

**NCI T32 Workshop
CABTRAC Retreat 2015
Kiawah Island, South Carolina**

Susan Lim, Ph.D

Program Director

Cancer Training Branch, Center for Cancer Training



Program Perspective:
Current State, Trends, New Policies

Review Perspective:

Program perspective

- Cancer Training Branch award Mechanisms
- NRSA T32 PA, Policy, allowances
- CTB funding reports on T32, NRSA
- NCI-Specific Guideline for successful program
- Upcoming NIH changes in applications and Reporting

**Cancer Training Branch (CTB)
Center for Cancer Training(CCT), OD**

<http://www.cancer.gov/grants-training/training/contact>

Dr. Jonathan Wiest, CCT Director

Dr. Ming Lei, CTB Branch Chief, CCT Deputy Director

T32 Program Directors

- ❖ Susan Lim, Ph. D
- ❖ Susan Perkins, Ph.D

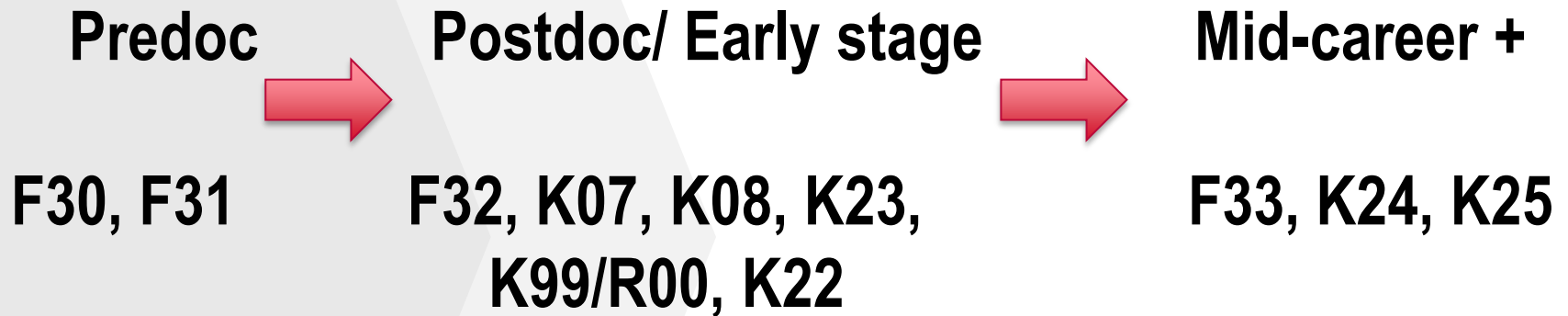
T32 Program Specialists - Review and Accept trainee forms

- ❖ Karen Tolson

Cancer Training Branch Mechanisms

<http://www.cancer.gov/grants-training/training/funding>

Individual Awards and Career Trajectory



Institutional Awards

K12, R25, T32

Loan Repayment Program (LRP)

NRSA Institutional award: T32

- **Congressionally mandated.**
- To train individuals to conduct research and prepared for **independent research career.**
- **Offsets** cost of Stipends, Tuition & Fees, Travel, TRE to cover Health Insurance.
- No pre-award cost authority.
- Excluded from expanded authorities.
- Carryover of unobligated balances from one budget period to the next is not allowed.

NRSA Trainees and Limitations

Predoctoral Fellows

- *Up to **5/6** years of aggregate NRSA support (T + F31/30)*

Postdoctoral Fellows

- *Up to **3** years of aggregate NRSA support (T+F32)*
- *Postdocs are subject to the **payback agreement** in the first year.*

FY2015 Stipend

Stipend	Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
Predoc	\$22,920	\$22,920	\$22,920	\$22,920	\$22,920	\$22,920	-	-
Postdoc	\$42,810	\$44,556	\$46,344	\$48,192	\$50,112	\$52,116	\$54,216	\$56,376

Tuition

Predoc	60% of Requested and up to \$16K
Predoc MD-PhD	60% of Requested and up to \$21K
Postdoc	60% of Requested and up to \$4.5K
Postdoc (degree)	60% of Requested and up to \$16K

