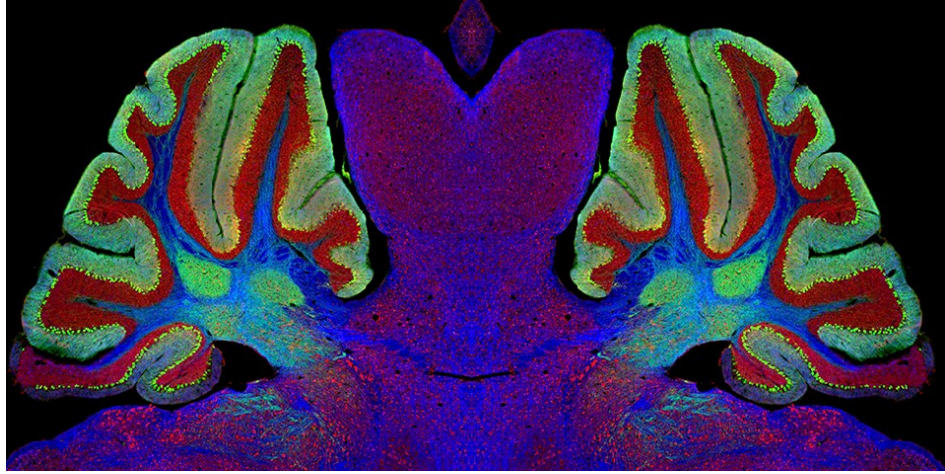
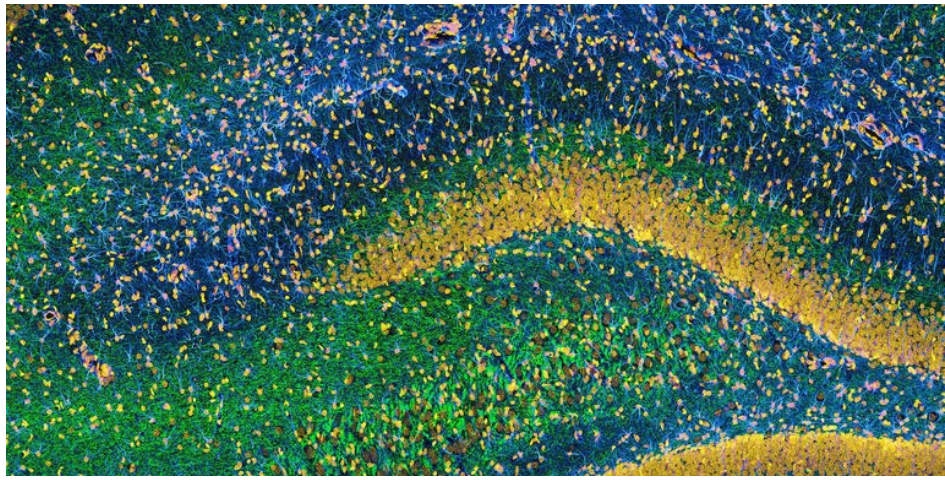
National Institute of Neurological Disorders and Stroke

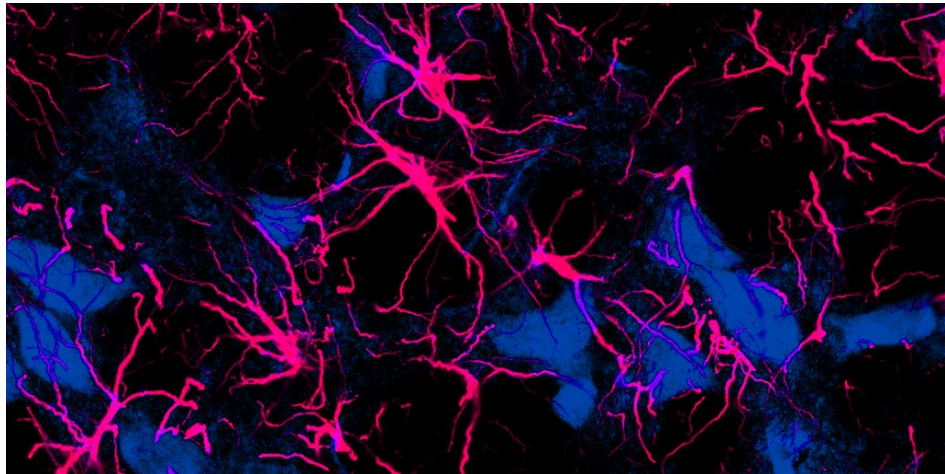
Intro to NIH and NINDS with Black in Neuro

Navigating Your Way to Funding

April 8, 2022

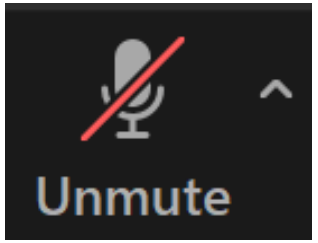




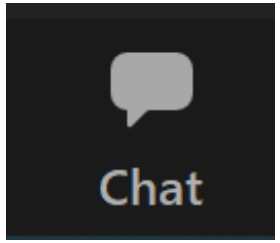


Meeting Reminders

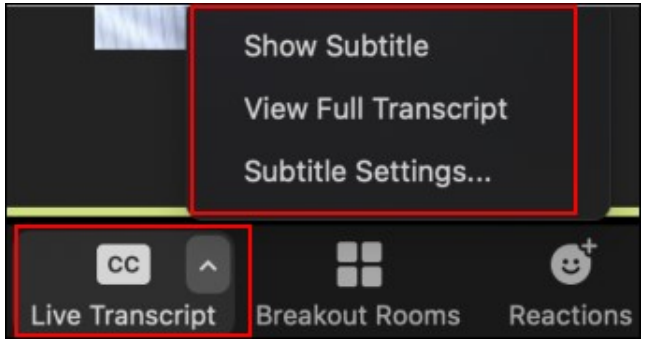
Attendees are muted



Submit questions in chat



Live transcript available



Presentation is being recorded

Thank You to Black In Neuro Organizing Team

- **Angeline Dukes – President BiN, Future Assistant Professor at University of Minnesota**
- **Dr. Brielle Ferguson - Director of Programming BiN, Assistant Professor at Harvard and Boston Children's Hospital**
- **Dr. Paige Greenwood - Postdoctoral Fellow, Columbia University**
- **Clíona Kelly - Graduate Student, Aston University Birmingham, UK**

Navigating Your Way to Funding: Your Tour Guides

- **Overview of NIH and Neuroscience Funding/Mechanisms**
- **How to Read the Funding Opportunity Announcement (FOA)**
- **NIH Grant Cycle and Key Players**
- **Putting Together Your Application**
- **Resources**
- **Audience Questions**

Michelle Jones-London, PhD
Chief, Office of Programs to Enhance Neuroscience Workforce Diversity (OPEN)
NINDS/NIH

Lauren Ullrich, PhD
Program Director
OPEN
NINDS/NIH

Marguerite Matthews, PhD
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Health Program Specialist
OPEN
NINDS/NIH

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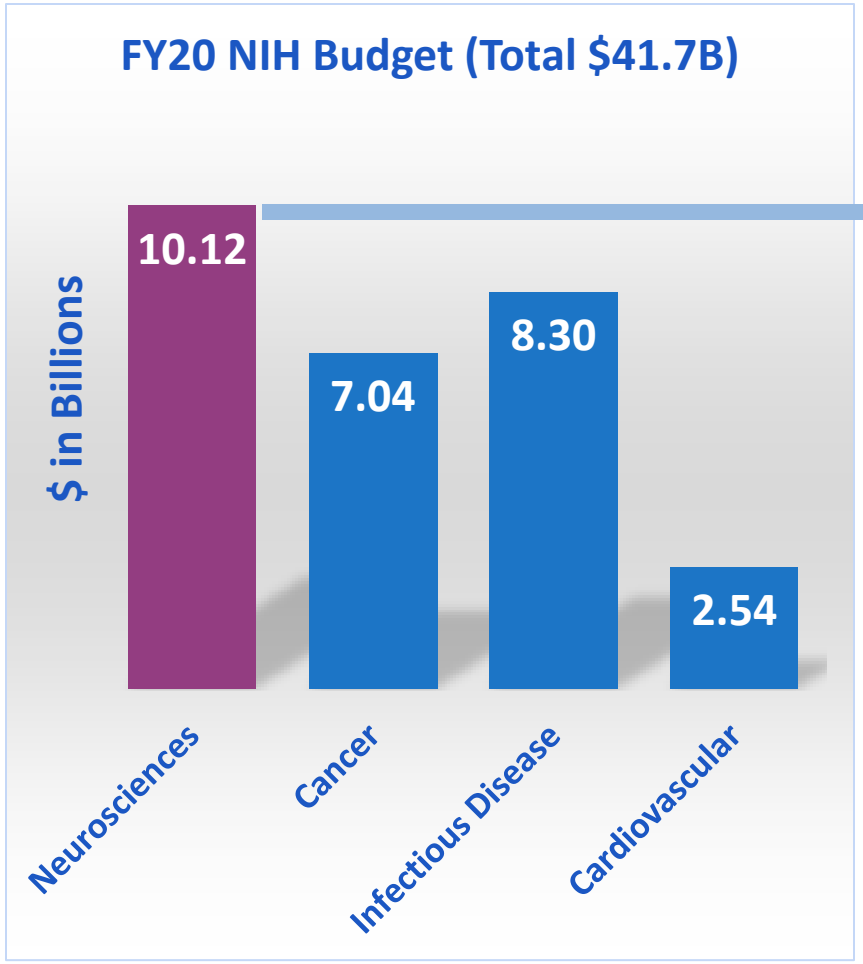
National Institute of Neurological Disorders and Stroke

