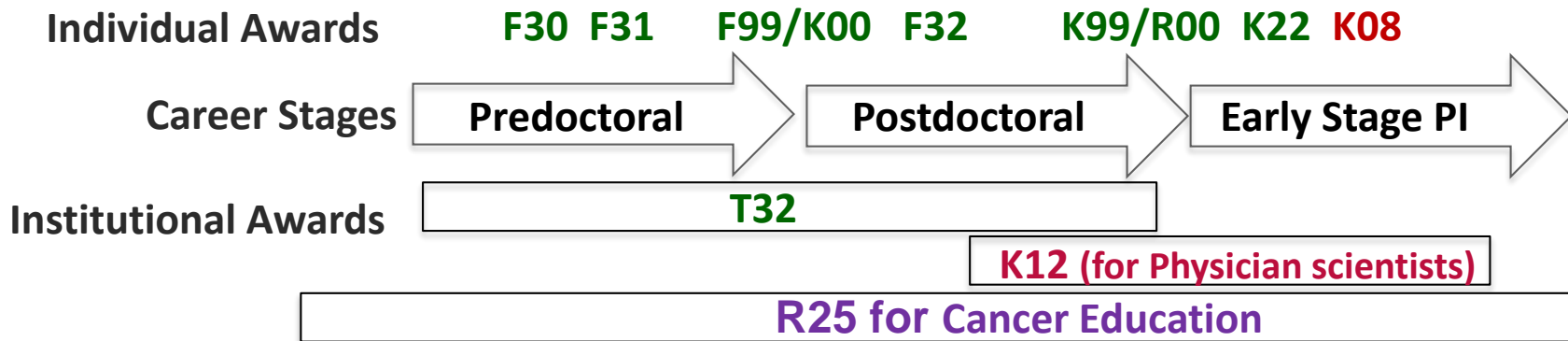


# NCI Training Awards for Students/Postdocs

Ming Lei  
Cancer Training Branch

09-18-2017

# Support Training at Different Career Stages



- Overview the training awards: who should apply? when to apply? how stiff is the competition?
- Can applicants in DCCPS supported disciplines be competitive?

# Training Awards Are Career Stage-specific

Program	Trainees to be Supported	Time to Apply
F30	PhD Candidates in MD/PhD Programs. US Citizen/PR	2 <sup>nd</sup> year in PhD programs
F31	PhD Candidates. US Citizen/PR	3 <sup>rd</sup> year in PhD programs
F99/K00	PhD Candidates. School nominated	1-2 years prior to graduation
F32	Postdocs. US Citizen/PR	3 <sup>rd</sup> year in postdoc or earlier
K99/R00	Postdoc (2 yrs)-PI (3 yrs)	Before the end of the 4 <sup>th</sup> postdoc year
K22	Postdoc (1 yr, no \$)-PI (3 yrs). US Citizen/PR	Before the end of the 8 <sup>th</sup> postdoc year
T32	Graduate students and postdocs. US Citizen/PR	<i>Getting on the T32 program(s) at your institution as a preceptor</i>

# Funding Rates for Training Awards Are Healthy

Program	# of Applications/yr	# of Awards/yr	Success Rate
F30	149 (118)	61 (46)	41% (39%)
F31	222 (269)	57 (72)	26 % (27%)
F99/K00	76	36	47%
F32	227 (240)	41 (42)	18% (18%)
K99/R00	173 (156)	51 (38)	29% (24%)
K22	97 (72)	18 (10)	19% (15%)
T32	86 (72)	45 (30)	52% (41%)

FY16 # (FY12-16 Average #)

# **Take Home Message**

- **There is a training award for every stage of predoctoral-postdoctoral research training.**
- **Funding rates for training awards are healthy.**
- **Training awards support trainees in all cancer research disciplines**

# The NCI F99/K00 Predoc-to-Postdoc Transition Award

---

- **Dual phase funding:** support for up to 2 years for 3<sup>rd</sup>/4<sup>th</sup>-year students to complete graduate study, and 4 years for postdoctoral training in cancer research preferably at a different institution



- **Institutional Nomination of Applicants:** one nomination per institution each year to strengthen institutional input in the selection process
- **Open to the best international students,** removing one NRSA restriction considered outdated by the research community
- **The K00 fellows,** from the first day as postdocs, will be employees with family and retirement benefits etc.

