CAIRIBU ARTICS Community Forum

Fundamentals of the NIH Grants Process

Chris Mullins, PhD

Director of Cell Biology Programs in Urologic and Kidney Disease

Project Scientist for the NIDDK Urology Centers Program

Division of Kidney, Urologic and Hematologic Diseases (KUH)

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

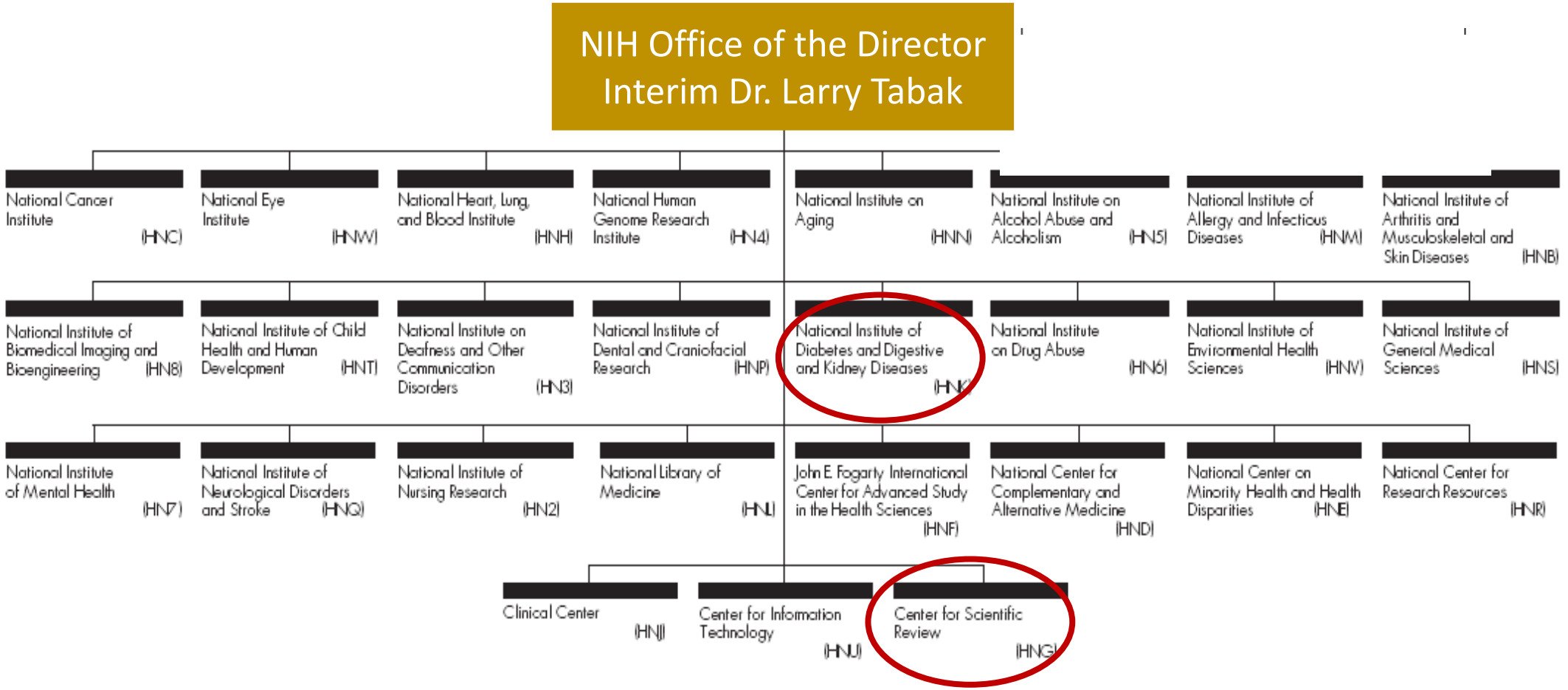
National Institutes of Health (NIH)

