

Getting Your Fellowship: Federal and Foundation Funding

Dhanonjoy C. Saha, PhD,

Director, Office of Grant Support

Research Associate Professor, Department of Medicine,

Albert Einstein College of Medicine

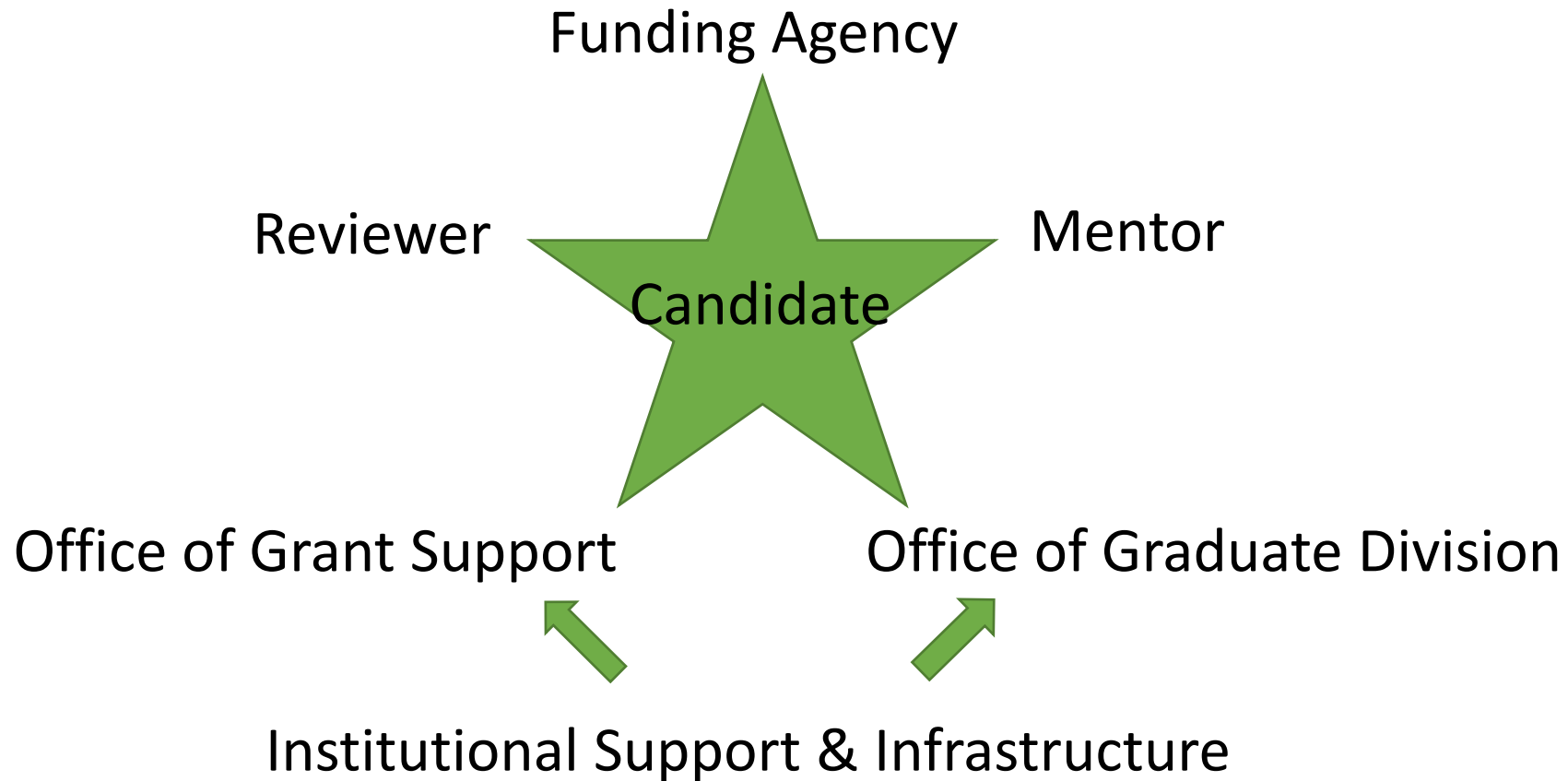
June 6, 2018



Albert Einstein College of Medicine

Montefiore

Preparing Grant Applications: Key Players



Topics Outline

- ❑ What is Office of Grant Support (OGS)?
- ❑ What do we do?
- ❑ How can we help you in finding funding and developing grants?
- ❑ What is OGS's Grant Advisory Service?
- ❑ How OGS can help you in grant application submission?
- ❑ Types of Funding Agencies (Federal, State, Private/Foundation)
- ❑ Special funding opportunities for pre-doctoral candidates:
 - ❑ *Dissertation Awards*
 - ❑ *Pre-doc to Post-doc Transition Awards*
 - ❑ *Special Funding Opportunities: For International Students, Women, and Diversity Awards*

Introduction: Office of Grant Support (OGS)

- ❑ The Office of Grant Support (OGS) is comprised of four individuals who provide pre-award administrative assistance to the entire Einstein community.
- ❑ Our goal is to enable students, post-docs and faculty to submit grant proposals and to manage subsequent non-financial responsibilities of the award, progress reports, grant resubmission, and renewal processes.

[Visit Office of Grant Support \(OGS\) Website](#)
[OGS: Staff Roles and Responsibilities](#)

OGS: What do we do?

- Find funding opportunities, disseminate information
- Interpret proposal guidelines (Demystify DoD, NIH, NSF and other federal and non-federal policies, procedures, and jargons)
- Help with team building, planning for applications
- Develop and/or review proposal budgets
- Provide templates for institutional information/support and data
- Administer pre-submission regulatory requirements
- Assist with required registrations for grant submissions
- Create and manage electronic grant submissions (*e.g.* Cayuse to grants.gov to eRA Commons or Fastlane or to eBRAP)

OGS: What do we do?

