 4	20 (19) 3/0/0	18 (17) 2/0/0	0 (0) 0/0/0	0 (0) 0/0/0	2 (2) 1/0/0	1 transferred to neuroscience training program; 1 teaching science in high school
Total All Programs	2006	38 (30) 3	21 (16) 2	12 (10) 2/0/0	9 (7) 2/0/0	2 (1) 0/0/0	0 (0) 0/0/0	1 (1) 0/0/0	Need not repeat above explanations
	2007	134 (97) 6	30 (22) 1	23 (18) 0/0/0	9 (7) 0/0/0	13 (12) 0/0/0	0 (0) 0/0/0	1 (0) 0/0/0	
	2008	133 (97) 5	30 (22) 2	21 (19) 2/0/0	14 (13) 0/0/0	4 (4) 0/0/0	1 (1) 1/0/0	2 (1) 1/0/0	
	2009	134 (94) 8	31 (25) 1	25 (21) 1/0/0	20 (18) 0/0/0	0 (0) 0/0/0	1 (1) 0/0/0	4 (2) 0/0/0	
	2010	145 (95) 9	45 (30) 6	28 (25) 5/1/0	26 (23) 4/1/0	0 (0) 0/0/0	0 (0) 0/0/0	2 (2) 1/0/0	
Sums all Years		584 (413) 31	157 (115) 12	109 (93) 10/1/0	78 (68) 6/1/0	19 (17) 0/0/0	2 (2) 1/0/0	10 (6) 2/0/0	
Average all Years		117 (83) 6	31 (23) 2	22 (19) 2/0/0	N/A	N/A	N/A	N/A	

Table 7A Instructions: For each participating department/program for each of the past **5** years, list the following information: number(s) of individuals who have formally applied for training; have been accepted for admission; enrolled; are still in the program; completed the program; and left the program. In parenthesis, put the number of the trainees in each group who were Kirschstein-NRSA training grant eligible (TGE). Where indicated, include the number of TGE trainees who were underrepresented minorities (Group A), the number of the TGE trainees who were individuals with disabilities (Group B), and the number of the TGE trainees who were individuals from disadvantaged backgrounds (Group C). Data on Group C may not be required by the specific instructions in the FOA to which you are responding. Do not include students admitted solely to obtain master's degrees. For those who left the program without completing their

training, include the reason for leaving the program. Sort data by department/program and then by year. For programs with multiple entering department/program trainee pools, provide totals for each year, and sums and averages.

Summarize these data in the Program Plan Section 2.3.e Trainee Candidates. Analyze the data in terms of the overall numbers of potential trainees, their sources and enrollment trends, their eligibility for Kirschstein-NRSA support, diversity, and overall success in completing the training program.

Rationale: These data permit the evaluation of the participating departments/programs' abilities to recruit and retain predoctoral trainees through the completion of their PhD requirements. The data permit separate analyses of total trainees, TGE trainees, and the diversity of the trainees. These data are useful in determining the selectivity of the admissions process, the success of recruitment and retention of trainees from diverse backgrounds, and the appropriate number of training positions to be awarded.

Table 7B. Admissions and Completion Records for the Participating Departments and Programs During the Past Five Years (Postdoctoral Applicants)

