

# **NCI Research Training and Career Development Awards**

**Michael Schmidt, PhD  
Center for Cancer Training**

**DCB New Grantee Workshop  
01/13/2021**

# Research Training and Career Development Awards



# Cancer Training at the NCI

## Cancer Training Branch (CTB) Center for Cancer Training (CCT)

- Institutional Training Grants
- Individual Career Development Awards
- Transition Awards
- Fellowships

**1,305 awards**  
**\$201.6 M**

## Diversity Training Branch (DTB) Center to Reduce Cancer Health Disparities (CRCHD)

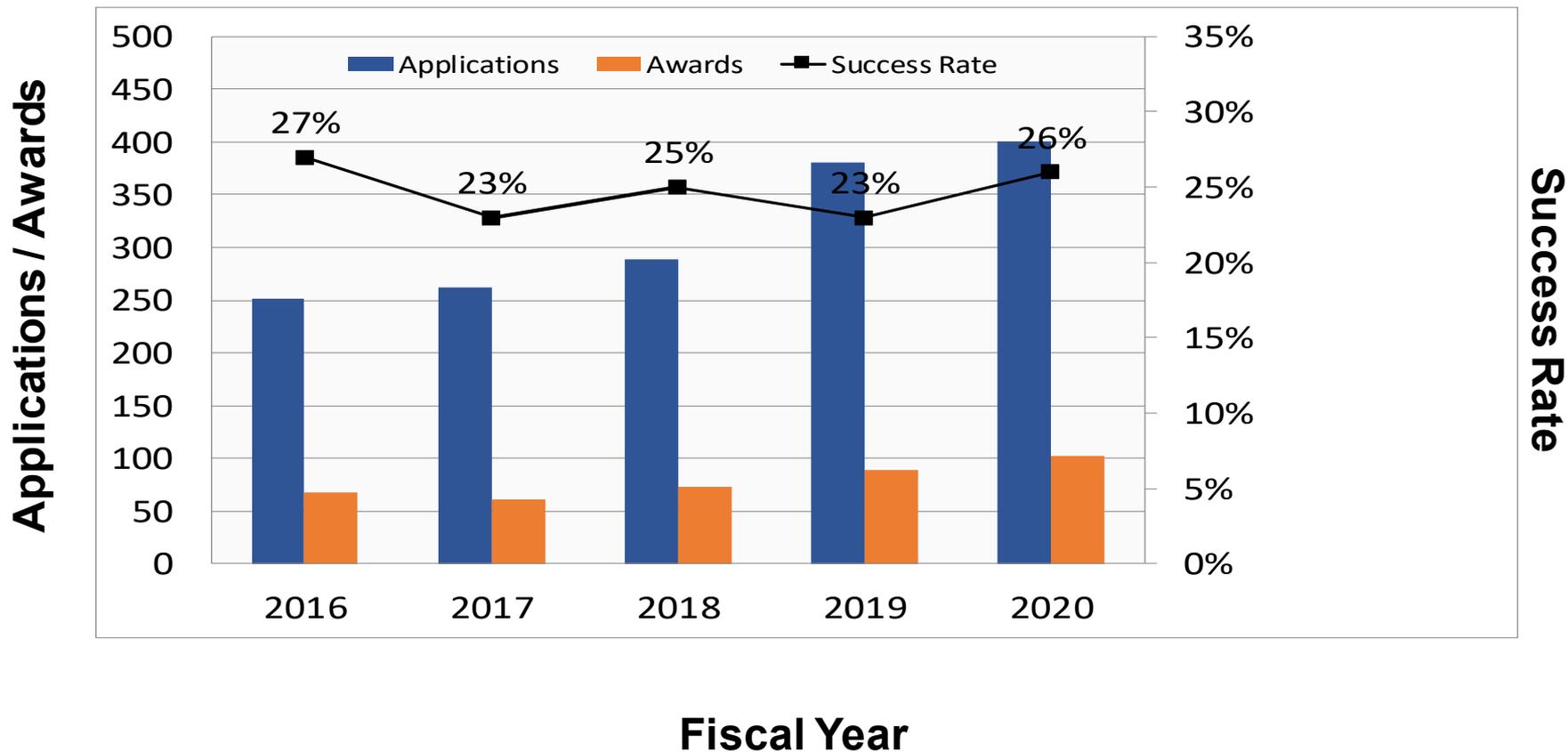
*Awards intended for underrepresented minorities  
and individuals with disabilities*

