

Developing Your Research Career: Finding Money to Finance It along the Way

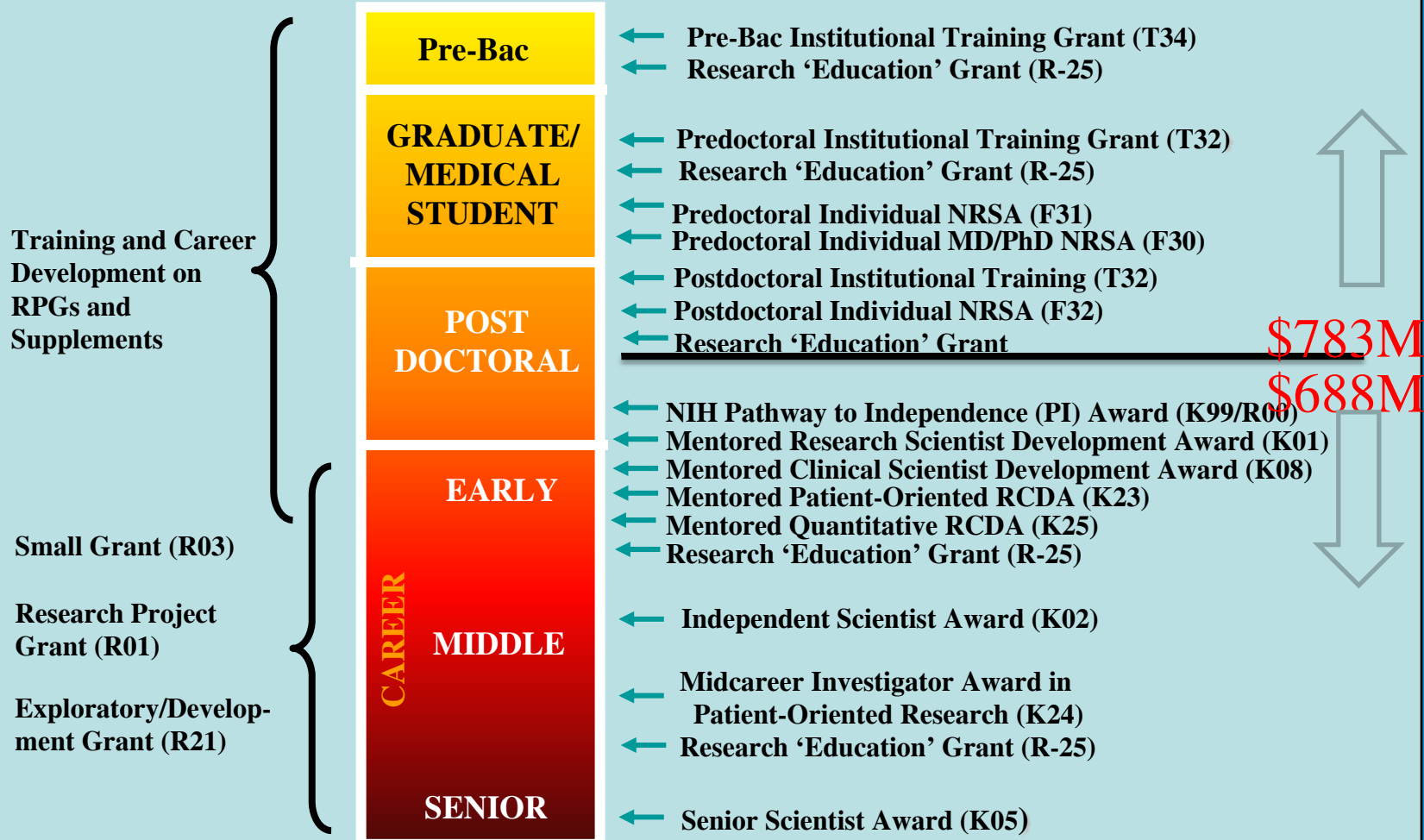
Ming Lei, Ph.D.