- Manage Awards Committee nominations (limited submissions)
- Help with submission of non-competing applications, Just-in-Time (JIT), Supplemental Materials, RPPR, RS, FIS *etc.*
- Help communicate with grant-making agencies
- Negotiate budgets and other terms and conditions of the awards and communicate with the funding agencies
- Help submissions of grant-proposals (Federal, State, and Private)
- Provide grantsmanship: Assist with team-building, writing, editing, proofreading, reviewing, critiquing, and creating more competitive proposals
- Provide resources for training (workshop, monthly seminars)

OGS: Staff Roles and Responsibilities

OGS: Finding Funding via Intranet

- Please go to Einstein Intranet and sign in at <https://www.einstein.yu.edu/auth/login/intranet/>
- Click on “Administrative Services”
- Select “Grant Support” department
- Click on the tab “[Foundation Funding](#)”
- Click on “Grant Title” links for details of the funding mechanism
- Use the “Search Funding” tool to find suitable funding announcements
- Use “Keywords” if needed

OGS: Finding Funding via GrantScoop

- ❑ [GrantScoop](#) is a Funding opportunity database and grant-search engine for biomedical, life science and health science research
- ❑ Go to www.grantscoop.com
- ❑ Create a User Account using “@einstein.yu.edu” email address
- ❑ At the bottom of the sign-up page, under “Plan,” please choose “Institutional Access”
- ❑ In addition to a standard keyword search, you can use the advanced search mode
- ❑ Contact anindita.mukherjee@einstein.yu.edu for help

OGS: Grant Advisory Service

- ❑ We continue to provide Grant Advisory Service that includes assistance with editing, proof-reading, reviewing and critiquing grant proposals. Please see our [Grant Advisory Service](#) page.
- ❑ We have extended our services to include assistance/help with manuscript writing, editing, proof-reading, reviewing and critiquing to enhance publications. Please contact [OGS](#) at (718) 430-3642.

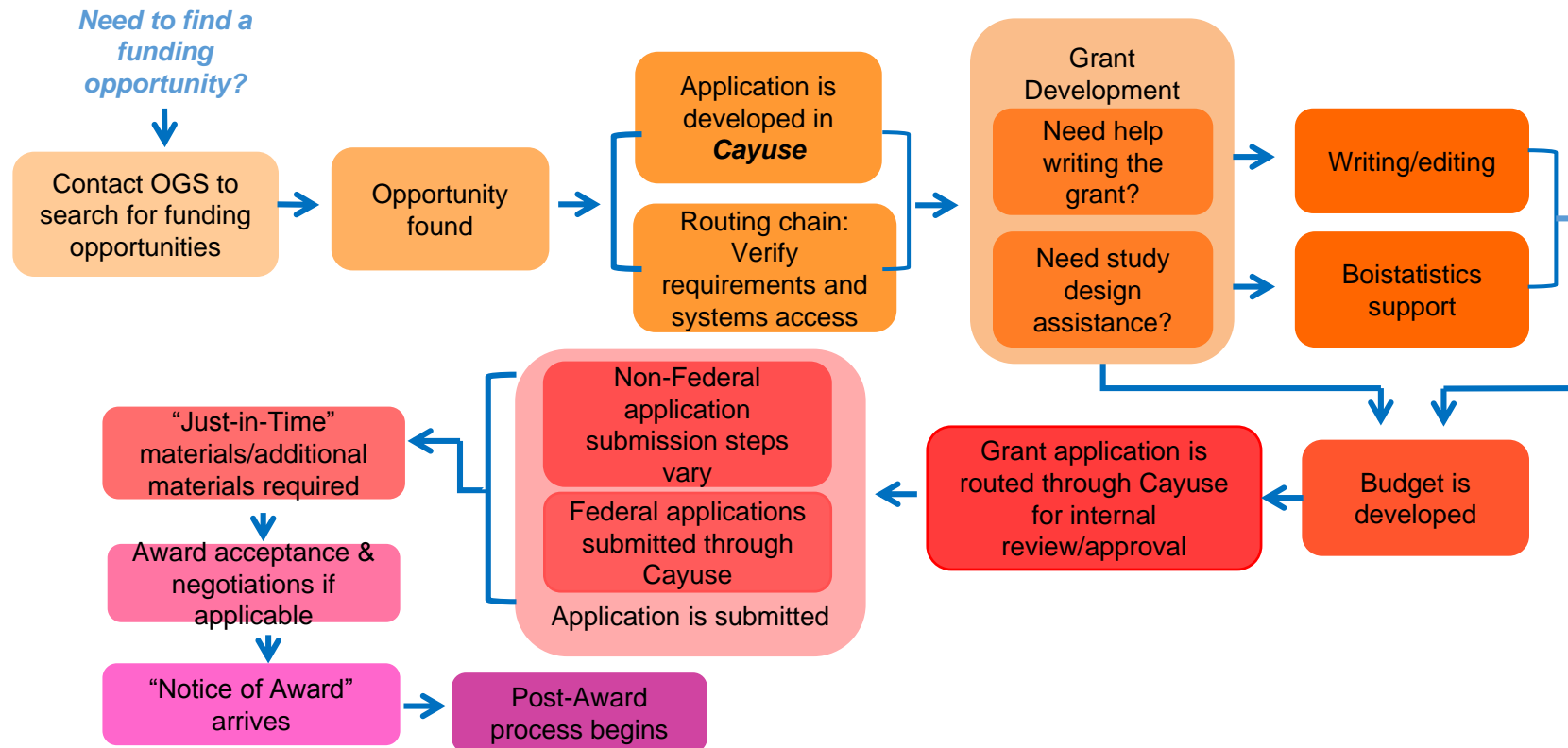
Cayuse: Portal for Developing and Submitting Grant Applications

- ❑ **Cayuse** (424) is a Web application portal created to simplify the creation, review, routing, approval, and electronic submission of grant proposals, i.e., S2S (system-to-system) submission of proposals
- ❑ Contact your departmental administrator for creating a Cayuse account and for basic user guidance
- ❑ In case you need further help, contact **Regina Janicki** at (718) 430-3643 or email at regina.janicki@einstein.yu.edu