Department / Program	Entering Year	Previous Degree Type	Applicants Applied (TGE) A	Applicants Accepted (TGE) A	Applicants Entered Program (TGE) A/B/C	Trainees Still in Program (TGE) A/B/C	Trainees Completed Program (TGE) A/B/C	Trainees Left Program (TGE) A/B/C	Reason for Leaving Program (if training was not completed)
Department of Pathology	2006	PhD	6(4) 0	3 (3) 0	1 (1) 0/1/0	1 (1) 0/1/0	0 (0) 0/0/0	0 (0) 0/0/0	
Department of Pathology	2006	MD	4 (3) 1	3 (2) 1	2 (1) 1/0/0	2 (1) 1/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
Department of Pathology	2006	MD/PhD	4 (4) 0	3 (2) 0	3 (2) 0/1/0	2 (1) 0/1/0	0 (0) 0/0/0	1 (1) 0/0/0	1 career change – law school
Department of Pathology	2006	List Other Relevant	1 (1) 0	0 (0) 0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
Department of Pathology	2006	Total	15 (12) 2	9 (7) 1	6 (4) 1/2/0	5 (3) 1/2/0	0 (0) 0/0/0	1 (1) 0/0/0	
Department of Pathology	2007	PhD	8 (6) 2	7 (6) 1	6 (5) 1/0/0	5 (4) 1/0/0	0 (0) 0/0/0	1 (1) 0/0/0	1 left for industry
Department of Pathology	2007	MD	3 (3) 1	2 (2) 1	1 (1) 1/0/0	1 (1) 1/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
Department of Pathology	2007	MD/PhD	2 (2) 0	2 (2) 0	2 (2) 0/1/0	2 (2) 0/1/0	0 (0) 0/0/0	0 (0) 0/0/0	
Department of Pathology	2007	DDS	3 (2) 0	2 (2) 0	2 (1) 0/0/1	2 (1) 0/0/1	0 (0) 0/0/0	0 (0) 0/0/0	
Department of Pathology	2007	Total	16 (13) 3	13 (12) 2	11 (9) 2/1/1	10 (8) 2/1/1	0 (0) 0/0/0	1 (1) 0/0/0	
Department of Pathology	2008	PhD	10 (9) 2	8 (7) 1	6 (5) 1/0/1	3 (3) 0/0/1	1 (1) 0/0/0	2(1) 1/0/0	1 took a teaching position; 1 took a job in industry
Department of Pathology	2008	MD	4 (3) 1	4 (3) 1	3 (2) 1/0/1	3 (2) 1/0/1	0 (0) 0/0/0	0 (0) 0/0/0	
Department of Pathology	2008	MD/PhD	5 (4) 0	4 (3) 0	3 (3) 0/1/0	3 (3) 0/1/0	0 (0) 0/0/0	0 (0) 0/0/0	

Department / Program	Entering Year	Previous Degree Type	Applicants Applied (TGE) A	Applicants Accepted (TGE) A	Applicants Entered Program (TGE) A/B/C	Trainees Still in Program (TGE) A/B/C	Trainees Completed Program (TGE) A/B/C	Trainees Left Program (TGE) A/B/C	Reason for Leaving Program (if training was not completed)
Department of Pathology	2008	DVM	1 (0) 0	0 (0) 0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
Department of Pathology	2008	Total	20 (16) 3	16 (13) 2	12 (10) 2/1/2	9 (8) 1/1/2	1 (1) 0/0/0	2 (1) 1/0/0	
List similar data for other Department / Programs									
Total All Programs	2006		15 (12) 2	9 (7) 1	6 (4) 1/2/0	5 (3) 1/2/0	0 (0) 0/0/0	1 (1) 0/0/0	Moved to another program
	2007		16 (13) 3	13 (12) 2	11 (9) 2/1/1	10 (8) 2/1/1	0 (0) 0/0/0	1 (1) 0/0/0	Dismissed for harassing other lab members
	2008		20 (16) 3	16 (13) 2	12 (10) 2/1/2	9 (8) 1/1/2	1 (1) 0/0/0	2 (1) 1/0/0	1 left to run R43 grant for PI 1 returned to clinical interest
	2009		18 (15) 3	15 (12) 2	10 (8) 1/0/1	8 (7) 1/0/1	0 (0) 0/0/0	0 (0) 0/0/0	
	2010		17 (14) 2	14 (11) 2	9 (7) 1/0/1	9 (7) 1/0/1	0 (0) 0/0/0	0 (0) 0/0/0	
Sums			86 (70) 13	67 (55) 9	48 (38) 7/4/5	41 (33) 6/4/5	1 (1) 0/0/0	4 (3) 1/0/0	
Averages			17 (14) 2.6	13 (11) 1.8	9.6 (7.6) 1/1/1	8.2 (6.6) 1/1/1	0.2 (0.2) 0/0/0	0.8 (0.6) 0.2/0/0	

Table 7B Instructions: For each participating department/program for each of the past **5** years, list the following information: number(s) of individuals who have formally applied for training; have been accepted for admission; enrolled; are still in the program; completed the program; and left the program. In parenthesis put the number of these trainees in each group who were Kirschstein-NRSA training grant eligible (TGE). Where indicated, include the number of the TGE trainees who were underrepresented minorities (Group A), the number of the TGE trainees who were individuals with disabilities (Group B), and the number of the TGE trainees who were individuals from disadvantaged backgrounds (Group C). Data on Group C may not be required by the specific instructions in the FOA to which you are responding. For those who left the program without completing their training, include the reason for leaving the program. Sort data by

department/program, year of application, and previous doctoral degree type of entering trainees. For programs with multiple entering department/program trainee pools, provide totals for each year, and sums and averages.

