Table 1. Membership of Participating Departments/Programs (Alphabetically)

Participating Department/ Program	Number of Faculty Members		Number of Trainees Predoctoral			Number of Trainees Postdoctoral		
	Total in Department or Program	Participating in this Application	Total in Department or Program (Supported by any NIH Training Grant)	With Participating Faculty (TGE) A/B/C	For Renewal Applications, Support by this Training Grant (TGE) A/B/C	Total in Department or Program (Supported by any NIH Training Grant)	With Participating Faculty (TGE) A/B/C	For Renewal Applications, Support by this Training Grant (TGE) A/B/C
Dept. of Biology	45	14	38 (15)	12 (6) 1/1/0	2 (2) 1/0/0	50 (5)	15 (7) 1/0/0	2 (2) 0/0/0
Neuroscience Program	32	20	31 (20)	14 (7) 2/0/1	4 (4) 0/1/0	40 (7)	23 (10) 0/0/1	2(2) 1/0/0
Dept. of Pharmacology (Medical School)	25	5	30 (10)	5 (3) 1/0/0	3 (3) 0/0/0	28 (0)	12 (6) 0/0/1	0 (0) 0/0/0
Totals	-	-	99 (45)	31 (16) 4/1/1	9 (9) 1/1/0	108 (12)	50 (23)	4 (4) 1/0/0

Instructions: Table 1. Provide the total number of current faculty members, predoctoral trainees, and postdoctoral trainees in each participating department/program. Indicate the number of faculty members participating in this training grant application, the numbers of predoctoral and postdoctoral trainees with the participating faculty, and in parenthesis put the number of these trainees who are Kirschstein-NRSA training grant eligible (TGE). For renewal applications, include the number of trainees currently supported by the training grant. Faculty members may count as part of both their primary department and an interdepartmental program(s). Predoctoral and postdoctoral trainees count only once and should be associated with a single department or program. 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 as appropriate.

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.

Blank Table 1 for Completion by Applicant (Microsoft Word Format)
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Table 2. Participating Faculty Members
(Alphabetically by Faculty Member)

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

Instructions: Table 2. 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 this program.

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.

Blank Table 2 for Completion by Applicant (Microsoft Word Format)
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Table 3. Institutional Training Grant Support Available to Participating Faculty Members, Department(s), or Program(s)

Title of Training Grant	Funding Source Including Identifying Number	Active or Pending Project Period	Program Director (Department)	Number of Trainees (Pre/Post) Supported This Year	Total # of Participating Faculty	Names of Overlapping Faculty
Bioimmunotherapy Training Grant	T32 CA05964-11	06/02-07/07	Baker, A. (Pathology)	12 Pre	25	Abelson Brown Fields Johnson Sung Watson
Pharmacological Sciences	T32 GM04823-01	Pending	James, C. (Pharmacology)	10 Pre	19	Jones Jenson Watson
Genetic Basis of Mental Illness	T32 MH02708-07	06/03-07/08	Johnson, A. (Psychiatry)	4 Pre 4 Post	7	Johnson Watson
Totals	-	-	-	14 Pre 4 Post	51	-

Instructions: Table 3. List all current and pending training support available to the participating faculty members, department(s) or programs(s). For each grant, include the title of the training grant; funding source and complete identifying number; status (active or pending) and dates of the entire project period; name of the program director and department; number(s) of training positions (predoctoral, postdoctoral, and short term), number of participating faculty members; and list overlapping participating faculty members, who are also named in this application.

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

Blank Table 3 for Completion by Applicant (Microsoft Word Format)
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Table 4. Grant and Contract Support of the Participating Faculty Members
(Alphabetically by Faculty Member)

Faculty Member	Source of Support and Grant Number	Grant Title	Project Period Active (Pending)	Current Year Direct Costs Awarded (Pending)
Jones, J.	NIH 1 R01 CA76259-01	Structure and Function of Acetylcholine Receptors	05/05-05/09	$190,000
	NIH 5 K04 AI00091-03	Purification & Identification of Receptors	11/06-11/10	$140,000
Mack, T.	American Heart Assoc.	Control of Angiogenesis	03/05-03/08	$185,000
	NSF PCM 80-12935 (J. Jones, PI)	Co-PI - Cell Culture Center	12/06-12/09	$180,000
	NIH 1 P01 CA71802-02 (J. Jones, PI)	PI Subproject 4: "Genetic Control of Cell Division"	10/04-10/08	$165,000
Smith, J.	None			
Zachary, A.	NIH (Pending) 1 R01 GM28507-01	Meiosis in Drosophila	(07/07-07/11)	($100,000)

Instructions: Table 4. 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, but excluding research training grants. If none, state "None." Include the source of support and grant number; title; status (active or pending) and dates of the entire project period; and the current year annual direct costs. If part of a larger project, identify the principal investigator, the role of the faculty member in the grant, and provide the above data for that portion of the project available to the faculty member. For grants with major budget changes in future years such as clinical trials, include data for each budget year.