# Applicants from DCCPS-Disciplines Are Successful

---

## DCB

**61% FY17 Apps**  
**64% FY17 Awards**  
**63% FY16 Apps**  
**69% FY16 Awards**

Cell Biology  
Tumor Bio/Metastasis  
Immunol/Hematol/Etiol  
DNA/Chrom Aberr  
Struct Biol & Molec Apps

## DCCPS

**11% FY17 Apps**  
**17% FY17 Awards**  
**8% FY16 Apps**  
**11% FY16 Awards**

Epidemiol/Genomics  
Behavioral Research  
Hlthcare Res/Surveill  
Cancer Control/Pop Sci  
Implementation Science

## DCP

**5% FY17 Apps**  
**6% FY17 Awards**  
**13% FY16 Apps**  
**6% FY16 Awards**

Biostat Model/Methods  
Nutritional Science  
Cancer Prev/Chemo Dev  
Supportive/Palliative Care  
Early Detection/Imaging

## DCTD

**23% FY17 Apps**  
**13% FY17 Awards**  
**16% FY16 Apps**  
**14% FY16 Awards**

Treatment/Diagnosis  
Biomarkers & Technology  
Cancer Imaging  
Radiation Research  
Alternative Medicine

# R25T Programs Complete for T32 Successfully

- An NCI R25T program that supported 38 training grants in cancer prevention, control, behavioral, and population sciences has been merging into the T32 program since FY15.
- Another NCI R25T program with 6 training grants in Nano-technology has also been merging into the T32 program since FY'15.
- 17 of the 38 DCCPS-R25s had submitted T32 applications, and 13 had been funded (76%).



# Changes in the Review Committee's Scientific Expertise

	NCI-F 2011 (26 T32, 44 K99)	NCI-F 2016 (24 T32/K12, 29 R25)
Expertise/background	# reviewers	# reviewers
Basic	23	16
Clinical	6	8
Pop Sci/CanPrevCon/Biostat	4	10
	33	34

# Take Home Message

- **There is a training award for every stage of predoctoral-postdoctoral research training.**
- **Training awards support trainees in all cancer research disciplines**
- **Funding rates for training awards are healthy.**
- **Applicants from DCCPS supported disciplines are competitive. Encourage/help your students/postdocs to apply!**

# Weblinks to Find Detailed Information

**NCI CTB home page:**

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

**NIH grant policy:**

[http://grants.nih.gov/grants/policy/nihgps/HTML5/section\\_11/11.3\\_institutional\\_research\\_training\\_grants.htm](http://grants.nih.gov/grants/policy/nihgps/HTML5/section_11/11.3_institutional_research_training_grants.htm)

**NRSA F&Q:** [http://grants.nih.gov/training/faq\\_training.htm#1259](http://grants.nih.gov/training/faq_training.htm#1259)

