

## Instructions and Sample Data Tables for all Tables

[Table 1](#) Membership of Participating Departments/Programs (New Applications)

[Table 1](#) Membership of Participating Departments/Programs (Renewal/Revision Applications)

[Table 2](#) Participating Faculty Members

[Table 3](#) Institutional Training Grant Support Available to Participating Faculty Members, Departments, or Programs

[Table 4](#) Grant and Contract Support of the Participating Faculty Members

[Table 5A](#) Predoctoral Trainees of Participating Faculty Members

[Table 5B](#) Postdoctoral Trainees of Participating Faculty Members

[Table 6A](#) Publications of Research Completed by Predoctoral Trainees (New Applications)

[Table 6B](#) Publications of Research Completed by Postdoctoral Trainees (New Applications)

[Table 6A](#) Publications of Research Completed by Predoctoral Trainees (Renewal Applications)

[Table 6B](#) Publications of Research Completed by Postdoctoral Trainees (Renewal Applications)

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

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

[Table 8A](#) Qualifications of Recent Predoctoral Applicants

[Table 8B](#) Qualifications of Recent Postdoctoral Applicants

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

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

[Table 9A](#) Qualifications of the Current Predoctoral Trainees Clearly Associated with the Training Program (Renewal/Revision Applications)

[Table 9B](#) Qualifications of the Current Postdoctoral Trainees Clearly Associated with the Training Program (Renewal/Revision Applications)

[Table 10](#) Admissions and Completion Records for Underrepresented Minority (URM), Trainees with Disabilities, and Trainees from Disadvantaged Backgrounds Clearly Associated with the Training Program (Renewal Applications, Optional for New Applications)

[Table 11](#) Appointments to the Training Grant For Each Year of the Past Award (Renewal Applications Only)

[Table 12A](#) Predoctoral Trainees Supported by this Training Grant (Renewal Applications Only)

[Table 12B](#) Postdoctoral Trainees Supported by this Training Grant (Renewal Applications Only)

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

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Participating Department or Program    | Faculty Members In Department or Program | Faculty Members Participating in This Application | Predocortical Trainees in Department or Program [Supported by Any NIH Training Grant] | Predocortical 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)<br>1/1/0   |                    | 50 [5]   | 15 (7)<br>1/0/0  |                    |
| Neuroscience Program                   | 32                                       | 20  | 31 [20]   | 14 (7)<br>2/0/1   |                    | 40 [7]   | 23 (10)<br>0/0/1   |                    |
| Dept. of Pharmacology (Medical School) | 25                                       | 5   | 30 [10]   | 5 (3)<br>1/0/0  |                    | 28 [0]   | 12 (6)<br>0/0/1  |                    |
| <b>Totals</b>                          | Need not sum                             | Need not sum                                      | 99 [45]   | 31 (16)<br>4/1/1  |                    | 118 [12]   | 50 (23)<br>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). Predocortical 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 1. Membership of Participating Departments and Programs (Renewal/Revision Applications)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Participating Department or Program    | Faculty Members In Department or Program | Faculty Members Participating in This Application | Predocortical Trainees in Department or Program [Supported by Any NIH Training Grant] | Predocortical Trainees With Participating Faculty Total (TGE) A/B/C | Predocortical Trainees Supported by This Training Grant Total (TGE) A/B/C | Postdoctoral Trainees in Department or Program [Supported by Any NIH Training Grant] | Postdoctoral Trainees With Participating Faculty Total (TGE) A/B/C | Postdoctoral Trainees Supported by This Training Grant (TGE) A/B/C |
|--|--|---|---|---|---|--|--|--|
| Dept. of Biology                       | 45                                       | 14  | 38 [15]   | 12 (6)<br>1/1/0   | 2 (2)<br>1/0/0  | 50 [5]   | 15 (7)<br>1/0/0  | 2 (2)<br>0/0/0   |
| Neuroscience Program                   | 32                                       | 20  | 31 [20]   | 14 (7)<br>2/0/1   | 4 (4)<br>0/1/0  | 40 [7]   | 23 (10)<br>0/0/1   | 2 (2)<br>1/0/0   |
| Dept. of Pharmacology (Medical School) | 25                                       | 5   | 30 [10]   | 5 (3)<br>1/0/0  | 3 (3)<br>0/0/0  | 28 [0]   | 12 (6)<br>0/0/1  | 0 (0)<br>0/0/0   |
| <b>Totals</b>                          | Need not sum                             | Need not sum                                      | 99 [45]   | 31 (16)<br>4/1/1  | 9 (9)<br>1/1/0  | 118 [12]   | 50 (23)<br>1/0/2   | 4 (4)<br>1/0/0   |