- Individual Career Development Awards
- Transition Awards
- Fellowships
- Research Supplements to Promote Diversity

# Ruth L. Kirschstein National Research Service Award (NRSA) Individual Fellowship

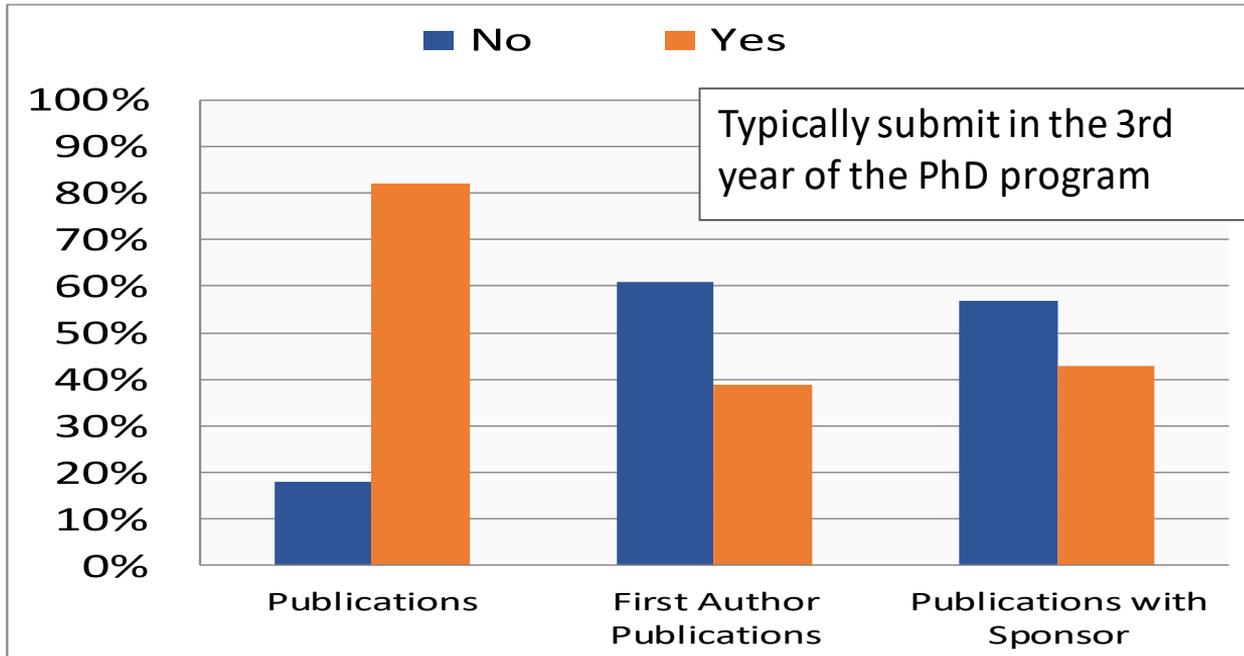
- Stipend (full-time effort required)
  - Predocs (F30 or F31): \$24,816 per year for up to 5 or 6 years
  - Postdocs (F32): \$50,004—\$61,308 per year for up to 3 years
- Partial tuition and fees
  - 60%, up to \$16,000 (in a degree program) or \$4500 (postdocs)
- Funds for training-related expenses (mostly health insurance)
  - \$4200 for a predoc trainee; \$10,850 for a postdoc trainee

