

Zoom participants: Please keep your microphone muted until the Q&A session

NIH: DEVELOPING YOUR FIRST R01 PROPOSAL

RESEARCH AND FACULTY DEVELOPMENT FACULTY SUCCESS SEMINAR SERIES

Wendy Hessler, MA Proposal Development Specialist, Research and Faculty Development

Special Guest: Eva Top, PhD Professor, Biological Sciences

Please note that this session is being recorded



OFFICE OF RESEARCH AND FACULTY DEVELOPMENT

We provide proposal development assistance across the spectrum*









- Meet goals in the UI strategic plan grow research and creative efforts across <u>all</u> disciplines
- Reach out to request service uidaho.edu/orfd

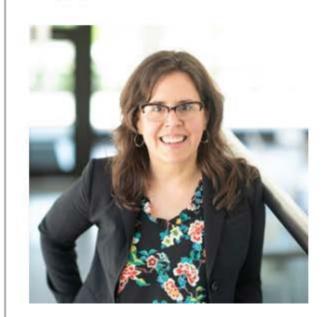
*Not including budget preparation

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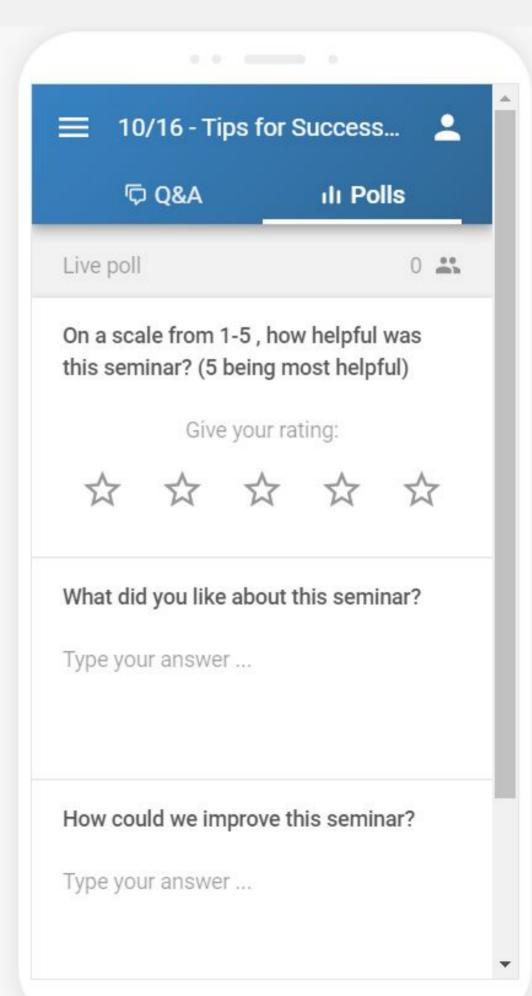
REQUEST RFD SERVICES



HELP US IMPROVE OUR SEMINARS

- If After the Q&A session: brief 3 question sli.do poll
 - On a scale from 1-5, how helpful was this seminar?
 - What did you like most about this seminar?
 - How can we improve this seminar?

www.slido.com or use the sli.do app (Use code #FSS)





OBJECTIVES

IN THIS SESSION, WE'LL DISCUSS:

- Understand NIH
- In the R01 funding mechanism
- Determine your fit: Institutes/Centers; Study Sections
- I Find funding opportunities
- Prepare your application
- I Special Guest: Dr. Eva Top





NATIONAL INSTITUTES OF HEALTH

- I Federal funding agency
- I Part of the U.S. Department of Health and Human Services (HHS)
- Began in 1887 as a <u>one-room laboratory</u> in Marine Hospital Services
- Lipute Director: Francis S. Collins, MD, PhD (since 2009)
- INIH's mission is to seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability.