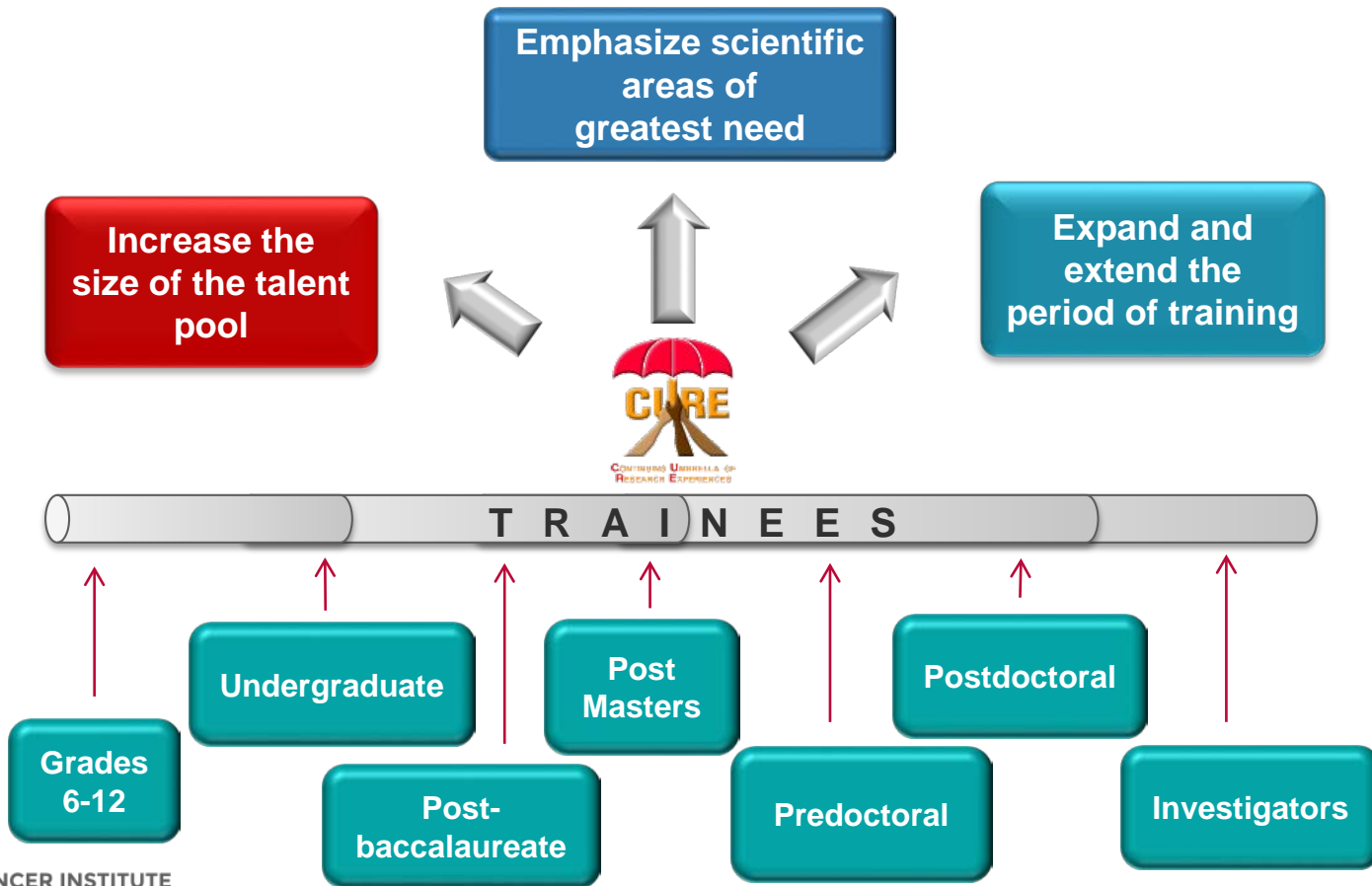
# NCI Funding Opportunities to Increase Diversity in Cancer Research