Cayuse: Portal for Developing and Submitting Grant Applications

- ❑ Upload your application at Cayuse 8-10 business days prior to the grant deadline
- ❑ All federal applications need [internal routing and approval](#) prior to its submission to the federal agencies
- ❑ After internal approval, the PI should submit the application from Cayuse
- ❑ Cayuse makes a system-to-system transfer of the application to eRA Commons (for NIH); eBRAP (for DoD); Research.gov (NSF); many more
- ❑ For most of the foundation grants, PIs can submit applications directly; but the submitted applications must be uploaded/stored in Cayuse

Life Cycle of a Grant Application



Getting Your Fellowship: An Overview of Pre-doctoral Funding Opportunities

Anindita Mukherjee, PhD

Assistant Director,

Funding Opportunity and Grant Development,

Office of Grant Support

Types of Funding Agencies

- ❑ **Federal:** National Institute of Health (NIH), Department of Defense (DoD), National Science Foundation (NSF), Department of Energy (DOE)
- ❑ **State:** New York State ([NYS Grants Gateway](#)); e.g. NYSDOH funded (Associated Medical Schools of NY) [AMSNY Diversity Scholarship](#) to decrease *medical students* debt load, and provide physicians at medically underserved areas of NYS
- ❑ **Private Foundation:** Private agencies/charitable trusts provide grants for specific topics and/or communities of scientific research. e.g. American Heart Association (AHA), Ford Foundation, American Association of University Women (AAUW), Phrma Foundation, Gerber Foundation *etc.*

Federal Funding: grants.gov

- ❑ http://www.grants.gov/applicants/find_grant_opportunities.jsp
- ❑ US Federal funding opportunities from all agencies. SEARCH grants.gov for your federal grants by keywords or more specific criteria. All grants offered by the **26 federal grant-making agencies** can be found on grants.gov

Federal Funding: National Institute of Health (NIH)

- Individual Awards
- Institutional Awards
- Appointee on your Supervisor's grant

NIH Funding: Individual Fellowships

- ❑ **Ruth L. Kirschstein Individual Pre-doctoral NRSA Fellowships (F30, F31, F31 Diversity):** Check details of the March Pre-doctoral workshop at [Office of Grant Support \(OGS\)](#) website at the link [NIH Fellowships: Everything You Need to Know](#)
- ❖ Stipend and benefit increase for NRSA awards: [NOT-OD-18-175](#)
- ❑ **Early Independence Award (DP5):** To provide support to exceptional investigators who wish to pursue independent research directly after completion of their PhD/equivalent degree or clinical residency, thereby forgoing the traditional post-doctoral training period
- ❑ ***Individual Pre-doctoral to Post-doctoral Fellow Transition Award (F99/K00)***
- ❑ ***Dissertation Award (R36)***

NIH Individual Pre-doctoral to Post-doctoral Fellow Transition Award (F99/K00)

- ❑ **NCI Pre-doctoral to Post-doctoral Fellow Transition Award ([RFA-CA-18-001](#)):** The purpose of this award is to encourage and retain outstanding graduate students recognized by their institutions for their high potential and strong interest in pursuing careers as independent cancer researchers.
- ❑ **NIH Blueprint Diversity Specialized Pre-doctoral to Post-doctoral Advancement in Neuroscience (D-SPAN) Award ([RFA-NS-18-007](#)):** This award provides support for completion of the doctoral dissertation and transition of talented graduate students from diverse/underrepresented backgrounds to strong neuroscience postdoctoral research positions.
- ❑ The F99/K00 award can support up to 6 yrs. (F99 Phase 2 yrs. + K00 Phase 4 yrs.)
- ❑ It is intended for candidates who need 1-2 years to complete their Ph.D. dissertation research training (F99 phase) before transitioning to mentored postdoctoral research training (K00 phase).

NIH R36 Dissertation Fellowship: An Alternative for F31/F31 Diversity Programs

- ❑ [R36](#) is technically not a “Fellowship” but it supports the dissertation research costs of students
- ❑ Eligibility: By the time of the award, the candidate must be a US Citizen/Non-citizen National/Permanent Resident
- ❑ Candidate must be enrolled in a PhD/MD-PhD/ or equivalent doctoral degree program, or as mentioned in the FOA
- ❑ Funding Period: Up to 2 years, or as specified in FOA
- ❑ Standard Due Dates: February 16, June 16, October 16
- ❑ Example of open FOAs: Drug Abuse Dissertation Research ([PA-16-443](#)); Aging Research Dissertation Awards to Increase Diversity ([PAR-17-025](#)); AHRQ Health Services Research Dissertation Program ([PA-18-765](#))

NIH Funding: Institutional Awards

- ❑ Ruth L. Kirschstein Institutional National Research Service Award ([T32](#))
- ❑ Ruth L. Kirschstein Interdisciplinary Research Training Award and combined Research Education Grant ([T90-R90](#))
- ❑ Post-baccalaureate Research Education Program ([PREP - R25](#)) for encouraging individuals from [underrepresented groups](#) or from a [disadvantaged background](#)
- ❑ Initiative for Maximizing Student Development ([IMSD - R25](#))
- ❑ NIGMS's Innovative Programs to Enhance Research Training ([IPERT - R25](#))
- ❑ Institutional Research and Academic Career Development Awards ([IRACDA - K12](#)): ***Bronx-Einstein Training in Teaching and Research ([BETTR](#)) program encourages especially women, under-represented minorities, and individuals with disabilities to apply***

NIH Diversity Supplement: As Appointee on Supervisor's Existing Grant

- To encourage the participation of candidates from under-represented backgrounds and individuals with disabilities, NIH offers [Diversity Supplement \(PA-18-586\)](#), which is applicable for all the ICs and activity codes listed in the [Funding Opportunity Announcement \(FOA\) link](#). Some FAQs - [link from NIGMS](#).
- Usually, a grant should have at least 2 years remaining to request a supplement for a graduate student or postdoctoral fellow.
- It is limited to citizens/non-citizen nationals/permanent residents of US.
- Individuals from racial and ethnic groups that have been shown by the [NSF data and report](#) to be underrepresented in health-related sciences on a national basis, or individuals with disabilities as per [Americans with Disabilities Act of 1990, as amended](#).
- Individuals from racial or ethnic groups that can be demonstrated convincingly to be underrepresented by the grantee institution are also encouraged to apply.