NIH Regional

Grants Conference

- Spring and Fall

ORGANIZATION



OD

INIH divided into 27 Institutes/Centers (I/C) \rightarrow Study Sections \rightarrow

Research funding mechanisms (R)







GET STARTED: UNDERSTAND NIH

- Structure
- Approach to grant funding
- Eligibility requirements
- Research project
- I Grant programs







R FUNDING MECHANISMS

- R = Research grants
- **I** Examples: R01, R03, R21
- INot all Institutes/Centers (I/C) participate in all PA/FOAs
- I Two options:
 - Funding Opportunity Announcement (FOA)
 - Parent Announcements (PA)
 - More about this naming <u>here</u>





R01 RESEARCH PROJECT GRANT

- INIH's most commonly used grant program
- I Supports a discrete, specified, circumscribed research project
- Open to applicants throughout their research careers with benefits for early-stage investigators (ESI)
- Preliminary data are required
- No specific dollar limit unless specified in FOA
 - Advance permission required for \$500K or more (direct costs) in any year (typical practice; not just for R01)
- I Generally awarded for 3-5 years
- I Utilized by all Institutes and most Centers





R01

- R01: NIH Research Project Grant Program
- Application types allowed
 - New
 - Renewal
 - Resubmission
 - Revision
- INIH standard deadlines three per calendar year (Table)
 - R01 new: Feb. 5, June 5, Oct. 5
 - R01 resubmission, renewal, revision: Mar. 5, July 5, Nov. 5





BENEFITS EARLY-STAGE INVESTIGATORS

- I Completed terminal research degree or end of post-graduate clinical training (whichever date is later) within the **past 10 years** and have not competed successfully as PD/PI for a substantial NIH independent research award.
- I Timeframe and research scope
- Modular budget for \$250,000 project
- Special status in review process
 - Lower reviewer expectations
 - More complete review comments





MW CTR-IN MW CTR-IN FUNDING PROGRAMS

- Mountain West Clinical and Translational Infrastructure Network Program
- I Single Institution Pilot Grants
 - Provides early career investigators with funding to capture preliminary data that will support and inform a competitive R-level grant application to NIH or other extramural funding source
- Multi Site Pilot Projects (MSPP)
- Developmental Translational Team Grants (DTTG)