NIH National Institute of Diabetes and Digestive and Kidney Diseases

NATIONAL INSTITUTES OF HEALTH

DEPARTMENT OF HEALTH & HUMAN SERVICES · USA

NIH Comprises 27 Institutes and Centers



National Institute of Diabetes and Digestive and Kidney Diseases

NIDDK "Extramural" Scientific Divisions

Office of the Director
Griffin Rodgers, MD

Division of Diabetes, Endocrinology, and Metabolic Diseases

MISSION: Basic and clinical research in the areas of type 1 and type 2 diabetes and other metabolic disorders, including cystic fibrosis; endocrinology and endocrine disorders; obesity, neuroendocrinology, and energy balance; and development, metabolism, and basic biology of liver, fat, and endocrine tissues. DEM also supports training and career development in these areas.

Division of Digestive Diseases and Nutrition

MISSION: Research related to digestive diseases, including the alimentary tract, liver and pancreas, nutrition and obesity. The programs include basic, translational and clinical research, research training, and career development. DDN also promotes public awareness and education for these areas.

Division of Kidney, Urologic, and Hematologic Diseases

MISSION: Basic, translational, and clinical research of the kidney, urinary tract, and disorders of the blood and blood-forming organs, as well as training and career development in these areas.

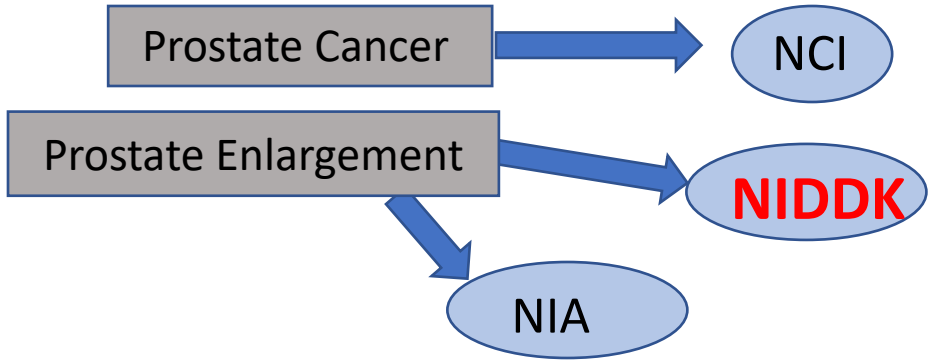
Non-Cancer Urologic Disorders
Benign prostatic hyperplasia, urinary incontinence, urinary tract infections, stone disease, erectile dysfunction, urologic chronic pelvic pain syndrome (including interstitial cystitis and chronic prostatitis), congenital urologic disorders, repair and regeneration of lower urinary tract organs, and normal and abnormal lower urinary tract development and physiology.

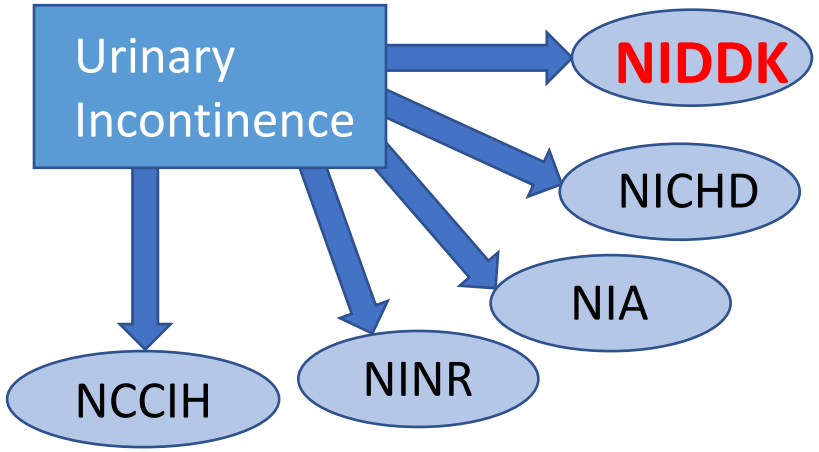
NIH National Institute of Diabetes and Digestive and Kidney Diseases