Definition of Underrepresented Groups

- **As per NSF**, researchers/ educators representing Underrepresented (on national basis) groups can be e.g. Alaska Natives, Native Americans, African Americans, Hispanics (including persons of Mexican, Puerto Rican, Cuban, and Central or South American origin), Native Hawaiians and other, Pacific Islanders, and Persons with Disabilities.
- Among many fields of STEM, identification of a particular group as underrepresented **may vary by discipline** (e.g., women are underrepresented in some STEM fields, Asian Americans in social science and humanities fields). This NSF [resource link](#) provides information/ overview (statistical data) of the underrepresented groups in different field of study, and is followed by NIH (and other federal/ private agencies) as well, in most the cases.

Federal Funding: Department of Defense (DoD)

- ❑ [National Defense Science and Engineering Graduate \(NDSEG\) Fellowship](#)
- ❑ It is a joint program of the United States Army, Navy and Air Force within the University Research Initiative (URI)
- ❑ Applicants must be citizens or nationals of the United States who intend to pursue a Ph.D.
- ❑ Applications are encouraged from women, under represented minorities and persons with disabilities
- ❑ Submission date: January of each year (check out [website](#) in **September**)
- ❑ Duration of fellowship is 3 yrs.
- ❑ Defense relevant topic areas: Bioscience; Cognitive, Neural, and Behavioral Sciences; Computational Science; Chemistry; Chemical Engineering *etc.*
- ❑ All other DoD funding opportunities can be found at [CDMRP website](#)

Federal Funding: National Science Foundation (NSF)

- ❑ [Graduate Research Fellowship Program \(NSF-GRFP\)](#)
- ❑ Purpose is to increase the vitality and diversity of STEM fields research
- ❑ Especially encourages women, members of under-represented/minority groups, persons with disabilities, veterans to apply
- ❑ Candidates should apply during their 1st or 2nd year of graduate school
- ❑ Candidates should be US citizens, nationals, or permanent residents by the time of application deadline
- ❑ Provides 3 yr. support for students pursuing research-based Master's or Doctorate degree
- ❑ Relevant field: Life Sciences, Psychology, Computational Science, STEM Education, Social Science *etc.*
- ❑ Current program announcement: [October 2018 Deadlines](#)

Federal Funding: Department of Energy (DOE)

- ❑ **Computational Science Graduate Fellowship** ([DOE-CSGF](#))
- ❑ US Citizenship/Permanent Residency required
- ❑ Undergraduate seniors, Graduate students (1st yr.) are eligible to apply
- ❑ A few relevant fields: Life Science, Computer Science, Chemistry
- ❑ Provides up to 4 yrs. of total support, depending on renewal
- ❑ Beginning in 2018 [a new DOE CSGF track](#) is being offered for those pursuing an advanced degree in applied mathematics, statistics or computer science with research interests that help use emerging high performance systems more effectively (*e.g.* complex model development)
- ❑ Anticipated deadline in **January** pending federal budget

Foundation Funding: Some Special Opportunities

- ❑ Dissertation awards
- ❑ Fellowships for:
 - International students
 - Women
 - Members of under-represented and minority groups
- ❑ Other foundation fellowships on special topics

Ford Foundation Diversity Fellowship

- ❑ [Individual fellowship programs](#) for pre-doctoral, dissertation, and post-doctoral awards
- ❑ Applicable for research-based PhD/ScD programs
- ❑ Eligibility: US citizens/nationals/permanent residents, individuals granted deferred action status under DACA program, political asylees, and refugees, regardless of race, national origin, religion, gender, age, disability, or sexual orientation
- ❑ **Dissertation award:** Graduate students who complete the dissertation in a period of 9-12 months during the 2019-2020 academic year
- ❑ **Pre-doctoral fellowship:** Individuals who as of the 2019 fall semester require a minimum of three years of study to complete their PhD/ScD degree
- ❑ [Eligible fields of study](#) (Biology & Biomedical Science)

Foundation Fellowship for Women: AAUW

- ❑ [American Association of University Women](#) sponsors following types of grants:
- ❑ [American Fellowship](#): Dissertation Awards, postdoctoral research, or summer/short term grants for ***preparing research for publication*** for eight consecutive weeks; for US citizens/permanent residents; Applications open Aug 1–Nov 15
- ❑ [International Fellowship](#): Graduate and post-graduate studies are funded to women who are ***not US citizens/permanent residents***; Applications open Aug 1– Dec 1
- ❑ [Selected Professions Fellowships](#): For women pursuing master's or professional degree program in fields where women are underrepresented, including STEM, law, business, and medicine; ***Fellowship in Doctorate of Medicine is restricted to women of color*** (at 3rd or 4th year of study)
- ❑ [Career Development Grant](#): For supporting ***women's re-entry in workforce***; for women pursuing beyond bachelor's degree, but not applicable for doctorate level work

Other Foundation Fellowship for Women

- ❑ [Faculty for the Future Program](#) (***Schlumberger Foundation***): To enhance women's participation in STEM field. Faculty for the Future Fellows are expected to return to their home countries after completion of their studies to contribute to economic, social and technological advancement by strengthening the STEM teaching and research faculties of their home institutions. ***Only citizens of developing countries are eligible to apply.***
- ❑ [Graduate Women in Science \(GWIS\)](#): National Fellowship Program for equipment, expendable supplies, publication, travel for field study/collaborations *etc.*; ***open to non-US citizens.***

American Heart Association Pre-doctoral Fellowship

- ❑ [American Heart Association \(AHA\)](#) accepts applications from all basic, clinical, behavioral, translational and population research broadly related to cardiovascular function and disease and stroke and related topics
- ❑ Applicants must be enrolled in a PhD/MD/Equivalent degree program
- ❑ ***Strongly encourages applications by women, underrepresented minorities in the sciences, and those who have experienced varied and non-traditional career trajectories***
- ❑ Award duration 1 – 2 years
- ❑ Open to US citizens, Pending permanent residents, Visa holders, DACA members
- ❑ 2019 Application Deadline: ***July 11, 2018***
- ❑ ***[New AHA funding opportunity](#)***: Artificial Intelligence and Machine Learning Training Grants had March 2019 deadline