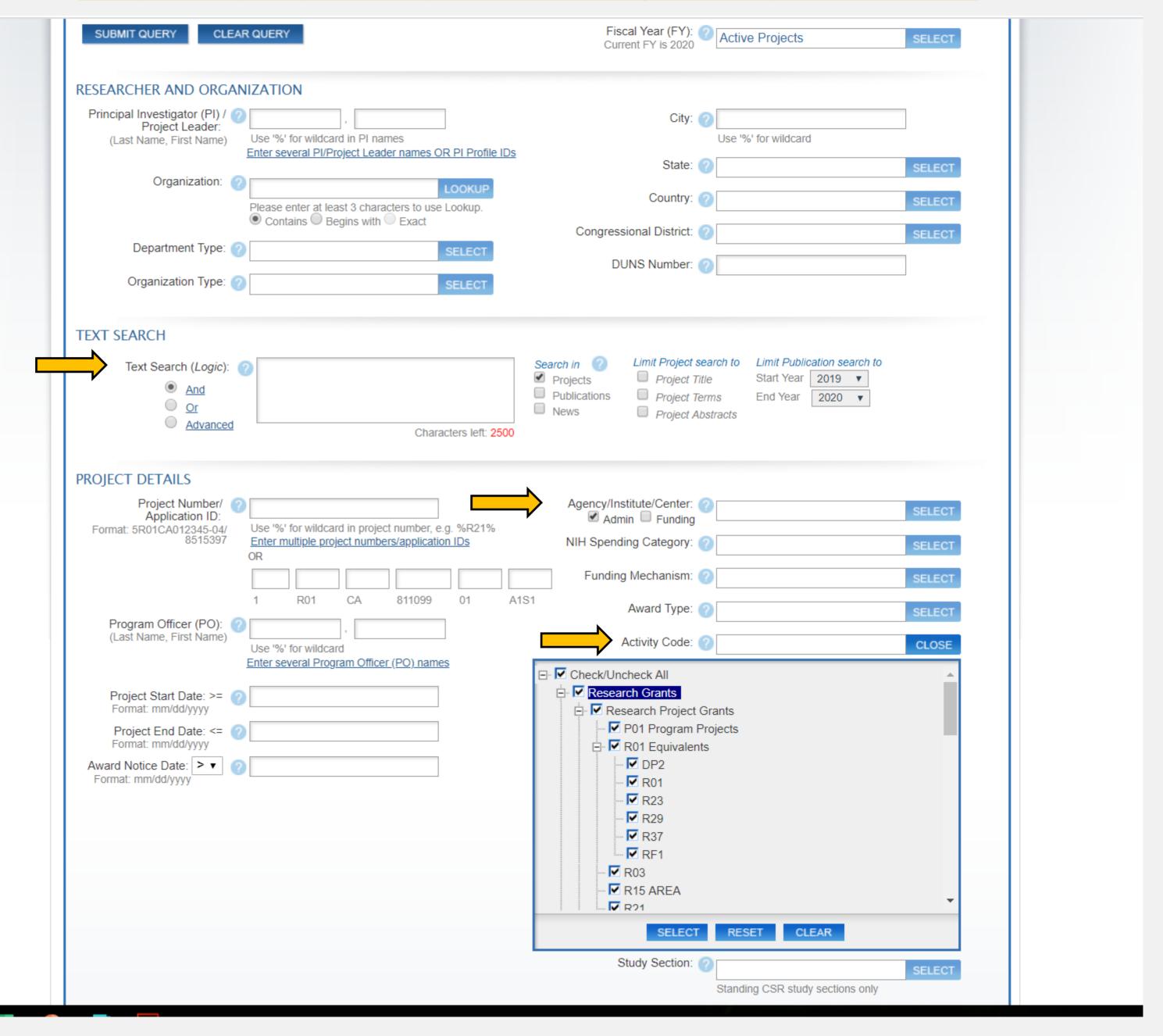
FIND YOUR RO1 FIT

- Inderstand NIH: Finding the Right Fit for Your Research
- Use NIH websites and tools to understand the mission, priorities and goals of the IC and find those that might be relevant to your research
- I Search NIH Guide for Grants and Contracts to Identify the specific grant programs offered by each IC.
- Let <u>RePORTER</u> and <u>Matchmaker</u> tools help you identify similar work, appropriate IC, study section and funding mechanism
- Use the NIH Guide or the career stage-specific websites to identify appropriate FOAs