# F31 Applications, Awards and Success Rates



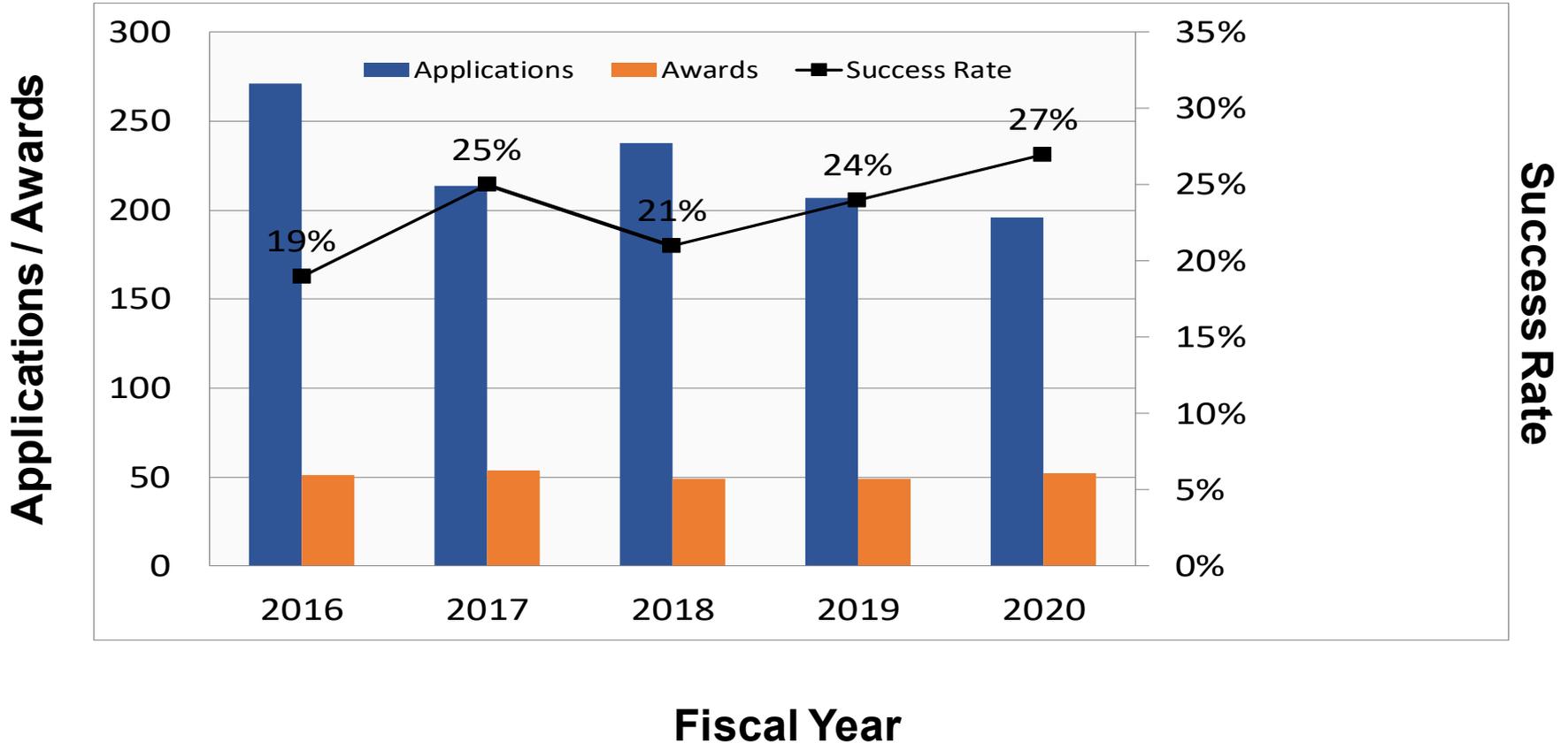
# F31 Pre-doctoral Fellow Characteristics

Enrolled in research doctoral degree (e.g., PhD) programs  
US Citizens or Permanent Residents