Other Foundation Funding Opportunities for Members from Under-represented and Minority Groups

- ❑ [ASM Watkins Graduate Research Fellowship](#): To increase the number of underrepresented groups completing doctoral degrees in the *microbiological sciences*
- ❑ [American Psychiatric Association Foundation](#): Offers a series of awards within the field of psychiatry for residents, post-residency research fellows and early career psychiatrists, including *SAMSHA Minority Fellowship*, and *SAMSHA Substance Abuse Minority Fellowship*
- ❑ [Wayne F. Placek Grants \(American Psychological Foundation/APF\)](#): Topic areas include research on heterosexuals' attitudes and behaviors towards LGBTQ community, Special concerns of sectors of the *LGBTQ population* that have historically been underrepresented in scientific research
- ❑ [Esther Katz Rosen Fund Grants \(APF\)](#): To the advancement and application of knowledge about identified *gifted and talented children and adolescents*
- ❑ [HHMI Gilliam Fellowships for Advanced Study](#): PhD students must be NIGMS training grant eligible, be from racial, ethnic, and other underrepresented groups in the sciences; Advisor-student pairs must be nominated by the HHMI-designated institutional representative

Foundation Fellowships for Specific Fields of Studies at Pre-doctoral Level

- ❑ [PhD Fellowship Program - Microsoft Research](#): Requires institutional nomination, maximum 3 applications per institute
- ❑ [Gerber Foundation Novice Research](#): Applied research on pediatrics
- ❑ [American Society for Nutrition](#): Pre-doctoral fellowship for nutrition research
- ❑ [Phrma Foundation](#): Health Outcomes; Informatics; Pharmaceuticals; Pharmacology/Toxicology
- ❑ [Autism Science Foundation](#): Basic and clinical research relevant for autism spectrum disorder
- ❑ [Autism Speaks](#): Understanding, evaluating and/or treating individuals with central auditory processing disorder (CAPD)
- ❑ ***Most of these do not have US Citizenship/Permanent Residency requirements***

Foundation Fellowships for Specific Fields of Studies at Pre-doctoral Level

- ❑ [Dan David Prize](#): Selected fields for the current year; Application by nomination (individual/organization)
- ❑ [Children's Tumor Foundation](#): Young Investigator Award for basic and translational research on neurofibromatosis
- ❑ [American Federation of Aging Research](#): MSTAR program and AFAR Short-term Scholarship
- ❑ [Other aging related research](#): Pre-doctoral and post-doctoral opportunities
- ❑ ***Most of these do not have US Citizenship/Permanent Residency requirements***

Office of Grant Support (OGS) Contacts

- ❑ General information, please contact the Office of Grant Support at (718) 430-3643 or preaward@einstein.yu.edu
- ❑ Funding Opportunity and Grant Development– Anindita Mukherjee, PhD at (718) 430-3367 anindita.mukherjee@einstein.yu.edu
- ❑ Budget - Gerard McMorrow at (718) 430 3580 or gerard.mcmorrow@einstein.yu.edu
- ❑ Cayuse, eRA Commons and any other help - Regina Janicki at (718) 430-3643 or regina.janicki@einstein.yu.edu
- ❑ **Grant Advisory Service**, Tanya Dragic, PhD - (914) 262-5441 or tanya.dragic@einstein.yu.edu
- ❑ Study design, Mimi Kim, PhD - (718) 430-2017 or mimi.kim@einstein.yu.edu
- ❑ For any other help - D. C. Saha, DVM, PhD at (718) 430-3642 or dhanonjoy.saha@einstein.yu.edu

❑ *Applying for fellowship: Start planning at early stage*

❑ *Discuss with your mentor*

❑ *Contact Office of Grant Support (OGS)*

❑ *Thank You All !*



Albert Einstein College of Medicine
OF YESHIVA UNIVERSITY

Science at the heart of medicine

Getting Your Fellowship: Federal and Foundation Funding (Opportunities for international students too!)

Dianne Cox, Ph.D.

Professor, Departments of Anatomy and Structural Biology
and Developmental and Molecular Biology

June 6, 2018

My experience with fellowship applications

NIH

- Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31)
- Individual Predoctoral Fellowships to Promote Diversity (F31)
- Individual Postdoctoral Fellowships (F32)
- NCI F99/K00 (Pre-doc to Post-doc) (open to VISA holders)

Non-NIH/Foundation

- American Heart Association (VISA holders too)
- American Cancer Society (US citizen/permanent residents)
- Department of Defense

Fellowships are a partnership between applicant and mentor

Applicant

- Experience in grant writing
- Critically focus on your project
- Financial – travel to meetings, computer/books
- CV building for future success
- **Independence**

Mentor/Sponsor

- Frees up resources
- CV building (promotion)
- Enhances your scientific reputation
- **Your role as a mentor**