*Alison Lin, PhD, Program Director*

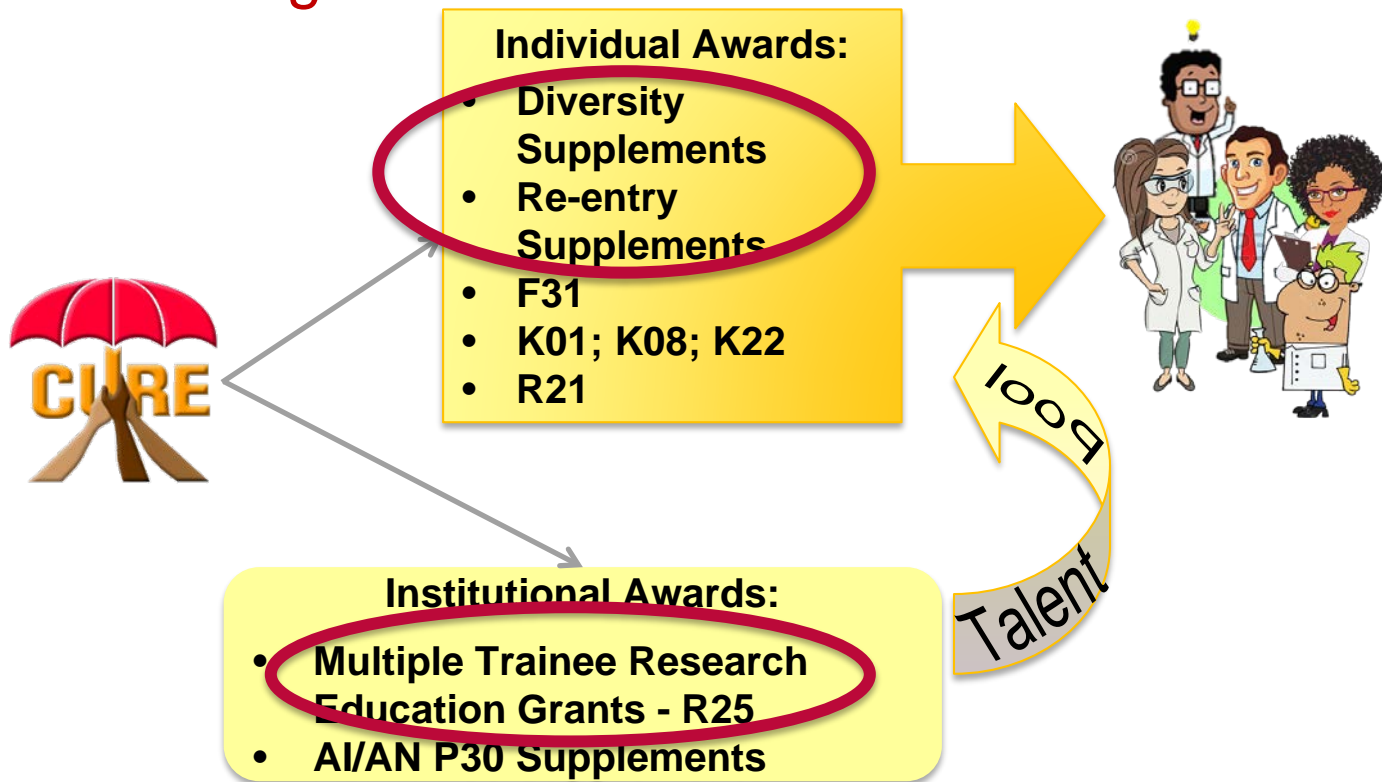
*Diversity Training Branch*

*NCI Center to Reduce Cancer Health Disparities*

# Continuing Umbrella of Research Experiences (CURE)



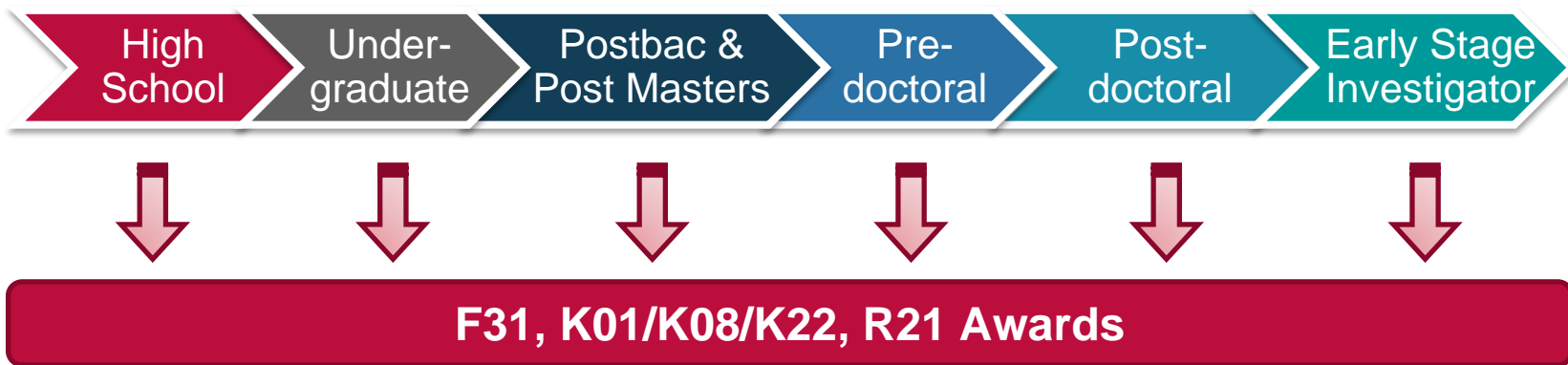
# CURE Funding Mechanisms



Goal: To help trainees achieve scientific independence and self-sustainability

# Diversity Supplements Serve as a Bridge

- Provide additional funding to currently active NIH grants (parent grants) to support research experiences of trainees
- Parent grant must have at least two years of active status at the time of supplement application;
- Application receipt: Oct 1 – Dec 1 and Feb 1 – Mar 30