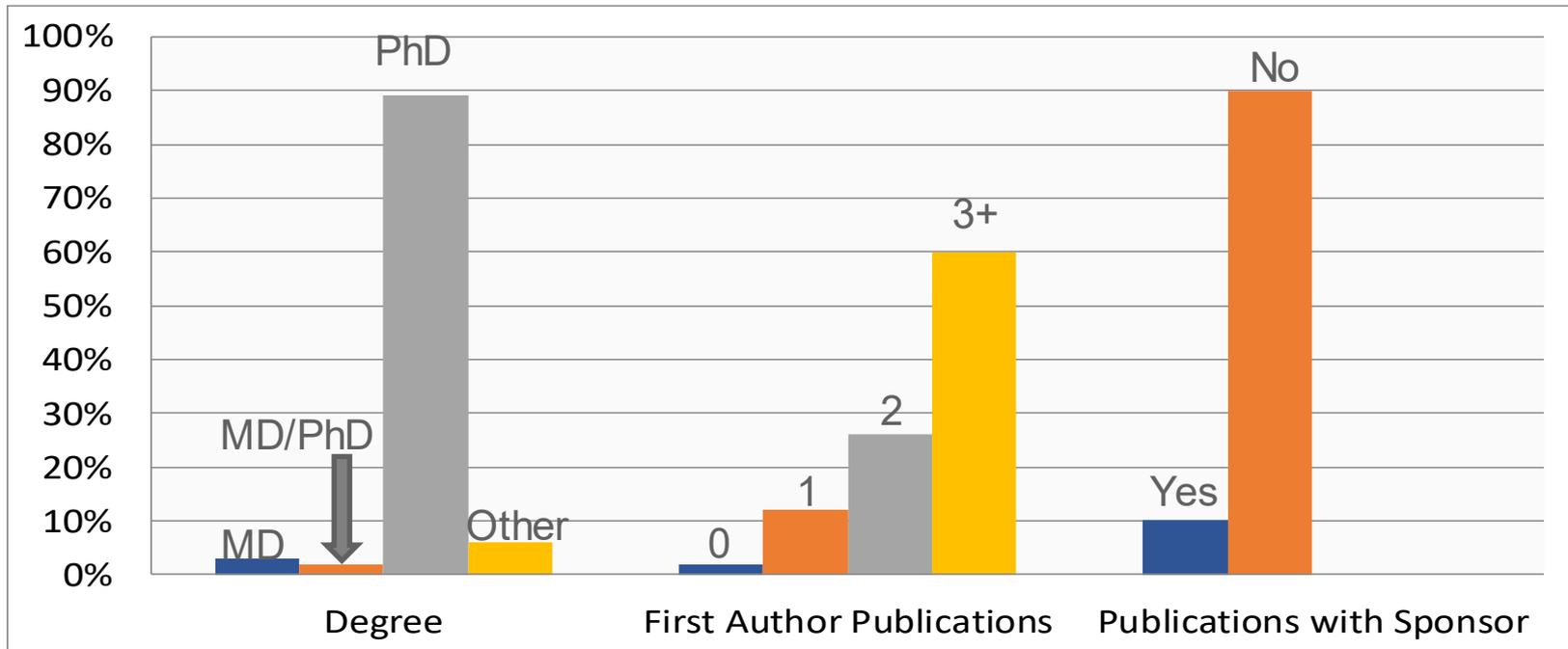
70-75% of applicants have a pub,  
30% have 1<sup>st</sup> author pub

# F32 Applications, Awards and Success Rates



# F32 Post-doctoral Fellow Characteristics

US Citizens or Permanent Residents  
Typically submit during the 1<sup>st</sup> (30%) or  
2<sup>nd</sup> (60%) year of postdoc.