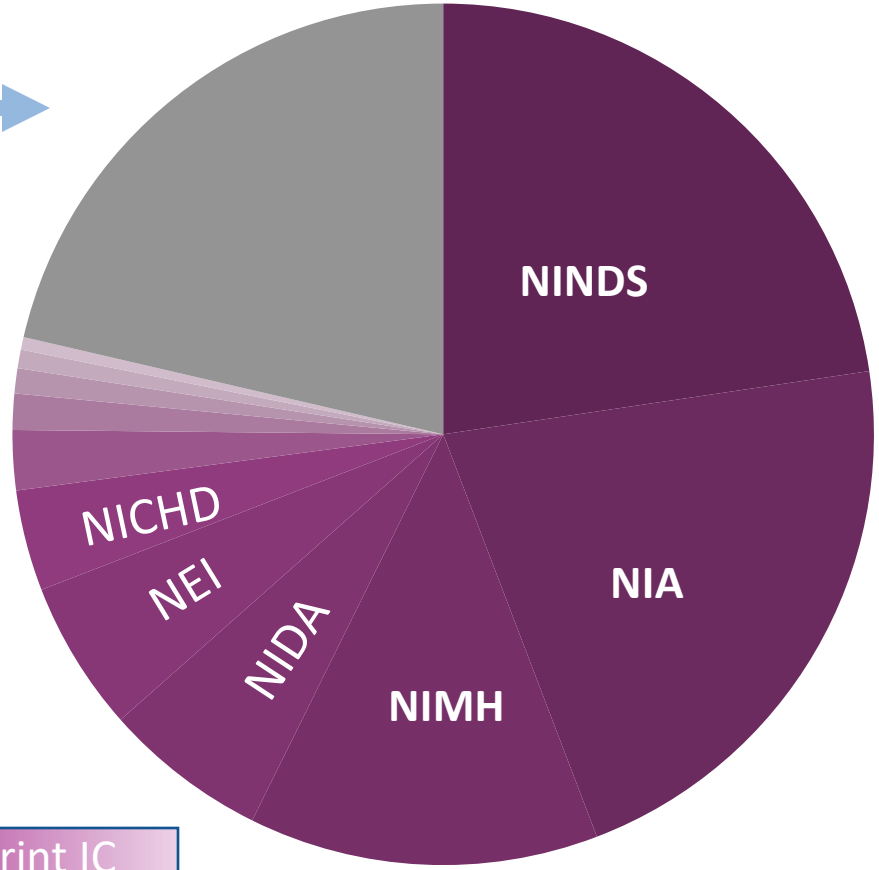
Neuroscience Spans NIH Institutes and Centers (ICs)



27 Institutes and Centers

Each IC has its own personality, priorities, structure, and budget

NIH budget for neuroscience research in FY19 was $10.12 billion



https://projectreporter.nih.gov/

National Institute of Neurological Disorders and Stroke

The NINDS Diversity Office is "OPEN"

- Our goal is to open opportunities and access to enhance the diversity of the neuroscience workforce
- We develop and implement specific funding opportunities (individual and institutional) and work across the NINDS scientific portfolio to promote inclusion
- An OPEN Pathway of programs across career stages

From Potential to Action: NINDS Trainees Navigate Diverse Paths to Success

https://www.ninds.nih.gov/About-NINDS/Workforce-Diversity/Success-Stories

https://www.ninds.nih.gov/About-NINDS/Workforce-Diversity/Enhancing-Diversity

National Institute of Neurological Disorders and Stroke

NINDS Extramural Training and Career Development Programs

C-Clinician-scientist

G-General

D-Diversity

*Eligibility measured from date joined lab

F30[C]

K08/K23[C]

K02[C]

BRAIN F32[G]

Postdoc K01[G]

F31[G]

NINDS F32*[G]

K99/R00[G]

Loan Repayment Program[G]

Re-Entry Supplements[G]

BRAIN, MOSAIC, ADRD K99/R00s[D]

F31[D]

BP F99/K00[D]

Faculty K01[D]

Diversity Research Supplements (AD/ADRD, BRAIN, SBIR/STTR, HEAL)[D]

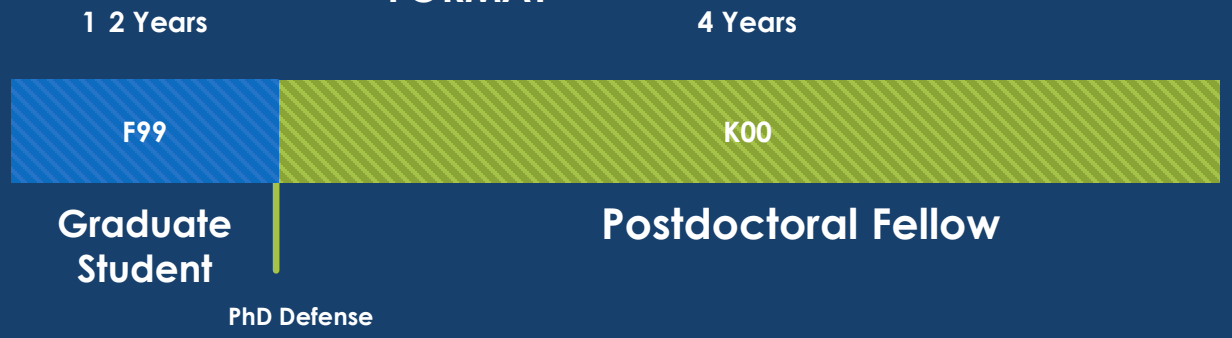
High School Student → Undergraduate Student → Post-Baccalaureate → Graduate/ Medical Student → Postdoc → New Faculty

https://www.ninds.nih.gov/Funding/Training-Career-Development

NIH Blueprint and BRAIN Initiative Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience Award (F99/K00)

@NINDSDiversity

FORMAT



April 15, 2022; December 15, 2022; April 14, 2023; December 15, 2023

PARTICIPATING INSTITUTES

- NEI
- NIA
- NIAAA
- NIBIB
- NICHD
- NIDCR
- NIDA
- NIEHS
- NIMH
- NINDS
- NINR
- NCCIH

RFA NS 21 012

INTENDED FOR

PhD students with 1-2 years left in a research doctoral degree program;

From diverse backgrounds (NOT-OD-18-210), such as:
- Individuals from nationally underrepresented racial and ethnic groups (African Americans, Hispanic/Latinx, American Indians, Alaska Natives, Native Hawaiians, and other Pacific Islanders), and
- Individuals with disabilities;
- Individuals from disadvantaged backgrounds.

Performing neuroscience research within the BRAIN Initiative or Blueprint missions;

At a U.S. domestic institution; and are

U.S. citizens or permanent residents by time of award

National Institutes of Health

National Institute of Neurological Disorders and Stroke

Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) K99/R00

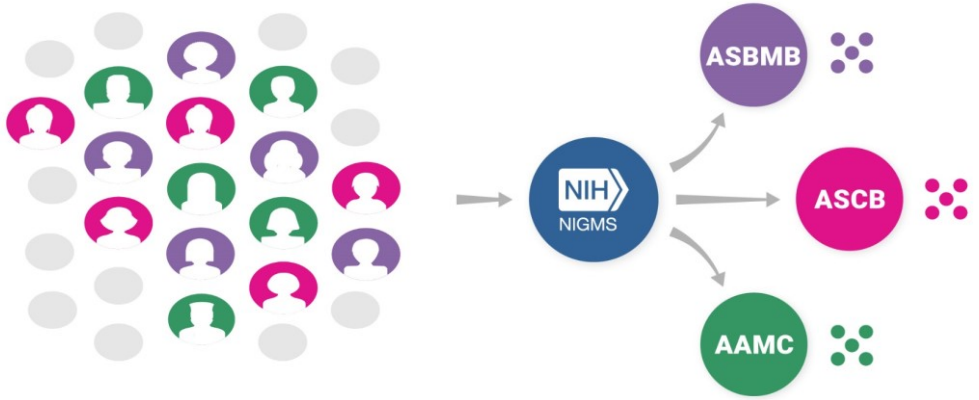
K99/R00 awards will provide *up to 5 years* of support in two phases:

- K99 phase provides support for up to 2 years of mentored postdoctoral research training and career development.
- R00 phase provides up to 3 years of independent research support, contingent on satisfactory progress during the K99 phase and an approved, independent, tenure-track (or equivalent) faculty position.

- PAR-21-271 - MOSAIC K99/R00- Independent Clinical Trial Not Allowed)
- PAR-21-272 - MOSAIC K99/R00- Independent Clinical Trial Required)
- PAR-21-273 - MOSAIC K99/R00- Independent Basic Experimental Studies with Humans Required (BESH)

MOSAIC K99/R00 Applicants Compete

MOSAIC K99/R00 Scholars Participate in Cohorts Organized by UE5



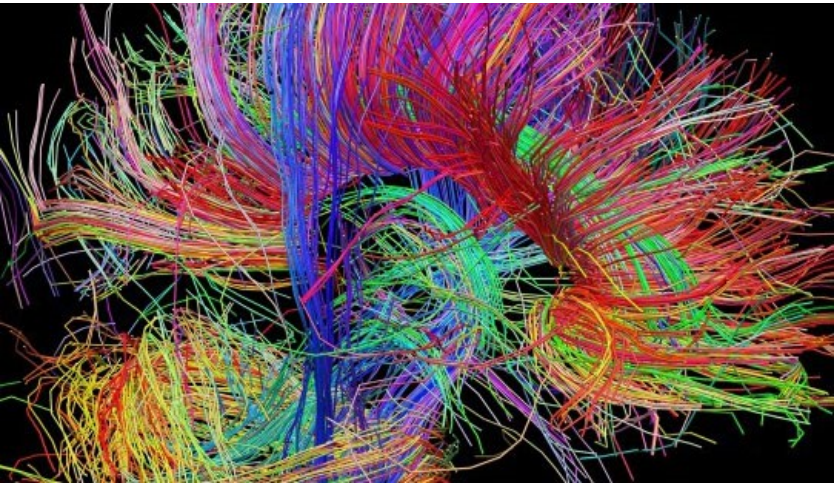
Institutionally Focused Research Education Cooperative Agreement to Promote Diversity (UE5) – **PAR-21-277**

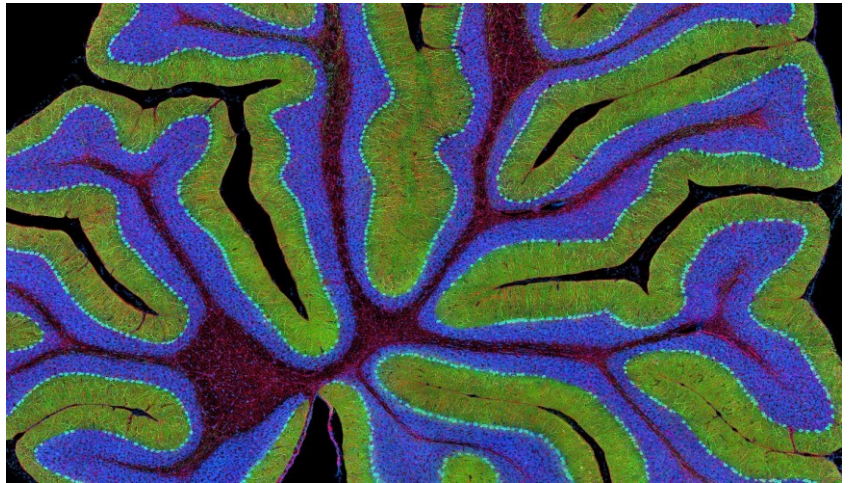
Participating ICs: NCCIH, NHGRI, NHLBI, NIA, NIAAA, NIAID, NIBIB, NIDA, NIDCD, NIDCR, NIEHS, NIGMS, NIMH, NIMHD, NINDS, NINR, NLM