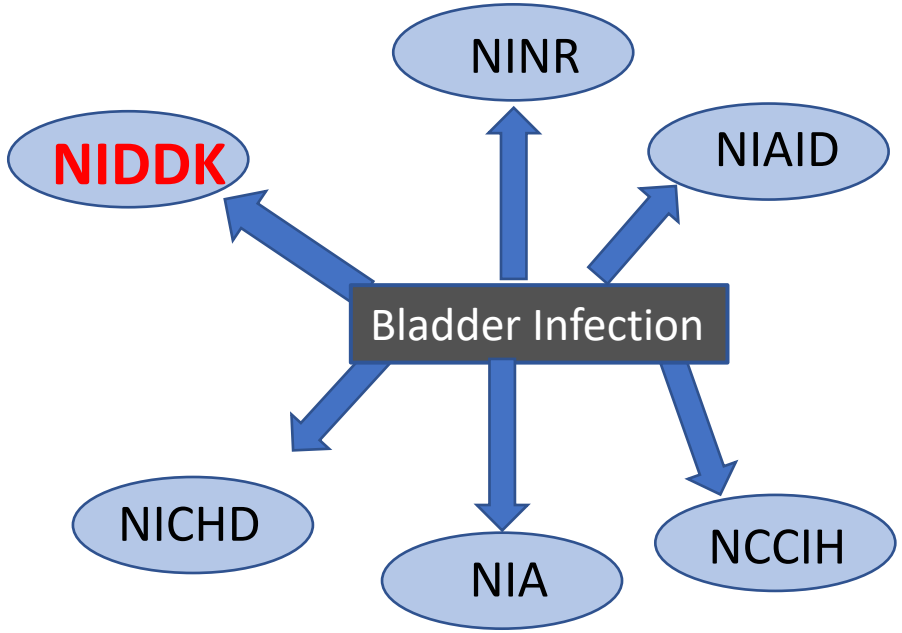
National Institutes of Health

Department of Health & Human Services USA

Urology Research is a Shared Interest Between Numerous NIH Institutes

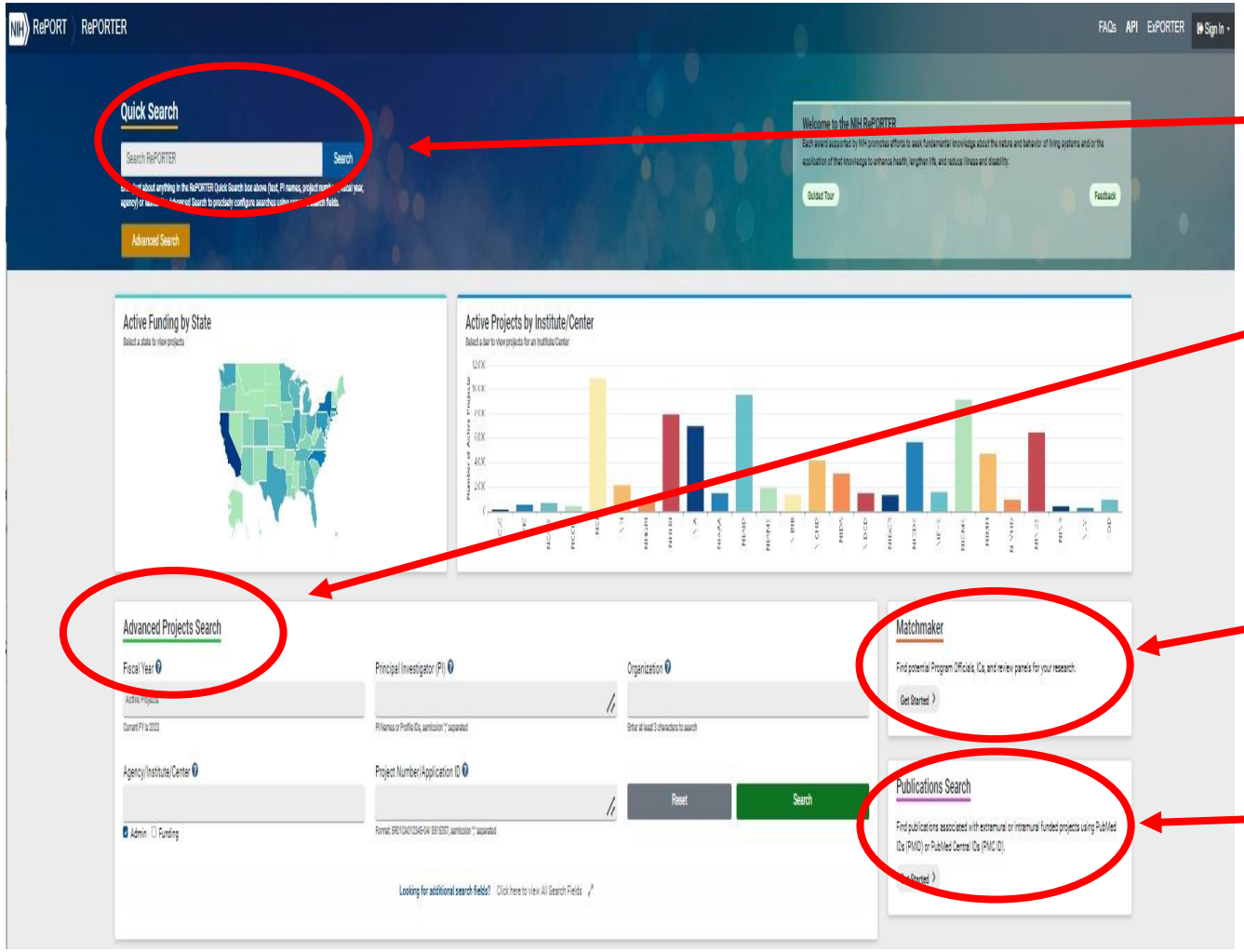






National Institute of Diabetes and Digestive and Kidney Diseases

NIH RePORTER: Identify Similar Funded Projects, NIH Institutions, Staff, and *MORE!*



Quick Search – Find NIH funded projects using just about any keyword!

Advanced Project Search – Identify supported NIH research studies and associated information