**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). Predocortical 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. Include the number of trainees currently supported by **this** training grant. 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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Name/Degree(s)             | Rank             | Primary (& Secondary) Appointment(s)                  | Role in Program    | Research Interest                              |
|----------------------------|------------------|---|--------------------|--|
| Abrams-Johnson, Jane, PhD  | Asst. Prof.      | Pharmacology;<br>(Biochemistry-Medical School)        | Mentor             | Regulation of Synthesis of Biogenic Amines     |
| Jones, Lisa S., MD         | Res. Asst. Prof. | Microbiology and Immunology<br>(Neuroscience Program) | Mentor<br>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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Title of Training Grant                      | Funding Source Including Identifying Number | Active or Pending Project Period | Program Director (Department) | Predocutorial 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<br>Brown<br>Fields<br>Johnson<br>Sung<br>Watson |
| Pharmacological Sciences                     | T32 GM04823-01                              | Pending                          | James, C. (Pharmacology)      | 10   |   |   | 19 (3)  | Jones<br>Jenson<br>Watson                               |
| Genetic Basis of Mental Illness              | T32 MH02708-07                              | 06/07-07/12                      | Johnson, A. (Psychiatry)      | 4  | 4   |   | 7 (2)   | Johnson<br>Watson                                       |
| Interdisciplinary Training in Nanotechnology | Dept of Ed                                  | Pending                          | Small, V. (Engineering)       | 6  | 0   | 2                                       | 12 (2)  | Small<br>Wee  |
| Med into Grad                                | HHMI  | Pending                          | Brown (Cell Biology)          | 4  | 0   |   | 10 (2)  | Brown<br>Jones  |
| <b>Totals</b>                                | 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 (predocutorial, 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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Faculty Member | Faculty Member Role on Project and Grant Title                               | Source of Support Grant Number and Status    | Project Period | Current Year Direct Costs Awarded<br>(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<br>(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<br>(D. Stockton, PD/PI) | 10/07-10/12    | \$165,000  |
| Smith, J.      |  | None   |                |  |
| Zachary, A.    | PI – Human Monoclonal Antibodies as a Therapy for Staphylococcal Enterotoxin | NIH 1 U01 AI-28507-01 *                      | 07/09-07/14    | \$200,000<br>(\$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 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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Mentor(s) | Past / Current | Name of Trainee (Years in Program) | Publication (Authors, Year, Title, Journal, PMID)  |
|-----------|----------------|------------------------------------|--|
| Berg      | Past           | Thompson, P.* (1998-2003)          | Miter, M.H., Owens, R., <b>Thompson, P.</b> , and Berg, L., 2004, "Insulin Treatment of Diabetic Rats," J. Comp. Neurol., 373:350-378.   |
| Chu       | Current        | Greenstein, M.* (2008- )           | <b>Greenstein, M.</b> , and Chu, J., 2010, "Sympathetic Noradrenergic Innervation of Drosophila," Genetics (In press). PMC Journal in process.   |
| Jones     | Past           | Brown, B.* (2000-2006)             | <b>Brown, B.</b> and Jones J., 2005, "Repeated Sequences in Drosophila," J. Mol. Biol., 242:503-510.<br>Corman, T., Walker, J.D., and <b>Brown, B.</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- )                | <b>Smith, B.</b> and Neustaff, 2010, Preliminary x-ray crystal structure of beta-adrenergic receptor. Biophysical J., Abstract.  |
| Peters    | Current        | Samuels, J.* (2007- )              | <b>Samuels, J.</b> and Peters M., 2009, "Molecular Analysis of RNA Viruses," Molecular Biology of the Cell, Vol. 11, 12-18. PMID: PMC2583929   |

**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.

When citing articles that fall under the Public Access Policy, were authored or co-authored by the trainee and arose from NIH support, provide the NIH Manuscript Submission reference number (e.g., NIHMS97531) or the PubMed Central (PMC) reference number (e.g.,

PMCID234567) for each article. If the PMCID is not yet available because the Journal submits articles directly to PMC on behalf of their authors, indicate "PMC Journal - In Process." A list of these Journals is posted at: [http://publicaccess.nih.gov/submit\\_process\\_journals.htm](http://publicaccess.nih.gov/submit_process_journals.htm).

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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Mentor(s) | Past / Current | Name of Trainee (Years in Program) | Publication (Authors, Year, Title, Journal, PMID)  |
|-----------|----------------|------------------------------------|--|
| Berg      | Past           | Thomas, P* (2005-2007)             | Miter, M.H., Owens, R., <b>Thomas, P.</b> , and Berg, L., 2006, "Insulin Deficiency in Diabetic Rats," J. Nutrition, 373:350-378.  |
| Chew      | Current        | Greenstuff, M.* (2010- )           | <b>Greenstuff, M.</b> , and Chew, J., 2010, "Non-digestible fibre influences bioavailability of vitamins", J. Pharm Sci. (In press). PMID: PMC Journal in Press.   |
| Easygai   | Past           | Schultz, H. (2006-2008)            | No Publications  |
| Newpeeye  | Current        | Jones, W.* (2010 )                 | No Publications  |
| Peters    | Current        | Samuels, J.* (2009- )              | <b>Samuels, J.</b> and Peters M., 2009, "Molecular Analysis of DNA Viruses," Molecular Biology of the Cell, Vol. 11, 12-18. PMID: PMC2985900   |
| Smith     | Past           | Green, V.* (2005-2008)             | <b>Green, V.</b> and Smith, S., 2006, "Repeated Sequences in Xenopus," J. Mol. Biol., 244:103-110.<br>Smith, S., Watkins, J.D., and <b>Green, V.</b> , 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.

When citing articles that fall under the Public Access Policy, were authored or co-authored by the trainee and arose from NIH support, provide the NIH Manuscript Submission reference number (e.g., NIHMS97531) or the PubMed Central (PMC) reference number (e.g.,

PMCID234567) for each article. If the PMCID is not yet available because the Journal submits articles directly to PMC on behalf of their authors, indicate "PMC Journal - In Process." A list of these Journals is posted at: [http://publicaccess.nih.gov/submit\\_process\\_journals.htm](http://publicaccess.nih.gov/submit_process_journals.htm).