Programs that select postdoctoral trainees exclusively from candidates who apply to academic department(s) or programs (e.g., Department of Hematology or Interdepartmental Program in Cancer Therapeutics), please provide data for each participating department/program. Include only those postdoctoral applicants who could be considered candidates for the proposed training program. Programs that select trainees exclusively from candidates who are recruited directly to the laboratories of the proposed faculty mentors should list only those candidates who were actually in the laboratories of the faculty mentors and considered for the program. Please indicate in a footnote which system of recruitment is used by this program. **Applicants are strongly urged to contact IC staff mentioned in the FOA for guidance on what data to include in this table.**

Summarize these data in the Program Plan Section 2.3.e Trainee Candidates. Analyze the data in terms of the overall numbers of potential trainees, their sources and trends, their eligibility for Kirschstein-NRSA support, diversity, and overall success in completing the training program.

Rationale: These data permit evaluation of the abilities of the participating departments/programs to recruit and retain postdoctoral trainees through the completion of their training. The data permit separate analyses of total trainees, TGE trainees, and the diversity of the trainees. These data are useful in determining the selectivity of the admissions process, the success of recruitment and retention of trainees from diverse backgrounds, and the appropriate number of training positions to be awarded.

Table 8A. Qualifications of Recent Predoctoral Applicants

Year	Department / Program	Applicant (List by Number)	Previous Institution(s)	Degree(s) & Year(s)	Undergrad GPA	GRE Scores V, Q, A, S (Percentiles) and/or MCAT Scores	Interviewed (Y/N)	Accepted (Y/N)	Enrolled (Y/N)	Support from this Grant (Y/N)
2010	Medical Scientist Training Program	1*	U. of WI	BSN '09	3.63	12, 11, 10, Q	Y	Y	Y	Y
2010	Medical Scientist Training Program	2*	Stanford	BS '09	3.72	11, 13, 11, N	Y	Y	N JHU	N
2010	Medical Scientist Training Program	3	Yale U. Wash. U.	BA '07 MS '09	3.78	660 680 740 10, 9, 11, O	Y	N	N	N
2010	Molecular Biophysics Program	1*	U. of IL	BS '09	4.0	700 730 720 690	Y	Y	Y	Y
2010	Molecular Biophysics Program	2*	Rutgers	BS '07	3.36	710 690 680	Y	Y	Y	Y
2010	Molecular Biophysics Program	3	Berkeley	BS '08	3.68	680 710 720	Y	Y	N UCSF	N
2010	Molecular Biophysics Program	4*	U. of TX	BS '09	3.73	720 690 750 (97%, 79%, 85%)	Y	Y	N JHU	N
2010	Molecular Biophysics Program	5*	Tufts U.	BS '07	3.32	650 670 630	N	N	N	N
2010	Molecular Biophysics Program	6	U. of Kyoto	BS '05	N/A	480 710 720	N	N	N	N

Program Statistics

Total Number of Applicants	Number of TGE Applicants	Applicants Interviewed	Applicants Accepted	Applicants Enrolled	Applicants Supported By This Grant	Average GRE and/or MCAT Scores	Average GPA
9	6	7	6	3	3	702 705 718 11, 11, 11, P	3.65

Table 8A Instructions: List the qualifications and application outcomes of predoctoral applicants to each participating department/program for the **most recent year**. Applicants should be listed anonymously and identified by a number in sequence, rather than by name, to safeguard privacy. Indicate applicants who are Kirschstein-NRSA training grant eligible (TGE) with an asterisk (*). For each applicant provide: previous institution(s) attended, degree(s) and year awarded; GPA normalized to a 4.0 scale; and GRE scores for Verbal, Quantitative, Analytical tests, and any Subject tests if taken (and/or percentiles) or MCAT scores Verbal Reasoning, Physical Sciences, Biological Sciences, and Writing Sample (or DAT scores if relevant). Indicate which applicants were or were not interviewed; accepted; and enrolled. For those who declined an offer of admission, indicate the institution in which they enrolled, if this is known. For renewal applications, indicate those applicants who have been or are currently supported by this grant. Sort applicants by department/program and then in the following order: 1) those who enrolled; 2) those who were accepted, but did not enroll; 3) those who were interviewed, but not offered admission; and 4) any additional applicants that would have been seriously considered for admission, if sufficient funds were available to support them. It may be appropriate to truncate this data after the first 10-20% of those who were not accepted. **Applicants are strongly urged to contact IC staff mentioned in the FOA for guidance on what data to include in this table.**