NIH Matchmaker – Identify NIH Staff, Projects, Funding Institutes, etc

Publications Search – Identify publications associated with funded NIH studies

NIH Reporter: https://reporter.nih.gov/

Seeking NIH Support? You'll Need The Right Tools

- Skillset
- Mentors/advisors
- Niche
- Realistic timeline
- Perseverance
- Information

What, Who, Where, When, How???

NIH On-Line Resources for Getting Started

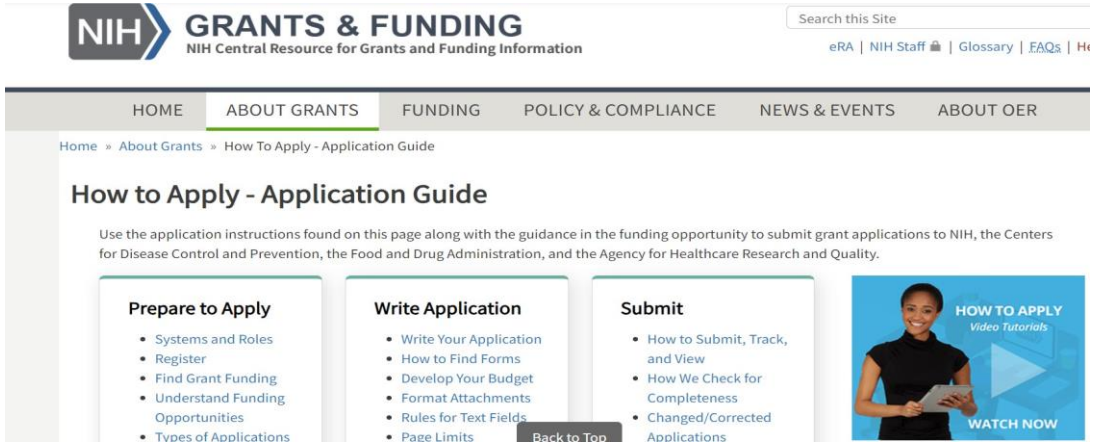
NIH GRANTS & FUNDING
NIH Central Resource for Grants and Funding Information