NIH REPORTER

https://projectreporter.nih.gov/reporter.cfm

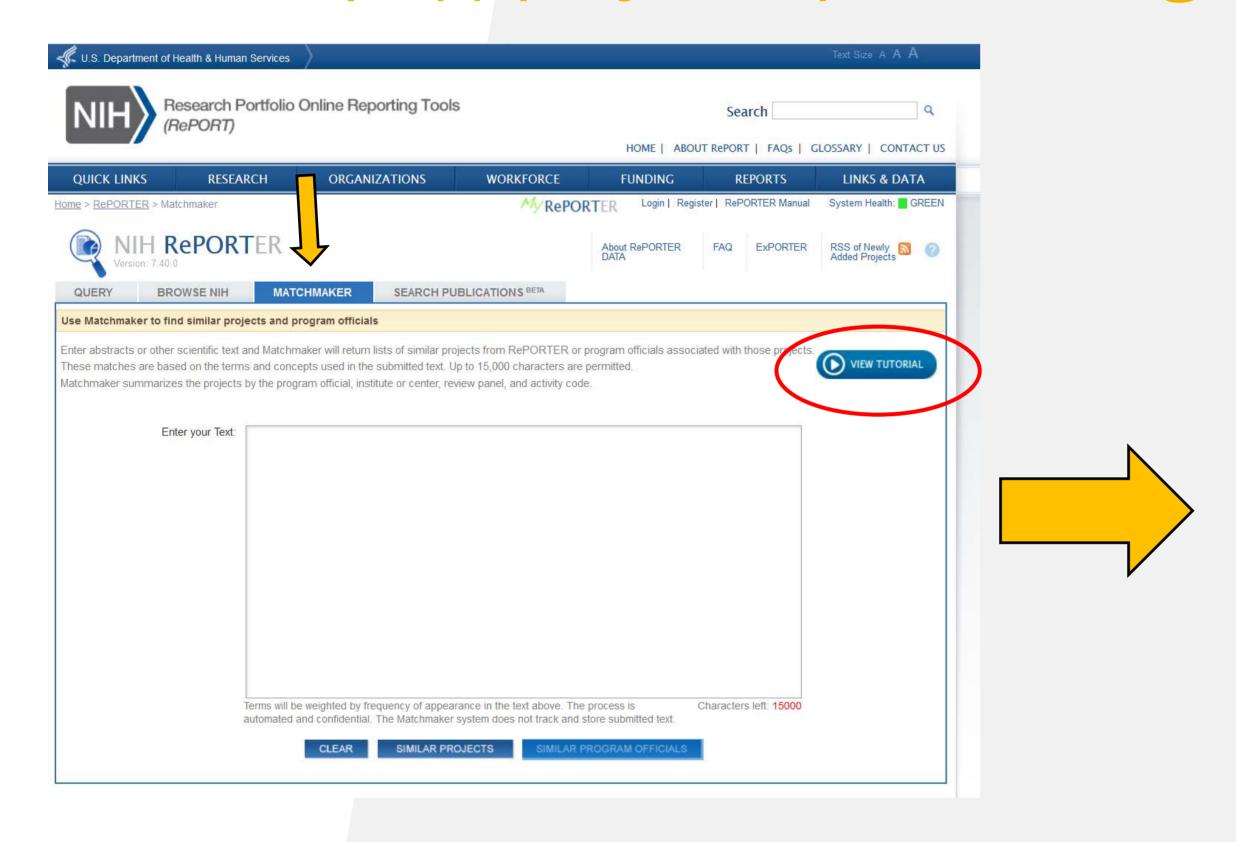




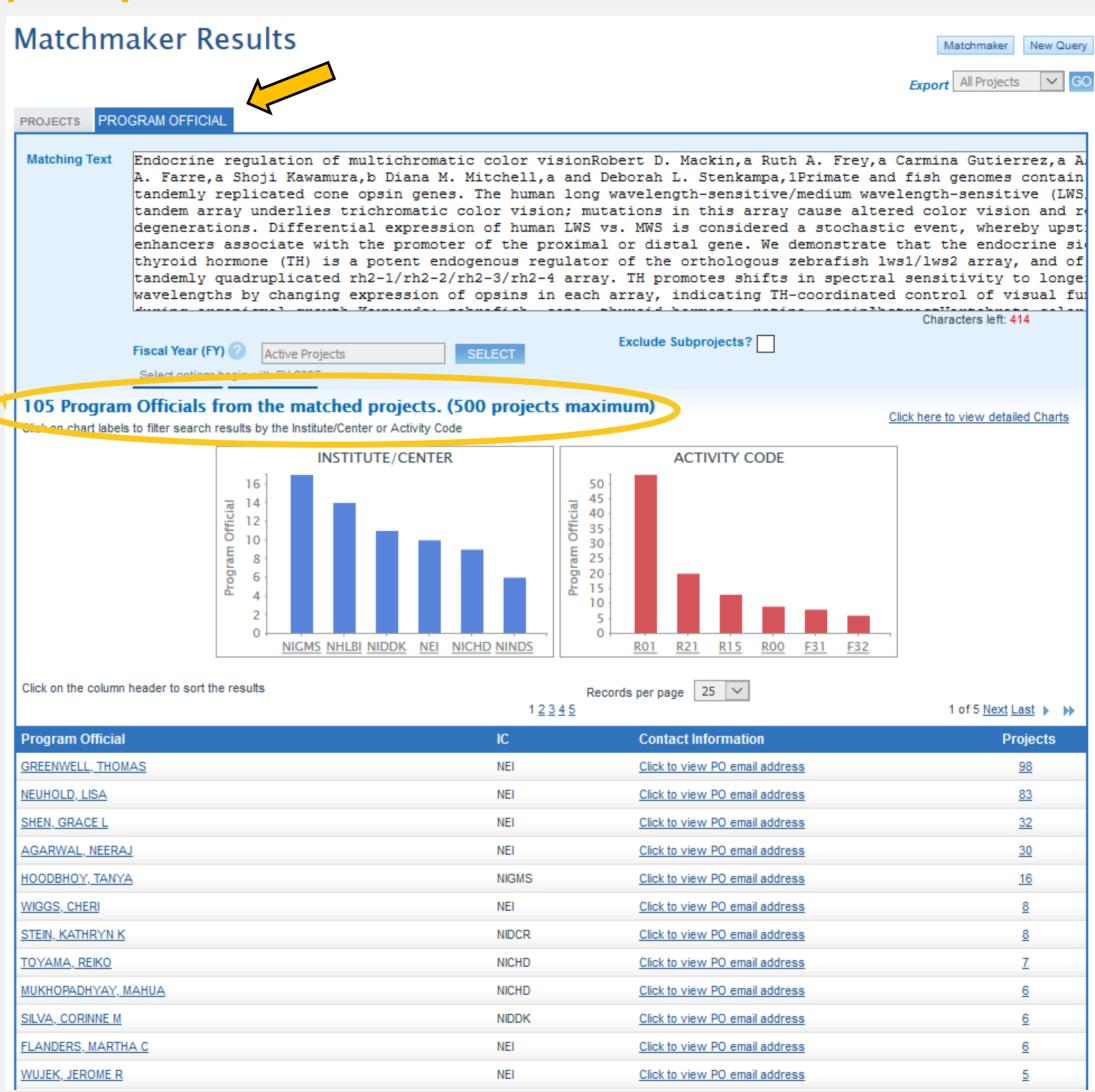


NIH AWARD DATA: MATCHMAKER

https://projectreporter.nih.gov/reporter_matchmaker.cfm



Enter ~6 pages of single-spaced text







ASK BEFORE ASSUMING

- I Talk with funded colleagues/mentors
- Contact an NIH Program Official before beginning to write
- I Study successful grant applications
 - Ask Investigator of funded proposal in your discipline
 - NIAID: R01 Sample Applications and Summary Statements
- Request help from RFD

REQUEST RFD SERVICES





FIND FUNDING OPPORTUNITIES

- I Search Guide to Grants and Contracts, Grants.gov, Pivot
 - Save customized searches
- **Subscribe** to NIH listserves, RSS feeds, Twitter,
 - Extramural Nexus: news, updates, blog posts, guide notices,
 - Open Mike blog: Michael Lauer, Deputy Director Extramural Res.
 - Weekly <u>Table of Contents</u> listserve



Grants (NIH Guide to Grants and Contracts)

The NIH Guide for Grants and Contracts is our official publication for NIH grant policies, guidelines and funding opportunities. We publish daily, and issue a table of contents weekly. Learn more about the NIH Guide and subscribe today!

View all Parent Announcements

(for unsolicited applications)

Search for funding opportunities and notices





TYPES OF FOA

- Parent announcements
- I Program Announcements
- Requests for Applications

Types of Funding Opportunity Announcements (FOAs):

Type of FOA	Description				
Parent Announcements	 Broad FOAs allowing applicants to submit an investigator-initiated application for a specific activity code Many NIH institutes and centers (IC) participate Usually ongoing (3 yrs) Use standard due dates List of Parent Announcements 				