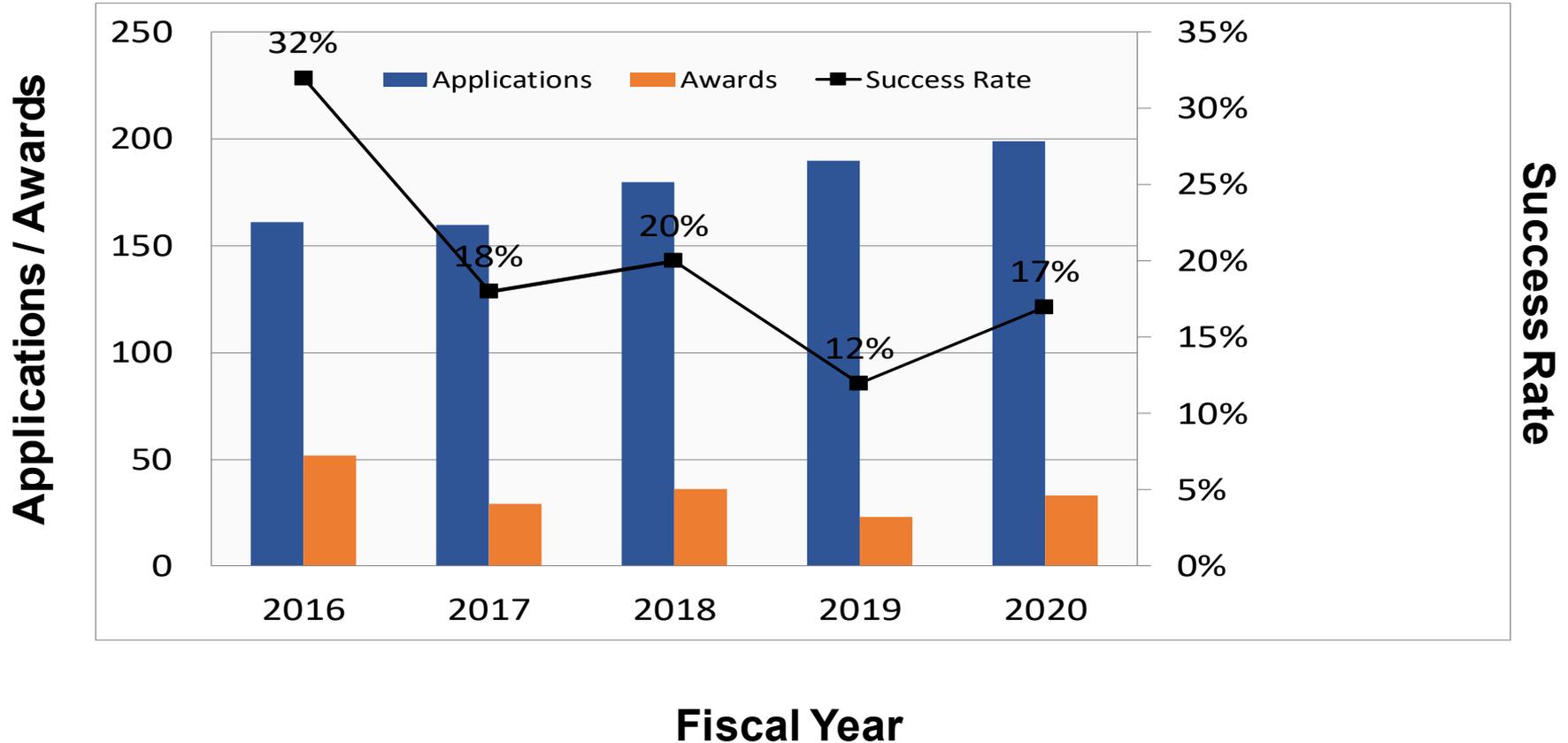
# NCI Career Development (K) Award Applications

- Ensure that a diverse pool of highly trained scientists is available in appropriate scientific disciplines to address the Nation's biomedical, behavioral, and clinical research needs.
- K08: provide "protected time" (3-5 years) to support didactic study and/or mentored research for individuals with clinical doctoral degrees
- K22 and K99/R00: help outstanding mentored, non-independent investigators in transitioning to research independence