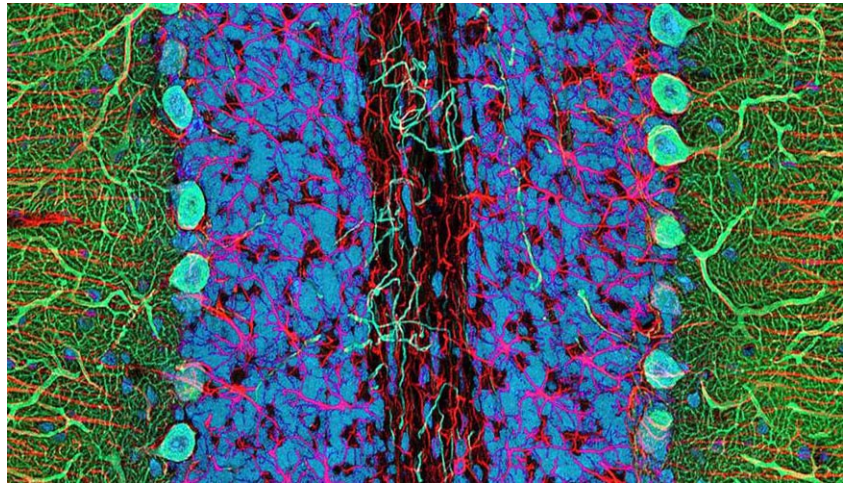
https://www.ninds.nih.gov/Funding/Training-Career-Development/Award/K99R00-MOSAIC-Postdoctoral-Career-Transition-Award-Promote

How to read a Funding Opportunity Announcement (FOA)

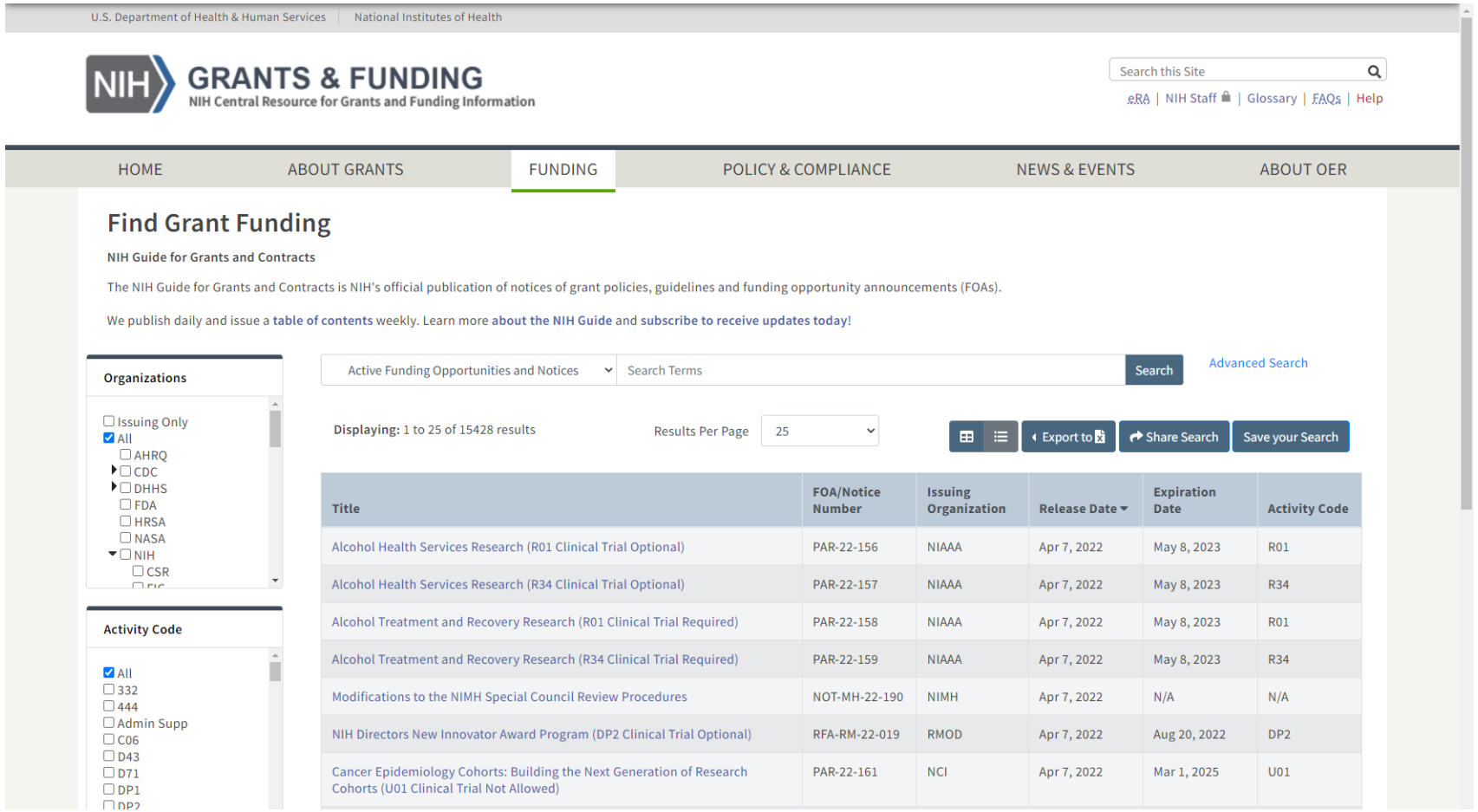
Lauren Ullrich







NIH Guide to Grants and Contracts



Funding Opportunity Announcement (FOA) basics

- All FOAs have the same structure
- The information you need may be in several places.
- FOAs are in addition to instructions in the SF424 (R&R) Application Guide and Related Notices
- If you copy and paste into your own document, be sure to check back for updates through Notices

Read and understand the FOA

- Confirm which Institutes and Centers (ICs) are participating
- Check expiration dates and notices
- Identify eligibility & budget restrictions
- Read the background section to understand priorities
- Read the responsiveness criteria, application instructions, and review criteria to understand requirements and expectations
- Contact appropriate FOA contacts with any questions
  - Program Official (PO) = programmatic questions
  - Peer Review Contact = peer review questions
  - Grants management = budget or grants policy questions

See: https://grants.nih.gov/grants/how-to-apply-application-guide/prepare-to-apply-and-register/understand-funding-opportunities.htm

Department of Health and Human Services
Part 1. Overview Information

Participating Organization(s)	National Institutes of Health (NIH)
Components of Participating Organizations	National Center for Complementary and Integrative Health (NCCIH) National Cancer Institute (NCI) National Eye Institute (NEI) National Human Genome Research Institute (NHGRI) National Heart, Lung, and Blood Institute (NHLBI) National Institute on Aging (NIA) National Institute on Alcohol Abuse and Alcoholism (NIAAA) National Institute of Allergy and Infectious Diseases (NIAID) National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) National Institute of Biomedical Imaging and Bioengineering (NIBIB) Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) National Institute on Drug Abuse (NIDA) National Institute on Deafness and Other Communication Disorders (NIDCD) National Institute of Dental and Craniofacial Research (NIDCR) National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) National Institute of Environmental Health Sciences (NIEHS) National Institute of General Medical Sciences (NIGMS) National Institute of Mental Health (NIMH) National Institute on Minority Health and Health Disparities (NIMHD) National Institute of Neurological Disorders and Stroke (NINDS) National Library of Medicine (NLM) National Institute of Nursing Research (NINR) Division of Program Coordination, Planning and Strategic Initiatives, Office of Research Infrastructure Programs (ORIP) Special Note: Not all NIH Institutes and Centers participate in Parent Announcements. Applicants should carefully note which ICs participate in this announcement and view their respective areas of research interest and requirements at the Table of IC-Specific Information, Requirements, and Staff Contacts website. ICs that do not participate in this announcement will not consider applications for funding. Consultation with NIH staff before submitting an application is strongly encouraged.
Funding Opportunity Title	Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (Parent F31-Diversity)
Activity Code	F31 Predoctoral Individual National Research Service Grant Award
Announcement Type	Reissue of PA-19-196
Related Notices	See Notices of Special Interest associated with this funding opportunity • **October 28, 2020** - This PA has been reissued as PA-21-052.

Part 2. Full Text of Announcement

Section I. Funding Opportunity Description

The overall goal of the NIH Ruth L. Kirschstein National Research Service Award (NRSA) program is to help 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. NRSA fellowships support the training of pre-and postdoctoral scientists, dual-degree investigators, and senior researchers. More information about NRSA programs may be found at the NIH Research Training and and Career Development website.

The NIH recognizes a unique and compelling need to promote diversity in the biomedical, behavioral and clinical sciences research workforce. There are many benefits that flow from a diverse NIH-supported scientific workforce, including: fostering scientific innovation, enhancing global competitiveness, contributing to robust learning environments, improving the quality of the researchers, advancing the likelihood that underserved or health disparity populations participate in, and benefit from health research, and enhancing public trust.The purpose of the Kirschstein-NRSA Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (F31) is to provide support for mentored research training leading to the PhD or equivalent research degree, the combined MD/PhD degree, or another formally combined health professional degree and research doctoral degree in the biomedical, behavioral, or clinical sciences for individuals from diverse backgrounds. The goal of this program is to enhance diversity of scientists who are well prepared for research careers in the biomedical, behavioral, and clinical sciences, including those from underrepresented backgrounds, such as underrepresented racial and ethnic groups, persons with disabilities and those from disadvantaged backgrounds.

Candidates for this Kirschstein-NRSA F31 award are expected to propose a defined research project and training plan within the mission of the participating Institutes and Centers. The training plan should reflect the candidate's research project, which may be his/her dissertation research project, and facilitate and clearly enhance the individual's potential to develop into a productive, independent research scientist. The training plan should document the need for, and the anticipated value of, the proposed mentored research and training in relationship to the individual's research career goals.