NIH Grants and Funding Home Page
https://grants.nih.gov/

One-stop site for information about NIH application, review, and award process

Links to navigate to all steps, funding policies and history, key resources, etc

https://grants.nih.gov/grants/about_grants.htm



https://grants.nih.gov/grants/how-to-apply-application-guide.html

A Few Research Award Types to Consider (And Some Acronyms You May Encounter)

R01: "Gold standard" hypothesis-driven, investigator-initiated

R21: Small grant for innovative research

P Series and U54: Exploratory and Specialized Centers grants *(mostly)*

Others: U01, RC2, U24, R13, R15, STTR/SBIRs, etc…

Types of NIH Grants: https://grants.nih.gov/grants/funding/funding_program.htm

FOA – Funding Opportunity Announcement (solicits applications for specific purposes)

*(New Term **NOFO** – Notice of Funding Opportunity)*

RFA – Request for Applications (funds and special review)

PA – Program Announcement (no funds or special review)

PAR – Program Announcement w/ Referral/Review (special review)

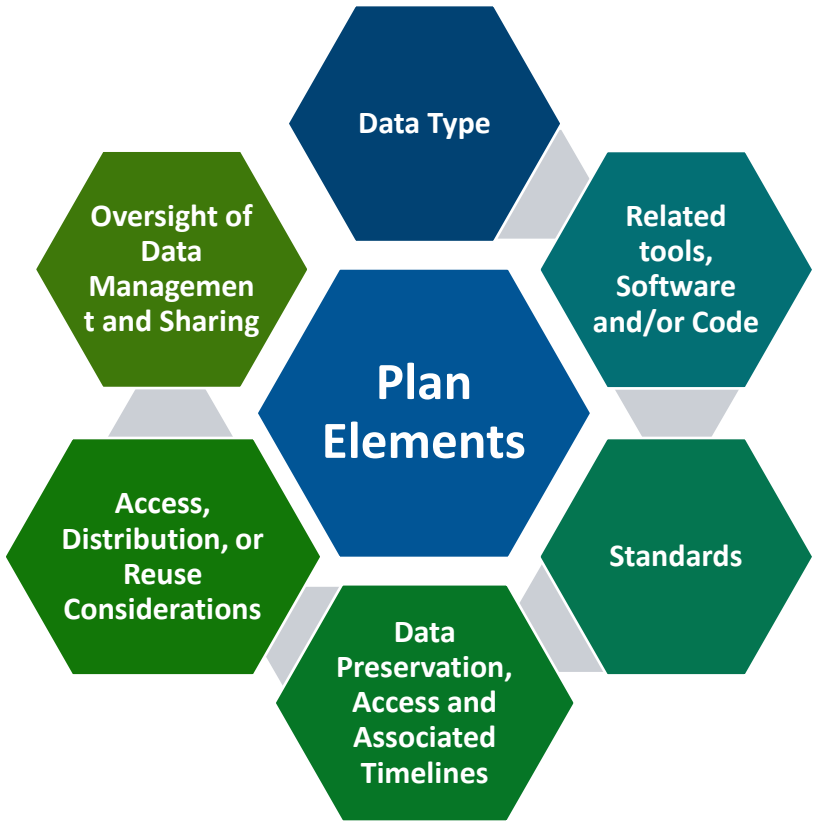
PAS – Program Announcement w/ Set-aside (some available funds)

FOA Type	Issuing NIH Institute	Year	ID #
RFA	DK	23	006

NOTICE - Official NIH announcement relating to a change in policy, procedure, etc

READ Funding Announcements Carefully for Key Dates, Eligibility, Scientific Scope, Budget and Review Considerations, etc!!