Travel

Predoc	up to \$800
Postdoc	up to \$1000

Training Related Expenses (TRE)

Predoc	\$4,200
Postdoc	\$7,850

- Trainee Health Insurance
- Can be used to defray staff salary, consultation costs, research supplies
- Supplement to stipend level difference
- Other expenses directly related to training or trainees in the program

**** No prior approval is needed to rebudget the TRE.**

NCI T32 Budget Guidelines

<http://www.cancer.gov/grants-training/training/funding/T32#requirements>

Budget (Direct Costs)

New T32 Training Programs:

- Must be less than \$500,000 a year

Competing renewal T32 Training Programs with current budgets less than \$500,00 a year:

- Must remain less than \$500,000 a year

Competing Renewal T32 Training Programs with current budgets at \$500,000 a year or more:

- **Budget level request must be submitted for program approval six weeks prior to the application submission deadline.**
- No budget increases will be approved

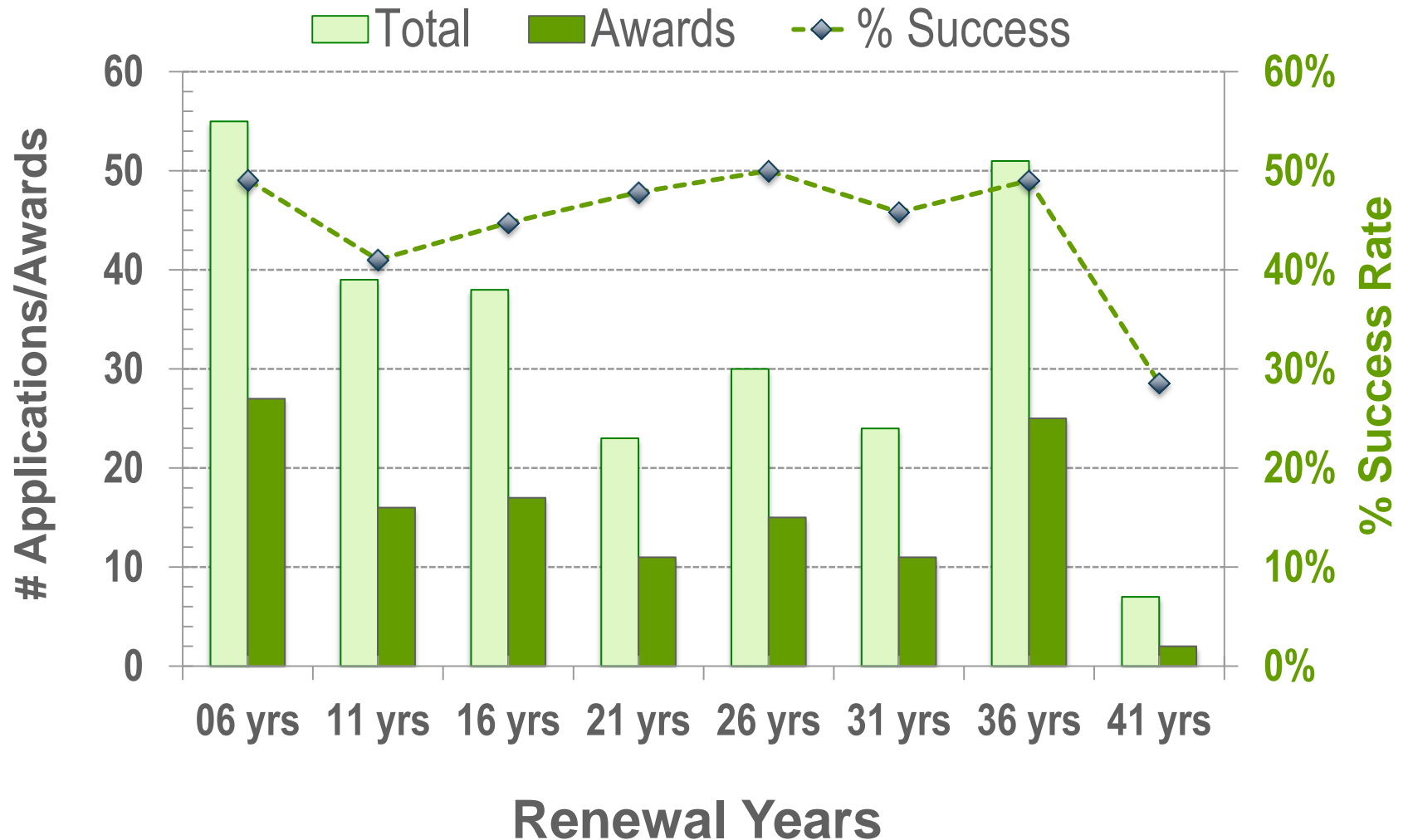
NCI T32 Application Success Rate

	2011	2012*	2013	2014	2015
Overall	56%	35%	31%	47%	35%
New	38%	10%	25%	30%	26%
Renewal	65%	47%	32%	50%	40%

NRSA Awards Supported by the NCI

	2011	2012*	2013	2014	2015
T32 awards	171	152	136	141	137
Fs awards	108	214	346	423	471
# NRSA awards	279	368	482	564	608
Totals \$ (millions)	\$61.6	\$62.4	\$60.6	\$65.7	\$65.0

Renewals, % Success Rate 2010-2015



Successful NCI-T32 program

- Must be **cancer focus, unique and innovative cancer training program.**
- The Principal Investigator (PI) must hold an **R01, or R01-like, peer-reviewed cancer-focused research grant and cancer training track records** at the time of application.
- Mentors are expected to have independent R01, or R01-like, research funding and TTR.
- **Required 2-3 T32 training specific didactic courses.**
- **Add-On T32 specific activities.**
- Highly recommend EAC evaluation and IAC.
- Trainees successful career trajectories: **cancer publications, individual awards, next independent career step.**

FOA for NCI Supplements to the Continuing Umbrella of Research Experiences (Administrative Supplements to T32 and K12)----- underrepresented populations

Notice Number: NOT-CA-15-036

The FOA is expected to be published in the winter of 2015 with an expected application due date in the spring of 2016.

Please direct all inquiries to:

Alison Lin, Ph. D
National Cancer Institute (NCI)
Telephone: 240-276-6177
Email: linaj@mail.nih.gov

Upcoming Changes to Policies, Instruction and Forms for 2016 Grant applications