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.

Blank Table 4 for Completion by Applicant (Microsoft Word Format)
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Table 5. Pre- and Postdoctoral Trainees of Participating Faculty Members
(Alphabetically by Faculty Member for the Past Ten Years)

Faculty Member Past and Current Trainees	Pre or Post	Training Period	Prior Academic Degree			Title of Research Project	Current Position (past trainees) Source of Support (current trainees)
			Degree(s)	Year(s)	Institutions(s)		
Abbott-Miller, Jane							
Past Trainees Schwartz, A. (Cornell)	Pre	94-99	BA	94	U. of WI	Role of Transcription Factor X in Synaptic Plasticity	Asst. Scientist, Scripps Research Foundation
**Jones, J. (Cornell)	Pre	95-00	AB	93	Grinnell	Protein kinase signaling cascades in C elegans	Res. Assoc. Prof. Microbiol., U CA, Berkeley
Howard, R.	Post	98-01	PhD	98	Purdue	Excision Repair in Multiple Myeloma Cells	Postdoc, Pathology, Yale, lab of I.M. Sickly
Current Trainees **Baker, A.	Pre	04-	BS	04	Cornell	Gene Expression in Drosophila	NIH 2 T32 GM05964-06
Smith, D.	Post	05-	PhD	05	U. of CT	DNA Repair and Chemical Carcinogenesis	NIH 1 F32 ES06942-01
Haggerty, D.	Post	06-	PhD	05	U. of MI	Cell Cycle Control in Yeast	NIH 1 R01 CA76259-01
Zyskind, J. Quincy							
Past Trainees None							
Current Students Bunting, C.	Pre	05-	BA	05	Vanderbilt	Title not yet determined	NIH 1 T32 GM05066-05

Instructions: Table 5. For each participating faculty member, list in groups all past and current predoctoral and postdoctoral trainees for whom the faculty member was/is the thesis advisor or sponsor (past 10 years only). Indicate in parentheses under the trainee name where the

pre- or 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: whether at the predoctoral or postdoctoral level; the training period; 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. In renewal applications, denote trainees who were or are supported by this training grant with a double asterisk (**).

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.

Blank Table 5 for Completion by Applicant (Microsoft Word Format)
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Table 6. Publications of Research Completed by Trainees (or Potential Trainees)
(List Pre/Postdoctoral and Past/Current Trainees Separately and Alphabetically in Each Group)

Predoctoral Trainees:

Past Trainees:

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Brown, B.** (1996-2001)	Jones	**Brown, B.** and Jones J., 2001, "Repeated Sequences in Drosophila," J. Mol. Biol., 242:503-510. Corman, T., Walker, J.D., and **Brown, B.**, 1999, "Ontogeny of Tolerance to Alloantigens," Am. J. Anat., 146:156 (abstract)
Thompson, P.** (1995-2000)	Berg	Miter, M.H., Owens, R., **Thompson, P.**, and Berg, L., 1998, "Insulin Treatment of Diabetic Rats," J. Comp. Neurol., 373:350-378.
Wand, D. (1998-2003)	Layback	No Publications

Current Trainees:

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Samuels, J.* (2004-)	Peters	**Samuels, J.** and Peters M., 2007, "Molecular Analysis of RNA Viruses," Molecular Biology of the Cell, Vol. 11, 12-18.
Greenstein, M.** (2004-)	Chu	**Greenstein, M.**, and Chu, J., 2006, "Sympathetic Noradrenergic Innervation of Drosophila," Genetics (In press)
Smith, B.** (2006-)	Neustaff	No Publications

Postdoctoral Trainees:

Past Trainees:

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Green, V.** (1999-2001)	Smith	**Green, V.** and Smith, S., 2001, "Repeated Sequences in Xenopus," J. Mol. Biol., 244:103-110. Smith, S., Watkins, J.D., and **Green, V.**, 2000, "Tolerance to Alloantigens in Frogs," Am. J. Anat., 146:156 (abstract)
Thomas, P.** (2000-2002)	Berg	Miter, M.H., Owens, R., **Thomas, P.**, and Berg, L., 2002, "Insulin Deficiency in Diabetic Rats," J. Nutrition, 373:350-378.
Schultz, H. (2001-2003)	Easygai	No Publications

Current Trainees:

Name of Trainee (Years in Program)	Mentor(s)	Publication (Authors, Year, Title, Journal)
Samuels, J.* (2006-)	Peters	**Samuels, J.** and Peters M., 2007, "Molecular Analysis of DNA Viruses," Molecular Biology of the Cell, Vol. 11, 12-18.
Greenstuff, M.** (2005-)	Chew	**Greenstuff, M.**, and Chew, J., 2006, "Non-digestible fibre influences bioavailability of vitamins", J. Pharm Sci. (In press)
Jones, W.** (2007-)	Newpeeye	No Publications

Instructions: Table 6. List ALL publications of predoctoral and (or) postdoctoral trainees resulting from their period of training in the faculty member's laboratory or in association with the training program for the past 10 years. List abstracts only if a more complete publication has not appeared and label these clearly as abstracts. Boldface the trainee's name in the author list. For Renewal applications list ALL trainees currently or previously supported by the training grant (and representative trainees who are clearly associated with the training program) for the past 10 years. For New Applications, for representative potential trainees, list ALL publications resulting from their period of training with the participating faculty mentors or the training program. Designate Kirschstein-NSRA training grant eligible trainees (TGE) by an asterisk (*). Designate those supported by this training grant with a double asterisk (**). Group predoctoral trainees separately from postdoctoral trainees. Group past trainees separately from current trainees. Sort entries within each group by year of entry into graduate program or postdoctoral position. In parenthesis, include the year the trainee started graduate or postdoctoral studies, and if appropriate,

when they completed their program. Indicate the trainee's current mentor(s) if chosen, then list trainee publications, followed by abstracts in chronological order.

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

Blank Table 6 for Completion by Applicant (Microsoft Word Format)
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Table 7A. Admissions and Completion Records for the Participating Departments and Programs During the Past Five Years (Predoctoral Applicants)

Department or Program Entering Year	Numbers of Applicants			Outcomes of Those Who Enrolled				Reason for Leaving Program (if training was not completed)
					Degree Earned for those who Completed Program or Left Program			
	Applied (TGE) A/B/C	Accepted (TGE) A/B/C	Enrolled (TGE) A/B/C	Still in Program (TGE) A/B/C	PhD or MD/PhD (TGE) A/B/C	Other Degree Earned (TGE) A/B/C	Left Program (TGE) A/B/C	
Department of Biochemistry								
2003	8 (5) 0/1/0	6 (4) 0/0/0	4 (3) 0/3/1	2 (1) 0/0/0	1 (1) 0/0/0	0 (0) 0/0/0	1 (1) 0/0/0	Changed career interests
2004	9 (7) 1/0/0	6 (4) 10/0	5 (3) 0/0/0	4 (3) 0/0/0	1 (1) 0/0/0	0(0) 0/0/0	0 (0) 0/0/0	
2005	10 (6) 2/0/1	8 (5) 1/0/1	5 (3) 1/0/0	4 (3) 0/0/0	0 (0) 0/0/0	MS 1 1/0/0	0 (0) 0/0/0	Went to medical school
2006	12 (9) 3/1/1	10 (6) 1/1/0	8 (5) 1/0/0	6 (4) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	2 (1) 0/0/0	1 left for a job in industry; 1 left for reasons unknown
2007	15 (12) 4/1/0	10 (8) 2/1/0	8 (6) 2/1/0	8 (6) 2/1/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
Interdepartmental Graduate Program in Genetics								
2003	125 (9) 5/1/0	24 (18) 0/0/0	18 (15) 0/0/0	5 (4) 00/0	12 (11) 0/0/0	0 (0) 0/0/0	1 (0) 0/0/0	Transferred to Bioengineering PhD program