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 6A. Publications of Research Completed by Predoctoral Trainees (Renewal/Revision Applications)  
(Group Past and Current Trainees Separately, then sort by Year of Entry)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| <b>Name of Trainee<br/>(Years in Program)</b> | <b>Past /<br/>Current</b> | <b>Mentor(s)</b> | <b>Publication (Authors, Year, Title, Journal, PMID)</b>   |
|---|---------------------------|------------------|--|
| Thompson, P.**<br>(1998-2003)                 | Past                      | Berg             | Miter, M.H., Owens, R., <b>Thompson, P.</b> , and Berg, L., 2004, "Insulin Treatment of Diabetic Rats," J. Comp. Neurol., 373:350-378.   |
| Brown, B.**<br>(2000-2006)                    | Past                      | Jones            | <b>Brown, B.</b> and Jones J., 2005, "Repeated Sequences in Drosophila," J. Mol. Biol., 242:503-510.<br>Corman, T., Walker, J.D., and <b>Brown, B.</b> , 2006, "Ontogeny of Tolerance to Alloantigens," Am. J. Anat., 146:156. |
| Wand, D.<br>(2000-2007)                       | Past                      | Layback          | No Publications  |
| Samuels, J.*<br>(2007- )                      | Current                   | Peters           | <b>Samuels, J.</b> and Peters M., 2009, "Molecular Analysis of RNA Viruses," Molecular Biology of the Cell, Vol. 11, 12-18. PMID: PMC2583929   |
| Greenstein, M.**<br>(2008- )                  | Current                   | Chu              | <b>Greenstein, M.</b> , and Chu, J., 2010, "Sympathetic Noradrenergic Innervation of Drosophila," Genetics (In press). PMC Journal in process.   |
| Smith, B**<br>(2009- )                        | Current                   | Neustaff         | <b>Smith, B.</b> and Neustaff, 2010, Preliminary x-ray crystal structure of beta-adrenergic receptor. Biophysical J., Abstract.  |

**Table 6A Instructions:** For Renewal (Type 2) Applications

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

List publications of ALL predoctoral trainees currently or [previously supported](#) by the training grant and of other representative trainees clearly associated with the [training program](#). Include trainees appointed/representative for the past 10 years. Group past trainees separately from current trainees. Sort each group by their 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 (\*). Designate those supported by this training grant with a double asterisk (\*\*). Indicate the trainee's current mentor(s), if chosen. List all publications of trainees resulting from work conducted during their period of predoctoral 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.

When citing articles that fall under the Public Access Policy, were authored or co-authored by the trainee and arose from NIH support, provide the NIH Manuscript Submission reference number (e.g., NIHMS97531) or the PubMed Central (PMC) reference number (e.g., PMCID234567) for each article. If the PMCID is not yet available because the Journal submits articles directly to PMC on behalf of their authors, indicate "PMC Journal - In Process." A list of these Journals is posted at:  
[http://publicaccess.nih.gov/submit\\_process\\_journals.htm](http://publicaccess.nih.gov/submit_process_journals.htm).

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, how many trainees graduate without any first author publication.

**Rationale:** This information provides an indicator of trainee productivity, research quality, and priority of authorship; and the success of faculty members in facilitating predoctoral trainee publication.

**Table 6B. Publications of Research Completed by Postdoctoral Trainees (Renewal/Revision Application)  
(Group Past and Current Trainees Separately, then sort by Year of Entry)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Name of Trainee<br>(Years in Program) | Past /<br>Current | Mentor(s) | Publication (Authors, Year, Title, Journal, PMID)  |
|---------------------------------------|-------------------|-----------|--|
| Green, V.*<br>(2005-2008)             | Past              | Smith     | <b>Green, V.</b> and Smith, S., 2006, "Repeated Sequences in Xenopus," J. Mol. Biol., 244:103-110.<br>Smith, S., Watkins, J.D., and <b>Green, V.</b> , 2007, "Tolerance to Alloantigens in Frogs," Am. J. Anat., 146:156 (abstract). |
| Thomas, P*<br>(2005-2007)             | Past              | Berg      | Miter, M.H., Owens, R., <b>Thomas, P.</b> , and Berg, L., 2006, "Insulin Deficiency in Diabetic Rats," J. Nutrition, 373:350-378.  |
| Schultz, H.<br>(2006-2008)            | Past              | Easygai   | No Publications  |
| Samuels, J.*<br>(2009- )              | Current           | Peters    | <b>Samuels, J.</b> and Peters M., 2009, "Molecular Analysis of DNA Viruses," Molecular Biology of the Cell, Vol. 11, 12-18. PMID: PMC2985900   |
| Greenstuff, M.*<br>(2010- )           | Current           | Chew      | <b>Greenstuff, M.</b> , and Chew, J., 2010, "Non-digestible fibre influences bioavailability of vitamins", J. Pharm Sci. (In press). PMID: PMC Journal in Press.   |
| Jones, W.*<br>(2010 )                 | Current           | Newpeeye  | No Publications  |

**Table 6B Instructions:** For Renewal (Type 2) Applications

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

For Renewal/Revision applications, list publications of ALL postdoctoral trainees currently or [previously supported](#) by the training grant and all other representative trainees clearly associated with the [training program](#). Include trainees appointed/representative for the past 10 years. Group past trainees separately from current trainees. Sort each group by their year of entry into postdoctoral training with their current faculty mentor or 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 (\*). Designate those supported by this training grant with a double asterisk (\*\*). Indicate the trainee's current mentor(s), if chosen. List All publications of trainees resulting from work during their period of postdoctoral 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.

When citing articles that fall under the Public Access Policy, were authored or co-authored by the trainee and arose from NIH support, provide the NIH Manuscript Submission reference number (e.g., NIHMS97531) or the PubMed Central (PMC) reference number (e.g., PMCID234567) for each article. If the PMCID is not yet available because the Journal submits articles directly to PMC on behalf of their authors, indicate "PMC Journal - In Process." A list of these Journals is posted at:  
[http://publicaccess.nih.gov/submit\\_process\\_journals.htm](http://publicaccess.nih.gov/submit_process_journals.htm).

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 trainee productivity, research quality, and priority of authorship; and the success of faculty members in facilitating postdoctoral trainee publication.