Phase 1: Implements a subset of the policy changes using existing **SF424 (FORMS-C)** forms and updated instructions and will impact **due dates on or after January 25, 2016.**

Phase 2: Completes the implementation with the introduction of **new SF424 (FORMS-D)** forms and instructions and will impact **due dates on or after May 25, 2016.**

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-16-004.html>

The planned changes focus on the following areas:

- Rigor and transparency in research-- **PI & PII**
- Vertebrate animals --- **PI & PII**
- Inclusion reporting (<18) --- **PI**
- Data safety monitoring --- **PII**
- **Research training** --- **PI & PII**
- Appendices --- **PII**
- Font requirements --- **PII**
- Biosketch clarifications --- **PII**

Research Training

Changes include:

- Reducing the number of **tables** from **12** to **8**.
- Minimizing the reporting of individual-level information.
- Extending the tracking of trainee outcomes from **10 to 15 years**.
- NIH's **xTRACT** system to help applicants prepare the new tables will be available October 16, 2015 [NOT-OD-16-007](#).

Competing renewal Award

"Progress Report" - requirement to report on **publications** that arose from work conducted by the trainee while supported by the training grant will be moved to the **Just-in-Time process**.

xTRACT: Extramural Trainee Career Tracking system

NIH electronic system for creating training data tables

- Pre-populate data from existing data
- Being piloted with a small group of institutions in 2014-2015
- NIH's xTRACT system to help applicants prepare the new tables will be available October 16, 2015.
- Fully functional by the end of fiscal year 2016

New Training Tables

New Mixed Pre and Postdoctoral Training

Table #	Title of Table	Comments
Table 1.	Census of Participating Departments and Interdepartmental Programs	Except last 2 columns
Table 2.	Participating Faculty Members	
Table 3.	Federal Institutional Research Training Grant and Related Support Available to Participating Faculty Members	
Table 4.	Research Support of Participating Faculty Members	
Table 5A.	Publications of Those in Training: Predoctoral	
Table 5B.	Publications of Those in Training: Postdoctoral	
Table 6A.	Applicants, Entrants, and their Characteristics for the Past Five Years: Predoctoral	
Table 6B	Applicants, Entrants, and their Characteristics for the Past Five Years: Postdoctoral	
Table 8A.	Program Outcomes: Predoctoral	Part III Only
Table 8C	Program Outcomes: Postdoctoral	Part III Only

Table 8 with RPPR dues December 2015 Application dues on May 25th 2016: Table 1-8

- either by using fillable tables in MS Word or via the xTRACT system.

