

Update on Diversity Cancer Training

*Peter Ogunbiyi, DVM, PhD
Chief, Diversity Training Branch
NCI Center to Reduce Cancer Health Disparities*

Outline

1. **Overview of CRCHD Programs**
2. *The Continuing Umbrella of Research Experiences (CURE) Program*
3. *A Look at FY 2012-2018*
4. *Moving Forward*

CRCHD Programs

Diversity Training



Partnerships

- Partnerships to Advance Cancer Health Equity (PACHE)

Cancer Health Disparities Research

- Basic research
- Translational research

Networks

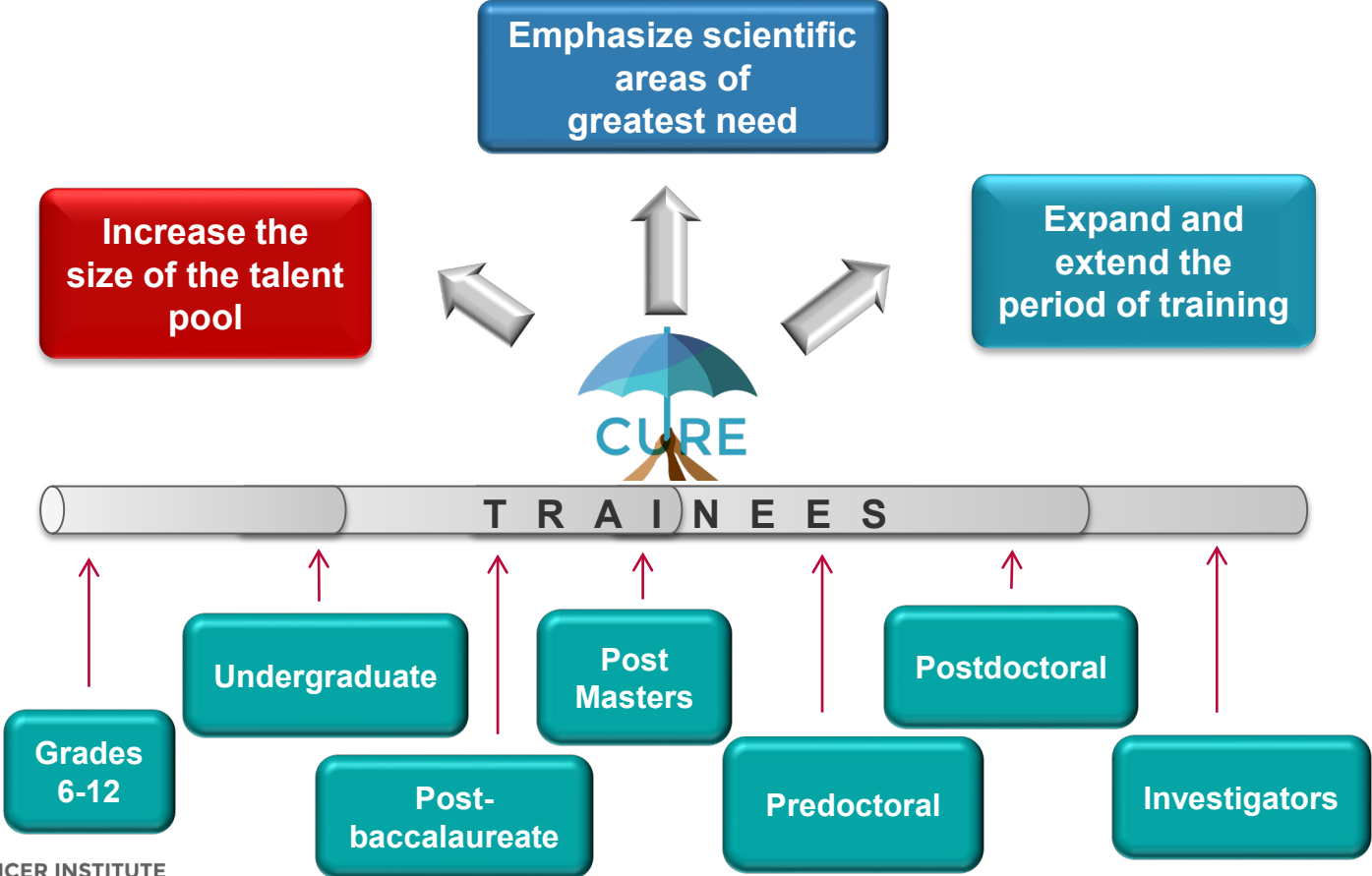
- Geographic Management of Cancer Health Disparities Program (GMAP)
- National Outreach Network (NON)