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

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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)<br>0                 | 6 (4)<br>0                  | 4 (3)<br>1/0/0                  | 2 (1)<br>1/0/0                        | 1 (1)<br>0/0/0  | 0 (0)<br>0/0/0  | 1 (1)<br>0/0/0                                   | Changed career interests   |
| Department of Biochemistry                     | 2007                 | 9 (7)<br>1                 | 6 (4)<br>1                  | 5 (3)<br>0/0/0                  | 4 (3)<br>0/0/0                        | 1 (1)<br>0/0/0  | 0(0)<br>0/0/0   | 0 (0)<br>0/0/0                                   |  |
| Department of Biochemistry                     | 2008                 | 10 (6)<br>2                | 8 (5)<br>1                  | 5 (3)<br>1/0/0                  | 4 (3)<br>0/0/0                        | 0 (0)<br>0/0/0  | 1 (1) MS<br>1/0/0                                     | 0 (0)<br>0/0/0                                   | Went to medical school   |
| Department of Biochemistry                     | 2009                 | 12 (9)<br>3                | 10 (6)<br>1                 | 8 (5)<br>1/0/0                  | 6 (4)<br>0/0/0                        | 0 (0)<br>0/0/0  | 0 (0)<br>0/0/0  | 2 (1)<br>0/0/0                                   | 1 left for a job in industry;<br>1 left for reasons unknown        |
| Department of Biochemistry                     | 2010                 | 15 (12)<br>4               | 10 (8)<br>2                 | 8 (6)<br>2/1/0                  | 8 (6)<br>2/1/0                        | 0 (0)<br>0/0/0  | 0 (0)<br>0/0/0  | 0 (0)<br>0/0/0                                   |  |
| Dept Genetics                                  | 2006<br>Last Year    | 30 (25)<br>3               | 15 (12)<br>2                | 8 (7)<br>1/0/0                  | 7(6)<br>1/0/0                         | 1 (0)<br>0/0/0  | 0 (0)<br>0/0/0  | 0 (0)<br>0/0/0                                   |  |
| Interdepartmental Graduate Program in Genetics | 2007<br>Newly Formed | 125 (90)<br>5              | 24 (18)<br>0                | 18 (15)<br>0/0/0                | 5 (4)<br>00/0                         | 12 (11)<br>0/0/0  | 0 (0)<br>0/0/0  | 1 (0)<br>0/0/0                                   | Transferred to Bioengineering PhD program                          |
| Interdepartmental Graduate Program in Genetics | 2008                 | 123 (91)<br>3              | 22 (17)<br>1                | 16 (16)<br>1/0/0                | 10 (10)<br>0/0/0                      | 4 (4)<br>0/0/0  | 0 (0)<br>0/0/0  | 2 (2)<br>1/0/0                                   | 1 transferred to another institution; 1 enrolled in medical school |
| Interdepartmental Graduate Program in Genetics | 2009                 | 122 (85)<br>5              | 21 (19)<br>0                | 17 (16)<br>0/0/0                | 14 (14)<br>0/0/0                      | 0 (0)<br>0/0/0  | 1 (1) MS<br>0/0/0                                     | 2 (1)<br>0/0/0                                   | 1 left for industry;<br>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)<br>5              | 35 (22)<br>4                | 20 (19)<br>3/0/0                | 18 (17)<br>2/0/0                      | 0 (0)<br>0/0/0  | 0 (0)<br>0/0/0  | 2 (2)<br>1/0/0                                   | 1 transferred to neuroscience training program; 1 teaching science in high school |
| Total All Programs                             | 2006          | 38 (30)<br>3               | 21 (16)<br>2                | 12 (10)<br>2/0/0                | 9 (7)<br>2/0/0                        | 2 (1)<br>0/0/0  | 0 (0)<br>0/0/0  | 1 (1)<br>0/0/0                                   | Need not repeat above explanations  |
|  | 2007          | 134 (97)<br>6              | 30 (22)<br>1                | 23 (18)<br>0/0/0                | 9 (7)<br>0/0/0                        | 13 (12)<br>0/0/0  | 0 (0)<br>0/0/0  | 1 (0)<br>0/0/0                                   |   |
|  | 2008          | 133 (97)<br>5              | 30 (22)<br>2                | 21 (19)<br>2/0/0                | 14 (13)<br>0/0/0                      | 4 (4)<br>0/0/0  | 1 (1)<br>1/0/0  | 2 (1)<br>1/0/0                                   |   |
|  | 2009          | 134 (94)<br>8              | 31 (25)<br>1                | 25 (21)<br>1/0/0                | 20 (18)<br>0/0/0                      | 0 (0)<br>0/0/0  | 1 (1)<br>0/0/0  | 4 (2)<br>0/0/0                                   |   |
|  | 2010          | 145 (95)<br>9              | 45 (30)<br>6                | 28 (25)<br>5/1/0                | 26 (23)<br>4/1/0                      | 0 (0)<br>0/0/0  | 0 (0)<br>0/0/0  | 2 (2)<br>1/0/0                                   |   |
| Sums all Years                                 |               | 584 (413)<br>31            | 157 (115)<br>12             | 109 (93)<br>10/1/0              | 78 (68)<br>6/1/0                      | 19 (17)<br>0/0/0  | 2 (2)<br>1/0/0  | 10 (6)<br>2/0/0                                  |   |
| Average all Years                              |               | 117 (83)<br>6              | 31 (23)<br>2                | 22 (19)<br>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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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)<br>0                  | 3 (3)<br>0                  | 1 (1)<br>0/1/0                         | 1 (1)<br>0/1/0                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |  |
| Department of Pathology | 2006          | MD                   | 4 (3)<br>1                 | 3 (2)<br>1                  | 2 (1)<br>1/0/0                         | 2 (1)<br>1/0/0                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |  |
| Department of Pathology | 2006          | MD/PhD               | 4 (4)<br>0                 | 3 (2)<br>0                  | 3 (2)<br>0/1/0                         | 2 (1)<br>0/1/0                        | 0 (0)<br>0/0/0                         | 1 (1)<br>0/0/0                    | 1 career change – law school                               |
| Department of Pathology | 2006          | List Other Relevant  | 1 (1)<br>0                 | 0 (0)<br>0                  | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |  |
| Department of Pathology | 2006          | Total                | 15 (12)<br>2               | 9 (7)<br>1                  | 6 (4)<br>1/2/0                         | 5 (3)<br>1/2/0                        | 0 (0)<br>0/0/0                         | 1 (1)<br>0/0/0                    |  |
| Department of Pathology | 2007          | PhD                  | 8 (6)<br>2                 | 7 (6)<br>1                  | 6 (5)<br>1/0/0                         | 5 (4)<br>1/0/0                        | 0 (0)<br>0/0/0                         | 1 (1)<br>0/0/0                    | 1 left for industry  |
| Department of Pathology | 2007          | MD                   | 3 (3)<br>1                 | 2 (2)<br>1                  | 1 (1)<br>1/0/0                         | 1 (1)<br>1/0/0                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |  |
| Department of Pathology | 2007          | MD/PhD               | 2 (2)<br>0                 | 2 (2)<br>0                  | 2 (2)<br>0/1/0                         | 2 (2)<br>0/1/0                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |  |
| Department of Pathology | 2007          | DDS                  | 3 (2)<br>0                 | 2 (2)<br>0                  | 2 (1)<br>0/0/1                         | 2 (1)<br>0/0/1                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |  |