It is expected that the mentored research training experience will provide:

- A strong foundation in rigorous research design, experimental methods, and analytic techniques appropriate to the proposed dissertation research;
- The enhancement of the candidate's ability to conceptualize and think through research problems with increasing independence;
- Experience conducting research using appropriate, state-of-the-art methods, as well as presenting and publishing the research findings as first author;
- The opportunity to interact with members of the scientific community at appropriate scientific meetings and workshops;
- Skills needed to transition to the next stage of the candidate's research career; and
- The opportunity to enhance the candidate's understanding of the health-related sciences and the relationship of the proposed research to health and disease.

Although candidates may apply at any time, applications are encouraged once a candidate has identified a specific research project that will be undertaken, under the supervision of a sponsor in the sponsor's laboratory. This often occurs in the second year of a PhD program.

The Kirschstein-NRSA Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research may provide up to five years of support for research training which leads to the PhD or equivalent research degree or up to six years of support for training leading to the combined MD/PhD degree or another, combined dual-doctoral degree in the biomedical, behavioral, or clinical sciences.

Note: This Funding Opportunity Announcement (FOA) does not allow candidates to propose to lead an independent clinical trial, a clinical trial feasibility study, or an ancillary clinical trial, but does allow candidates to propose research experience in a clinical trial led by a sponsor or co-sponsor.

Special Note: Because of the differences in individual Institute and Center (IC) program requirements for this FOA, prospective applicants are strongly encouraged to consult the Table of IC-Specific Information, Requirements, and Staff Contacts, to make sure that their application is appropriate for the requirements of one of the participating NIH ICs.

See Section VIII. Other Information for award authorities and regulations.

Section II. Award Information

the training program. When there is a sponsor team, one individual must be identified as the primary sponsor, and will be expected to coordinate the candidate's overall training. The candidate must work with the sponsor(s) in preparing the application

Section IV. Application and Submission Information

1. Requesting an Application Package

Buttons to access the online ASSIST system or to download application forms are available in Part 1 of this FOA. See your administrative office for instructions if you plan to use an institutional system-to-system solution.

2. Content and Form of Application Submission

It is critical that applicants follow the Fellowship (F) instructions in the SF424 (R&R) Application Guide, except where instructed in this funding opportunity announcement to do otherwise. Conformance to the requirements in the Application Guide is required and strictly enforced. Applications that are out of compliance with these instructions may be delayed or not accepted for review.

Page Limitations

All page limitations described in the SF424 (R&R) Application Guide and the Table of Page Limits must be followed.

Instructions for Application Submission

The following section supplements the instructions found in the SF424 (R&R) Application Guide and should be used for preparing an application to this FOA.

SF424(R&R) Cover

All instructions in the SF424 (R&R) Application Guide must be followed.

SF424(R&R) Project/Performance Site Locations

All instructions in the SF424 (R&R) Application Guide must be followed.

Other Project Information

All instructions in the SF424 (R&R) Application Guide must be followed.

SF424(R&R) Senior/Key Person Profile Expanded

All instructions in the SF424 (R&R) Application Guide must be followed.

IMPORTANT REMINDER: The personal profile associated with the eRA Commons username entered in the Credential field for the PD/PI (fellowship applicant) must include an ORCID ID. For more information on linking an ORCID ID to an eRA Commons personal profile see the ORCID topic in our eRA Commons online help.

PHS Fellowship Supplemental Form

The PHS Fellowship Supplemental Form is comprised of the following sections:

- Fellowship Applicant
- Research Training Plan
- Sponsor(s), Collaborator(s), and Consultant(s);
- Institutional Environment & Commitment to Training
- Other Research Training Plan Sections
- Additional Information
- Budget
- Appendix

Applicants are required to follow the instructions for post-submission materials, as described in the policy.

Section V. Application Review Information

1. Criteria

Only the review criteria described below will be considered in the review process. Applications submitted to the NIH in support of the NIH mission are evaluated for scientific and technical merit through the NIH peer review system.

For this particular announcement, note the following:

- A fellowship application has a research project that is integrated with the training plan. The review will emphasize the candidate's potential for a productive career, the candidate's need for the proposed training, and the degree to which the research project and training plan, the sponsor(s), and the environment will satisfy those needs.

Overall Impact

Reviewers will provide an overall impact score to reflect their assessment of the likelihood that the fellowship will enhance the candidate's potential for, and commitment to, a productive independent scientific research career in a health-related field, in consideration of the scored and additional review criteria.

Scored Review Criteria

Reviewers will consider each of the review criteria below in the determination of scientific merit, and give a separate score for each. An application does not need to be strong in all categories to be judged likely to have major scientific impact.

Fellowship Applicant

- Are the candidate's academic record and research experience of high quality?
- Does the candidate have the potential to develop into an independent and productive researcher?
- Does the candidate demonstrate commitment to a research career in the future?
- Does the research project reflect a significant contribution of the candidate to the originality of the project idea, approach and/or hypotheses relative to their career stage?

Sponsors, Collaborators, and Consultants

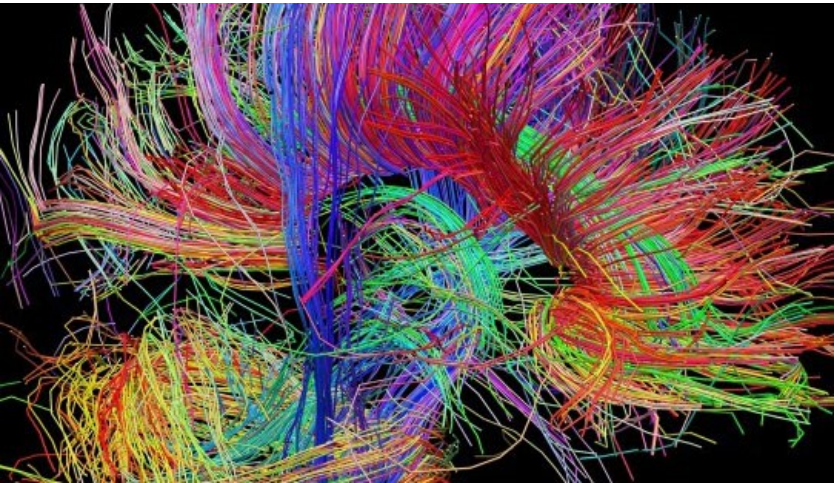
- Are the sponsor(s') research qualifications (including recent publications) and track record of mentoring individuals at a similar stage appropriate for the needs of the candidate?
- Is there evidence of a match between the research and clinical interests (if applicable) of the candidate and the sponsor(s)?
- Do(es) the sponsor(s) demonstrate an understanding of the candidate's training needs as well as the ability and commitment to assist in meeting these needs?
- Is there evidence of adequate research funds to support the candidate's proposed research project and training for the duration of the research component of the fellowship?
- If a team of sponsors is proposed, is the team structure well justified for the mentored training plan, and are the roles of the individual members appropriate and clearly defined?
- Are the qualifications of any collaborator(s) and/or consultant(s), including their complementary expertise and previous experience in fostering the training of fellows, appropriate for the proposed project?
- Does the sponsor's research and training record, as well as mentoring statement, indicate that the candidate will receive outstanding training in the proposed research area and have the opportunity to publish high quality papers and present research data at national meetings as the project progresses?
- If the candidate is proposing to gain experience in a clinical trial as part of his or her research training, is there evidence of the appropriate expertise, experience, resources, and ability on the part of the sponsor(s) to guide the candidate during the clinical trial research experience?

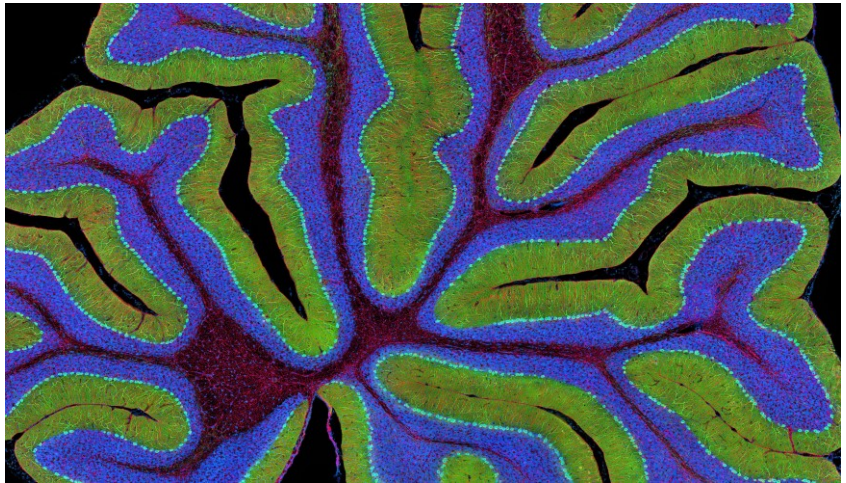
Research Training Plan

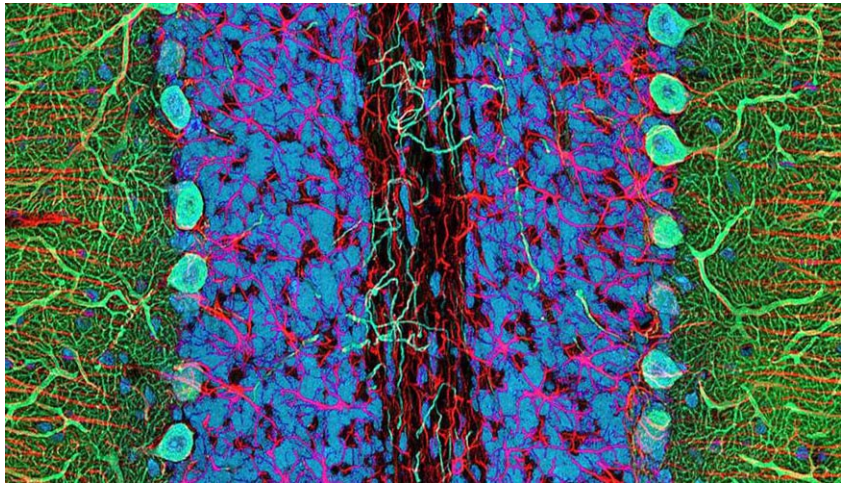
- Is the proposed research project of high scientific quality, and is it well integrated with the proposed research training plan?
- Is the prior research that serves as the key support for the proposed project rigorous?
- Has the candidate included plans to address weaknesses in the rigor of prior research that serves as the key support for the proposed project?
- Has the canddiate presented strategies to ensure a robust and unbiased approach, as appropriate for the work proposed?