At the bottom of the table include summary statistics: average GRE and/or MCAT/DAT scores and average GPAs of all applicants listed; and total numbers of students interviewed, offered admission, and enrolled. Indicate the numbers in each group who were TGE. Average GRE and/or MCAT/DAT scores and average GPAs for students who were accepted, and for those who enrolled, would also be useful to include.

Summarize these data in the Program Plan Section 2.3.e Trainee Candidates. Analyze the data in terms of the overall numbers of potential trainees, their previous training, and credentials.

Rationale: The data provided in this table will permit an evaluation of the quality and depth of the applicant pool. The data permit separate analyses for TGE and non-TGE applicants. These data are useful in determining the selectivity of the admissions process, the competitiveness of the program, and the appropriate number of training positions to be awarded.

Table 8B. Qualifications of Recent Postdoctoral Applicants

Year	Department/ Program	Applicant (List by Number)	Previous Institution	Degree(s) & Year(s)	Doctoral Thesis or Other Research Experience & Research Advisor (if relevant)	Residency Training Institution PGY	Offered Position (Y/N)	Entered Program (Y/N)	Support from this Grant (Y/N)
2010	Pathology	1*	U. of WI	DVM '08	Inhibitors of Nitric Oxide Synthase; James, L.	Pathology Cornell Vet PGY2	Y	Y	Y
2010	Pathology	2*	Stanford	MD '09	Pharmacogenetics of anesthetics in wound healing; Jones, J.	Anesthesiology UCSF PGY1	Y	N UNC	N
2010	Pathology	3	Yale U.	MD '09	G Protein Coupled Receptors; Wilson, G.	Pediatrics Harvard PGY1	Y	N	N
2010	Molecular Biophysics Program	1*	U. of IL	PhD '09	Developmental Genetics in Drosophila Smith, J	N/A	Y	Y	Y
2010	Molecular Biophysics Program	2*	Rutgers	PhD '7	Regulation of NF-kB; Felman, R.	N/A	Y	Y	Y
2010	Molecular Biophysics Program	3	Berkeley	PhD '09	Molecular and Genetic Analysis of RNA Viruses; Thomas, JC	N/A	Y	Y	N
2010	Molecular Biophysics Program	4*	Baylor	MD '08	P53 mutations; Johns, L	Oncology Mount Sinai PGY2	Y	N UCSD	N
2010	Molecular Biophysics Program	5*	Tufts U.	PhD. '07 MD '09	Genetics of Neuronal Cell Division; Crocker, S	Neurology MGH PGY1	N	N	N
2010	Molecular Biophysics Program	6	U. of Kyoto	DPhil'08	Regulation of Gene Expression; Roberston	N/A	N	N	N

Table 8B Instructions: List the qualifications and application outcomes of recent postdoctoral applicants to each participating department/program for the most recent year. Data may be included for an additional year, if desired, and may be helpful in the case of

small, variable applicant pools. Applicants should be listed anonymously and identified by a number in sequence, rather than by name, to safeguard privacy. Indicate applicants who are Kirschstein-NRSA training grant eligible (TGE) with an asterisk (*). For each applicant, provide: previous institutions(s) attended, degree(s) and year awarded; thesis research topic or other research topic (if relevant) and research advisor; and residency training (when appropriate), including area of specialization, institution, and PGY. Indicate whether applicants were or were not offered admission and whether they entered the program. For renewal, indicate those applicants who have been or are currently supported by this grant. Sort applicants by department/program, year of application (if data on more than one year are included), and then list those who entered followed by those who did not enter.

Programs that select postdoctoral trainees exclusively from candidates who are recruited to academic department(s) or programs (e.g., Department of Hematology or Interdepartmental Program in Cancer Therapeutics), should provide data for each participating department/program. Include only those postdoctoral applicants who could be considered candidates for the proposed training program. Programs that select trainees exclusively from candidates who are recruited directly to the laboratories of the proposed faculty mentors should list only those candidates who are in the laboratories of the faculty mentors and considered for the program. Please indicate in a footnote which system of recruitment is used by this program. **Applicants are strongly urged to contact IC staff mentioned in the FOA for guidance on what data to include in this table.**

Summarize these data in the Program Plan Section 2.3.e Trainee Candidates. Analyze the data in terms of the overall numbers of potential trainees, their previous training, and credentials.