Cancer Training Branch
National Cancer Institute

02/25/2011 @St. Louis

NIH Research Training and Career Development Support

Research Awards Career Stage Formal Training/Career Awards



A vertical strip on the left side of the slide shows a close-up of a microscope lens, with a green bar to its left. The rest of the slide has a solid blue background.

**All Information About Training Grants Offered
by the NIH Can Be Found At:**

<http://grants.nih.gov/training/extramural.htm>

Extramural Training Mechanisms

- [Ruth L. Kirschstein National Research Service Awards \(NRSA\) Training Grants and Fellowships](#)
 - [Guide to Kirschstein-NRSA Programs](#)
 - [Institutional Research Training Grants](#)
 - [T Kiosk](#) - Information about NRSA Training Grants Funding Opportunities
 - [Individual Fellowships](#)
 - [F Kiosk](#) - Information about NRSA Fellowship Funding Opportunities
 - [Kirschstein-NRSA Policy Issues](#)

- [Non-NRSA Fellowships and Training Grants](#)

- [Career Development Awards](#)
 - [K Kiosk](#) - Information about NIH Career Development Awards
 - [Career Award Wizard](#)
 - [NIH Forms and Applications Page](#). (Including PHS [SF424 \(R&R\)](#) and [PHS 2590](#) application and other [Training Forms](#))
 - [Guidelines for Reviewers](#) (Links to review guidelines for various fellowship "K" mechanisms)
 - [Career Award Policy Issues](#)
 - [NIH Policy Concerning Career Development \(K\) Awards: Leave, Temporary Adjustments to Percent Effort, and Part-Time Institutional Appointments](#) (01/21/2009)
 - [Revision of NIH Policy Concerning Concurrent Support from Mentored Career Development \(K\) Award and a Research Grant](#) (NOT-OD-08-065) (04/10/2008)
 - [Determining Full-Time Professional Effort for Career Awards](#), (08/03/2004)

- [Extramural Loan Repayment Programs](#)
 - [Home Page - NIH Loan Repayment Programs](#)
 - [NIH Extramural Loan Repayment Programs \(LRP\)](#)
 - [Extramural Loan Repayment Program for Clinical Researchers \(LRP-CR\): Program Specific Information](#)
 - [Extramural Pediatric Research Loan Repayment Program \(LRP-PR\): Program Specific Information](#)
 - [Extramural Loan Repayment Program for Health Disparities Research \(LRP-HDR\): Program Specific Information](#)
 - [Extramural Loan Repayment Program for Contraception and Infertility Researchers \(LRP-CIR\): Program Specific Information](#)

News Flash

Paid research experiences for students and science teachers available for this summer at research institutions across the country.

These opportunities are made available through American Recovery and Reinvestment Act (ARRA) funding.

See the [NIH ARRA Summer Research Experiences Web site](#) for details.

- [Extramural Clinical Research Loan Repayment Program for Individuals from Disadvantaged Backgrounds \(LRR-IDB\): Program Specific Information](#)
- **Selected Programs for Special Populations**
 - [Research Supplements to Promote Diversity in Health-Related Research](#)
 - [Supplements To Promote Reentry Into Biomedical And Behavioral Research Careers](#)
- **International Training and Career Opportunities**
 - [Fogarty International Center Training](#)
 - [Human Frontier Science Program](#)
- **Policies Related to Graduate Research Assistants:**
 - [Policy on Graduate Student Compensation](#)
- [Policies Related to Parental Leave and Child Care](#)
- **Programs and Resources for Research Ethics**
 - [Short-Term Courses in Research Ethics \(T15\)](#)
 - [Mentored Scientist Development Award in Research Ethics \(K01\)](#)
 - [Bioethics Resources and Training in the Responsible Conduct of Research](#)
- [Data, Outcome, and Administrative Information](#)
 - [Kirschstein - NRSA Awards](#)
 - [Career Development Awards](#)
 - [Diversity Research Supplements](#)
 - [Reports from NIH, NAS and NSF](#)
- **Resources for Students and Postdocs**
 - [NIH Training Contacts List \(MS Word\)](#)
 - [NIH Training Advisory Committee \(TAC\) Roster](#)
 - [Training Opportunities At Specific NIH Institutes](#)
 - [Application Receipt Dates](#)
 - [Grant Applications, Fellowship Applications, and Other Forms](#)
 - [Career Resources](#)
 - [Computerized Retrieval of Information on Scientific Projects \(CRISP\)](#)
 - [NIH Guide for Grants and Contracts](#)
 - [Resources for New Investigators](#)