Research Strategy is not the only important piece of the application

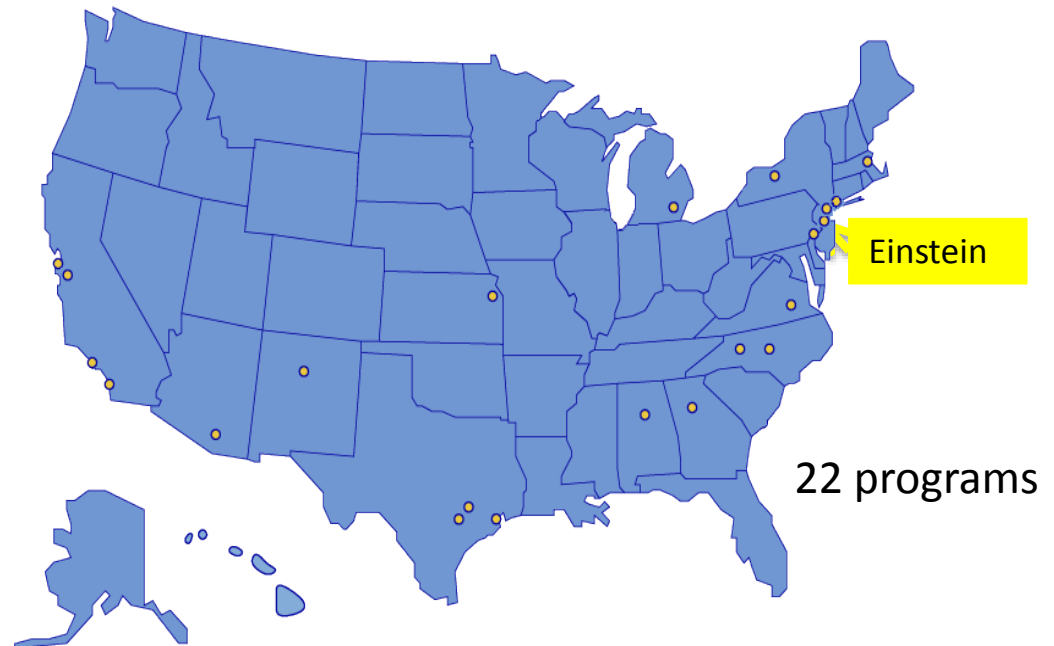
- The applicant - background and goals for fellowship training (Samer)
- Institutional Support
- The mentor/sponsor
 - The applicant
 - assessment of the applicant's qualifications, current progress and potential for a research career
 - research training plan for the applicant (timeline)
 - classes, seminars, and opportunities for interaction with other groups and scientists
 - training in career skills, e.g. grant-writing and presentation skills are strongly encouraged
 - The mentor
 - training record (numbers and where they go)
 - research environment and research resources (e.g., equipment, laboratory space, computer time, available research support, etc.)

Institutional Research and Academic Career Development Awards (IRACDA) (K12)

IRADCA programs are partnerships

The purpose of the IRACDA program is to develop a **diverse group of highly trained scientists** to address the nation's biomedical research needs.

The program promotes **consortia between research-intensive institutions and partner institutions** that have a historical mission and a demonstrated commitment to providing training, encouragement and assistance to students from **groups underrepresented in the biomedical research** enterprise of the nation.



Bronx Einstein Training in Teaching and Research (BETTR)

According to Wikipedia, the Bronx was considered by the 2013 US Census to be the most diverse area in the country. The majority of Bronx citizens are Hispanic or of Latin origin (54.6%), with special emphasis on Puerto Ricans and Dominicans. Additionally, 43.3% of the population is “Black Americans”. Therefore, the majority of the Bronx population belongs to underrepresented populations in science.

BETTR partnership

Einstein

Program Directors – Dianne Cox, Barbara Birshtein and Michael Aschner

Hostos Community College

Program Coordinator – Nelson Nunez-Rodriguez
(Professor of Chemistry)

Lehman College

Program Coordinator – Stephen Redenti
(Professor of Molecular, Cell and Developmental Biology)



IRACDA and BETTR Goals

- To train postdoctoral scholars as scientist-educators with formal training in pedagogy and hands on teaching experiences
- To foster the development of a diverse group of scientists via interactions with students and faculty at Lehman and Hostos by contribute to teaching and curricular design
- To forge a partnership with partner institutions (Hostos and Lehman) to help them (and us!) in our educational and research goals
- **Additional Goals for the BETTR Scholars**
 - serve as role models
 - expose undergraduates to current research at Einstein
 - provide a mentored research experience for undergraduates
 - ease the transition of undergraduates from a two-year to a four year college

BETTR program – Scholar Activities

All IRACDAs are three-year programs to provide training in independent research and training in teaching (75% research / 25% teaching)

- Our maximum - 8 Scholars
- Entrance into our program is very competitive with an average of 20 valid applications for the 2-3 available slots / year

Training Plan:

Year zero. 100% Research at Einstein

Year One: Research, Fall - shadowing at Hostos and Lehman, Spring - Fundamentals of Course Design and Teaching

Year Two: Research, Hands-on teaching and course development

Year Three: Research, Teaching a course, prepare for career (grant writing, teaching portfolio, independent research project)

In addition:

Attendance yearly at scientific meeting and IRACDA national meeting; career development and teaching workshops; monthly meetings at Einstein; research and teaching committee meetings; teaching observation; mentoring summer students in lab

NCI Predoc to Postdoc Transition Award (F99/K00)

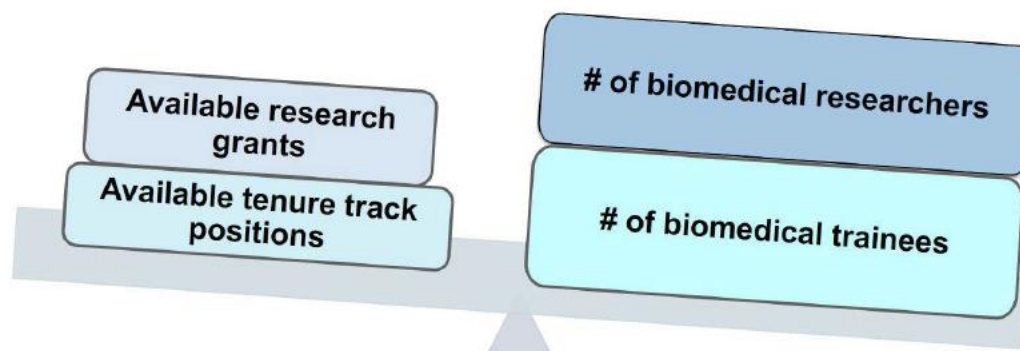


Samer Hanna
Dianne Cox Lab

Department of Anatomy and Structural Biology

June 6, 2018

Purpose of the NCI F99/K00

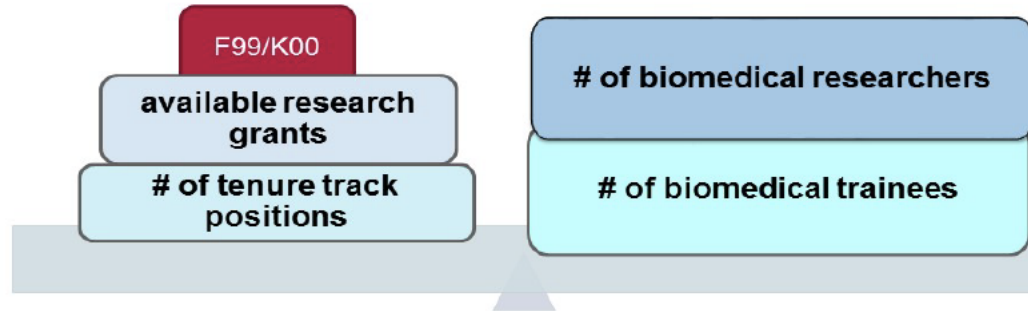


- Imbalances between numbers of researchers and trainees and available grants and tenure track positions