The NIH Grant Cycle and Key Players

Marguerite Matthews

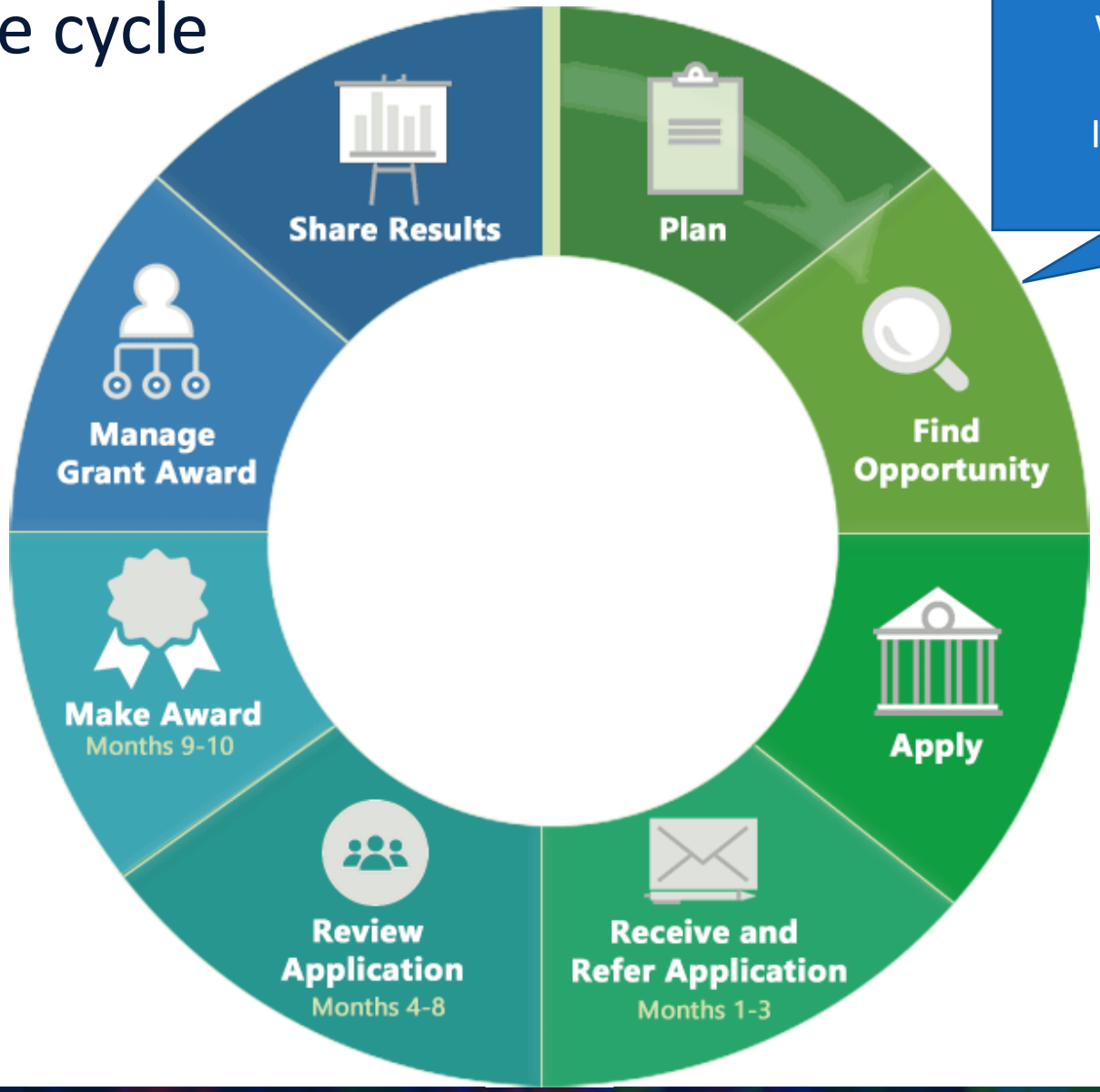






The grant life cycle

- Start planning early
- From “Plan” to “apply” could take 8+ Months



Which Institute or Center (IC)?
Which Funding Opportunity Announcement (FOA)?
Is my research high priority?
Am I eligible?

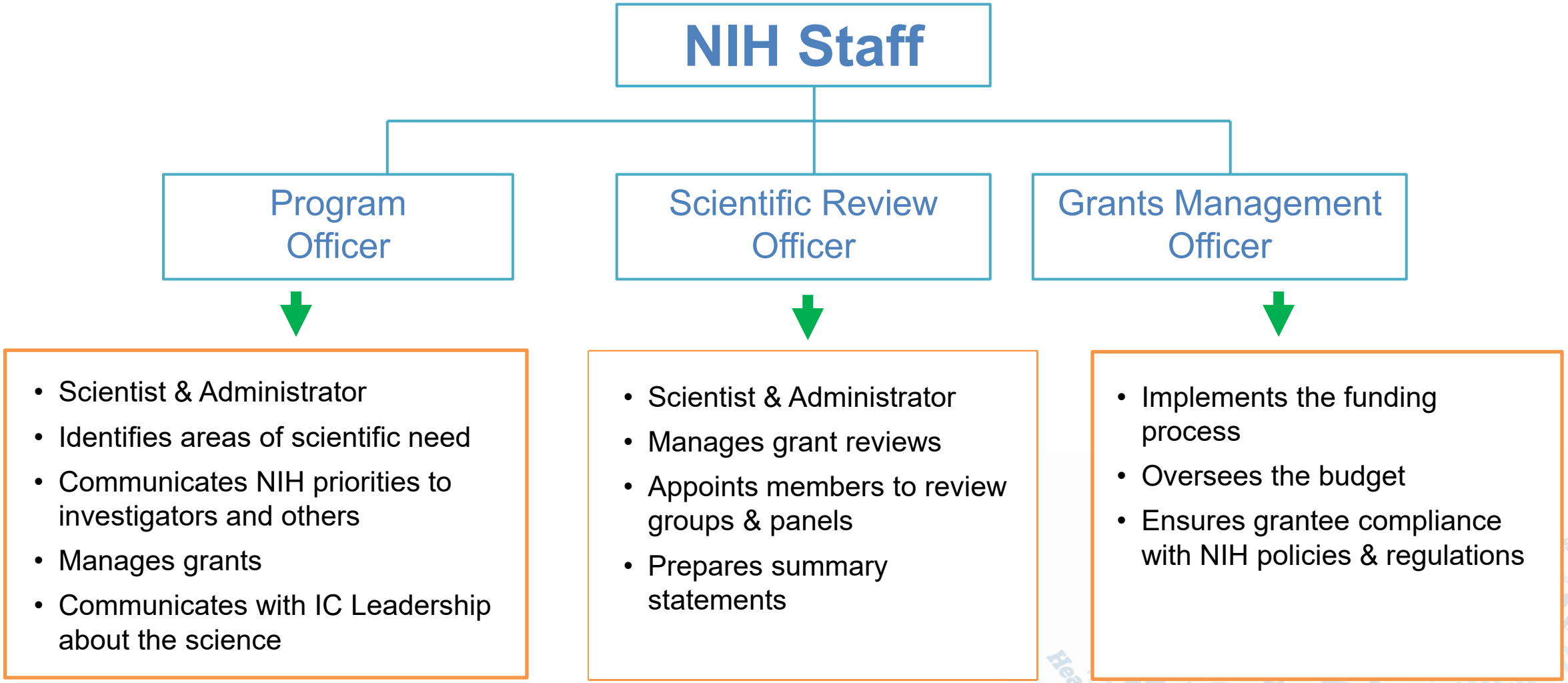
Contact a Program Director

Building Up the Nerve
A NEW PODCAST FROM NINDS

Learn how to navigate through the life cycle of a grant from idea to award with the help of the NINDS staff who make it happen.

Subscribe at ninds.buzzsprout.com
Send questions to NINDSNervePod@nih.gov

Interacting with NIH



Contact a Program Official (PO)

- Have many names: Program Director, Chief, Health Scientist Administrator, Program Official
- Contact relevant POs listed on FOAs, IC websites, or in NIH RePORTER Matchmaker
  - Most POs prefer to be contacted by email rather than a “cold call”
  - Share your Specific Aims/brief project description in advance
    - Helps PO assess “mission-relevance” and fit with FOA
    - May facilitate follow-on discussions
  - Initiate contact early in the application process
  - You may talk to several POs before deciding where to submit