Program Announcements (PAs)	 FOAs issued by one or more Institutes and Centers to highlight areas of scientific interest Encourage applications for a new or ongoing program Usually ongoing (3 years) Use standard due dates Types of PAs: PAS: with set-aside funds PAR: special receipt, referral, and/or review considerations Note: There is growing use of "Notices of Special Interest", rather than topic-specific PAs, to highlight areas of scientific interest. The notices designate existing FOAs to use for application submission. 				
Requests for Applications (RFA)	 FOAs issued by one or more Institute or Center to highlight well-defined areas of scientific interest to accomplish specific program objectives (Make sure the science you are proposing fits the scope of the RFA!) Indicate the amount of set-aside funds Indicate anticipated number of awards Usually single due date Institute/Center usually convenes review panel 				





THREE PARENT ANNOUNCEMENTS

Activity Code(s)	Title	Announcement Number	Issuing Organization	Release Date	Opening Date (SF424 Only) ?	Expiration Date
R01	NIH Research Project Grant (Parent R01 Basic Experimental Studies with Humans Required)	PA-19-091	NIH	11/28/2018	01/05/2019	01/08/2022
R01	Research Project Grant (Parent R01 Clinical Trial Required)	PA-19-055	NIH	11/05/2018	01/05/2019	01/08/2022
R01	Research Project Grant (Parent R01 Clinical Trial Not Allowed)	PA-19-056	NIH	11/05/2018	01/05/2019	01/08/2022





CLINICAL TRIAL DESIGNATION

If you are doing human research, use the <u>clinical trial tool</u> to determine whether NIH considers any of your studies a clinical trial.