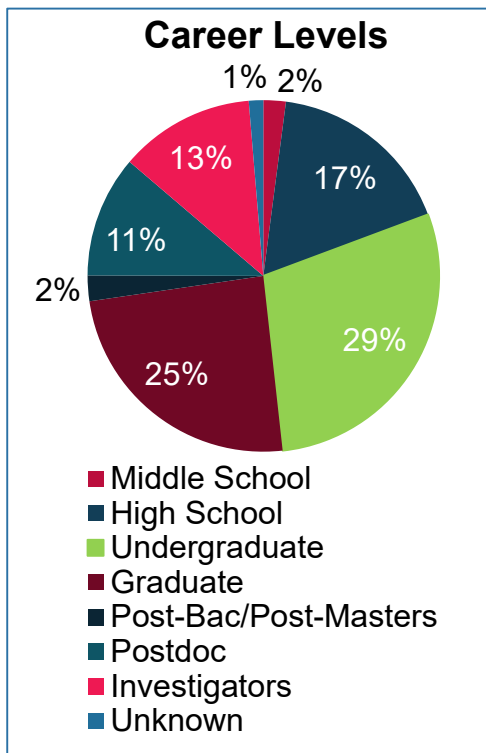
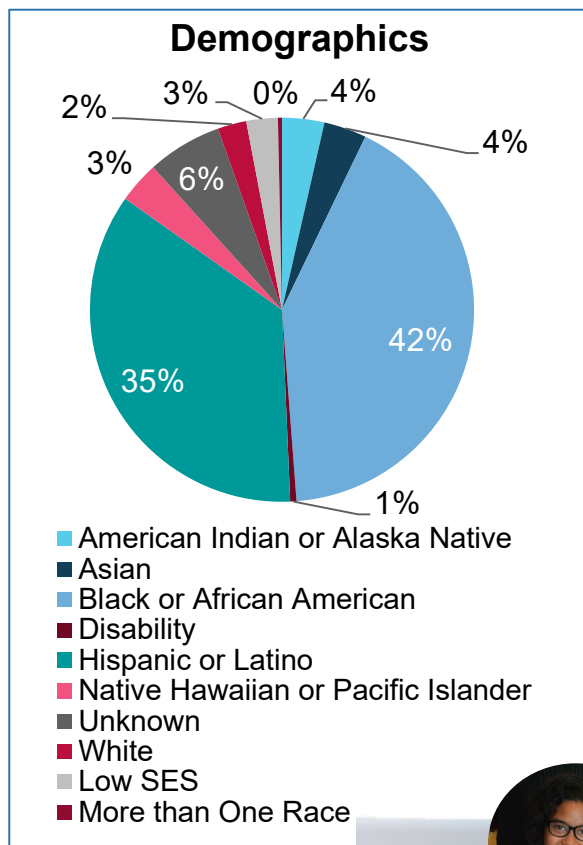
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Continuing Umbrella of Research Experiences