2004	123 (91) 3/2/0	22 (17 1/1/0	16 (16) 1/0/0	10 (10) 0/0/0	4 (4) 0/0/0	0 (0) 0/0/0	2 (2) 1/0/0	1 transferred to another institution; 1 enrolled in medical school
2005	122 (85) 5/0/0	21 (19) 0/0/0	17 (16) 0/0/0	14 (14) 0/0/0	0 (0) 0/0/0	MS 1 0/0/0	2 (1) 0/0/0	1 left for job in industry; 1 enrolled in dental school
2006	130 (83) 5/0/0	35 (22) 4/0/0	20 (19) 3/0/0	18 (17) 2/0/0	0 (0) 0/0/0	0 (0) 0/0/0	2 (2) 1/0/0	1 transferred to neuroscience training program; 1 teaching science in high school
2007	128 (78) 6/1/0	32 (20) 3/1/0	17 (16) 1/1/0	17 (16) 1/1/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
Medical Scientist Training Program (etc)								

Instructions: Table 7A. List for each participating department/program for each of the past 5 years, 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). 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). 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 applicants by department/program and then by year.

Rationale: These data permit 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.

Blank Table 7A for Completion by Applicant (Microsoft Word Format)
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Table 7B. Admissions and Completion Records for the Participating Departments and Programs During the Past Five Years (Postdoctoral Applicants)

Department or Program Entering Year	Numbers of Applicants				Outcomes of Those Who Entered Program			
	Degree Type	Applied (TGE) A/B/C	Accepted (TGE) A/B/C	Entered Program (TGE) A/B/C	Still in Program (TGE) A/B/C	Completed Training (TGE) A/B/C	Left Program (TGE) A/B/C	Reason for Leaving Program (if training was not completed)
Department of Pathology								
2006	PhD	6(4) 0/1/0	3 (3) 0/1/0	1 (1) 0/1/0	1 (1) 0/1/0	0 (0) 0/0/0	0 (0) 0/0/0	
	MD	4 (3) 1/0/0	3 (2) 1/0/0	2 (1) 1/0/0	2 (1) 1/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
	MD/PhD	4 (4) 0/1/0	3 (2) 0/1/0	3 (2) 0/1/0	2 (1) 0/1/0	0 (0) 0/0/0	1 (1) 0/0/0	1 career change – law school
	List Other Relevant	1 (1) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
	Total	15 (12) 2/2/0	9 (7) 1/2/0)	6 (4) 1/2/0	5 (3) 1/2/0	0 (0) 0/0/0	1 (1) 0/0/0	
2007	PhD	8 (6) 2/1/0	7 (6) 1/1/0	6 (5) 1/0/0	5 (4) 1/0/0	0 (0) 0/0/0	1 (1) 0/0/0	1 left for industry
	MD	3 (3) 1/0/0	2 (2) 1/0/0	1 (1) 1/0/0	1 (1) 1/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
	MD/PhD	2 (2) 0/1/0	2 (2) 0/1/0	2 (2) 0/1/0	2 (2) 0/1/0	0 (0) 0/0/0	0 (0) 0/0/0	
	DDS	3 (2) 0/0/1	2 (2) 0/0/1	2 (1) 0/0/1	2 (1) 0/0/1	0 (0) 0/0/0	0 (0) 0/0/0	

	Total	16 (13) 3/2/1	13 (12) 2/2/1	11 (9) 2/1/1	10 (8) 2/1/1	0 (0) 0/0/0	1 (1) 0/0/0	
Interdepartmental Program in Genetics								
2007	PhD	10 (9) 2/0/1	8 (7) 1/0/1	6 (5) 1/0/1	3 (3) 0/0/1	1 (1) 0/0/0	2(1) 1/0/0	1 took a teaching postion; 1 took a job in industry
	MD	4 (3) 1/1/0	4 (3) 1/1/0	3 (2) 1/0/1	3 (2) 1/0/1	0 (0) 0/0/0	0 (0) 0/0/0	
	MD/PhD	5 (4) 0/1/0	4 (3) 0/1/0	3 (3) 0/1/0	3 (3) 0/1/0	0 (0) 0/0/0	0 (0) 0/0/0	
	DVM	1 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	0 (0) 0/0/0	
	Total	20 (16) 3/2/1	16 (13) 2/2/1	12 (10) 2/1/2	9 (8) 1/1/2	1 (1) 0/0/0	2 (1) 1/0/0	

Instructions: Table 7B. List for each participating department/program for each of the past 5 years, 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). Indicate 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). 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 applicants by department/program, year of application, and type of degree.

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) rather than into individual laboratories, 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 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.