F Kiosk – Information about Ruth L. Kirschstein NRSA Individual Fellowship Funding Opportunities



- **Visual Guide to Kirschstein-NRSA Programs**
 - [For individuals with or working on a research doctorate](#)
 - [For individuals with or working on a health-professional doctorate](#)
- **Fellowship Award Data and Administrative Information**
 - [Funded Kirschstein-NRSA Individual Fellowship Awards](#)
 - [Data and Statistics on the Kirschstein-NRSA Program](#)

“F”
is for
Fellowship

| Mechanism | Program Description |
|----------------------|--|
| Policies and Notices | NRSA Policy Issues |
| F30 | <p>Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral MD/PhD and Other Dual Doctoral Degree Fellows (Parent F30) (PA-10-107) (February 16, 2010) The purpose of the Ruth L. Kirschstein National Research Service Awards (Kirschstein-NRSA) is to provide support to individuals for combined MD/PhD and other dual doctoral degree training.</p> <p>NHLBI Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral MD/PhD Fellows (F30) (PA-09-232) (July 13, 2009) The NHLBI is interested in supporting individual predoctoral fellowships for combined MD/PhD training in research areas relevant to the mission of the NHLBI.</p> |
| F31 | <p>Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellowships to Promote Diversity in Health-Related Research (Parent F31 - Diversity) (PA-10-109) (February 16, 2010) The purpose of this individual predoctoral research training fellowship is to improve the diversity of the health-related research workforce by supporting the training of predoctoral students from groups that have been shown to be underrepresented.</p> <p>Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellows (Parent F31) (PA-10-108) (February 16, 2010) The purpose of this individual predoctoral research training fellowship is to provide support for promising doctoral candidates who will be performing dissertation research and training in scientific health-related fields relevant to the missions of the participating NIH Institutes and Centers.</p> <p>Ruth L. Kirschstein National Research Service Award (NRSA) for Individual Predoctoral Fellows in Nursing Research (F31) (PAR-09-227) (July 2, 2009) The NINR is particularly interested in facilitating the progress of students who are in research training programs for recent nursing graduates and students in BSN to PhD programs.</p> <p>NIHDS Ruth L. Kirschstein National Research Service Awards for</p> |

“K” is for Career Development Award

K Kiosk - Information about NIH Career Development Awards



- [K-Awards Across Institutes and Centers](#) (June 1, 2010) - (Excel - 813 KB) - Institute and Center specific information with links to appropriate websites
- [Career Award Wizard](#) - Helps you select the right career award
- **Visual Guide to NIH Career Development Awards**
 - [For individuals with a research doctorate](#)
 - [For individuals with a health-professional doctorate](#)
- **Career Award Data and Administrative Information**
 - [Funded Career Development Awards](#)
 - [Career Award Application Success Rates](#)