# K99/R00 Pathway to Independence Award

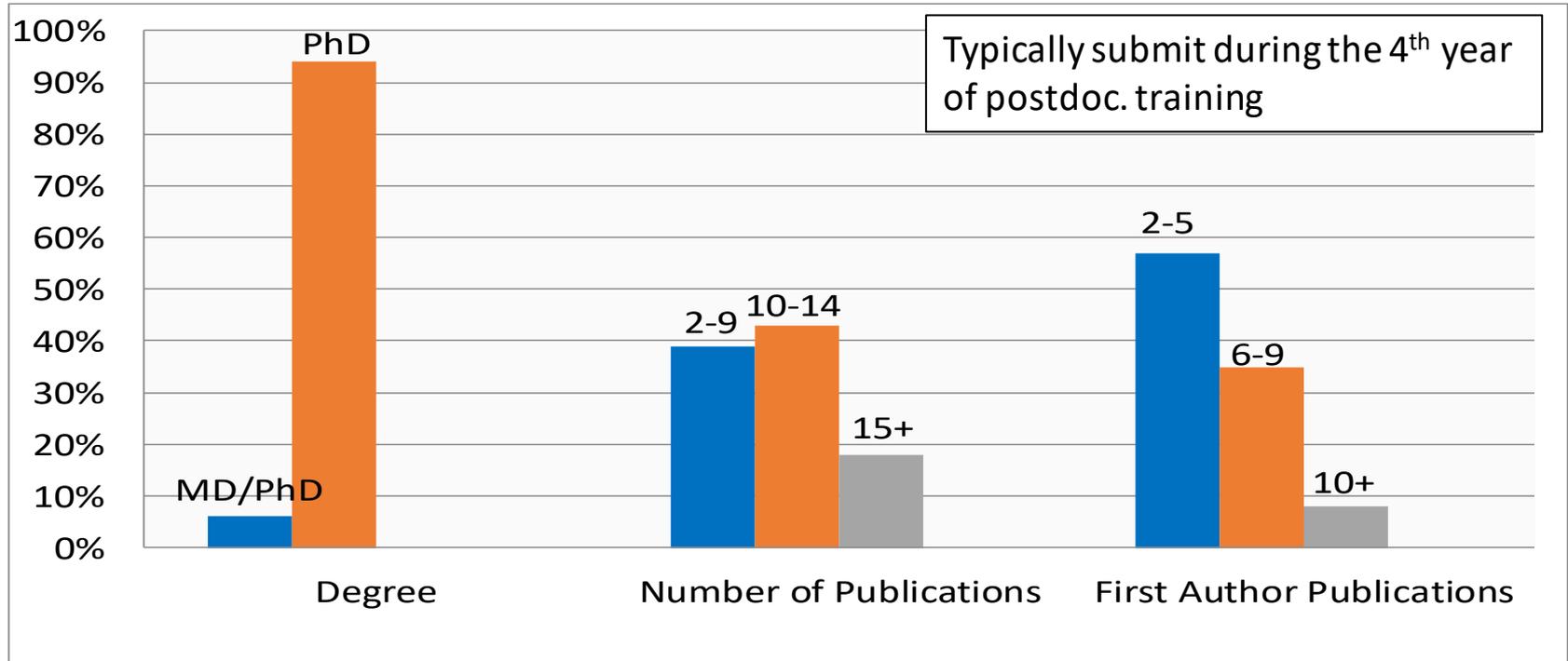
- **Objective:** To help outstanding postdoctoral researchers complete needed, mentored career development and transition in a timely manner to independent, tenure-track or equivalent faculty positions.
- **Eligibility:**
  - U.S. citizens and non-U.S. citizens (@domestic institutions)
  - Less than **4 years** of postdoctoral research training
  - Cannot have held an independent faculty or tenure-track position
- **Award:**
  - **Mentored Phase (K99)** (1 - 2 years):  
salary: up to \$100K/year; fringe benefits; research support: 30K/ year
  - **Independent Scientist Phase (R00)** (up to 3 years):  
salary, fringe benefits, research support: \$249K/ year (total cost)