| Department of Pathology | 2007          | Total                | 16 (13)<br>3               | 13 (12)<br>2                | 11 (9)<br>2/1/1                        | 10 (8)<br>2/1/1                       | 0 (0)<br>0/0/0                         | 1 (1)<br>0/0/0                    |  |
| Department of Pathology | 2008          | PhD                  | 10 (9)<br>2                | 8 (7)<br>1                  | 6 (5)<br>1/0/1                         | 3 (3)<br>0/0/1                        | 1 (1)<br>0/0/0                         | 2(1)<br>1/0/0                     | 1 took a teaching position; 1 took a job in industry       |
| Department of Pathology | 2008          | MD                   | 4 (3)<br>1                 | 4 (3)<br>1                  | 3 (2)<br>1/0/1                         | 3 (2)<br>1/0/1                        | 0 (0)<br>0/0/0                         | 0 (0)<br>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          | MD/PhD               | 5 (4)<br>0                 | 4 (3)<br>0                  | 3 (3)<br>0/1/0                         | 3 (3)<br>0/1/0                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |   |
| Department of Pathology                           | 2008          | DVM                  | 1 (0)<br>0                 | 0 (0)<br>0                  | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |   |
| Department of Pathology                           | 2008          | Total                | 20 (16)<br>3               | 16 (13)<br>2                | 12 (10)<br>2/1/2                       | 9 (8)<br>1/1/2                        | 1 (1)<br>0/0/0                         | 2 (1)<br>1/0/0                    |   |
| List similar data for other Department / Programs |               |                      |                            |                             |  |                                       |  |                                   |   |
| Total All Programs                                | 2006          |                      | 15 (12)<br>2               | 9 (7)<br>1                  | 6 (4)<br>1/2/0                         | 5 (3)<br>1/2/0                        | 0 (0)<br>0/0/0                         | 1 (1)<br>0/0/0                    | Moved to another program  |
|   | 2007          |                      | 16 (13)<br>3               | 13 (12)<br>2                | 11 (9)<br>2/1/1                        | 10 (8)<br>2/1/1                       | 0 (0)<br>0/0/0                         | 1 (1)<br>0/0/0                    | Dismissed for harassing other lab members                         |
|   | 2008          |                      | 20 (16)<br>3               | 16 (13)<br>2                | 12 (10)<br>2/1/2                       | 9 (8)<br>1/1/2                        | 1 (1)<br>0/0/0                         | 2 (1)<br>1/0/0                    | 1 left to run R43 grant for PI<br>1 returned to clinical interest |
|   | 2009          |                      | 18 (15)<br>3               | 15 (12)<br>2                | 10 (8)<br>1/0/1                        | 8 (7)<br>1/0/1                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |   |
|   | 2010          |                      | 17 (14)<br>2               | 14 (11)<br>2                | 9 (7)<br>1/0/1                         | 9 (7)<br>1/0/1                        | 0 (0)<br>0/0/0                         | 0 (0)<br>0/0/0                    |   |
| Sums  |               |                      | 86 (70)<br>13              | 67 (55)<br>9                | 48 (38)<br>7/4/5                       | 41 (33)<br>6/4/5                      | 1 (1)<br>0/0/0                         | 4 (3)<br>1/0/0                    |   |
| Averages  |               |                      | 17 (14)<br>2.6             | 13 (11)<br>1.8              | 9.6 (7.6)<br>1/1/1                     | 8.2 (6.6)<br>1/1/1                    | 0.2 (0.2)<br>0/0/0                     | 0.8 (0.6)<br>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**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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<br>JHU       | N                             |
| 2010 | Medical Scientist Training Program | 3                          | Yale U.<br>Wash. U.     | BA '07<br>MS '09    | 3.78          | 660 680 740<br>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<br>UCSF      | N                             |
| 2010 | Molecular Biophysics Program       | 4*                         | U. of TX                | BS '09              | 3.73          | 720 690 750<br>(97%, 79%, 85%)                         | Y                 | Y              | N<br>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<br>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**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Year | Department/<br>Program       | Applicant<br>(List by<br>Number) | Previous<br>Institution | Degree(s)<br>& Year(s) | Doctoral Thesis or Other<br>Research Experience &<br>Research Advisor<br>(if relevant) | Residency Training<br>Institution PGY | Offered<br>Position<br>(Y/N) | Entered<br>Program<br>(Y/N) | Support<br>from this<br>Grant<br>(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<br>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<br>UCSD                   | N                                      |
| 2010 | Molecular Biophysics Program | 5*                               | Tufts U.                | PhD. '07<br>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 institution(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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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<br>MS '09    | 3.75              | 700 710 640<br>(96% 82% 84%)                           | Felman, R.              | '09-present      |                    |
| Genetics             | 4                        | U. Mich.                | BA '09              | 3.34              | 650 710 630<br>(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<br>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)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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<br>MD '06   | Inhibitors of Nitric Oxide Synthetase 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 9A. Qualifications of the Current Predoctoral Trainees Clearly Associated with the Training Program (Renewals/Revisions Applications)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Department / Program | Trainee (List by Number) | Previous Institution(s) | Degree(s) & Year(s) | Undergraduate GPA | GRE Scores / (Percentiles) V, Q, Adv and/or MCAT Scores | Current Research Mentor | Years in Program | Calendar Years Appointed to This Grant |
|----------------------|--------------------------|-------------------------|---------------------|-------------------|---|-------------------------|------------------|--|
| Biochem              | 1*                       | U. of WI                | BSN '07             | 3.63              | 680 720 750   | Jones, J.               | '08-present      | 2008-2009                              |
| Genetics             | 2*                       | MIT                     | BS '08              | 3.72              | 12, 12, 14, R   | Huerta, X.              | '08-present      | 2009-2010                              |
| Genetics             | 3*                       | U. Penn. Wash. U.       | BA '07<br>MS '09    | 3.75              | 700 710 640<br>(96% 82% 84%)                            | Felman, R.              | '09-present      | 2009-2010                              |
| Genetics             | 4                        | U. Mich.                | BA '09              | 3.34              | 650 710 630<br>(80% 92% 83%)                            | TBN                     | '09-present      | N/A                                    |