SPECIFIC AIM	CLINICAL TRIALS REQUIRED	CLINICAL TRIALS OPTIONAL	NOT ALLOWED	
AIM #1 - NOT A TRIAL AIM #2 - NOT A TRIAL	NO	YES	YES	
AIM #1 - IS A TRIAL AIM #2 - IS A TRIAL	YES	YES	NO	
AIM #1 - NOT A TRIAL AIM #2 - IS A TRIAL	YES	YES	NO	



RO1 RESEARCH PROJECT GRANT



you apply to the right grant program for

As and her source

- Take a tour of an annotated FOA for tips and key information.
 - I/Cs participating
 - Basic/clinical designations
 - Award amounts
 - Specific due dates
 - Section IV program-specific instructions

Follow the tips in the blue boxes below to help you understand the importance of key pieces of information in funding opportunity announcements (FOA).

Department of Health and Human Services Part 1, Overview Information

Participating Organization(s)	National Inditates of Health (NRY Your research has to fit within the mession of one of these participating organizations for your application to
Components of Perficipating Organinations	National Institute on Aging (NA) National Institute on Acohol Alone and Acoholous (NEAAA) National Institute of Along and Infectious Ciscoses-(NAAA) National Institute of Along and Musculoseses (NAAA) National Institute of Arthritis and Musculoseses and Skin Diseases (NAAA) National Institute of Environmental Heath Sciences (NEAA) National Institute of Cemeral Medical Sciences (NEAA) National Institute of General Medical Sciences (NEAA) National Institute of Memory Medical Sciences (NEAA)
	National Institute of Neurological Disorders and Stroke (NEOCO) National Institute of Neurological Disorders and Stroke (NEOCO) National Center for Comprenentary and Integrative Health (NECO) Note: Not all Nitri Institutes and Centers (ICs) perficipale in
Most Titles; include activity is clinical trial information.	Parent Announcements. Applicants should carefully note which ICs participate in this announcement and view their respective areas of research interest at the 801 Chical Fox Required IC. Specific Scientific Interests and Contact website Applicants should also carefully note which Cs accept only mechanistic wing the Reliated Notices. ICs that do not participate ancoment will not consider applications for funding.
Funding Opportunity Title	NIH Research Project Grant (Parent RO1 Clinical Trial Required)
Arthythy Cauta	FIG.1 Research Project Court 97970 program that is being advertised

(Understanding Funding Opportunity Amountoments: Pls 58:565.)



PREPARE TO APPLY: MAIN PARTS



- Project Summary/Abstract
- Project Narrative
- Specific Aims (1 page)
- Research Strategy (12 pages)
 - Significance
 - Innovation
 - Approach
- Bibliography
- Budget/Budget justification
- Equipment
- Biosketches
- Application forms (PHS; SFS424 (R&R)



OTHER CONSIDERATIONS



- I Human subjects research
 - IRB approval, includes CITI certification
- Other research plan section:
 - Vertebrate animal research
 - Select agent research
 - Multiple PD/PI Leadership plan
 - Letters of support
 - Resource sharing plan
- Biosketches
 - 5 page, NIH format, SciEnCV tool
- Propose your best and most creative ideas





R01 REVIEW CRITERIA

- Main review components of an R01
 - Significance
 - Investigator
 - Innovation
 - Approach
 - Environment
- Keep review criteria in mind when planning and writing your proposal
- Next week's FSS: NIH: Understanding Proposal Review





APPLY AND SUBMIT

FOLLOW INSTRUCTIONS

- I General Application Guide for NIH and Other PHS Agencies
 - Follow grant application forms and instructions outlined in the application guide and the FOA
 - Current forms are SF424 (R&R) Version E
 - NEW Version FORMS-F for due dates on or after May 25, 2020
- Work with the Office of Sponsored Programs and your SPA
- Submit using ASSIST



Use NIH resources for help



http://grants.nih.gov



Search

eRA | N

HOME	ABOUT GRANTS	FUNDING	POLICY & COMPLIANCE	NE

Home » About Grants » Get Started

ABOUT OER

ABOUT GRANTS

Grants Process Overview

Get Started

Learn the Basics

Plan Your Application

How to Apply

Application Referral and Review

Pre-Award and Post-Award Processes +

Forms Library

Information For

Get Started

Sometimes the hardest part of any effort is getting started. Let us orient you to how NIH works, and the basics of planning your application.



Learn the Basics

Before getting started, learn how NIH is structured (and why that's important), our approach to grant funding, the types of organizations and people eligible to apply, what we look for in a research project, and the types of grant programs we offer.