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.

Blank Table 7B for Completion by Applicant (Microsoft Word Format)
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Table 8A. Qualifications of Recent Predoctoral Applicants

Year Department or Program Applicant (List by Number)	Previous Institution	Degree(s) & Year(s)	GRE Scores V, Q, Adv (Percentiles) and/or MCAT Scores	Undergrad. GPA	Interviewed (Y/N)	Accepted (Y/N)	Enrolled (Y/N)	Support from this Grant (Y/N)
2007/Medical Scientist Training Program								
1*	U. of WI	BSN '06	12, 11, Q, 10	3.63	Y	Y	Y	Y
2*	Stanford	BS '06	11, 13, N, 11	3.72	Y	Y	N JHU	N
3	Yale U. Wash. U.	BA '05 MS '06	10, 9, O, 11 660 680 740	3.78	Y	N	N	N
2007/Molecular Biophysics Program								
1*	U. of IL	BS '06	700 730 720	4.0	Y	Y	Y	Y
2*	Rutgers	BS '07	710 690 680	3.36	Y	Y	Y	Y
3	Berkeley	BS '07	680 710 720	3.68	Y	Y	N UCSF	N
4*	U. of TX	BS '07	720 690 750 (97%) (79%) (85%)	3.73	Y	Y	N JHU	N
5*	Tufts U.	BS '06	650 670 630	3.32	N	N	N	N
6	U. of Kyoto	BS '05	480 710 720	N/A	N	N	N	N
Total Number of Applicants = 9 **Number of TGE Applicants** =6					7	6	3	3

AVERAGE GRE/MCAT Scores and GPA for Applicant Pool	11, 11,11 702, 705, 718	3.65				

Instructions: Table 8A. 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; GRE scores (and/or percentiles) or MCAT scores; and GPA normalized to a 4.0 scale. 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.

At the bottom of the table include summary statistics: average GRE and/or MCAT 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 scores and average GPAs for students who were accepted, and for those who enrolled, would also be useful to include.

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.

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Table 8B. Qualifications of Recent Postdoctoral Applicants

Year Department or Program Applicant (List by Number)	Previous Institution(s)	Degree(s) & Year(s) Awarded	Doctoral Thesis or Other Research Experience & Research Advisor (If Relevant)	Residency Training Institution PGY	Offered Position (Y/N)	Entered Program (Y/N)	Support from this Grant (Y/N)
2007 Pathology							
1*	U. of WI	DVM '05	Inhibitors of Nitric Oxide Synthase; James, L.	Pathology Cornell Vet PGY2	Y	Y	Y
2*	Stanford	MD '06	Pharmacogenetics of anesthetics in wound healing; Jones, J.	Anesthesiology UCSF PGY1	Y	N UNC	N
3	Yale U.	MD '06	G Protein Coupled Receptors; Wilson, G.	Pediatrics Harvard PGY1	Y	N	N
2007/Molecular Biophysics Program							
1*	U. of IL	PhD '06	Developmental Genetics in Drosophila Smith, J	N/A	Y	Y	Y
2*	Rutgers	PhD '06	Regulation of NF-kB; Felman, R.	N/A	Y	Y	Y
3	Berkeley	PhD '06	Molecular and Genetic Analysis of RNA Viruses; Thomas, JC	N/A	Y	Y	N
4*	Baylor	MD '06	P53 mutations; Johns, L	Oncology Mount Sinai	Y	N UCSD	N

				PGY2			
5*	Tufts U.	PhD. '05 MD '07	Genetics of Neuronal Cell Division; Crocker, S	Neurology MGH PGY1	N	N	N
6	U. of Kyoto	DPhil'07	Regulation of Gene Expression; Roberston	N/A	N	N	N

Instructions: Table 8B. List the qualifications and application outcomes of recent postdoctoral applicants to each participating department/program. Applicants should be listed anonymously and identified by a number in sequence, rather than by name, to safeguard privacy. Indicate applicants who are Kirschstein-NRSA training grant eligible (TGE) with an asterisk (*). For each applicant, provide: previous institutions(s) attended, degree(s) and year awarded; thesis research topic or other research topic (if relevant) and research advisor; and residency training (when appropriate), including area of specialization, institution, and PGY. Indicate whether applicants were or were not offered admission and whether they entered the program. For renewal, indicate those applicants who have been or are currently supported by this grant. Sort applicants by department/program, year of application, 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) rather than into individual laboratories, 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.