**Program Statistics**

| Total Number of Trainees | Number of TGE Trainees | Average GPA | Average GRE / MCAT Scores      |
|--------------------------|------------------------|-------------|--------------------------------|
| 4                        | 3                      | 3.61        | 690, 705, 695<br>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 trainees who are Kirschstein-NRSA training grant eligible (TGE) with an asterisk (\*). Include all trainees supported by the training grant in any year of their studies and designate them with a double asterisk (\*\*). Include also trainees from the same training cohorts who were not supported by the training grant. For each trainee, list: department/program of entry; previous institution(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](#). List years of support for those appointed to the training grant. 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 highlight the selectivity of appointments to the training grant over time. 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 (Renewals/Revisions)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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 | Calendar Years Appointed to This Grant |
|----------------------|--------------------------|-------------------------|---------------------|--|---------------------------------|-------------------------|------------------|--|
| Clin Pharm           | 1*                       | U. Penn                 | DVM '07             | Pharmacogenetics of anesthetics in wound healing. Jones, J.                            | Anesthesiology U. Penn          | Smith                   | '09-present      | 2009                                   |
| Neurosci             | 2*                       | Vanderbilt University   | MD. '05             | G Protein Coupled Receptors Wilson, G.   | Neurology U. Michigan           | Green                   | '07-present      | 2009                                   |
| Neurosci             | 3*                       | U. of Michigan          | MD '08              | Physiology of CCK Evans, K.  | Internal Medicine U. Washington | Jones                   | '08-present      | 2010                                   |
| Biochemistry         | 4*                       | Washington U.           | PhD '04<br>MD '06   | Inhibitors of Nitric Oxide Synthetase James, L.  | Cardiology UTSW                 | Johnson                 | '08-09           | 2009-2010                              |
| Medicine             | 5*                       | Duke University         | PhD '08             | Regulation of NF-kB Felman, R.   |                                 | Diaz                    | '08-present      | 2010                                   |
| Pathology            | 6                        | Emory University        | MD '08              | None   | Hematology UAZ                  | Valentino               | '09-present      | 2009                                   |

**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 renewal applications, include all trainees supported by the training grant in any year of their studies and designate them with a double asterisk (\*\*). Include also equivalent trainees from the same training cohort who were not supported by the training grant. For new applications, include trainees whose training experience is similar to that for the proposed training grant program. 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. For renewal applications, list years of support for those appointed to the training grant. 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. For renewal applications, these data highlight the selectivity of appointments to the training grant 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**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| 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.

**Table 11. Appointments to the Training Grant For Each Year of the Past Award (Renewal Applications Only)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

