Application Webinar: RFA-CA-21-020 NCI R25 Youth Enjoy Science (YES) Research Education Program

Alison Lin, PhD Acting Chief, Diversity Training Branch NCI Center to Reduce Cancer Health Disparities

Continuing Umbrella of Research Experiences (CURE)

Increase the size of the talent pool

Emphasize scientific areas of greatest need

Expand and extend the period of training

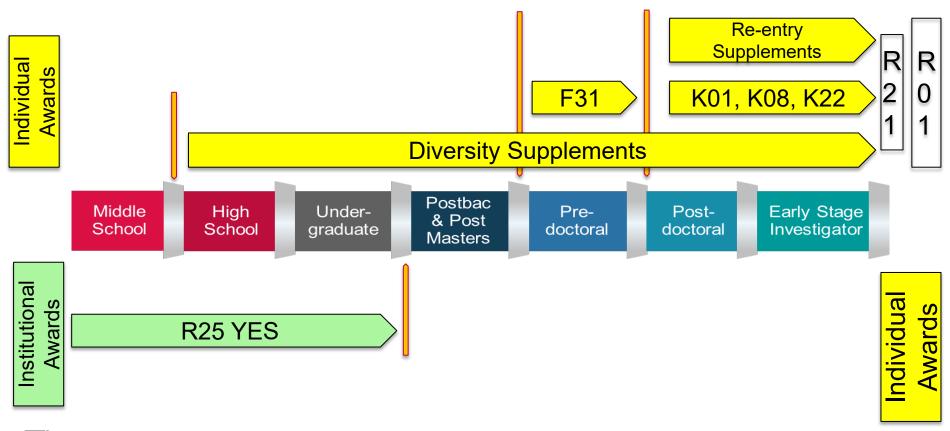
Focused on enhancing diversity: Trainees must be US citizen, non-citizen nationals or permanent resident

Race/Ethnicity

Disability

Disadvantaged Background

CURE Funding Mechanisms



Early Intervention Strategies within CURE

P30 CURE Supplements (P30S)

- Supplement to the NCI-Designated Cancer Centers
- For high school and undergraduate students
- Engage, not just expose: twoyear commitment of participants (at least 3 months per year)
- Holistic approach of the CURE: encourages support activities for students



R25 Youth Enjoy Science (YES)

- Open to all institutions
- For middle school, high school and undergraduate students, their teachers and faculty
- Inspire interest in biomedical sciences and cancer research
- Help envision cancer research as a career path
- Strengthen practical research and career skills



R25 YES Requires Three Activities

Research Experience

- Individual, mentored research experience for high school students and more senior
- Strong mentoring support

Curriculum / Methods

- Education tools for students
- Teacher/faculty participants develop activities to bring back to classroom

Outreach

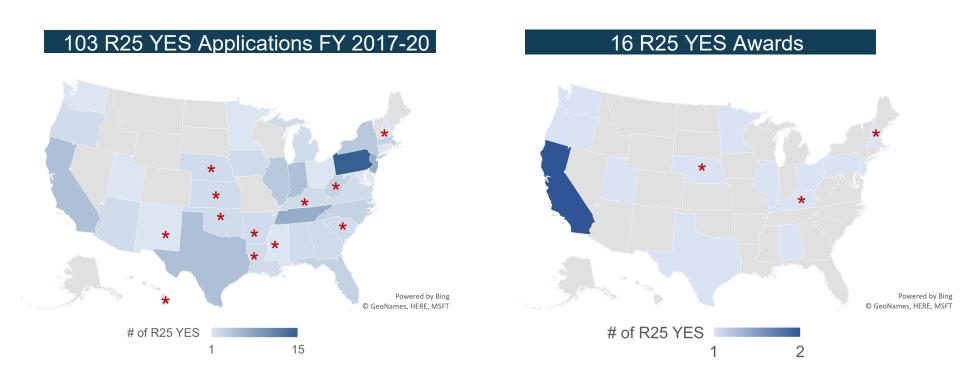
- To students:
 - Introduce middle school students to cancer research in organized and systematic fashion
 - Increase awareness of the YES and facilitate recruitment
 - Enhance understanding of significance of Research Experiences
 - Strengthen career skills
- For students:
 - Meaningfully engage families, teachers, and communities
- By students:
 - Education and dissemination of cancerrelated information to family and community