NEW NIH Data Management and Sharing Policy



- **Data type**
  - Identifying data to be preserved and shared
- **Related tools, software, code**
  - Tools and software needed to access and manipulate data
- **Standards**
  - Standards to be applied to scientific data and metadata
- **Data preservation, access, timelines**
  - Repository to be used, persistent unique identifier, and when/ how long data will be available
- **Access, distribution, reuse considerations**
  - Description of factors for data access, distribution, or reuse
- **Oversight of data management and sharing**
  - Plan compliance will be monitored/ managed and by whom

For Background See:
https://sharing.nih.gov/data-management-and-sharing-policy

For Developing Your DMS Plan See:
Writing a Data Management & Sharing Plan

Grants Subject to the DMS Policy

APPLIES TO…

All research generating scientific data, including but not limited to:

- Research Projects
- Certain Career Development Awards (Ks)
- Small Business SBIR/STTR
- Research Centers

DOES NOT APPLY TO…

Research projects <u>not</u> generating scientific data or non-research projects, including but not limited to:

- Training (Ts)
- Fellowships (Fs)
- Construction (C06)
- Conference Grants (R13)
- Resources (Gs)
- Research-Related Infrastructure Programs (e.g., S06)

See Research Covered Under the Data Management & Sharing Policy

Are You a New and Early Stage Investigator?

New Investigator (NI)

- PD/PI who has not yet competed successfully for a substantial NIH independent research award

Early Stage Investigator (ESI)

- PD/PI who qualifies as a New Investigator AND is within 10 years of completing the terminal research degree or is within 10 years of completing medical residency (or equivalent)
- Significant emphasis on supporting ESIs (e.g., funding considerations)

For Information on ESI Policy See: https://grants.nih.gov/policy/early-stage/index.htm

Assignment Request Form for NIH Institutes, Study Sections, and Reviewer Expertise

PHS Assignment Request Form

OMB Number: 0925-0001
Expiration Date: 2/28/2023

Funding Opportunity Number:

Funding Opportunity Title:

Awarding Component Assignment Suggestions *(optional)*

If you have a suggestion for an awarding component (e.g., NIH Institute/Center) assignment, use the link below to identify the appropriate short abbreviation (e.g., "NCI" for National Cancer Institute) and enter it below in the boxes for "Suggested Awarding Components". All suggestions will be considered; however, not all assignment suggestions can be honored.

Information about Awarding Component can be found here: https://grants.nih.gov/grants/phs_assignment_information.htm#AwardingComponents

Suggested Awarding Components:

Study Section Assignment Suggestions *(optional)*

If you have a suggestion for a study section assignment, use the link below to identify a study section(s). Enter the short abbreviation for that study section in the boxes for "Suggested Study Sections." Remove all hyphens, parentheses, and spaces. All suggestions will be considered; however, not all assignment suggestions can be honored.

For example, enter "CAMP" if you wish to suggest assignment to the NIH Cancer Molecular Pathobiology study section, or "ZRG1HDMR" if you wish to suggest assignment to the NIH Healthcare Delivery and Methodologies SBIR/STTR panel for informatics.