Plan Your Application

Plan ahead and prepare to get an edge in this highly competitive process. Figure out the early issues, such as picking the right grant type, determining if you need prior approval from NIH to apply, planning within your organization, considering implications





PREPARE YOUR APPLICATION RESOURCE: NIH GRANTS AND FUNDING APPLICATION INSTRUCTIONS

How to Apply – Application Guide

Prepare to Apply

- Systems and Roles
- Register
- Understand Funding Opportunities
- Types of Applications
- Submission Options
- Obtain Software

Write Application

- Write Your Application
- Find Forms
- Develop Your Budget
- Format Attachments
- Rules for Text Fields
- Page Limits
- Data Tables
- Reference Letters
- Biosketches

Submit

- Submit, Track, and View
- How We Check for Completeness
- Changed/Corrected Applications
- Due Dates
- Submission Policies
- Dealing with System Issues





PREPARE YOUR APPLICATION

RESOURCE: APPLY FOR A GRANT TUTORIAL - NIAID

- Prepare your application
- I Draft Specific Aims
- I Outline your experiments
- I Know your audience
- Write your research plan
- I Plan your budget and personnel
- Additional application elements (data tables, letters, biosketches)
- I Submit and application



TOOLS/RESOURCES



- Grants Process Overview
 - NIH Grants Process video
 - How to choose the right FOA video
 - Plan, write and submit an application website
- Early Stage Investigator (ESI) Policies
- Biosketch: Looking for help developing your biosketch?
- Award tools:
 - RePORTER
 - MyRePORTER Video <u>Tutorial</u> (6:35)
 - Matchmaker
- RFD Proposal Development Resources (checklists, Steps for your R01 instructions)





LET'S ASK OUR EXPERT

DR. EVA TOP

- What to know before applying for an R01
 - Special considerations?
 - Common mistakes?
 - Biggest hurdles?
 - Tips for shaping your research plan
- Advice to early career Pls
- Other considerations



UI/CTR WORKING GROUP

JOIN THE LISTSERVE

- For those interested in clinical translational research
- I Facilitate connections, data collection/sharing and collaborations between researchers and clinicians in Idaho
- Join the listserve
 - Email whessler@uidaho.edu
 - In subject line: UI/CTR List ADD



https://www.webpages.uidaho.edu/webteam/research/rfd-faculty-success-seminars-postcard.pdf





FALL 2019

- Sept. 4 HERC IGEM Info Session
- Sept. 11 Find Funding Opportunities: Introto Pivot
- Sept. 25 NSFCAREER All Year: An Introduction
- Oct. 2 W.M. Keck Foundation Info Session
- Oct. 16 Tips for Successful Proposal Writing
- Oct. 23 NSF CAREER All Year: Getting Started
- Oct. 30 Exploring Humanities Funding Opportunities
- Nov. 13 MW CTR-IN Funding Opportunities
- **Nov. 20** NSF CAREER All Year: Integrating the Research and Education Plans
- Dec. 11

 M.J. Murdock Trust Commercialization
 Initiation ProgramInfo Session

SPRING 2020

- Jan. 22 Developing Successful Project Management Plansfor Large Proposals (Rescheduled Apr 15)
- **Feb. 5** NSF: Broader Impacts Really Do Matter!
- **Feb. 12** NIH: Funding Mechanisms Overview (R03, R21, R01)
- **Feb.19** NIH: Developing Your First RO1 Proposal
- Mar. 4 NIH: Understanding Proposal Review
- Mar. 11 NSF: Understanding Proposal Review
- Mar. 25 Fulbright Faculty Scholar Program Info Session
- **Apr. 1** Find Funding Opportunities: Intro to Pivot
- **Apr. 8** NSF MRI: Creating Competitive Proposals
- Apr. 15 Developing Successful Project Management Plansfor Large Proposals



WE GUIDE THE DEVELOPMENT OF COMPETITIVE EXTERNAL GRANT PROPOSALS Office of Research and Faculty Development

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Email: ored-rfdteam@uidaho.edu

pment Website: uidaho.edu/orfd

THANK YOU FOR COMING!



QUESTIONS?

BEFORE YOU GO...

Please take a brief 3-question sli.do poll

www.slido.com or use the sli.do app

Use code #FSS