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.

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Table 9A. Qualifications of the Current Predoctoral Trainees Clearly Associated with the Training Program

Trainee (List by Number) Department or Program	Previous Institution(s)	Degree(s) & Year(s)	GRE Scores/ (Percentiles) V, Q, Adv and/or MCAT Scores	Under-graduate GPA	Current Research Mentor	Years in Program	Calendar Years Appointed to this Grant
1* Biochem	U. of WI	BSN '06	680 720 750	3.63	Jones, J.	'07-present	None
2* Genetics	MIT	BS '06	12, 12, R, 14	3.72	Huerta, X.	'05-present	'06-'07
3* Genetics	U. Penn. Wash. U.	BA '05 MS '07	700 710 640 (96% 82% 84%)	3.75	Felman, R.	'07-present	'06-present
4 Genetics	U. Mich.	BA '07	650 710 630 (80% 92% 83%)	3.34	TBN	'07-present	None
AVERAGE GRE/MCAT SCORES and GPA			690, 705, 695 12, 12, R, 14	3.61			
Number of Trainees = 4 Number of TGE Trainees = 3							

Instructions: Table 9A. 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 (*). 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. For each trainee, list: department/program of entry; previous institutions(s), degree(s) and year awarded; GRE scores (and/or percentiles) and/or MCAT scores; undergraduate GPA; current research mentor; and years in the training 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 statistics: average GRE and/or MCAT scores and average GPAs of all trainees and summary totals for all trainees and TGE trainees.

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. 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.

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Table 9B. Qualifications of the Current Postdoctoral Trainees Clearly Associated with the Training Program

Trainee (List by Number) Department or Program	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
1* Clin Pharm	U. Penn	DVM '05	Pharmacogenetics of anesthetics in wound healing. Jones, J.	Anesthesiology U. Penn	Smith	'07-present	None
2* Neurosci	Vanderbilt University	MD. '03	G Protein Coupled Receptors Wilson, G.	Neurology U. Michigan	Green	'06-present	'06-07
3* Neurosci	U. of Michigan	MD '06	Physiology of CCK Evans, K.	Internal Medicine U. Washington	Jones	'06-present	'06-present
4* Biochemistry	Washington U.	PhD '02 MD '04	Inhibitors of Nitric Oxide Synthatase James, L.	Cardiology UTSW	Johnson	'05-06	'05-07
5* Medicine	Duke University	PhD '05	Regulation of NF-kB Felman, R.		Diaz	'05-present	None
6 Pathology	Emory University	MD '05	None	Hematology UAZ	Valentino	'06-present	None
Number of Trainees = 6 Number of TGE Trainees = 5							

Instructions: Table 9B. 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 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. 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.

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.

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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

URM Trainee (List by Number)	Entering Year (Pre/Post)	Department/program	Source of Support and if Support by NRSA grant	Status of those who entered the program			
				In Training	Completed Training	Left Without Completing Training	Current Status Career or Employment
1*	2006 (Pre)	Genetics	**T32 GM001122** F31		Y		Postdoctoral Trainee UCSF
2*	2007 (Post)	Cell Biology	University Fellowship Research			Y	Mentor and student both moved to another institution
3 *	2007 (Post)	Chemistry	Lectureship	Y			
Trainees with Disabilities							
1*	2004 (Pre)	Pharmacology	**T32 GM001144** F31		Y		Postdoctoral Trainee NYU
2*	2006 (Post)	Cell Biology	R01			Y	Career Change
3	2007 (Post)	Medicine	Research Associate	Y			
Trainees from							

Disadvantaged Background							
1*	2005 (Pre)	Genetics	**T32 GM001155** F31		Y		Postdoctoral Trainee U. Chicago
2*	2005 (Post)	Pathology	University Fellowship Research			Y	Went to Medical School
3	2007 (Post)	Chemistry	R01	Y			

Instructions: Table 10. 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 than postdoctoral trainees in each diversity category.

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.