| Program | Description |
|----------------------|---|
| Policies and Notices | Career Award Policy Issues |
| K01 | <p>Mentored Research Scientist Development Award (Parent K01) The purpose of the omnibus (parent) K01 program is to provide support and "protected time" (3-5 years) for an intensive, supervised career development experience in the biomedical, behavioral, or clinical sciences leading to research independence. Awards are not renewable, nor are they transferable from one principal investigator to another.</p> <p>NCI Mentored Research Scientist Development Award to Promote Diversity (K01) The NCI invites K01 applications from individuals underrepresented in health-related science, who have been recipients of an NIH Research Supplement to Promote Diversity Award, any NRSA, or can demonstrate that they have been supported in a mentored capacity within any research grant equivalent to an NIH peer-reviewed research grant.</p> <p>NIDDK Mentored Research Scientist Development Award (K01) The NIDDK invites K01 applications from advanced postdoctoral and/or newly independent research scientists (usually with a Ph.D. degree) in biomedical or behavioral sciences who are pursuing careers in research areas supported by the NIDDK.</p> <p>NINDS Career Development Award to Promote Diversity in Neuroscience Research (K01) Supported by NINDS, the objective of this program is to promote diversity among faculty-level neuroscience investigators who are competitively funded to conduct independent research.</p> <p>NINR Mentored Research Scientist Development Award for Underrepresented or Disadvantaged Investigators (K01) The purpose of this NINR K01 is to encourage the development of qualified underrepresented or disadvantaged nurse scientists to become independent investigators in research settings.</p> |

“Loan Repayment Program” Is for (almost) Everybody

U.S. Department of Health & Human Services
www.nih.gov

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MON-FRI, 9:00 AM-5:00 PM EASTERN
202-549-4047 | LRP@NIH.GOV

1 about the programs
2 **eligibility**
3 apply online

EXTRAMURAL LRPs
FOR RESEARCHERS OUTSIDE NIH

- CLINICAL RESEARCH
- PEDIATRIC RESEARCH
- HEALTH DISPARITIES RESEARCH
- CONTRACEPTION AND INFERTILITY RESEARCH
- CLINICAL RESEARCH FOR INDIVIDUALS FROM DISADVANTAGED BACKGROUNDS

INTRAMURAL LRPs
FOR NIH EMPLOYEE RESEARCHERS

- AIDS RESEARCH
- CLINICAL RESEARCH FOR INDIVIDUALS FROM DISADVANTAGED BACKGROUNDS
- GENERAL RESEARCH (INCLUDING LRP FOR ACADEMIC FELLOWS)

NIH EMPLOYEE STUDENT LOAN REPAYMENT PROGRAM

APPLICANT INFORMATION BULLETIN

REPORTS & STATISTICS

POLICY & GUIDANCE

FEEDBACK
WE WOULD LIKE TO HEAR FROM YOU.
PLEASE CLICK HERE TO SEND US YOUR FEEDBACK.

APPLICANT INFORMATION BULLETINS | REPORTS & STATISTICS | GLOSSARY | POLICY & GUIDANCE | ACCESSIBILITY | FOIA | DISCLAIMER | PRIVACY POLICY

ELIGIBILITY REQUIREMENTS

[Home](#) > [Eligibility](#)

FRONT PAGE > >

ELIGIBILITY REQUIREMENTS FOR THE LRPs

CHECK THAT YOU, YOUR RESEARCH, AND LOANS QUALIFY FOR THE LRPs

Extramural Programs

To participate in the NIH Extramural Loan Repayment Programs, you must:

- Meet the [general eligibility requirements](#)
- Meet any [additional eligibility requirements](#) for the specific LRP to which you are applying (see [About the Programs](#), or the links for each LRP on the left side of this page for more information)
- Have a [qualified institutional offer](#)

See Notice for [NIH Extramural Loan Repayment Programs \(LRPs\)](#) for program and policy guidance.

Intramural Programs

- Meet the [general eligibility requirements](#)

[Get Started - Step 3: Apply](#)

Special Programs for Diversity

Title: Research Supplements to Promote Re-Entry into Biomedical and Behavioral Research Careers

Announcement Type

This is a reissue of [FA-04-126](#) which was previously released July 9, 2004. This FOA also updates and replaces [NOT-OD-07-068](#).