| Grant Year   | 2005-2006 | 2006-2007             | 2007-2008 | 2008-2009             | 2009-2010 |
|--|-----------|-----------------------|-----------|-----------------------|-----------|
| <b>Predoctoral Positions Awarded (Months of Support)</b>                                 | 10 (120)  | 12 (144)              | 14 (168)  | 14 (168)              | 14 (168)  |
| <b>Predoctoral Trainees Appointed (Months of Support Used)</b>                           | 10 (120)  | 13 <sup>a</sup> (144) | 14 (168)  | 13 <sup>b</sup> (156) | 14 (168)  |
| <b>Predoctoral URM Trainees Appointed (Months of Support)</b>                            | 1 (12)    | 2 (24)                | (0)       | 1 (12)                | 1 (12)    |
| <b>Predoctoral Trainees with Disabilities Appointed (Months of Support)</b>              | 1 (12)    | 0 (0)                 | 1 (12)    | 2 (12)                | 0 (0)     |
| <b>Predoctoral Trainees from Disadvantaged Background Appointed (Months of Support)</b>  | 0 (0)     | 0 (0)                 | 0 (0)     | 0 (0)                 | 1 (12)    |
| <b>Postdoctoral Positions Awarded (Months of Support)</b>                                | 4 (48)    | 4 (48)                | 4 (48)    | 4 (48)                | 4 (48)    |
| <b>Postdoctoral Trainees With MD Appointed</b>   | 1         | 1                     | 2         | 1                     | 2         |
| <b>Postdoctoral Trainees With MD/PhD Appointed</b>                                       | 2         | 1                     | 1         | 0                     | 0         |
| <b>Postdoctoral Trainees With PhD Appointed</b>  | 1         | 1                     | 0         | 1                     | 2         |
| <b>Postdoctoral Trainees With Other Degree Appointed</b>                                 | 0         | DrPH                  | DrPH      | PharmD                | 0         |
| <b>Postdoctoral Trainees Appointed (Months of Support Used)</b>                          | 4 (48)    | 4 (48)                | 4 (48)    | 3 (38) <sup>c</sup>   | 4 (48)    |
| <b>Postdoctoral URM Trainees Appointed (Months of Support)</b>                           | 1 (12)    | 2 (24)                | 0 (0)     | 1 (12)                | 1 (12)    |
| <b>Postdoctoral Trainees with Disabilities Appointed (Months of Support)</b>             | 0 (0)     | 0 (0)                 | 0 (0)     | 0 (0)                 | 0 (0)     |
| <b>Postdoctoral Trainees from Disadvantaged Background Appointed (Months of Support)</b> | 0 (0)     | 0 (0)                 | 0 (0)     | 0 (0)                 | 1 (12)    |

<sup>a</sup> One trainee left after 6 months and a second trainee was appointed for the remainder of the year.

<sup>b</sup> One position was not filled.

<sup>c</sup> A fourth trainee was appointed, but fell ill and dropped out after 2 months. It was then too late to recruit a replacement trainee.

The sample data is for Institutes that allow trainees to be appointed for less than 12 months in a given budget year. Institute policies may vary. Check with the relevant IC specific program announcements and instructions.

**Table 11 Instructions:** For each year of the grant since the last competing application, list the following: 1) total number of positions awarded in each training category and in parenthesis the number of months; 2) number of predoctoral trainees appointed and in parenthesis the number of months of support used; and 3) number of postdoctoral trainees appointed, with entering degrees, and in parenthesis the number of months used. Delete rows that are not relevant to the type of training support awarded. For both types of

training position, indicate the number of trainees from underrepresented groups who are appointed and in parenthesis the months of support used. If any trainee positions were not filled, provide the reason in a footnote.

Summarize this data in Research [Training Program](#) Plan Section 2.6 Progress Report. It may be useful to mention this under Section 2.4 Recruitment and Retention Plan to Enhance Diversity as well.

**Rationale:** For renewal applications, the data provided in this table permits evaluation of the utilization of awarded training positions.

**Table 12A. Predoctoral Trainees Supported by This Training Grant (Renewal/Revision Applications and Non-Competing Continuation Progress Reports Only)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

*Predoctoral (and MSTP) Trainees (Listed Sequentially by Entering Class)*

*Enter Source(s) of Support and Academic Year for Each Grant Year*

| Trainee, Year of Entry, Prior Degree & Institution (Mentor – Department / Program) | Grant Year -01 00-01 | Grant Year -02 01-02 | Grant Year -03 02-03 | Grant Year -04 03-04 | Grant Year -05 04-05 | Grant Year -06 05-06 | Grant Year -07 06-07 | Grant Year -08 07-08 | Grant Year -09 08-09 | Grant Year -10 09-10 | Title of Research Project or Research Topic   | Degree(s) Received (Year) | Current Position and Institution (Grant Support Obtained)             |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|---------------------------|---|
| Cox, C., 1996 BA, Cornell Univ. (Jones-Biochem.)                                   | TG                   | TG                   | RG                   | RG/TG3               |                      |                      |                      |                      |                      |                      | Cloning of Human Globin Genes                 | MD, PhD (2002)            | Asst. Prof. Hematology, Rutgers (50% clinical, 50% research, NIH K11) |
| Smith, J. G., 1997 BS, Iowa State U. (Gordon-MCB)                                  | TG                   | TG                   | RG                   |                      |                      |                      |                      |                      |                      |                      | Structural Studies of Membrane-Bound Proteins | M.S. (2001)               | Parke-Davis (Lab. Technician)   |
| Johnson, J., 2004 BPharm, Duquesne (Jacobs-Virology)                               |                      |                      |                      |                      | TG2                  | TG                   | TG                   | RG                   | RG                   |                      | Regulation of EBV Gene Expression             | PhD (2007)                | Postdoctoral Trainee w/C. Chen, Univ. of CA, Davis                    |
| Smolock, Y., 2007 BS, UCLA (Rifkind-Genetics)                                      |                      |                      |                      |                      |                      |                      |                      | UF                   | UF                   | TG                   | Purine Synthesis Mutants in Mammalian Cells   |                           | In Training   |
| Thomas, G., 2009 DVM, U. Penn (unassigned)   |                      |                      |                      |                      |                      |                      |                      |                      |                      | TG                   |   |                           | In Training   |

**Program Statistics**

| Percentage of T32 Appointees Entering Graduate School 10 Years Ago That Completed Ph.D.s | Average Time to Ph.D. for T32 Appointees in the Last 10 Years (not including leaves of absence) |
|--|---|
| 50%  | 6.5 years   |

**Table 12 A Instructions:** List sequentially, by [entering year](#), all trainees who were or are currently supported by this training grant. For previous trainees, include up to the previous 10 years. For each student provide: 1) name; 2) year of entry into the [training program](#); 3) prior institution and degree at entry; 4) in parenthesis name of research mentor and department/program; 5) the source of support during each year of training, e.g., this training grant, another training grant (specify), research grant, university fellowship, individual fellowship (specify), etc.; 6) research topic; 7) degree and year awarded, and 8) for trainees who have completed the program, their current positions, rank and/or title and institutional affiliations, and grants obtained, if any. Enter all trainees who received support from this grant including those who did not complete the training program for any reason.