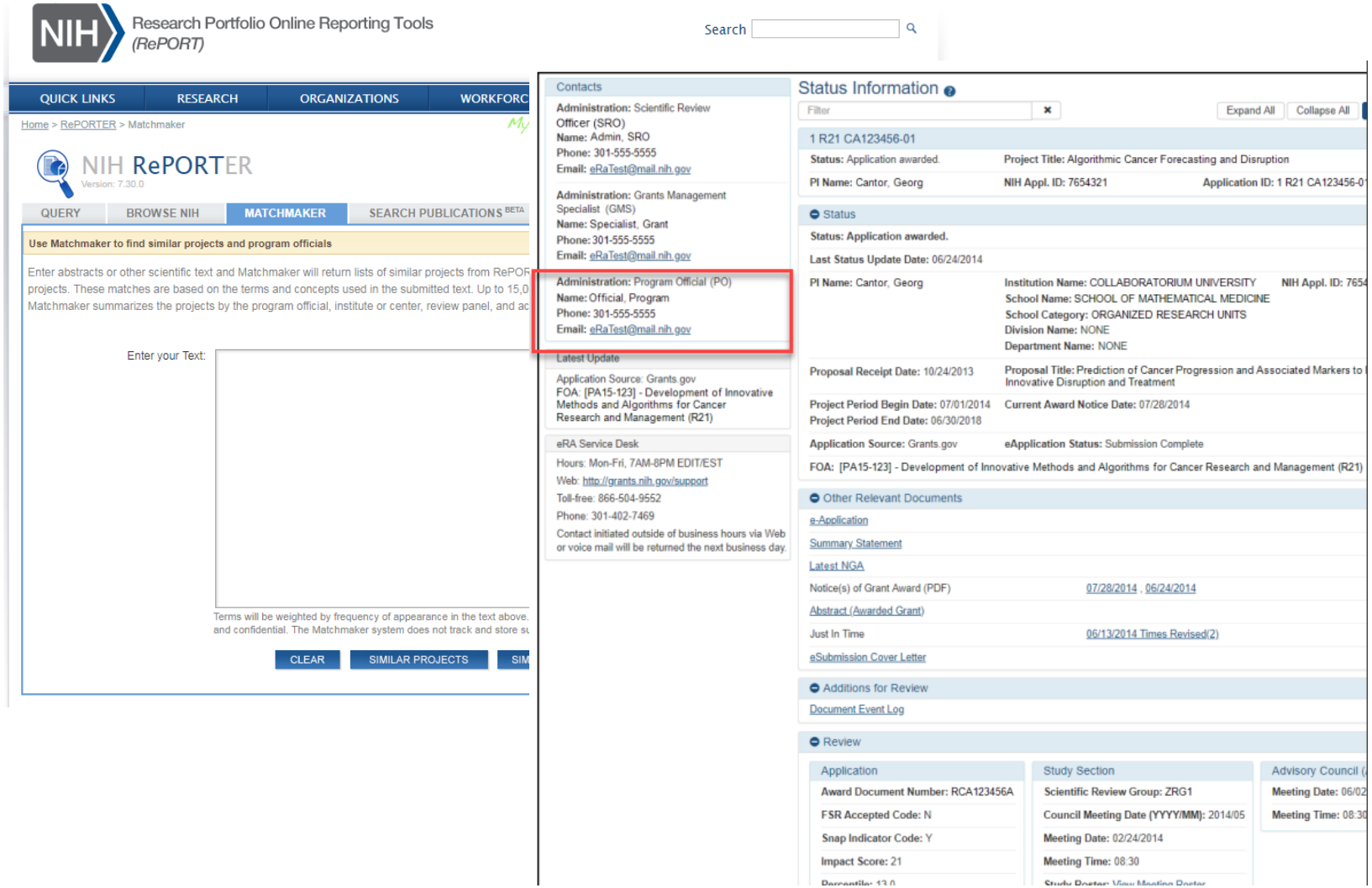
Finding the Right Program Official (PO)

Before you apply, you will want to talk to your "likely" PO

- Contact OPEN office!
- Contact Mentor's PO
- Use Matchmaker function in NIH RePORTER
- Check FOA
  - Scientific/Research Contact(s)
  - "Table of IC-specific contacts"

After you apply, you will be assigned a PO

- Check eRA Commons



Scientific Review Officer Duties

- Responsible for the scientific and technical review of applications
- Review applications for completeness and conformance with application requirements
- Ensure fair and unbiased evaluation of the scientific and technical merit of the proposed research
- Provide accurate summaries of the evaluation to aid funding recommendations made by National Advisory Councils and Institute Directors

Post-Submission Materials

- Certain updates are allowed no later than 30 calendar days prior to the peer review meeting
- Send to Scientific Review Officer (SRO) information on:
  - News of an article accepted for publication since submission of the application
  - New sponsor/co-sponsor research funding
  - Change in Sponsor(s) or other Senior/Key Persons
  - New patents
  - Limited other info; for more information: NOT-OD-17-066

After the review

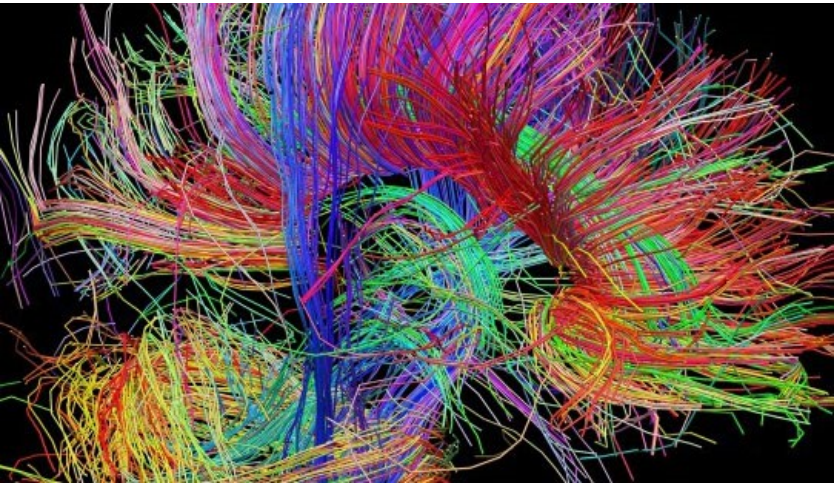
- Read and re-read the summary statement
- Contact your program officer and be prepared to discuss:
  - Reviewer comments from summary statement
  - Scores and percentiles
  - Funding prospects
  - Resubmission and other options

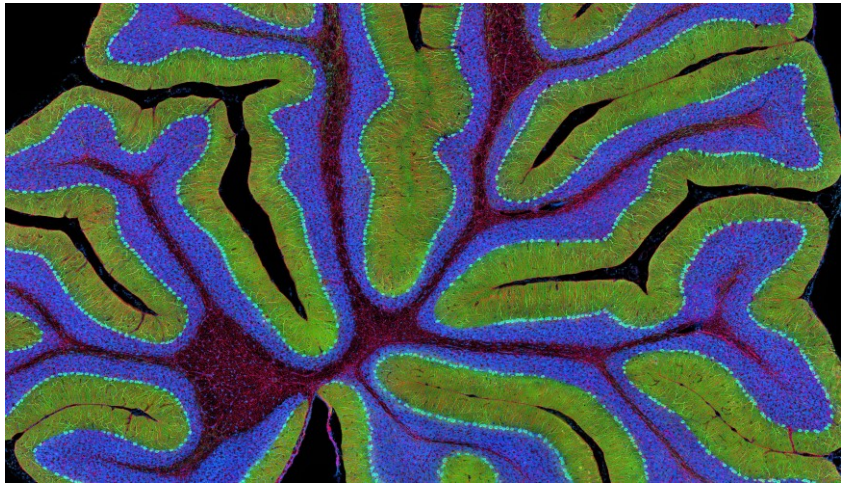
Funding decisions

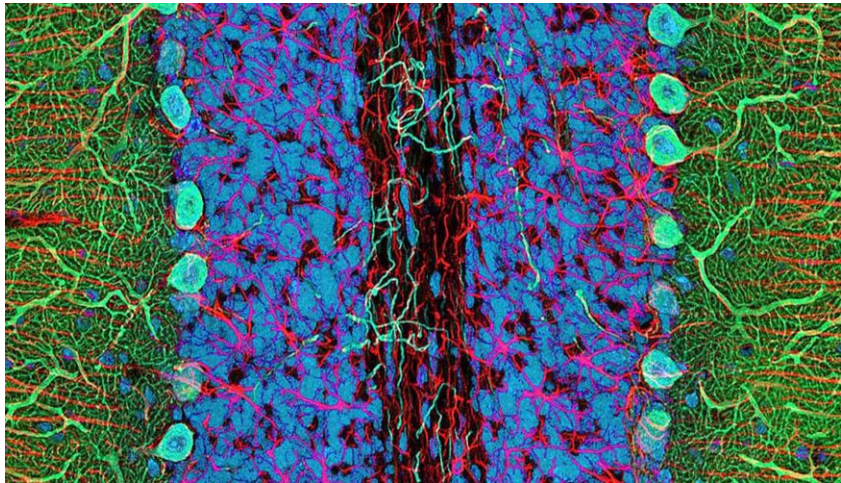
- Most training and career mechanisms are not percentiled
- Funding decisions based on score, reviewer comments, and scientific and training program recommendation

Putting together your application

Anahid Ebrahimi







Before You Start Your Application

Take a step back and view the process of writing the grant not only for money/funding, but as an exercise to organize a vision of your research, a timeline for your career development and as a vehicle to have focused engagement with your mentor

Remember – you shouldn't do this alone! Engage your mentors and peers in the process

Be specific:
My goal is _____
My research question is _____
At the end of this award, I will be ready to _____

Work backward from your end goal - where do you need to be in:
Discipline-specific knowledge, technical skills, communication skills, leadership skills, etc.

What will you learn from each identified mentor?

Are all your areas of development covered?

Be consistent
Be realistic
Be explicit

Step 1

- Define your career goals and research interests

Step 2

- Perform a skills “gap analysis”

Step 3

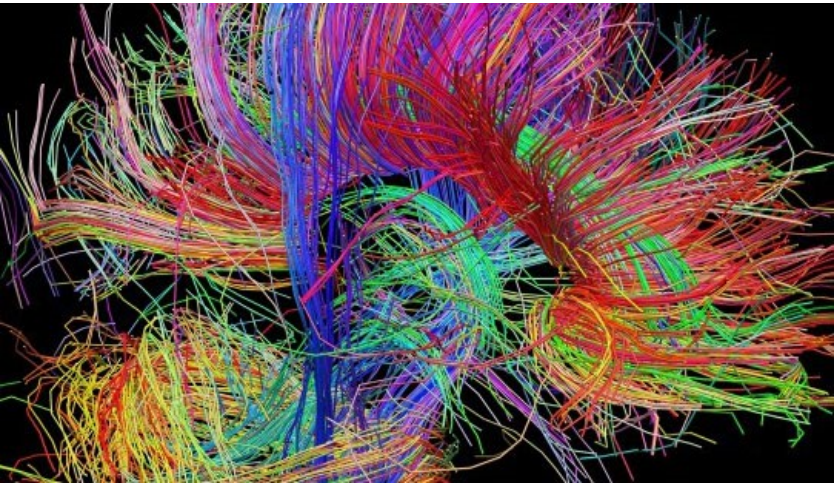
- Build a career/training plan that is tailored to your needs
- Seek guidance and mentorship!