# K99 Applications, Awards and Success Rates



# K99 Awardee Characteristics

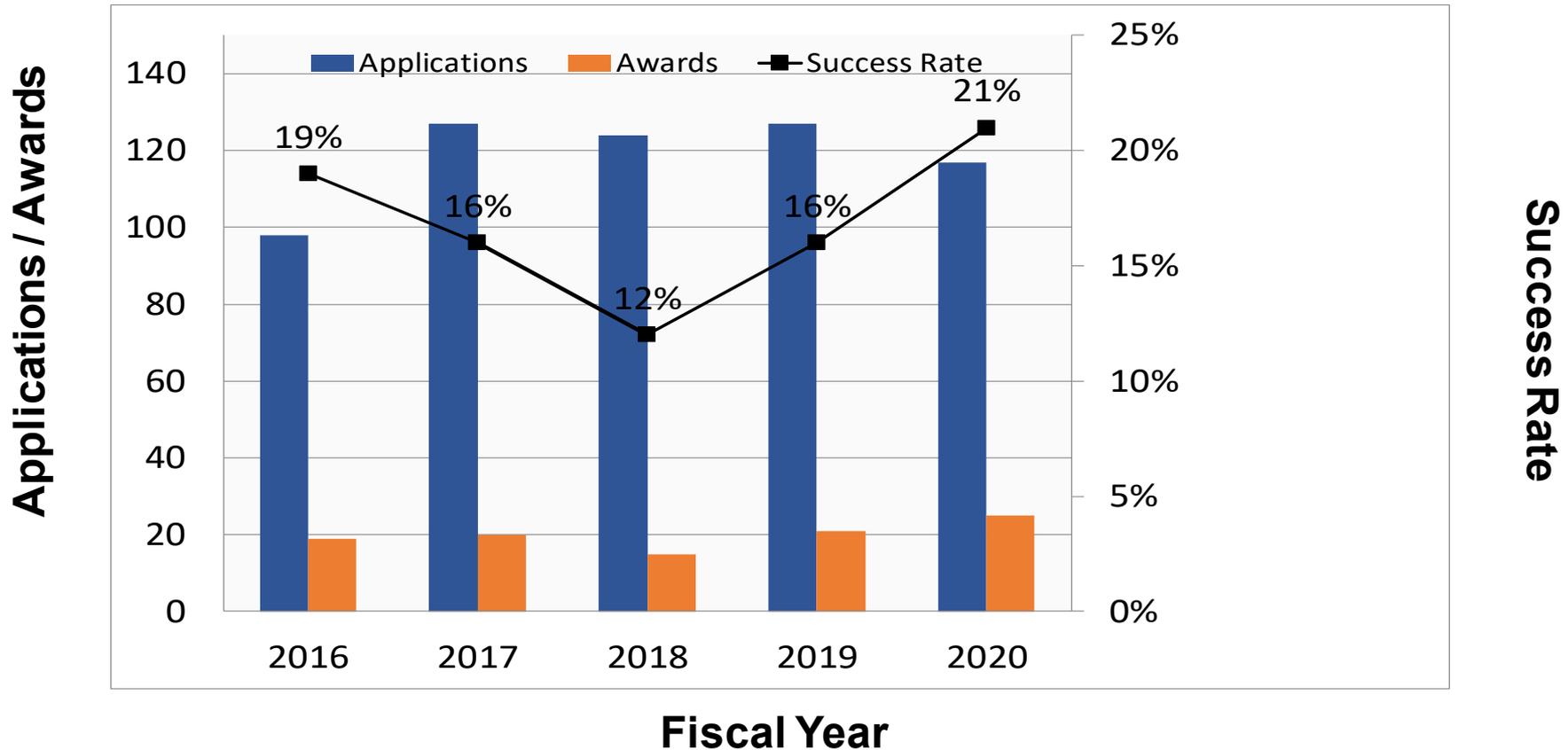
U.S. citizens and non-U.S. citizens



# The NCI Transition Career Development Award (K22) PAR-18-467

- **Objective:** facilitates the transition of investigators in mentored, non-independent cancer research positions to independent faculty cancer research positions. The K22 provides protected time for the initial 3 years of the first independent tenure-track faculty position.
- **Eligibility:**
  - U.S. citizens and Permanent Residents (@domestic institutions)
  - **2-8 years** of postdoctoral research training
  - Cannot have held an independent faculty or tenure-track position
- **Research:** all areas of cancer research

# K22: Applications, Awards and Success Rates



# What are reviewers looking for?

- Candidate: motivated, well-trained, productive
- Mentor(s): strong mentoring and funding track record, highly qualified, committed to support the candidate
- Career development/ training plan: meaningful training in research and professional development
- Research plan: innovative, good training platform/ vehicle for transition to independence (high feasibility/ high impact; niche for applicant's own lab)