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

Year	Degree/Level (Postdoctoral Trainees Only)	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
Number of Predoctoral Positions Awarded (Months of Support)	N/A	10 (120)	12 (144)	14 (168)	14 (168)	14 (168)
Number of Predoctoral Trainees Appointed (Months of Support Used)	N/A	10 (120)	13[1] (144)	14 (168)	13[2] (156)	14 (168)
Number Appointed (Months of Support) URM Trainees Trainees with Disabilities Trainees from Disadvantaged Background	N/A	1 (12) 1(12)) 0(0)	2 (24) 0(0) 0(0)	(0) 1 (12) 0 (0)	1 (12) 2 (12) 0 (0)	1 (12) 0 (0) 1 (12)
Number of Postdoctoral Positions Awarded (Months of Support)		4 (48)	4 (48)	4 (48)	4 (48)	4 (48)
Number of Postdoctoral Trainees Appointed by Degree	MD MD/PHD PHD Other	1 2 1 0	1 1 1 DrPH	2 1 0 DrPH	1 0 1 PharmD	2 0 2 0
Number of Postdoctoral Trainees Appointed (Months of Support Used)	Total	4 (48)	4 (48)	4 (48)	3 (38)[3]	4 (48)
Number Appointed (Months of Support) URM Trainees Trainees with Disabilities Trainees from Disadvantaged Background		1 (12) 0 (0) 0 (0)	2 (24) 0 (0) 0 (0)	0 (0) 0 (0) 0 (0)	1 (12) 0 (0) 0 (0)	1 (12) 0 (0) 1 (12)

[1] One trainee left after 6 months and a second trainee was appointed for the remainder of the year.
[2] One position was not filled.
[3] 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.

Instructions: Table 11. 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, explain the reason in a footnote.

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

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Table 12A. Predoctoral Trainees Supported by this Training Grant (Renewal Applications Only)

Predoctoral (and MSTP) Trainees (Listed sequentially by Entering Class):

Trainee, Year of Entry Prior Degree & Institution (Mentor - Department/program)	Source(s) of Support Each Grant Year/Academic Year										Title of Research Project or Research Topic	Degree(s) Received (Year)	Current Position and Institution (grant support obtained)
	-01 95-99	**-02** 99-00	**-03** 00-01	**-04** 01-02	**-05** 02-03	**-06** 03-04	**-07** 04-05	**-08** 05-06	**-09** 06-07	**-10** 07-08			
Cox, C., 1994 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., 1995 BS, Iowa State U. (Gordon-MCB)	TG	TG	RG								Structural Studies of Membrane- Bound Proteins	M.S. (2001)	Parke-Davis (Lab. Technician)
Johnson, J., 2002 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., 2005 BS, UCLA (Rifkind-Genetics)								UF	UF	TG	Purine Synthesis Mutants in Mammalian Cells		In Training
Thomas, G., 2007 DVM, U. Penn (unassigned)										TG			In Training

Instructions: Table 12A. List sequentially, by entering year, all trainees who were, or are, supported by this training grant (past 10 years only, if applicable). 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 (optionally) grants obtained. Enter all trainees who received support from this grant including those who did not complete the training program for any reason.

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.).

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.

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Table 12B. Postdoctoral Trainees Supported by this Training Grant (Renewal Applications Only)

Postdoctoral Trainees (Listed Sequentially by Year of Entry)

Trainee, Year of Entry Prior Degree & Institution (Mentor - Department/Program)	Source(s) of Support Each Grant Year/Academic Year										Title of Research Project or Research Topic	Degree or Certification (Year) or other Relevant Outcome	Current Position and Institution (grant support obtained)
	-01 98-99	**-02** 99-00	**-03** 00-01	**-04** 01-02	**-05** 02-03	**-06** 03-04	**-07** 04-05	**-08** 05-06	**-09** 06-07	**-10** 07-08			
Jones, C., 2001 MD, CWRU (Wu-Pharmacology)				PGY 1	PGY 2	TG	TG	PGY 5			Membrane Structures	N/A	Assistant Professor (Dept. Pharmacology) (R01 NIMH)
Rivera, M., 2002 MD-PhD, Yale (Frank-Pharmacology)					PGY 1	PGY 2	TG	TG	CCF	PGY 6	Transdermal Pharmacodynamics	Certificate of Clinical Investigation 2004	Pediatric Resident
Stone, V. 2004 PhD, Harvard (Hahn-Medicine)							TG	TG	RG	RG	Genetic Variation in Fruit Fly Nymphs	N/A	In Training

Instructions: Table 12B. List sequentially, by entering year, all trainees who were, or are, supported by this training grant (past 10 years only, if applicable). 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) 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 (optionally) grants obtained. Enter all trainees who received support from this grant including those who did not complete the training program for any reason.

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.

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.

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