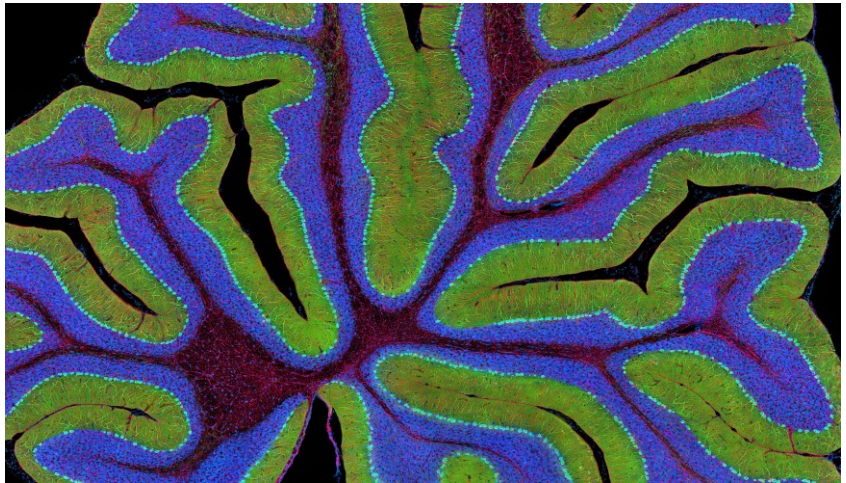
Step 4

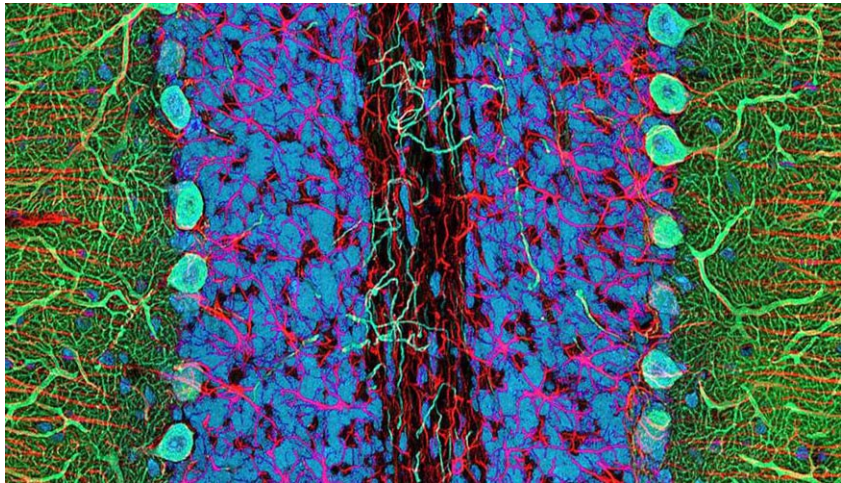
- Read instructions and put it all together!
- Get LOTS of feedback

Resources

Jenny Kim

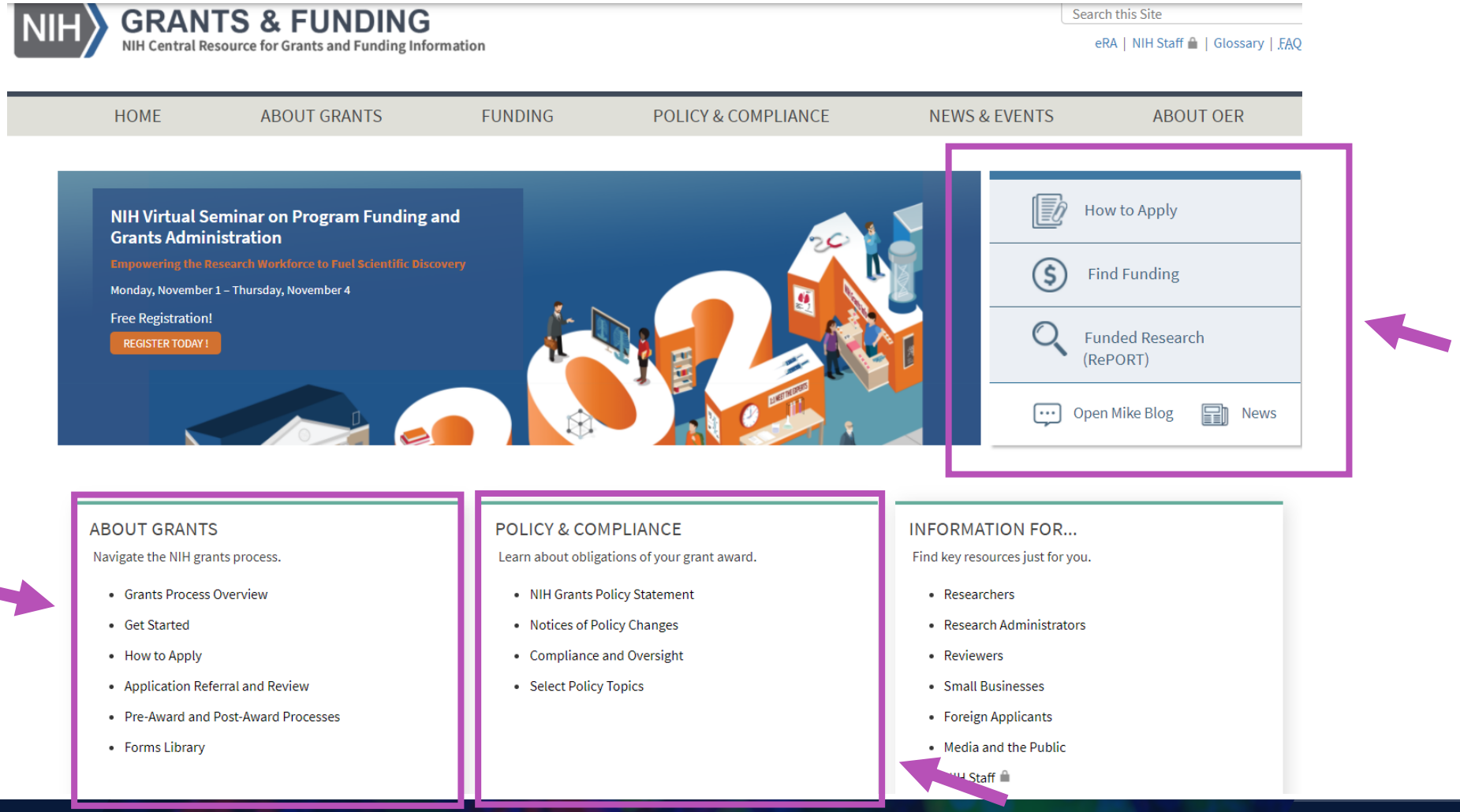






Grants and Funding – Grants.nih.gov

http://grants.nih.gov/grants/oer.htm



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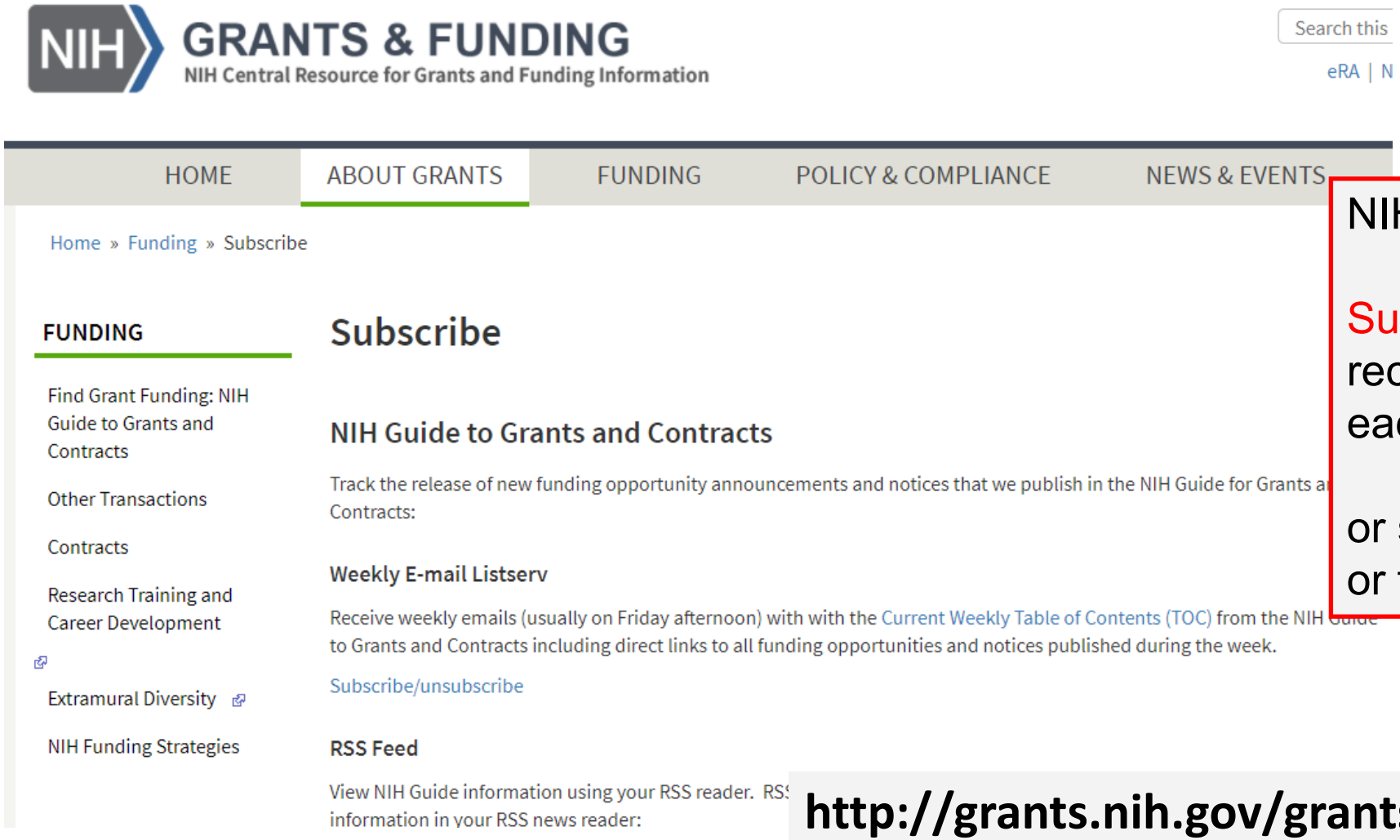