Rationale: The data provided in this table will permit an evaluation of the quality and depth of the applicant pool. The data permit separate analyses for TGE and non-TGE applicants. These data are useful in determining the selectivity of the admissions process, the competitiveness of the program, and the appropriate number of training positions to be awarded.

Table 9A. Qualifications of the Current Predoctoral Trainees Clearly Associated with the Training Program (New Applications)

Department / Program	Trainee (List by Number)	Previous Institution(s)	Degree(s) & Year(s)	Undergraduate GPA	GRE Scores V, Q, A, S (Percentiles) and/or MCAT Scores	Current Research Mentor	Years in Program	Leave Column Blank
Biochem	1*	U. of WI	BSN '07	3.63	680 720 750	Jones, J.	'08-present	
Genetics	2*	MIT	BS '08	3.72	12, 12, 14, R	Huerta, X.	'08-present	
Genetics	3*	U. Penn. Wash. U.	BA '07 MS '09	3.75	700 710 640 (96% 82% 84%)	Felman, R.	'09-present	
Genetics	4	U. Mich.	BA '09	3.34	650 710 630 (80% 92% 83%)	TBN	'09-present	

Program Statistics

Total Number of Trainees	Number of TGE Trainees	Average GPA	Average GRE / MCAT Scores
4	3	3.61	690, 705, 695 12, 12, 14, R

Table 9A Instructions: List the qualifications of ALL predoctoral trainees currently participating in the activities of the program (including trainees who have not yet chosen a mentor), regardless of source of support or year of training. Trainees should be listed anonymously and identified by a number in sequence, rather than by name, to safeguard privacy. Indicate applicants who are Kirschstein-NRSA training grant eligible (TGE) with an asterisk (*). Include trainees whose training experience is similar to that for the proposed training grant program. For each trainee, list: department/program of entry; previous institutions(s), degree(s) and year awarded; undergraduate GPA; and GRE scores for Verbal, Quantitative, Analytical tests, and any Subject tests if taken (and/or percentiles) or MCAT scores for Verbal Reasoning, Physical Sciences, Biological Sciences tests, and Writing Sample (or DAT scores if relevant); current research mentor; and years in the training program. Sort trainees by year of admission into the program, then by department/program through which they were recruited. Group Kirschstein-NRSA training grant eligible (TGE) trainees first, followed by non-TGE trainees. At the bottom of the table, include summary statistics: average GPAs and average GRE and/or MCAT/DAT scores of all trainees and summary totals for all trainees and TGE trainees.

Summarize these data in the Program Plan Section 2.3.e Trainee Candidates. Analyze the data in terms of the overall numbers of potential trainees, their previous training, and credentials.

Rationale: These data are useful in determining the number and quality of all trainees currently enrolled in the program, and their distribution by department and mentor. These data are useful in determining the appropriate number of training positions to be awarded.

Table 9B. Qualifications of the Current Postdoctoral Trainees Clearly Associated with the Training Program (New Applications)

Department / Program	Trainee (List by Number)	Previous Institution(s)	Degree(s) & Year(s)	Doctoral Thesis or Other Previous Research Experience & Research Advisor (If Relevant)	Residency Training Institution	Current Research Mentor	Years in Program	Leave Column Blank
Clin Pharm	1*	U. Penn	DVM '07	Pharmacogenetics of anesthetics in wound healing. Jones, J.	Anesthesiology U. Penn	Smith	'09-present	
Neurosci	2*	Vanderbilt University	MD. '05	G Protein Coupled Receptors Wilson, G.	Neurology U. Michigan	Green	'07-present	
Neurosci	3*	U. of Michigan	MD '08	Physiology of CCK Evans, K.	Internal Medicine U. Washington	Jones	'08-present	
Biochemistry	4*	Washington U.	PhD '04 MD '06	Inhibitors of Nitric Oxide Synthatase James, L.	Cardiology UTSW	Johnson	'08-09	
Medicine	5*	Duke University	PhD '08	Regulation of NF-kB Felman, R.		Diaz	'08-present	
Pathology	6	Emory University	MD '08	None	Hematology UAZ	Valentino	'09-present	