# Research Supplements to Promote Diversity in Health-Related Research (PA-16-288, Diversity Supplements)

Individuals of  
Different  
Race/Ethnicity

Individuals with  
Disability

Individuals from  
Disadvantaged  
Background

US citizens or Permanent Residents

- <https://grants.nih.gov/grants/guide/pa-files/PA-16-288.html>
- <http://www.cancer.gov/about-nci/organization/crchd/diversity-training/cure/DSGuidelines>
- <http://crchd.cancer.gov>



# Diversity Supplements: Special Eligibility Criteria for Graduate Students and Postdoctoral Fellows



- **No concurrent PHS support for graduate student or postdoctoral fellow candidate at the time of application:**
  - Cannot be supported by parent grant;
  - If coming off of institutional training grant, need letter from institution.
- **AFTER application submission:**
  - Can be supported by the parent grant at the recipient's own risk, pending funding decision of supplement application.

# Research Supplements to Promote Re-Entry into Biomedical and Behavioral Research Careers (PA-16-289, Re-Entry Supplements)



- Candidate does not need to be from underrepresented populations
- Candidate must have been on hiatus from research for 1-8 years; must be postdoctoral fellow or faculty before hiatus
- <https://grants.nih.gov/grants/guide/pa-files/PA-16-289.html>
- <http://www.cancer.gov/about-nci/organization/crchd/diversity-training/cure/ReEntryGuidelines>
- <http://crchd.cancer.gov>

# What Do We Look for in a Supplement Application?

Candidate	Mentoring and Career Development Plan	Research Plan
<ul style="list-style-type: none"><li>• Motivation</li><li>• Accomplishments</li><li>• Career goals</li><li>• <b>Eligibility statement</b></li></ul>	<ul style="list-style-type: none"><li>• Scientific proficiency and mentoring expertise of mentor(s)</li><li>• Defined role(s) and commitment of mentor(s)</li><li>• Training of career skills</li><li>• Clear benchmarks</li><li>• Candidate-specific plans</li></ul>	<ul style="list-style-type: none"><li>• <b>Relevancy to Parent Grant project</b></li><li>• Scientific impact on Parent Grant project</li><li>• Research design and feasibility</li><li>• Alignment with candidate's career goals</li></ul>

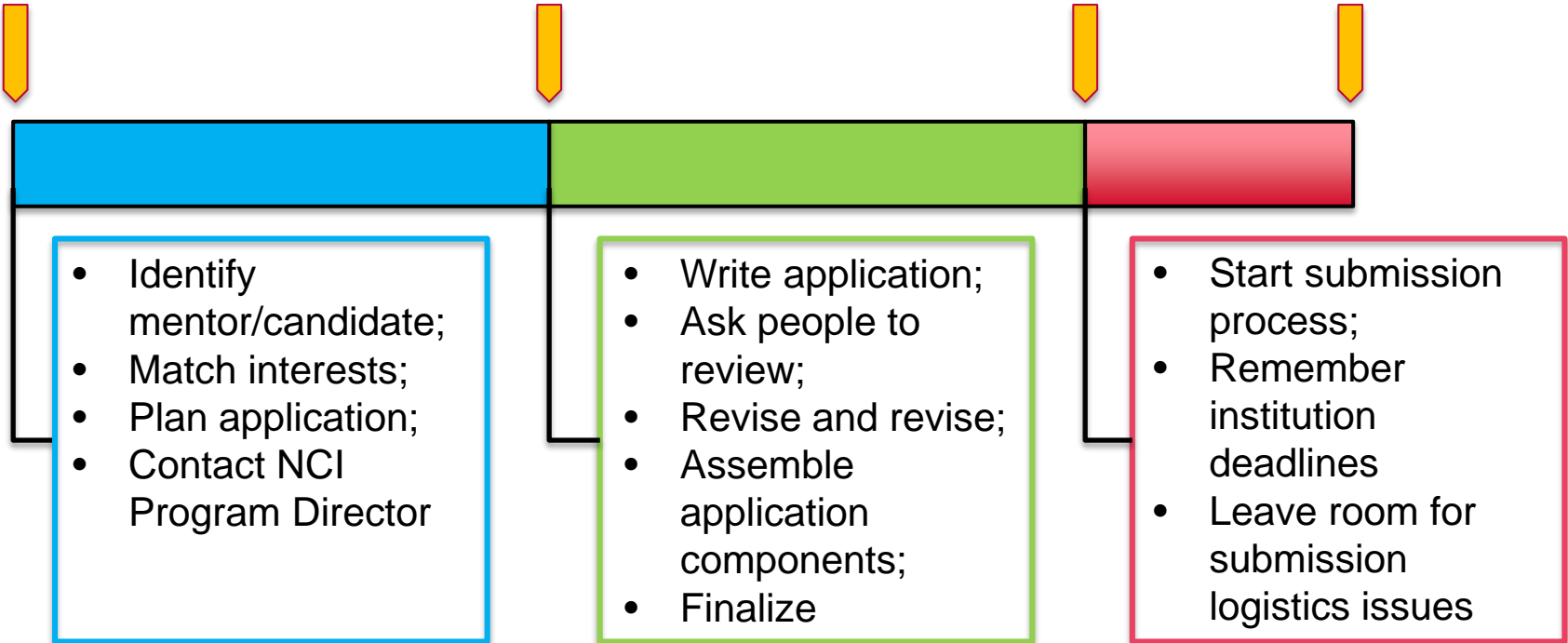
# Sample Time Line for Preparing a Supplement Application