Sample Table 8C. Program Outcomes: Postdoctoral

Part I. Those Appointed to the Training Grant

Trainee	Doctoral Degree(s) and Year(s)	Faculty Member	Start Date	Summary of Support During Training	Degree(s) Resulting from Post-doctoral Training and Year(s)	Topic of Research Project	Initial Position Department Institution Activity	Current Position Department Institution Activity	Subsequent Grant(s)/Role/Year Awarded
Sanchez, Gregory B.	PhD 2007	Brown, James	07/2007	TY 1: HL T32 TY 2: HL T32 TY 3: CA R01 TY 4: CA R01	None	Uterine cancer and developmental biology	Staff Scientist Radiology MGH Research-Intensive	Assistant Professor Radiology University of Arizona Research-Intensive	CA K99/PI/2011 CA R00/PI/2013
						Molecular		Associate	

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)

Old Table 12

Review Perspective:

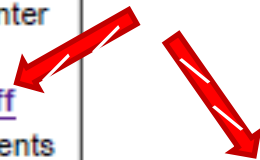
Tim Meeker, MD
NCI-F
Scientific Review Administrator

T32 Applications Are Reviewed in the NCI Sub F Scientific Review Administrator: Dr. T. Meeker

- **T32:** PA-14-015, “Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (Parent T32)”
- **R25:** PAR-12-049, “Cancer Education Grants Program”
- **K12:** PAR-13-201, “Paul Calabresi Career Development Award for Clinical Oncology (K12)”

Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (Parent T32) [PA-14-015](#)

Special Note: Because of the differences in individual Institute and Center (IC) program requirements for this FOA, prospective applicants **MUST** consult the [Table of IC-Specific Information, Requirements and Staff Contacts](#), to make sure that their application conforms to the requirements of one of the participating NIH ICs. Prior consultation with NIH staff is strongly encouraged.



[Table of IC-Specific Information, Requirements and Staff Contacts](#)

Release Date: December 6, 2013
Expiration Date: January 8, 2017

Ruth L. Kirschstein National Research Service Award (NRSA)

<ul style="list-style-type: none"> • NIH Institute or Center • Scientific Program Contact: • Grants Management Contact 	<ul style="list-style-type: none"> • Institute or Center Specific Information • See also: Standard Due Dates for Competing Applications
<p>National Cancer Institute (NCI) Scientific Program Contacts: Susan E. Lim, Ph.D. Phone: 240-276-5630 Email: lims@mail.nih.gov</p> <p>Susan N. Perkins, Ph.D Phone: 240-276-5630 Email: perkinsu@mail.nih.gov</p> <p>Grants Management Contact: Bryann Benton</p>	<p>NCI-Specific Information:</p> <p>NCI T32 training programs must be cancer focused. No less than 75% of the trainees per award year must be postdoctoral fellows.</p> <p>The Principal Investigator (PI) must hold an R01, or R01-like, peer-reviewed cancer-focused research grant at the time of application. The PI is expected to maintain such grant support during the project period. Mentors are expected to have independent R01, or R01-like, research funding. New and Early Stage Investigators (http://grants.nih.gov/grants/new_investigators/investigator_policies_faqs.htm) with no such funding may serve as co-mentors. For the NCI T32, R01-like research funding includes peer-reviewed research grants from other federal sources and private foundations. The award duration is expected to be for at least 3 years.</p>

PA14-015: Table of IC-Specific Information, Requirements and Staff Contacts

NCI-Specific Information:

- T32 training programs must be cancer focused.
- No less than 75% of the trainees per award year must be postdoctoral fellows in a NEW Training program.
- The Principal Investigator (PI) must hold an R01, or R01-like, peer-reviewed cancer-focused research grant at the time of application. The PI is expected to maintain such grant support during the project period.
- Mentors are expected to have independent R01, or R01-like, research funding.....,

Additional NCI-specific information;

 <http://www.cancer.gov/researchandfunding/cancertraining/funding/t32>

R#1: Applicants Often Do Not Read All Available Guidance

- SF424 (R&R) Application Guide for NIH and Other PHS Agencies
- PA-14-015: specially the Review Criteria
- Correctly filled Data Tables
- **NCI Special Notes (online)** (these criteria add to or modify the criteria from the FOA). *Remember that the FOA is NIH-wide*

Communicate with the Program Director

R#2: Appendix Material Is Excessive and Distracting

- Do not overstuff the appendix to circumvent page limits
- Be reasonable and concise.
- *SF424 (Application Guide)
- *NOT-OD-11-100
- **NOT-OD-16-XXX (Spring 2016)**

R#3: Attempt to Submit Supplemental Material to Rewrite Submitted Application

- Prepared early.
- By the Receipt Date the application must be correctly uploaded and complete.
- Supplemental Material (<**3 pages, restricted content**) must be submitted 30 days prior to the meeting.
- NOT-OD-13-030 NIH Policy on Post-Submission Application Materials

R#4: New Elements in the Scored Review Criteria ...

Additional Review Considerations

- Recruitment and Retention Plan to Enhance Diversity
- Training in the Responsible Conduct of Research
- Budget and Period of Support
- **Individual Development Plan**

Research Intensive and Research Related Careers

- Research positions in industry, academia, government or other research venues

Preceptors/Mentors

- Recent Publications **in proposed training** area.
- Record of training at the level proposed

R#4: Knowing the T32 Review Criteria

- **Overall Impact** (assessment of the likelihood that the proposed training program will prepare individuals for successful, productive scientific research careers; the application should help the reviewers understand impact!!)
- **Scored Review Criteria**
 - Training Program and Environment
 - Training Program Director/Principal Investigator (s) (PD/PI)
 - Preceptors/Mentors
 - Trainees
 - Training Record
- **Additional Review Criteria** (Resubmission, Renewals, etc.)

R#5: A Renewal Application

- A number of competitive renewals are ND
- If you resubmit the same application from 5 years ago, you will not do well.
 - **Revitalize, Revamp, Reflect, Restructure, .. to include current state of the art and needs.**
 - **Responsive to Reviewers concerns**

Section V. Application Review Information

http://grants.nih.gov/grants/guide/pa-files/PA-14-015.html#_Section_V_Application_1

- ❑ Is it clear how the proposed training program is **distinguished** from other externally funded training programs at the institution?
- ❑ Does the Training PD/PI have **the scientific background, expertise, and administrative and training experience** to provide strong leadership, direction, management, and administration of the proposed research training program?
- ❑ Are sufficient numbers of experienced preceptors/mentors with **appropriate expertise and funding** available to support the number and level of trainees (including short-term trainees, if applicable) proposed in the application?

Section V. Application Review Information.....

<http://grants.nih.gov/grants/guide/pa-files/PA-14-015.html# Section V. Application 1>

- ❑ Do the preceptors/mentors have strong records as researchers, including recent publications and successful competition for research support in areas **directly related to the proposed research training program**?

- ❑ To what extent **do trainees' subsequent positions** in industrial, academic, government, non-profit, or other sectors benefit **from their NRSA-supported research training** and directly benefit the broader biomedical research enterprise?

- ❑ Does the program propose a **rigorous evaluation plan** to assess the quality and effectiveness of the training? Are effective mechanisms in place for obtaining **feedback from current and former trainees**?

Useful links

Cancer Training Branch:

<http://www.cancer.gov/grants-training/training/funding/T32>

Grant Policy:

http://grants.nih.gov/grants/policy/nihgps/HTML5/section_1_1/11.3_institutional_research_training_grants.htm

F&Q

NRSA: http://grants.nih.gov/training/faq_training.htm#1259

xTrain:

http://era.nih.gov/era_training/xtrain.cfm



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