CURE Trainees (2001-2018, n = 4,753) Are Diverse



CURE is More Than a Pipeline

Ecosystem of Support



Set Clear Goals and Monitor Progress

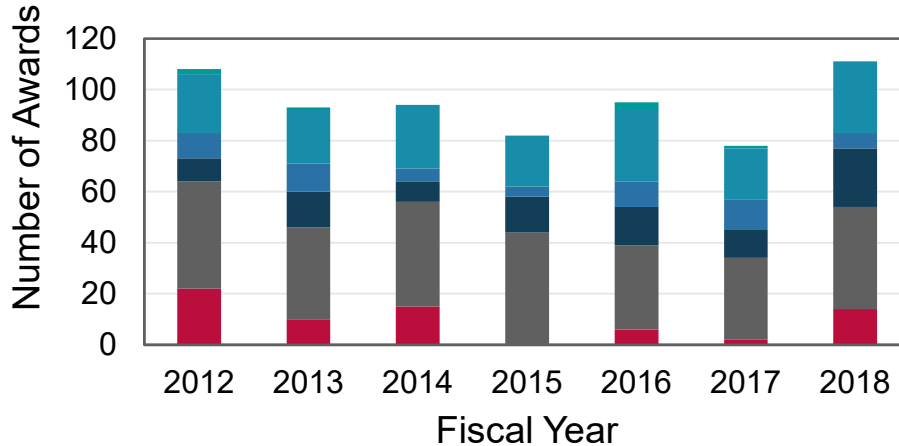


Outline

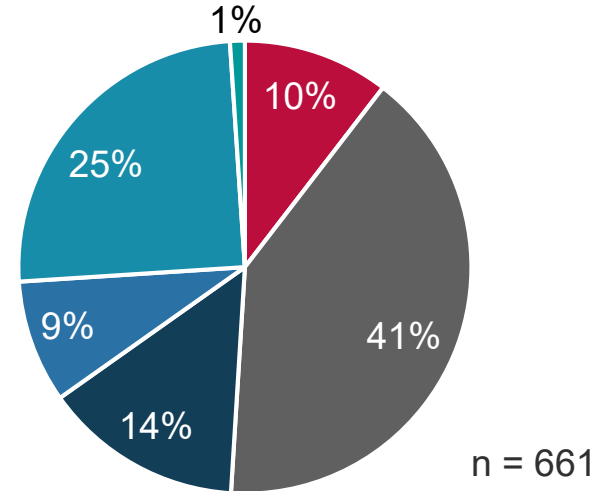
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Diversity and Re-entry Supplements Support Research Experiences Across NCI DOCs (FY 2012 – 2018)

Supplement Award Distribution



Total Awards by DOC



■ CRCHD
 ■ DCB
 ■ DCCPS
 ■ DCP
 ■ DCTD
 ■ OD

DCP: Division of Cancer Prevention

DCB: Division of Cancer Biology

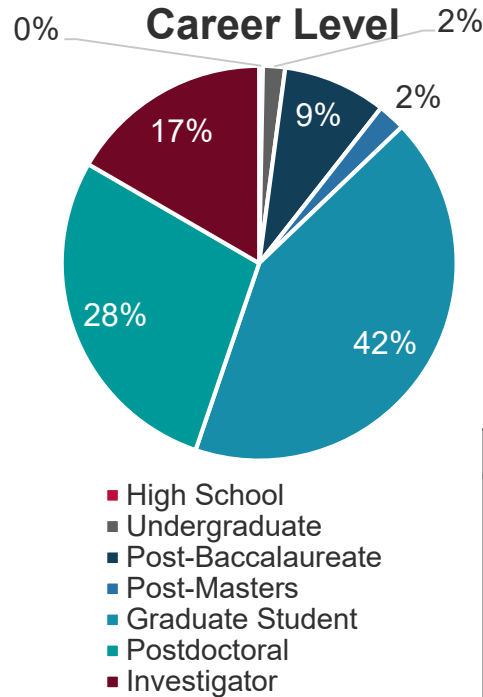
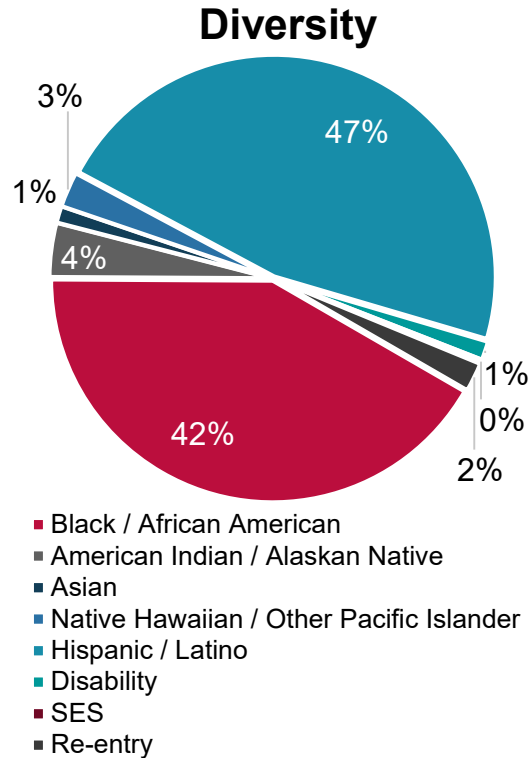
OD: Office of the Director