5 Months  
Prior

3 Months  
Prior

1 Month  
Prior

Submission  
Deadline



# R25 Research Education Grants Increase the Pool of Potential Applicants for Individual CURE Awards

- Multiple-trainee awards to institutions for developing innovative programs to enhance cancer research education of underrepresented individuals
- Must not overlap with other training programs at the institution (T32, etc.)
- F&A 8%; max five years
- Application receipt: January 25, May 25, September 25
- <http://crchd.cancer.gov>

# R25 Mechanisms (January 25, May 25, September 25)

FOA	Participants & Budget	Activities & Commitment
<p><b>NCI Youth Enjoy Science (YES)</b>            Research Education Program R25  <a href="https://grants.nih.gov/grants/guide/pa-files/PAR-17-059.html">https://grants.nih.gov/grants/guide/pa-files/PAR-17-059.html</a></p>	<ul style="list-style-type: none"> <li>• Grades 6-12 students and teachers</li> <li>• Undergraduate students and faculty</li> <li>• Max DC: \$500k per yr</li> </ul>	<ul style="list-style-type: none"> <li>• Research Experiences</li> <li>• Curriculum or Methods Development</li> <li>• Outreach</li> <li>• Two years (3 mo. per year) commitment</li> </ul>
<p>Cancer Research Education Grants Program to Promote Diversity –  <b>Research Experiences</b>  <a href="https://grants.nih.gov/grants/guide/pa-files/PAR-16-138.html">https://grants.nih.gov/grants/guide/pa-files/PAR-16-138.html</a></p>	<ul style="list-style-type: none"> <li>• Undergraduate students</li> <li>• Graduate students</li> <li>• Medical, dental and other health professional students</li> <li>• Health care providers</li> <li>• Biomedical researchers</li> <li>• Max DC: \$300k per yr</li> </ul>	<ul style="list-style-type: none"> <li>• Hands-on experience in lab or field</li> <li>• Full time for 10-15 weeks</li> </ul>
<p>Cancer Research Education Grants Program to Promote Diversity –  <b>Courses for Skills Development</b>  <a href="https://grants.nih.gov/grants/guide/pa-files/PAR-16-139.html">https://grants.nih.gov/grants/guide/pa-files/PAR-16-139.html</a></p>		<ul style="list-style-type: none"> <li>• Cancer education course</li> <li>• In-person, online or both</li> <li>• Max 15 weeks per year</li> </ul>

# NCI CURE Program Staff Contacts

Mechanism	PD Contact
Diversity and Re-entry Supplements	Drs. Alison Lin and Elena Schwartz
F31 Diversity	Dr. Nicole E. McNeil Ford
K01, K08, K22	Drs. John Ojeifo and Abigail Soyombo
R21 Diversity	Dr. Abigail Soyombo
R25 Research Education Grants	Dr. Alison Lin (R25 YES) Dr. Elena Schwartz (R25 Research Experiences and R25 Courses for Skills Development)
Program Analyst	Rita LaPointe
Program Assistant	Susan Macharia

<http://crchd.cancer.gov>