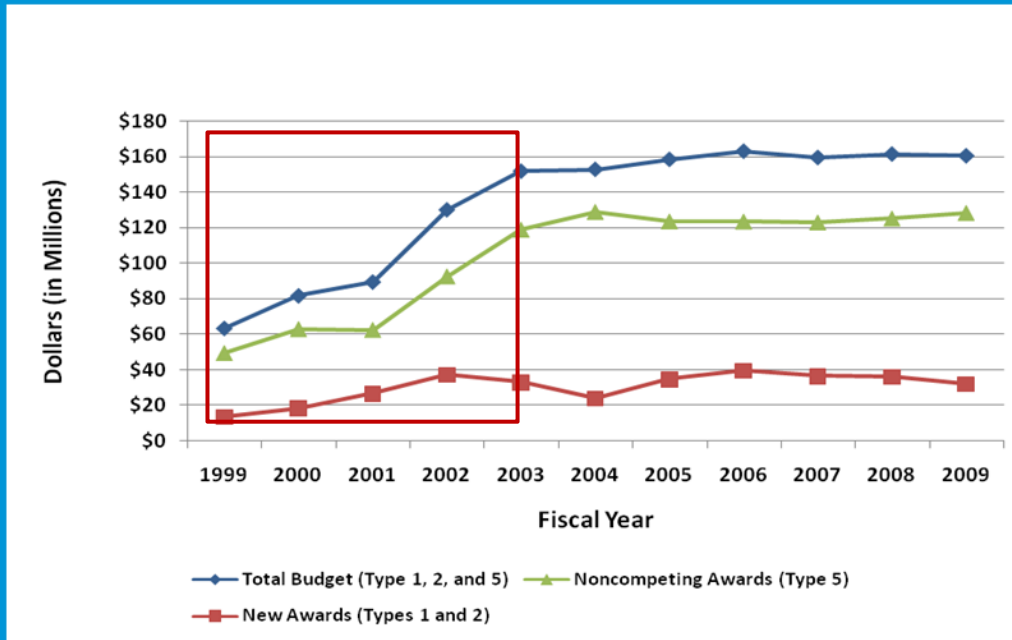
Update: The following updates relating to this announcement have been issued:

- [January 11, 2010](#) - NIH Broadens Eligibility for NIH Diversity and Re-Entry Supplements. See NOT-OD-10-045.
- [December 30, 2009](#) - This FOA has been updated to reflect the new requirements from NIH's Enhancing Peer Review Initiative. The new requirements are effective for submissions intended for due dates January 25, 2010 and beyond. If submitting an application intended for a due date of January 25, 2010 and beyond, follow the guidance below and be sure to use the 08/2009 version of the PHS 398 application forms and instructions. If applying for a due date before January 25, 2010, follow the guidance in the [archived version of this FOA](#) and be sure to use the 11/2007 version of the PHS 398 application forms and instructions.
- [May 8, 2009](#) - See Notice NOT-OD-09-094 Revision of FA-08-191: Research Supplements to Promote Re-Entry into Biomedical and Behavioral Research Careers.

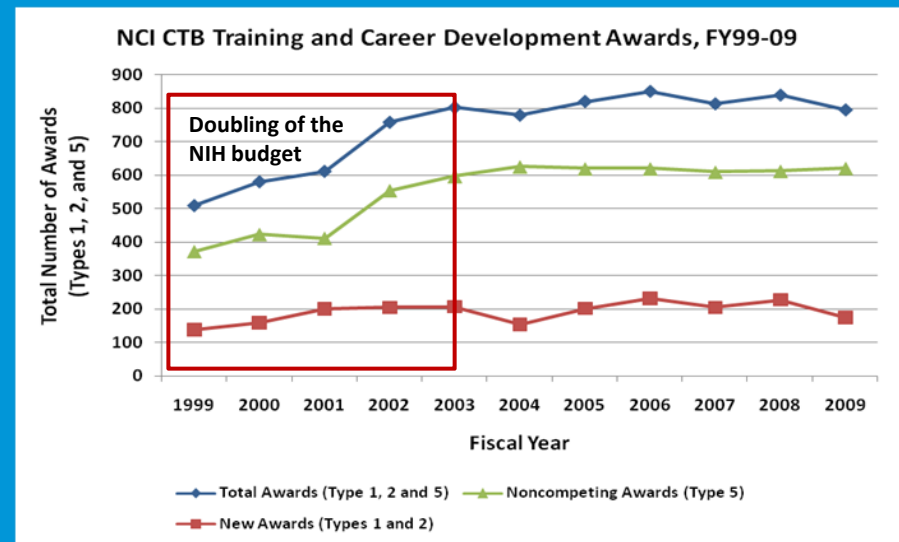
A vertical strip on the left side of the slide shows a close-up, microscopic view of a metallic surface, possibly a lens or a component of a microscope, with a central circular feature and concentric rings.