In the Program Statistics section, report: 1) the percentage of trainees entering 10 years ago and receiving support from this training grant at some point during graduate school that received Ph.D.s or equivalent research doctoral degrees, and 2) the average time to degree for all trainees appointed to this training grant completing Ph.D.s in the last ten years, calculated to one decimal place (e.g., 5.5 years), excluding any officially-approved leaves of absence. In calculating these program statistics, students transferring to medical school or other doctoral-level professional programs should be included in the entering class, but not considered to have earned a Ph.D.-equivalent degree. Individuals transferring to or from Ph.D. programs in similar fields at other institutions should be excluded from both the entering and graduating cohorts in calculating completion and time to degree.

Time to degree should be calculated as the period from enrollment in a doctoral degree program at the reporting institution to the conferral of a Ph.D. or equivalent research doctoral degree, less any officially-approved leaves of absence. If a student earns a master's degree from the reporting institution prior to and in conjunction with fulfilling the requirements for the research doctoral degree, or an additional doctoral degree as part of a dual-degree program (e.g., M.D./Ph.D., D.D.S/Ph.D.), time to degree should be calculated from entry into the first degree program.

For Non-Competing Continuation Progress Reports, provide updated trainee information, reflecting new appointments and other changes over the reporting period. Do not include data that is older than ten years.

Explain coding of source of support in a footnote. For example: TG = this training grant, RG = research grant, UF = university funds, TA= teaching assistantships, TG2 = another training grant (e.g., Neuroscience training), F = individual fellowships (e.g. university fellow, NRSA, NSF, foundations, etc.).

For Noncompeting Continuation Progress Reports, summarize this data under Research Training Program Plan Section 2.6.

**Rationale:** For renewal applications, this table provides detailed information about how predoctoral training positions are used (i.e., distribution by mentor, year in program, years of support per trainee). The data also permit an evaluation of the success of the program in achieving the training objectives of the prior award period(s) for up to 10 years.

**Table 12B. Postdoctoral Trainees Supported by This Training Grant (Renewal/Revision Applications and Non-Competing Continuation Progress Reports Only)**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

*Postdoctoral Trainees (Listed Sequentially by Year of Entry)*

*Enter Source(s) of Support and Academic Year for Each Grant Year*

| Trainee, Year of Entry, Prior Degree & Institution (Mentor – Department / Program) | Grant Year -01<br>00-01 | Grant Year -02<br>01-02 | Grant Year -03<br>02-03 | Grant Year -04<br>03-04 | Grant Year -05<br>04-05 | Grant Year -06<br>05-06 | Grant Year -07<br>06-07 | Grant Year -08<br>07-08 | Grant Year -09<br>08-09 | Grant Year -10<br>09-10 | Title of Research Project or Research Topic | Degree or Certification (Year) or Other Relevant Outcome | Current Position and Institution (Grant Support Obtained) |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---|--|---|
| Jones, C., 2003 MD, CWRU (Wu-Pharmacology)   |                         |                         |                         | PGY 1                   | PGY 2                   | TG                      | TG                      | PGY 5                   |                         |                         | Membrane Structures                         | N/A  | Assistant Professor (Dept. Pharmacology) (R01 NIMH)       |
| Rivera, M., 2004 MD-PhD, Yale (Frank-Pharmacology)                                 |                         |                         |                         |                         | PGY 1                   | PGY 2                   | TG                      | TG                      | CCF                     | PGY 6                   | Transdermal Pharmacodynamics                | Certificate of Clinical Investigation 2006               | Pediatric Resident  |
| Stone, V. 2006 PhD, Harvard (Hahn-Medicine)  |                         |                         |                         |                         |                         |                         | TG                      | TG                      | RG                      | RG                      | Genetic Variation in Fruit Fly Nymphs       | N/A  | In Training   |

**Table 12B Instructions:** List sequentially, by [entering year](#), all trainees who were or are currently supported by this training grant. For previous trainees, include up to the previous 10 years. For each trainee, provide: 1) name; 2) year of entry into the [training program](#); 3) prior institution and degree at entry; 4) in parenthesis name of research mentor and department/program; 5) source of support during each year of training, e.g., this training grant, another training grant (specify), research grant, university fellowship, individual fellowship (specify), etc.; 6) research topic; 7) degree or certifications or other relevant outcomes completed during training and year awarded, and 8) for trainees who have completed the program, their current positions, rank and/or title and institutional affiliations, and grants obtained, if any. Enter all trainees who received support from this grant, including those who did not complete the training program for any reason.

For Non-Competing Continuation Progress Reports, provide updated trainee information, reflecting new appointments and other changes over the reporting period. Do not include data that is older than ten years.

Explain coding of source of support in a footnote. For example: TG = this training grant, RG = research grant, UF = university funds, TG2 = another training grant (Neuroscience training), PGYn = postgraduate year (n) of internship or residence; F = individual fellowships (e.g. university fellow, NRSA, NSF, foundations, etc.); CCF = cancer clinical fellowship.

For Noncompeting Continuation Progress Reports, summarize this data under Research Training Program Plan Section 2.6.

**Rationale:** For renewal applications, this table provides detailed information about how postdoctoral training positions are used (i.e., distribution by mentor, year in program, years of support per trainee). The data also permit an evaluation of the success of the program in achieving the training objectives of the prior award period(s) for up to 10 years.