Program Statistics

Total Number of Trainees	Number of TGE Trainees
6	5

Table 9B Instructions: List the qualifications of ALL postdoctoral trainees currently participating in the activities of the program (including trainees who have not yet chosen a mentor), regardless of source of support or year of training. Trainees should be listed anonymously

and identified by a number in sequence, rather than by name, to safeguard privacy. Indicate applicants who are Kirschstein-NRSA training grant eligible (TGE) with an asterisk (*). For each trainee, list: department/program of entry; previous institution(s), degree(s) and year awarded; thesis research topic or other previous research experience (if relevant) and research advisor; current research mentor; and years in the program. Sort trainees by year of admission into the program, then by department/program through which they were recruited. Group Kirschstein-NRSA training grant eligible (TGE) trainees first, followed by non-TGE trainees. At the bottom of the table, include summary totals for all trainees and TGE trainees.

Programs that select postdoctoral trainees exclusively from candidates who are recruited to academic department(s) or programs (e.g., Department of Hematology or Interdepartmental Program in Cancer Therapeutics) should provide data for each participating department/program. Include only those postdoctoral applicants who could be considered candidates for the proposed training program. Programs that select trainees exclusively from candidates who are recruited directly to the laboratories of the proposed faculty mentors should list only those candidates who are in the laboratories of the faculty mentors and considered for the program. Please indicate in a footnote which system of recruitment is used by this program. **Applicants are strongly urged to contact IC staff mentioned in the FOA for guidance on what data to include in this table.**

Summarize these data in the Program Plan Section 2.3.e Trainee Candidates. Analyze the data in terms of the overall numbers of potential trainees, their previous training, and credentials.

Rationale: These data are useful in determining the number and quality of all trainees currently associated with the program, and their distribution by department and mentor. These data highlight the selectivity of the program over time. These data are useful in determining the appropriate number of training positions to be awarded.

Table 10: Admissions and Completion Records for Underrepresented Minority (URM) Trainees, Trainees with Disabilities, and Trainees from Disadvantaged Backgrounds Clearly Associated With the Training Program

Diversity Recruitment Group	Trainee (List by Number)	Entering Year (Pre/Post)	Department / Program	Source of Support and if Support by NRSA Grant	In Training	Completed Training	Left Without Completing Training	Current Status Career or Employment
URM Trainees	1*	2008 (Pre)	Genetics	T32 GM001122 F31		Y		Postdoctoral Trainee UCSF
URM Trainees	2*	2009 (Post)	Cell Biology	University Fellowship Research			Y	Mentor and student both moved to another institution
URM Trainees	3*	2009 (Post)	Chemistry	Lectureship	Y			
Trainees With Disabilities	1*	2005 (Pre)	Pharmacology	T32 GM001144 F31		Y		Postdoctoral Trainee NYU
Trainees With Disabilities	2*	2008 (Post)	Cell Biology	R01			Y	Career Change
Trainees With Disabilities	3	2009 (Post)	Medicine	Research Associate	Y			
Trainees From Disadvantaged Backgrounds	1*	2007 (Pre)	Genetics	T32 GM001155 F31		Y		Postdoctoral Trainee U. Chicago

Table 10 Instructions: List anonymously by number all underrepresented minority (URM) trainees, trainees with disabilities, and trainees from disadvantaged backgrounds (previously defined) who have been or are currently clearly associated with the training program for the past 5 years, regardless of their source of support. For renewal applications, include all trainees supported by the training grant in any year of their studies and include equivalent trainees from the same training cohort. For New Applications, include trainees whose training experience is similar to that for the proposed training grant program. Indicate their year of entry, whether predoctoral or postdoctoral trainee, entering department/program, and all sources of support during their training with the program (bold grant number if for this training grant). Indicate their current status (i.e., in training, completed training, or left without completing training). For those who have left the program or completed training, include information about their subsequent career development or employment. Indicate Kirschstein-NRSA training grant eligible (TGE) trainees with an asterisk (*). For mixed training grant programs, list predoctoral trainees first and then postdoctoral trainees in each diversity category.

Summarize this data in Research Training Program Plan Section 2.4 Recruitment and Retention Plan to Enhance Diversity.

Rationale: The data provided in this table will permit evaluation of the success of the program in recruiting and retaining URM trainees, and analysis of their support, and begin to establish a record of NIH training of other Diversity Recruitment groups.