An independent research career is being viewed as a less viable career choice

Adapted from Dr. Michele McGuirl

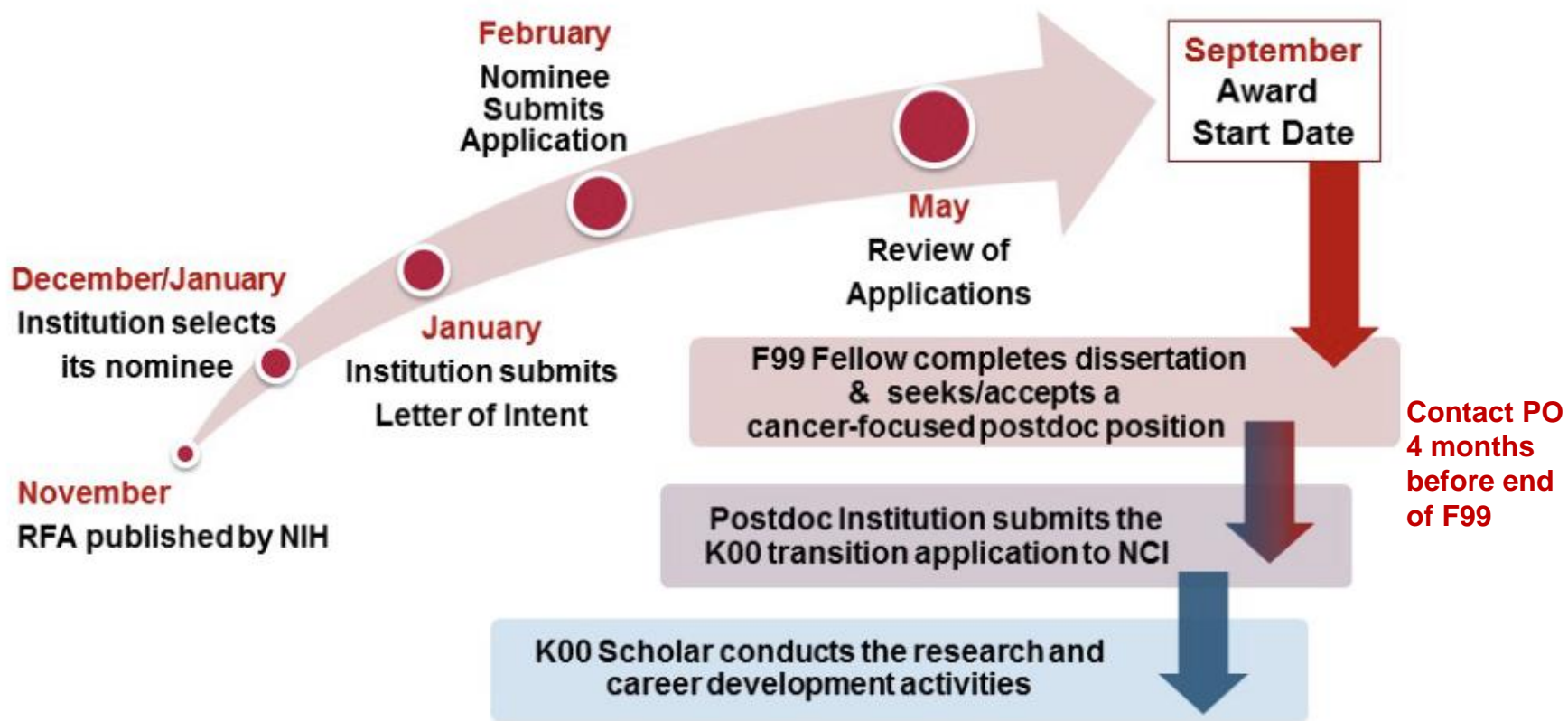
To balance between number of researchers and available funding



- **F99/K00 Goal:** Identify and encourage graduate students who are committed to pursuing **cancer research careers** as independent investigators
- **Dual-phase Funding:**
 - 1-2 years of support for completing PhD dissertation (F99)
 - Up to 4 years of support for postdoctoral training (K00)

The two phases are intended to be continuous in time

The F99/K00 Timeline



- Unlike other 'F' fellowships, there is only 1 receipt date per year
- Letter of intent submitted by Einstein's Grants Official

Only 1 nominee per institution is selected to apply

Adapted from Dr. Michele McGuirl

Who can apply?

You are eligible to apply if:

- **3rd or 4th year** PhD student within 2 years of finishing up your dissertation
- Current F31 awardee or applicant (check with your PO)
- **International student** on F1 visa
- Committed to pursuing a career as an independent cancer researcher
 - no specific cancer type for F99 proposal and can be different from K00
 - is NOT absolutely required to be doing cancer research for the F99 phase
- Nominated by Einstein internal selection committee

Unsuccessful applicants may submit if eligible and if re-nominated

F99 fellowship application overview

- Uses the SF424 (R&R) fellowship application package (used for F31)
- **But** with some key differences from F31:
- The Specific Aims and Research Strategy Sections (6 pages) **do not** use the typical research grant format

These items are often “tweaked” from year to year

-> check announced RFA and review criteria

Fellowship application overview

<https://www.cancer.gov/grants-training/training/funding/f99>



Resources

- [Program Announcement](#)
- [Transition Info/Forms](#)
- Informational Webinars ([slides with transcript](#))
- [Answers to frequently asked questions](#)

Michele McGuirl, Ph.D.