DCCPS: Division of Cancer Control and Population Sciences

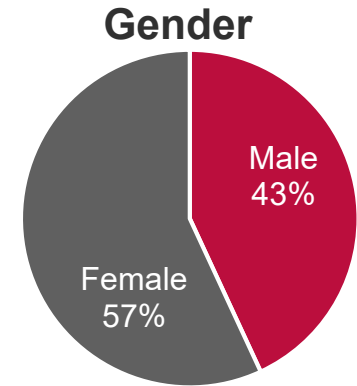
DCTD: Division of Cancer Treatment and Diagnosis

CRCHD: Center to Reduce Cancer Health Disparities

Diversity and Re-entry Supplements - Demographics and Outcomes (FY 2012-2018)



n = 661

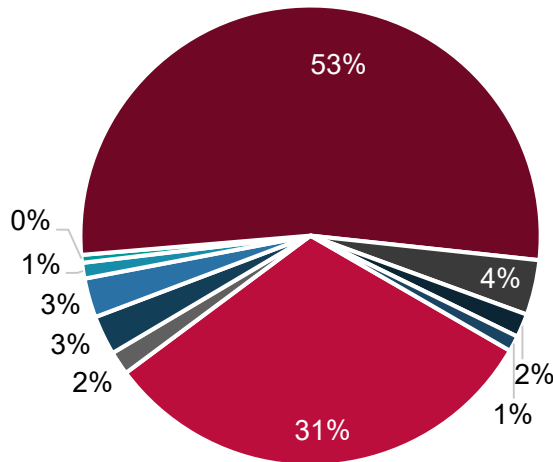


Reported Supplement Outcomes	
# K Awards	23
# R01	8
# R03	2
# R21	13
# Other Awards	27
# Publications	508
# Oral Presentations	315

F31- Demographics, Research Types and Outcomes (FY 2012-2018)

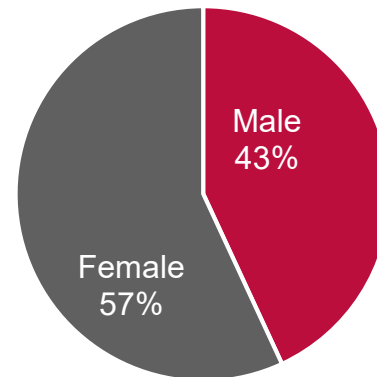
- Black / African American
- American Indian / Alaskan Native
- Asian
- Native Hawaiian / Other Pacific Islander
- Multiple Races
- White
- Hispanic / Latino
- Disability
- SES