Fellowships, Career Development Awards & Training Grants
Offered by NCI's Cancer Training Branch

NCI Spends ~\$160M on CTB Funding Mechanisms Annually



And another ~\$10M on
 Loan Repayment Programs:
 Clinical, Pediatric, Health
 Disparity Research



Cancer Training Fellowships and Grants: Through 18 Funding Mechanisms

Individual

Fellowships:

F30, F31, F32, F33

Career Development Awards:

K05, K18, K24

K01, K07, K08, K23, K25

Transition Awards:

K99/R00, K22

Institutional

Training/Education Awards:

T32, K12, R25T, R25E

National Research Service Awards (NRSA) for Individual Postdoctoral Fellows (F32)

Career Stage:

- Finishing PhD
- Early post-doc yrs (1 - 3)

Essential Components:

- US Citizen or permanent resident
- 40 hrs/wk full-time effort
- Stipend (\$37K - \$51K) and institutional support (\$7.85K)
- Mentor
- 1 – 3 yr awards; non-renewable

Keys to Succeed:

- Strong candidates
- Innovative research proposal
- Committed and experienced mentor

Examples of F32 Awards

- **Activation of Procaspases with Small Molecules**

D. Wolan, UC San Francisco

- **Analysis of BRCA1/non-coding RNA interactions**

S. Lu, Dana-Farber Cancer Institute

- **Antitumor Therapeutics: Exploring the Role of macromolecular Topology**

A. Boydston, Cal Tech

Howard Temin Pathway to Independence Award in Cancer Research (K99/R00)

Career Stage:

- Senior postdocs ready for independent positions in 1-2 years.

Essential Components:

- No citizenship requirement
- ≤ 5 yrs research experience since Doctoral degree awarded
- 9 .0 calendar month (75%) minimum effort
- 1-2 yr K99 phase (mentored): Salary (\$100K) /Research support (\$30K)
- 1-3 yr R00 phase: \$249,000/per year

Keys to Succeed:

- Exceptionally strong candidates who are almost ready for an independent research position (and the job market)
- Great research proposal with promise for an independent career
- Highly regarded mentors

Examples of K99/R00 Awards

- **Biochemical Mechanisms of Hedgehog Signaling**
R. Rohatgi
Stanford University
- **Breast cancer stem cells and their cellular origin**
Z. Li
Children's Hospital Boston
- **Determining the critical in vivo roles of mTOR in cancer**
D. Guertin
Whitehead Institute For Biomedical Research

Mentored Clinical Scientist Development Award (K08)

Career Stage:

- Individual with clinical doctoral degree (e.g., MD and ND)
- No academic tenure, No R01

Essential Components:

- US Citizen or permanent resident
- At least 75% effort
- Salary (\$100K/yr) & research expenses (\$30K/yr) up to 5 years
- Mentor/s
- 5-yr awards; non-renewable

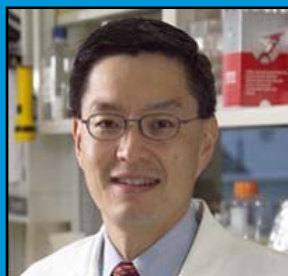
Keys to Succeed:

- A clinically-trained scientist interested in laboratory research
- An innovative research proposal with promise for an independent career

Examples of K08 Awards

- **CDK Inhibition in Cancer**
A. Goga
UC San Francisco
- **Chromatin structure and BRCA1 Checkpoint Function**
R. Greenberg
University of Pennsylvania
- **An Animal Model for Kaposi's Sarcoma**
C. Parsons
Medical University of South Carolina

Training Awards Academic Success Stories:



William Pao, MD, PhD
 Vanderbilt University
 • Associate Professor of Medicine
 • Ingram Associate Professor of Cancer Research

R01

K08

K12 Scholar

T32 Postdoc

T32 Predoc



Aminah Jatoi, MD
 Mayo Clinic
 • Professor of Oncology

R25T

K24

R01

R21

K23

F32

T32 Postdoc



H. Kim Lyerly, MD
 • Director
 Duke Comprehensive Cancer Center
 NCAB Member

R01, P01,

U54, P50

K12 (PI)

T32 (PI)

R03, R21

K24

T32 Postdoc



H. Charles Manning, PhD
 Vanderbilt University
 • Assistant Professor of Radiology, Biomedical Engineering, and Neurosurgery
 • Faculty Director of Molecular Imaging

RC1 (Challenge)

R01

K25

T32 Postdoc

National Cancer Institute

Find Detailed Information for Grants Offered by the Cancer Training Branch at: <http://www.cancer.gov/cct>

 National Cancer Institute
U.S. National Institutes of Health | www.cancer.gov

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The Center for Cancer Training

- ▶ [Cancer Training at NCI](#)
- ▶ [Cancer Training Outside NCI](#)
- ▶ [Other Fellowships and Internships](#)
- ▶ [All Recent Notices](#)
- ▶ [About CCT](#)
- ▶ [Contact Information](#)

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**The Center for Cancer Training**
Conduct basic, translational, and clinical research at NCI laboratories and clinics.

Training Cancer Researchers for the 21st Century

The Center for Cancer Training (CCT) is supporting NCI's goal of training cancer researchers for the 21st century. Training programs are offered at NCI laboratories and clinics in Maryland and at universities and institutions nationwide. [More >](#)

Significant Notices

- Grants originally due Oct. 12 are [due Oct. 13](#)
- [Recovery Act Funding Announcements Page](#)
- [K award recipient salaries have increased](#)
- [More >](#)



▶ **Cancer Training Opportunities at NCI**
Training, fellowships, and other professional educational opportunities for students and scientists on the NIH/NCI campus in Maryland (Intramural).

▶ **Cancer Training Opportunities outside NCI**
Training grants, fellowships, research career development awards, and education research grants for students and scientists to receive support through NCI funding (Extramural).

▶ **Other Fellowships and Internships**
Training, fellowship, and professional educational opportunities at NIH, U.S. Department of Health and Human Services, and other federal agencies outside of NCI.

▶ **All Recent Notices**
The Center for Cancer Training (CCT) lists the relevant Notices in the NIH Guide to training and career development programs.

▶ **About CCT**
The Center for Cancer Training (CCT) is supporting NCI's goal of training cancer researchers for the 21st century.


▶ **Contact Information**
CCT staff contacts organized by NCI program areas and award types.