R25 YES Evaluation

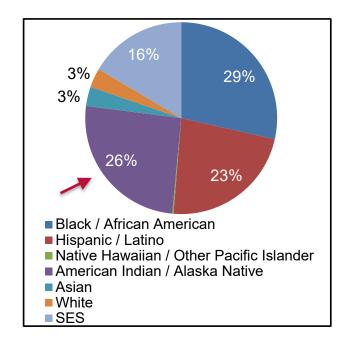
Activity	Evaluation		
Research Experiences	 Number and demographics of students Interest in cancer research Academic progress (graduation) Career progress (continuation in cancer and biomedical research fields; continuation in CURE) 		
Curriculum or Methods Development	 Number and effectiveness of education tools, activities, and/or curricula developed and implemented Number of teacher/faculty participants 		
Outreach	 Middle school student tracking (see above) Number and effectiveness of activities that: Promote student skills, knowledge and well-being Support student participation in YES Are conducted by the students in education and dissemination of cancer research findings 		
Collaboration	 Number and effectiveness of collaborative tools or activities developed and implemented 		

R25 YES Application and Awards Geographic Distribution

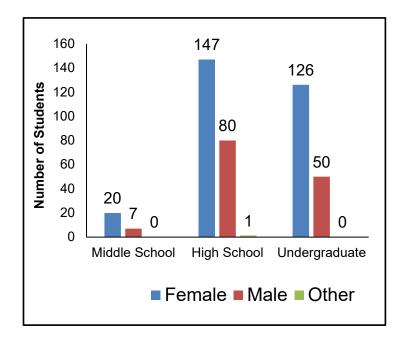


* Institutional Development Award (IDeA)-eligible states: low NIH funding

YES Outcome FY 2018-19 (8 Programs): Participant Recruitment



n = 431 students



Middle School	High School	Undergraduate
Teachers	Teachers	Faculty
1	24	9

In high demand (5 programs reported): 17% student participant selection rate

R25 YES Participants (not outreach):

- Must be US citizens, non-citizen nationals or permanent residents
- Middle school, high school and undergraduate students and teachers and faculty
 - > An application does not need to include all career levels
- At least two years (3 mo. per year) program participation
- YES particularly encourages applications supporting student participants from populations who are underrepresented in biomedical research:
 - ➤ In alignment with Notice of NIH's Interest in Diversity (NOT-OD-20-031)
 - Race/ethnicity: Black/AA, Hispanic/Latinx, AI/AN, NH/PI
 - ➤ Disability
 - Disadvantaged background

R25 YES Application Should Have:

- Clearly identified and justified need specific to application
- Cohesive and integrated program design
 - An overall central theme
 - Solid connections between the different components
 - Feasibility for implementation
- Clear cancer focus
- Convincing recruitment plan
- Strong support activities, especially for pre-college participants
- Evaluation plan that corresponds with the program goals (which corresponds with need)
- Clear and feasible exit strategy for the participants

Things to Note for Potential Applicants:

- Read the FOA (RFA-CA-21-020)
- Discuss with the Program Director (<u>Dr. Alison Lin</u>)
- Scope: be realistic and focused with a program-specific budget
- Cancer focus: all education should be tied to cancer relevance
 - ➤ Ex: DNA alone no; DNA followed by its role and impact in cancer yes!
- Outreach: need to include activities that support the student participants
 - → tied to meaningful engagement of family and community
- Teachers be aware of how program will benefit teachers

Allowed Budget for R25 YES in RFA-CA-21-020

- Maximum of \$400,000 direct cost per year
- F & A: 8%
- Maximum project period: 5 years
- Personnel cost (including consultant): up to \$4,500 per participant in direct cost → must specify target steady-state number of expected participants per year
 - ➤ Example: 2 year program for participants; Year 1 10 new; Year 2-4 10 new + 10 continuing; Yr 5 10 continuing; → steady-state number = 20 participants per year
 - ➤ Example: 20 participants per year → \$90,000 in DC per year personnel cost
- Participant compensation allowed for participation in activities specifically required by the proposed research education program
- Research-related expense: up to \$1,500 per participant per year
- Housing allowance: average per participant per year cannot exceed \$1,000

Important dates

- Letter of Intent: not required but strongly encouraged; 30 days before application receipt date
 - Descriptive title of proposed activity
 - ➤ Name(s), address(es), and telephone number(s) of the PD(s)/PI(s)
 - Names of other key personnel
 - Participating institution(s)
 - Number and title of this funding opportunity

Year	Application Receipt Date	Initial Review	Council Review	Earliest Possible Start Date*
2021	October 28	March/April 2022	May 2022	July 2022
2022	September 28	March/April 2023	May 2023	July 2023
2023	September 28	March/April 2024	May 2024	July 2024

^{*} Start dates are determined by the availability of NCI funds and may not occur until well after the earliest possible start date.

Contact

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nci/organization/crchd