Diversity



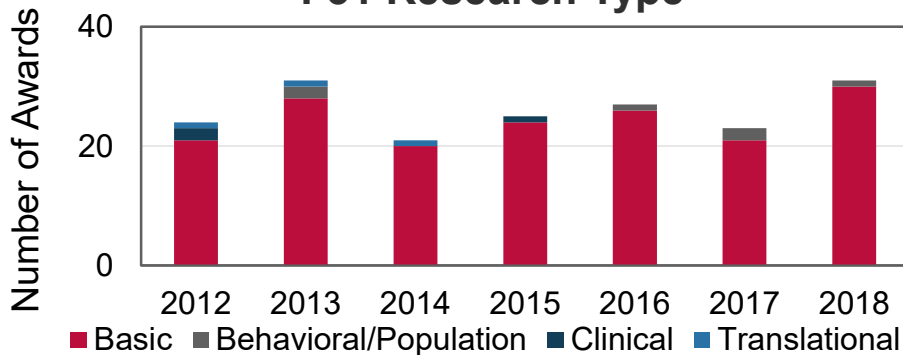
n = 181

Gender



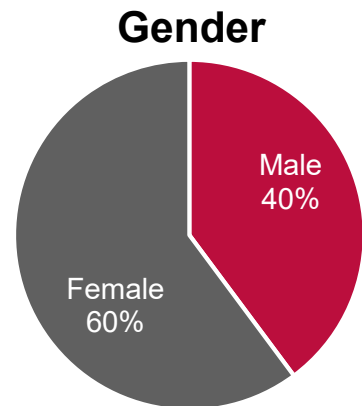
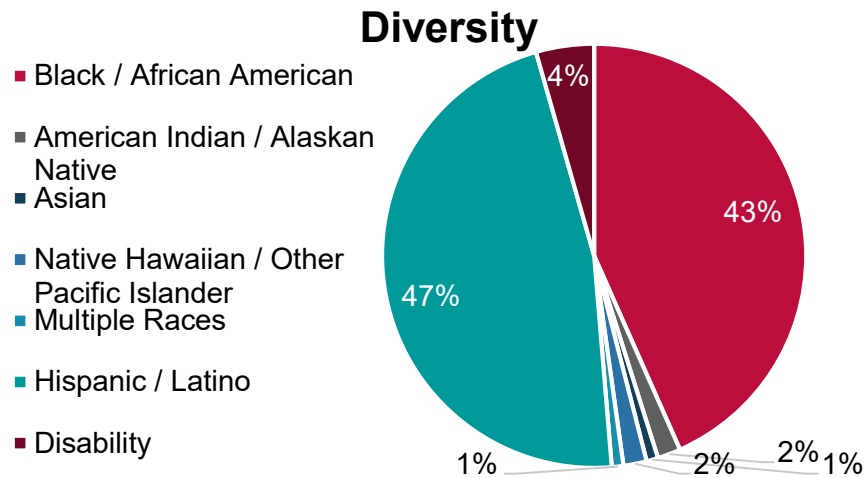
Reported F31 Outcomes	
# Publications	380
# K Awards	5
# Other NIH Awards	8

F31 Research Type



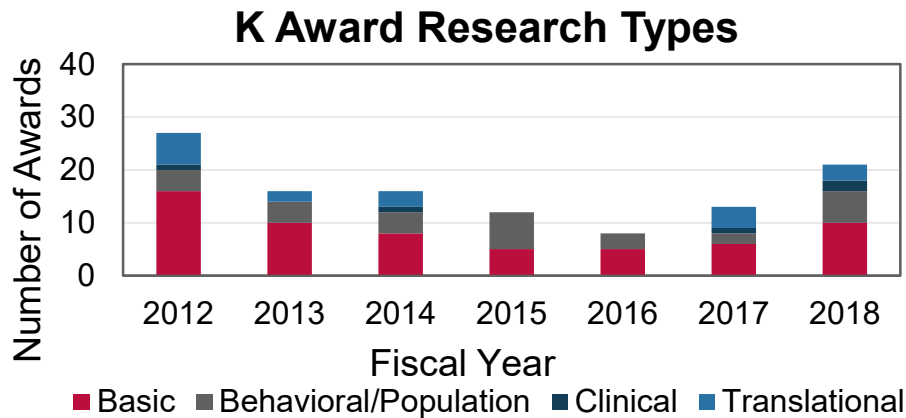
Cancer Health Disparities Research: 5%

K Awards – Demographics, Research Types and Outcomes (FY 2012-2018)



n = 113

Reported K Award Outcomes	
# Publications	539
# R01	15
# R03	4
# R21	24
# Other NIH Awards	10