A Single Webpage Provides A Brief Summary for Each Mechanism

[Document](#)

The Center for Cancer Training

- ▶ Cancer Training at NCI
- ▶ Cancer Training Outside NCI
- ▶ Other Fellowships and Internships
- ▶ All Recent Notices
- ▶ About CCT
- ▶ Contact Information




Find Funding Opportunities for Training by Award Type

A view of NIH-supported fellowships and training organized by award type, research career development awards (RCAs), and training/education research programs organized by award type.

| Award | Award Type | Name | Discipline | Career Stage |
|-------|------------------------|--|--|---|
| F32 | Fellowship | Paul L. Kirschstein National Research Service Award (NRSA) for Individual Postdoctoral Fellows | <ul style="list-style-type: none"> • All Cancer Research | <ul style="list-style-type: none"> • Postdoctoral and Clinical Fellows |
| F33 | Fellowship | NIH National Research Service Award (NRSA) for Senior Fellows | <ul style="list-style-type: none"> • All Cancer Research | <ul style="list-style-type: none"> • Established Investigators |
| K05 | RCA | Established Investigator Award in Cancer Prevention, Control, Behavioral, and Population Sciences Research | <ul style="list-style-type: none"> • Cancer Prevention, Control, Behavioral and Population Sciences | <ul style="list-style-type: none"> • Established Investigators |
| K07 | RCA | Cancer Prevention, Control, Behavioral and Population Sciences Career Development Award | <ul style="list-style-type: none"> • Cancer Prevention, Control, Behavioral and Population Sciences | <ul style="list-style-type: none"> • Postdoctoral Fellows • Non-tenured Junior Faculty |
| K08 | RCA | Mentored Clinical Scientist Development Award | <ul style="list-style-type: none"> • Basic Sciences • Translational Research | <ul style="list-style-type: none"> • Postdoctoral and Clinical Fellows • Non-tenured Junior Faculty |
| K12 | Institutional Training | Paul Calabresi Award for Clinical Oncology | <ul style="list-style-type: none"> • Clinical Science: Patient-Oriented Research • Translational Research | <ul style="list-style-type: none"> • Established Investigators |
| K18 | RCA | Career Enhancement Award for Stem Cell Research | <ul style="list-style-type: none"> • Basic science • Clinical Science • Patient-Oriented Research • Translational Research | <ul style="list-style-type: none"> • Independent Junior Faculty • Established Investigators |
| K22 | RCA | Transition Career Development Award | <ul style="list-style-type: none"> • Cancer Prevention, Control, Behavioral and Population | <ul style="list-style-type: none"> • New Faculty in First Independent Research Positions |

Next [↑](#) Previous [↶](#) Highlight all Match case [i](#) Phrase not found

Each Funding Mechanism Has Its Own Webpage to Provide All Relevant Information




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U.S. National Institutes of Health | www.cancer.gov

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Training, Career Development & Education Funding [← CCT Home](#)

Ruth L. Kirschstein National Research Service Award (NRSA) for Individual Postdoctoral Fellows (F32)



[Introduction](#)

[Funded F32 Grants](#)

[Submitting an Application](#)

[Peer Review Process](#)

[Frequently Asked Questions](#)

[NCI Staff Contacts](#)

Introduction

The purpose of the NCI F32 award is to support promising postdoctoral applicants who have the potential to become productive and successful independent research investigators. The NCI F32 application has two components: (1) it must enhance the applicant's understanding of the health-related sciences; (2) the research conducted must be within the broad scope of the basic, clinical, and population science based research mission of the NCI.

For more complete information, reference the [program announcement](#) and/or contact the program staff.

Applicant Eligibility

| | |
|--|---|
| Citizenship | <ul style="list-style-type: none"> At the time of the award, the candidate must be a citizen of the United States, or a non-citizen national, or must have been lawfully admitted for permanent residence and possess an Alien Registration Receipt Card (1-151 or 1-551) or some other verification of legal admission as a permanent resident Citizenship or green card is not needed to apply. Citizenship or green card is needed at the time of award issuance |
| Foreign Nationals and Student Visas | Not eligible for this award |
| Degree/Academic Appointment | Postdoctoral and Clinical Fellows |
| Geographic Location | F32 Fellows can work anywhere in the world; proper scientific justification is required |
| Effort Level/Commitment | At least 40 hours per week, full-time effort, to the training program |

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Questions about cancer?

• 1-800-4-CANCER



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