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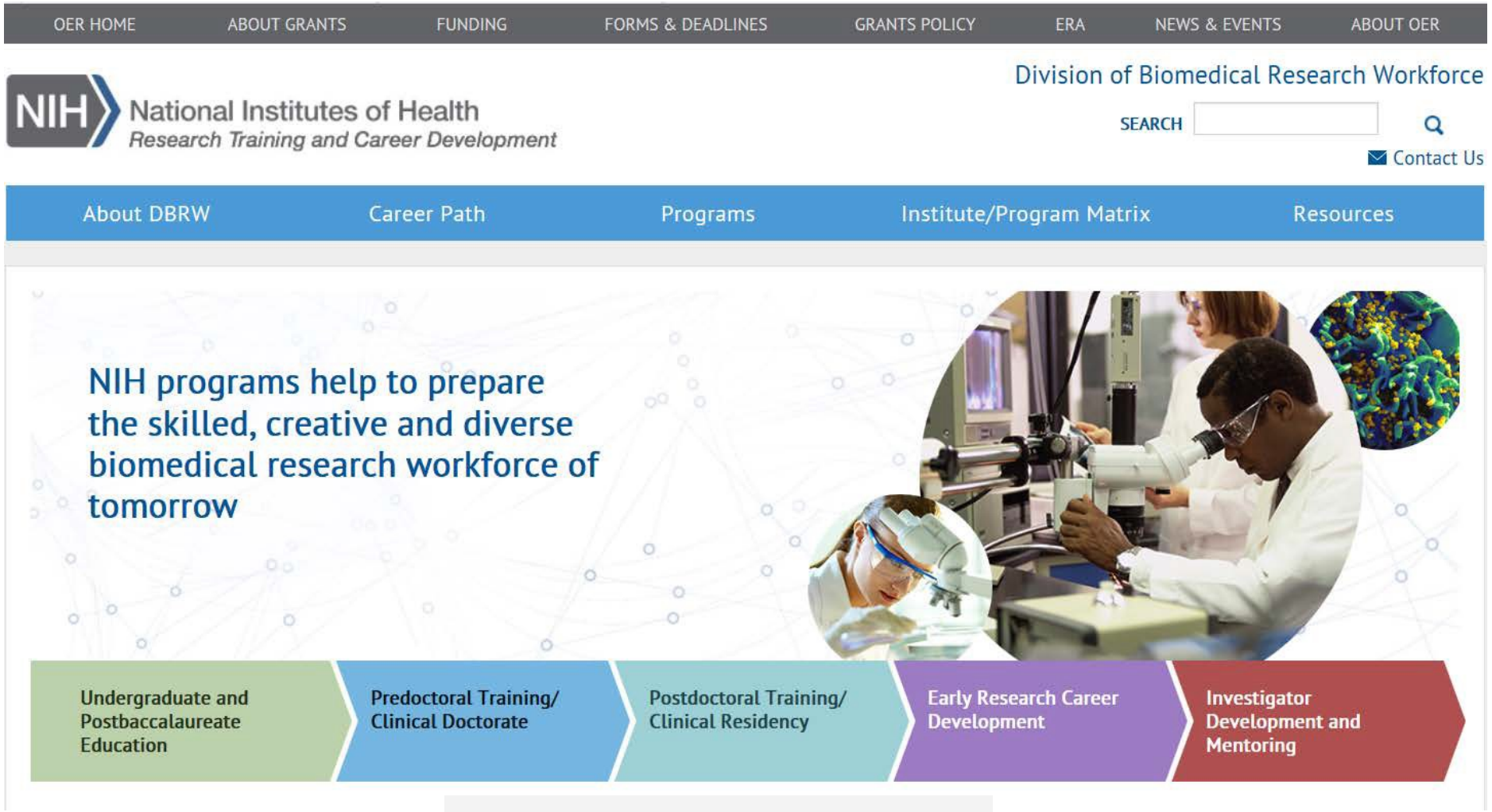
http://grants.nih.gov/grants/guide/listserv_dev.htm

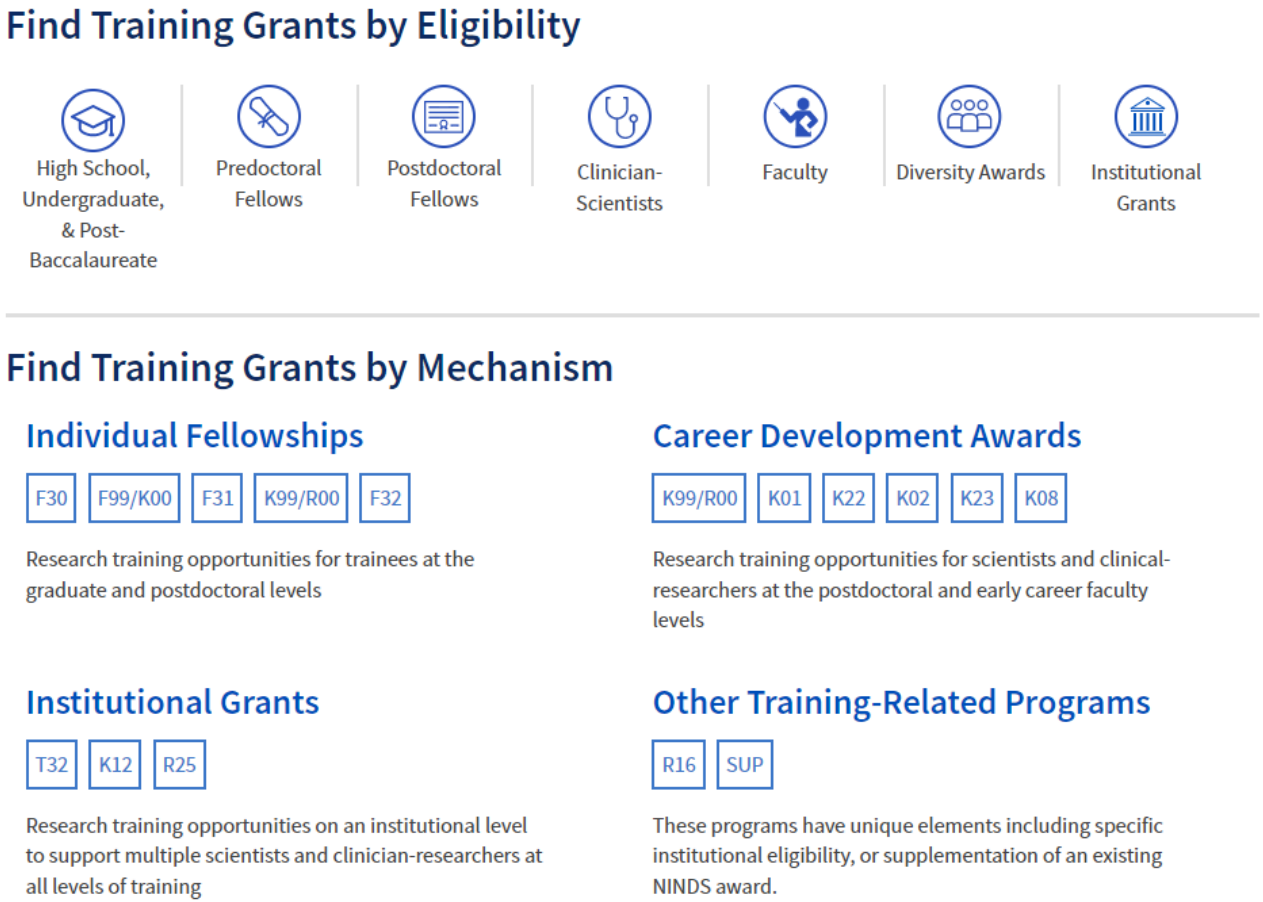
NIH Research Training Website



researchtraining.nih.gov

NINDS Resources

- Archived webinars:
  - Diversity F31
  - F99/K00
  - K01
  - BRAIN K99/R00
- Tip sheets:
  - K01
  - Career Development Plan



https://www.ninds.nih.gov/Funding/Training-Career-Development

TRAINING & CAREER DEVELOPMENT

- High School, Undergraduate, & Post-Baccalaureate
- Predoctoral Fellows
- Postdoctoral Fellows
- Clinician-Scientists
- Faculty
- Diversity Awards
- Individual Fellowships
- Career Development Awards
- Institutional Grants
- Other Training-Related Programs

LATEST UPDATES

NINDS Strategic Plan 2021-2026

Read more

K99/R00*

K99/R00 - MOSAIC Postdoctoral Career Transition Award to Promote Diversity

Purpose
To support diverse postdocs to develop their independent research skills through a two-phase program: an initial mentored research experience followed by a period of independent research.

Program Announcement
MOSAIC K99/R00 - Independent Clinical Trial Not Allowed - PAR-21-271

MOSAIC K99/R00 - Independent Clinical Trial Required - PAR-21-272

MOSAIC K99/R00 - Independent Basic Experimental Studies w/ Humans Required - PAR-21-273

Due Dates for New Applications
February 12, June 12, October 12

Due Dates for Resubmission Applications
March 12, July 12, November 12

PD/PI Eligibility
U.S. citizens or permanent residents; research doctorate holders; members of underrepresented groups

Institution Eligibility
U.S. domestic institutions

Additional Information

The purpose of the Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity (K99/R00) program is to support a cohort of early career, independent investigators from diverse backgrounds conducting research in NIH mission areas. The long-term goal of this program is to enhance diversity in the biomedical research workforce. The MOSAIC K99/R00 program is designed to facilitate a timely transition of promising postdoctoral researchers from diverse backgrounds (e.g., see NIH's Interest in Diversity) from their mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions at research-intensive institutions. The MOSAIC K99/R00 program will provide independent NIH research support before and after this transition to help awardees launch successful, independent research careers. Additionally, MOSAIC K99/R00 scholars will be part of organized scientific cohorts and will be expected to participate in mentoring, networking, and professional development activities coordinated by MOSAIC Institutionally-Focused Research Education Award to Promote Diversity (UE5) grantees.

Applicants for diversity-related career development programs will be expected to attach a Description of Candidate's Contribution to Program Goals, explaining how the candidate's participation would further the goals of the program to promote diversity in health-related research (see Notice of NIH's Interest in Diversity NOT-OD-20-031).

Salary and Research Costs

For mentored (K99 phase) candidates at an extramural institution, NINDS will provide up

Contact

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Chief, Office of Programs to Enhance Neuroscience Workforce Diversity
NINDSDiversityTraining@mail.nih.gov

Lauren Ullrich, PhD
Program Director
lauren.ullrich@nih.gov

Related Resources

Webinar:
What You Need to Know About the NINDS Diversity Career Development K22 Award

Putting Together Your Strongest K22 Application

MOSIAC FAQ

Suggestions for a Good Career Development Plan

NIH Clinical Trial Definition

K22 Award Information from NIH

Notice of NIH's Interest in Diversity

Diversity Resources

Awardee Success Stories

Loan Repayment Program

How to Apply

Administrative Supplements to Promote Research Continuity and Retention of NIH Mentored Career Development (K) Award Recipients

NINDS Diversity Career Development (K) Award OPEN Conversations Webinar

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and Stroke
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relationships with
tools & advice from
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