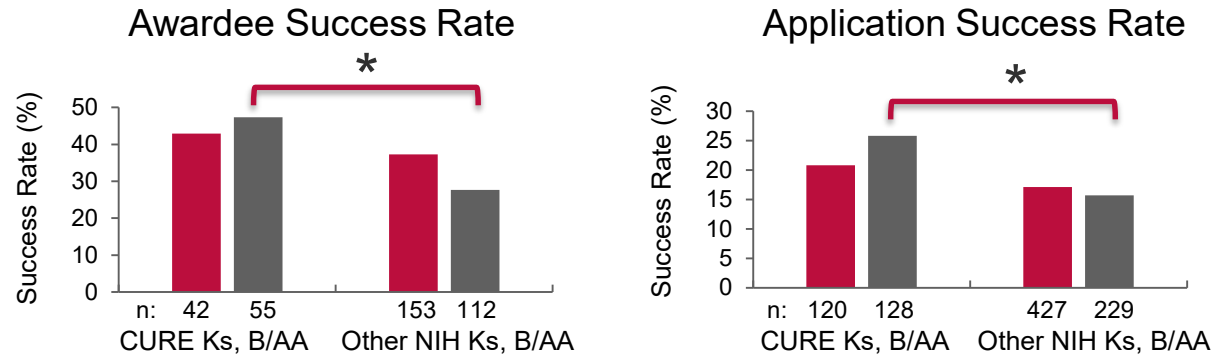
Cancer Health Disparities Research: 22%

Success Rates of CURE K Awardees in Obtaining Subsequent NIH Grants Compared with Other NIH K Awardees (FY 2001-2015)

Comparison Groups:

- CURE K Awardees All
- Other NIH K Awardees All
- Other NIH K Awardees White
- CURE K Awardees Black/African American
- Other NIH K Awardees Black/African American
- CURE K Awardees Hispanic/Latino
- Other NIH K Awardees Hispanic/Latino

- Success rate of obtaining R01: CURE similar to other K awardees
- Success rate of obtaining R03 or R21: *Black/African American CURE K awardees, similar to other groups, perform significantly better than Black/African American Other NIH K Awardees*



* $p < 0.05$

■ R01 ■ R03 or R21

R25 Youth Enjoy Science (YES) Research Education Program – Initiated in November, 2016



Purpose: YES promotes effective **early intervention strategies** to:

- Engage students from **diverse** backgrounds and their teachers in cancer research
- **Inspire interest** in biomedical sciences and cancer research
- **Help envision** cancer research as a **career path**
- **Strengthen** practical research and career **skills**

YES Application

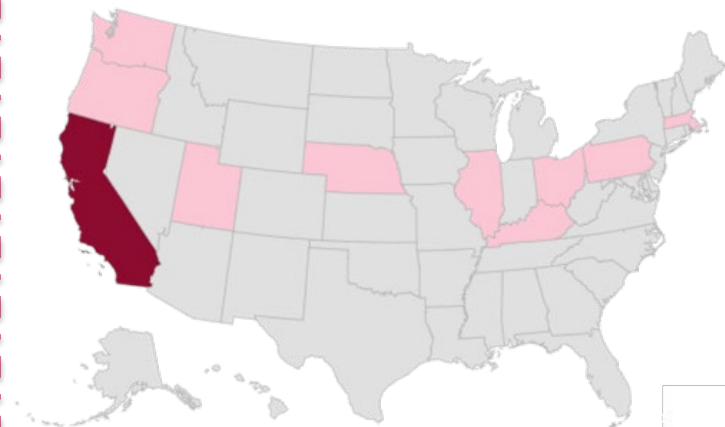
- Research experiences
- Curriculum and Methods Development
- Outreach