National Cancer Institute (NCI), Cancer Training Branch

Email: m McGuirlma@mail.nih.gov

F99 fellowship application overview

There should be a logical and compelling connection between the phases and the aims, and they should support the career goal.

- **Address both phases of the F99/K00**

How do combination of past research experiences and the F99/K00 plans contribute to achieving the long-term career goal

- **Training Goals and Objectives**

What is the long term career goal? Stress new knowledge, technical expertise, and professional skills, existing strengths as well as gaps

- **Activities Planned Under This Award**

Scientific and professional development activities for each phase

F99 fellowship application overview

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How do combination of past research experiences and the F99/K00 plans contribute to achieving the long-term career goal

- **Training Goals and Objectives**

What is the long term career goal? Stress new knowledge, technical expertise, and professional skills, existing strengths as well as gaps

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Scientific and professional development activities for each phase

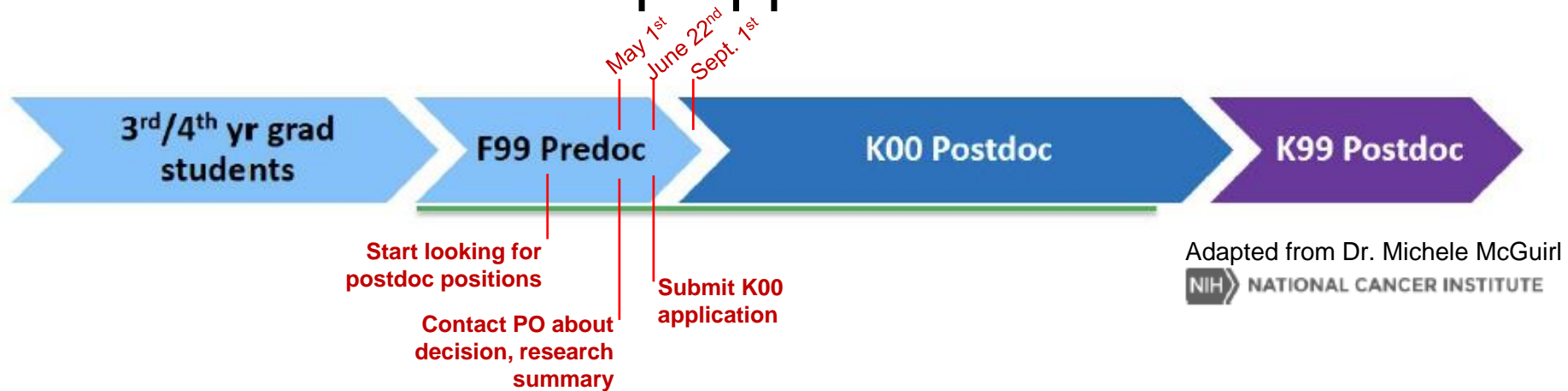
Reviewers look for evidence of training potential – the need for more training to achieve your long-term career goal

Strategy for identifying a K00 mentor



- **Research Interest:** this is a **Training phase** towards independence
- Well established cancer-focused researcher
- Has funding history in cancer research (not necessarily from NCI)
- **Mentorship track record**
- Opportunities for career development
- Institution Environment

K00 fellowship application overview



- K00 application similar to career development 'K' grants with few changes

Contains all elements: Strategy, career dev. plan, HS section, VAS, data sharing, authentication, environment, facilities, equipment, RCR,...

- Must contain original ideas and cannot be identical to the K00 mentor's funded grants (NCI expects you to contribute intellectually)

- Submitted to PO (Dr. Michele McGuirl) through grants official of K00 institution

- Sent to K00 committee for compliance for administrative review **NOT** a peer review. To ensure that the application meets NCI requirements

Important points

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- Grant writing and management
- Career development plan
- Intellectual development
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424 R&R and PHS-398 Specific
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Similar program for Neuroscience:

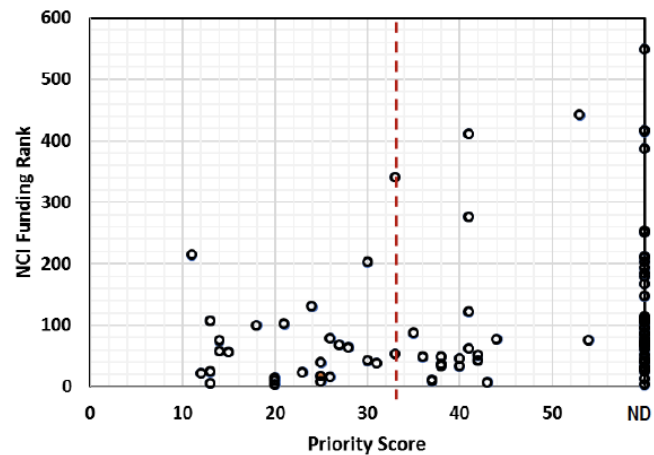
NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience
(D-SPAN) Award (F99/K00)

<https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-18-007.html>

A unique opportunity

FY17 Portfolio Analysis

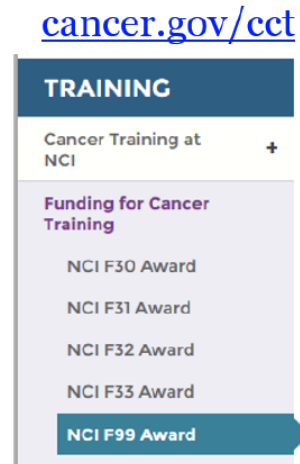
	Applications	Awards	Success Rate (%)
Total	90	27	30
Women	47	13	28
International Students	32	9	28
F31 Awardees	8	4	50
F31 Applicants	18	9	50
NCI Cancer Center	60	21	35
Top 150 NCI \$ Institutions	72	24	33



Resources



<https://www.cancer.gov/grants-training/training/funding/f99>



Resources

- [_Program Announcement](#)
- [_Transition Info/Forms](#)
- Informational Webinars ([slides with transcript](#))
- [_Answers to frequently asked questions](#)

Michele McGuirl, Ph.D.

National Cancer Institute (NCI), Cancer Training Branch

Email: m McGuirlma@mail.nih.gov

Samer Hanna

Email: samer.hanna@phd.einstein.yu.edu