# Tips for mentors/ sponsors

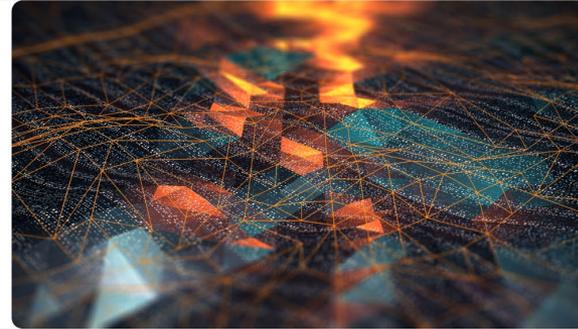
- Identify co-mentor(s)/ co-sponsor(s)
- Co-mentor(s) should have a clearly defined role in the application
- Develop a training plan/ CDP that is tailored to the needs of the applicant/ candidate.
- Be actively involved in the grant preparation process  
grantsmanship issues = poor mentoring
- Avoid scientific overlap + no text duplication from R01

# NCI Awardee Skills Development Consortium (NASDC)

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## NASDC Overview

The NCI Awardee Skills Development Consortium (NASDC) is a pair of National Cancer Institute (NCI) funded cooperative agreements to support educational activities that complement and/or enhance the training of current NCI grantees, especially those who are junior faculty (e.g., assistant professors, instructors, research scientists, or equivalent), in order to improve their skills in areas that are critical for establishing and maintaining successful independent academic cancer research careers and to develop the next generation of

## Upcoming Course Calendar

**February 19-March 26, 2021** (Fridays, 12-3 pm EST)  
*The Cell and Gene Therapy Toolkit for Junior Faculty*  
Elizabeth Hexner, MD, Stephan Grupp, MD, PhD, and David Mankoff, UMD, PhD  
University of Pennsylvania/Childrens Hospital of Philadelphia (UPenn/CH OP)  
Location: Virtual

**February 22-March 09, 2021** (Monday and Tuesday, with 3 one-hour sessions per day for 3 weeks) and monthly post-course webinars from March to July 2021

## Course Policies & Requirements

Below are the course policies and requirements offered by the four UE5 participating institutions.

**DFCI/MGHCC-Academic Career Skills: Leadership, Collaboration, and Resilience**

### Course Information:

This three-day workshop, led by faculty at Dana-Farber Cancer Institute and Massachusetts General

# CTB Website: [www.cancer.gov/grants-training/training/funding](http://www.cancer.gov/grants-training/training/funding)

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## TRAINING

- Cancer Training at NCI +
- Resources for Trainees +
- Funding for Cancer Training**
  - NCI F30 Award
  - NCI F31 Award
  - NCI F32 Award
  - NCI F33 Award
  - NCI F99/K00 Award
  - NCI K08 Award
  - NCI K12 Award
  - NCI K22 Award
  - NCI K25 Award
  - NCI K99 Award**
  - NCI Early K99 Award
  - NCI R25 Award
  - NCI T32 Award
  - NCI UES Award
  - NCI U24 Award
  - NCI NOT-OD-20-054 Supplement

## K99/R00 - The Pathway to Independence Award

The NIH Pathway to Independence Award (K99/R00) helps outstanding postdoctoral researchers complete needed mentored training and transition in a timely manner to independent, tenure-track or equivalent faculty positions.

NCI will accept K99/R00 applications in all areas of cancer research.

Reference the Program Announcements [PA-20-187 \(K99/R00 - Independent Clinical Trial Required\)](#), [PA-20-188 \(K99/R00 - Independent Clinical Trial Not Allowed\)](#), and [PA-20-189 \(K99/R00 - Independent Basic Experimental Studies with Humans Required\)](#) or contact the program staff.

### ON THIS PAGE

- [Applicant Eligibility](#)
- [Budget](#)
- [How to Apply](#)
- [NCI Special Notes](#)
- [Resources](#)
- [NCI Staff Contacts](#)

### Applicant Eligibility

**Citizens, Foreign Nationals,**

- There is no citizenship requirement for K99 applicants. An applicant may be a citizen or a non-citizen national of the United States, have been lawfully admitted for permanent residence (i.e., possess a currently valid Permanent Resident Card USCIS Form I-551, or other legal verification

# Take home message



Motivate your students/ postdocs to apply



**NATIONAL  
CANCER  
INSTITUTE**

[www.cancer.gov](http://www.cancer.gov)

[www.cancer.gov/espanol](http://www.cancer.gov/espanol)