YES Career Level

- Middle school, high school and undergraduate students
- Teachers and faculty

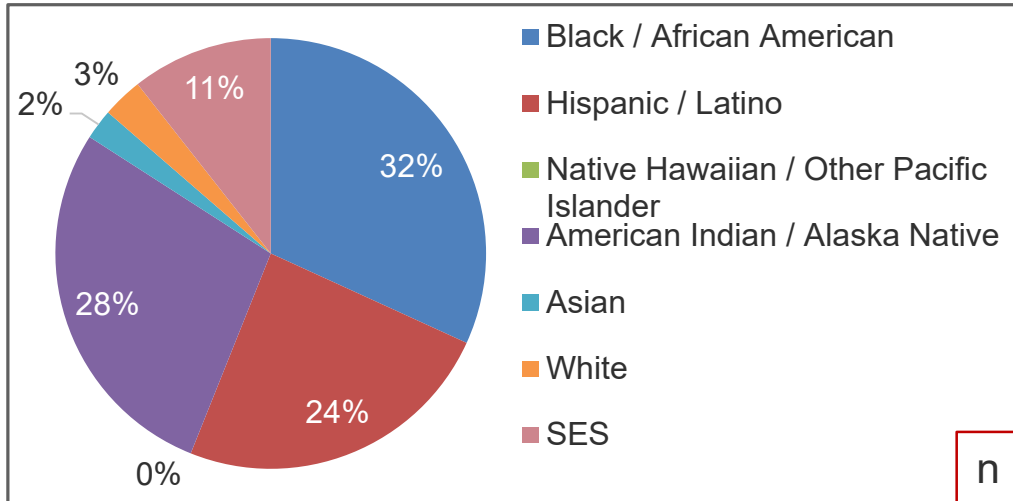
Distribution of Current 11 R25 YES

of R25 YES 
1 2

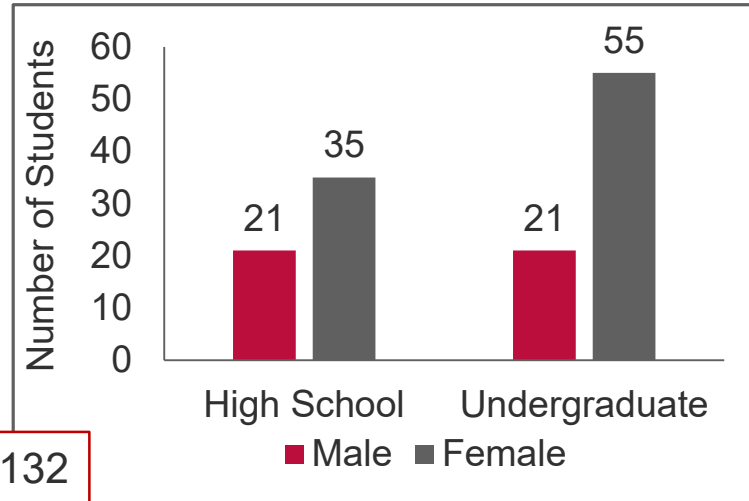


R25 YES Demographics, FY2018 (5 Programs, First Year)

Student Diversity



Student Gender and Career Level



n = 132

3 of the programs will recruit middle school students starting Year 2

Middle School Teachers	High School Teachers	Undergraduate Faculty
0	8	9

R25 YES Impact Scores: Awards Limited by Budget Constraints

Applications		Awarded	Excellent But Not Awarded	Not Awarded		Total
FY 2018	Score	10-25	25-30	31-65	ND	33
	Number	5	8	12	8	
FY 2019	Score	10-20	23-28	36-70	ND	32
	Number	6	3	19	4	

Budget per award per year:
Up to \$500k DC
(\$540k TC)

Each award: up to 5 years

Applications		Reviewed				Awaiting Review	Total
FY 2020	Score	14-20	23-30	31-65	ND	N/A	40
	Number	5	3	12	4	16	

How many can be awarded?

Intramural Diversity-Focused Training Program: Intramural CURE (iCURE) – Initiated in December, 2017



Website: <https://www.cancer.gov/about-nci/organization/crchd/diversity-training/icure>

Applications NOW OPEN
Nov 20, 2019 – Jan 17, 2020
iCURE@nih.gov

Purpose:

- Support research experiences of underrepresented students and scientists in the **NCI Intramural Research Program** in Bethesda, Rockville and Frederick, Maryland
- Promote professional and career development
- Help the trainees achieve research independence

**Post-baccalaureate
(Incl. Post-master's)**

**One-year research
experience awards**

Graduate Students

**Two-year research
experience awards**

Postdoctoral Fellows

**Three-year research
experience awards**

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Moving forward ...

Diversity Training



Increase R25 YES budget: building a pipeline of diversity-focused training is the foundation of a diverse pool of R01 grantees

Promote training in **quantitative sciences** – new initiatives

Continue enhancement of training opportunities in **cancer health disparities research**

Improve the competitiveness of Postdoctoral Fellows and Investigators

Improve tracking of trainees to better evaluate the impact of the programs

Contact

Peter Ogunbiyi, DVM, PhD
ogunbiyp@mail.nih.gov

 @NCICRCHD

<https://www.cancer.gov/about-nci/organization/crchd>

Acknowledgements

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iCURE

Alison Lin, PhD

Jessica Calzola, PhD, PMP

Eric Johnson Chavarria, PhD

Etaria Omekwe, MS

Training Navigation

Hana Odeh, PhD



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