Information about Study Sections can be found here: https://grants.nih.gov/grants/phs_assignment_information.htm#StudySection

Suggested Study Sections:
Each entry is limited to 20 characters

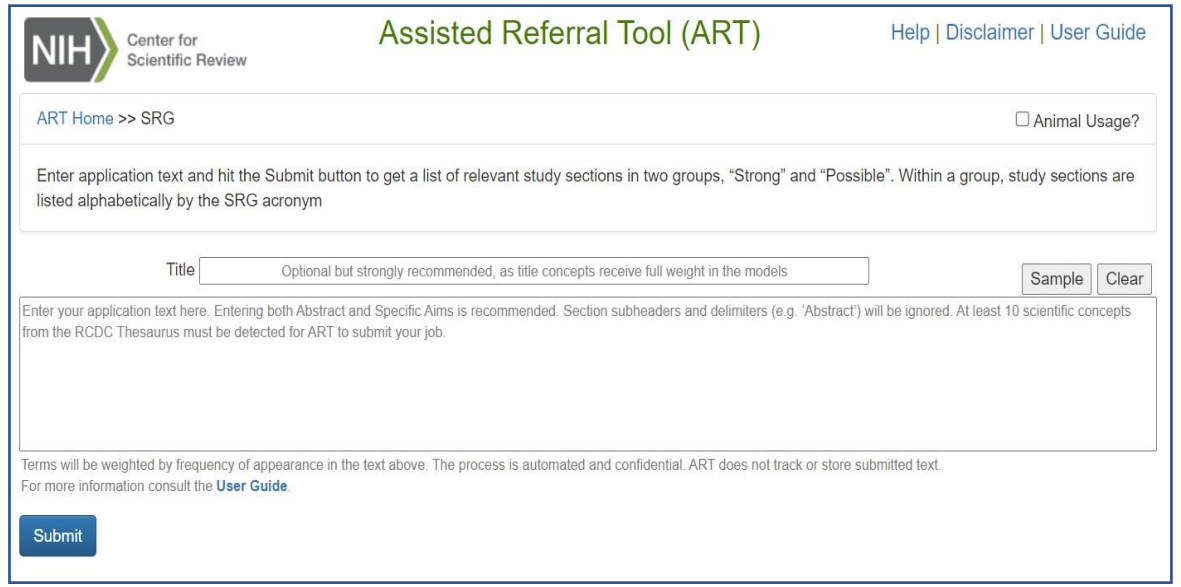
Rationale for assignment suggestions *(optional)* *Entry is limited to 1000 characters*

- OPTIONAL form for assignment requests
- Submitted at time of application submission
- Requests considered but may not be honored
- Seen only by the Center for Scientific Review (CSR)

For Detailed Info see:
https://public.csr.nih.gov/ForApplicants/SubmissionAndAssignment/RequestScientificReviewGroup

NIH Center for Scientific Review (CSR) Assisted Referral Tool

- Use the ART to recommend “potential” study sections for review of your application
- Search with your application title or text excerpts (e.g., Abstract)
- Output for mock “urinary microbiome study”
- Lists potential Study Sections by strength of match…”Strong” to “Possible”



Relevance	SRG	RB	Membership	Name
Strong	DHMI	KUDS	Roster	Digestive System Host Defense, Microbial Interactions and Immune and Inflammatory Disease
Strong	IMII	DCAI	Roster	Interspecies Microbial Interactions and Infections
Strong	KUFD	KUDS	Roster	Kidney and Urological Systems Function and Dysfunction
Possible	ASG	AN	Roster	Aging Systems and Geriatrics Study Section
Possible	BMHO	CCHI	Roster	Biobehavioral Medicine and Health Outcomes
Possible	HAI	IIDB	Roster	Hypersensitivity, Autoimmune, and Immune-mediated Diseases Study Section
Possible	KEDD	EPH	Roster	Kidney, Endocrine, and Digestive Disorders
Possible	MESH	BP	Roster	Biobehavioral Mechanisms of Emotion, Stress and Health Study Section

Assisted Referral Tool: https://art.csr.nih.gov/

Don’t Submit Your Application Late!

Start Early!

- Application must be accepted **TWICE**: Grants.gov and NIH
- **Submit BEFORE the Deadline**

Check eRA Commons for your submitted application

(e-mails are sent but can be caught in SPAM filters)

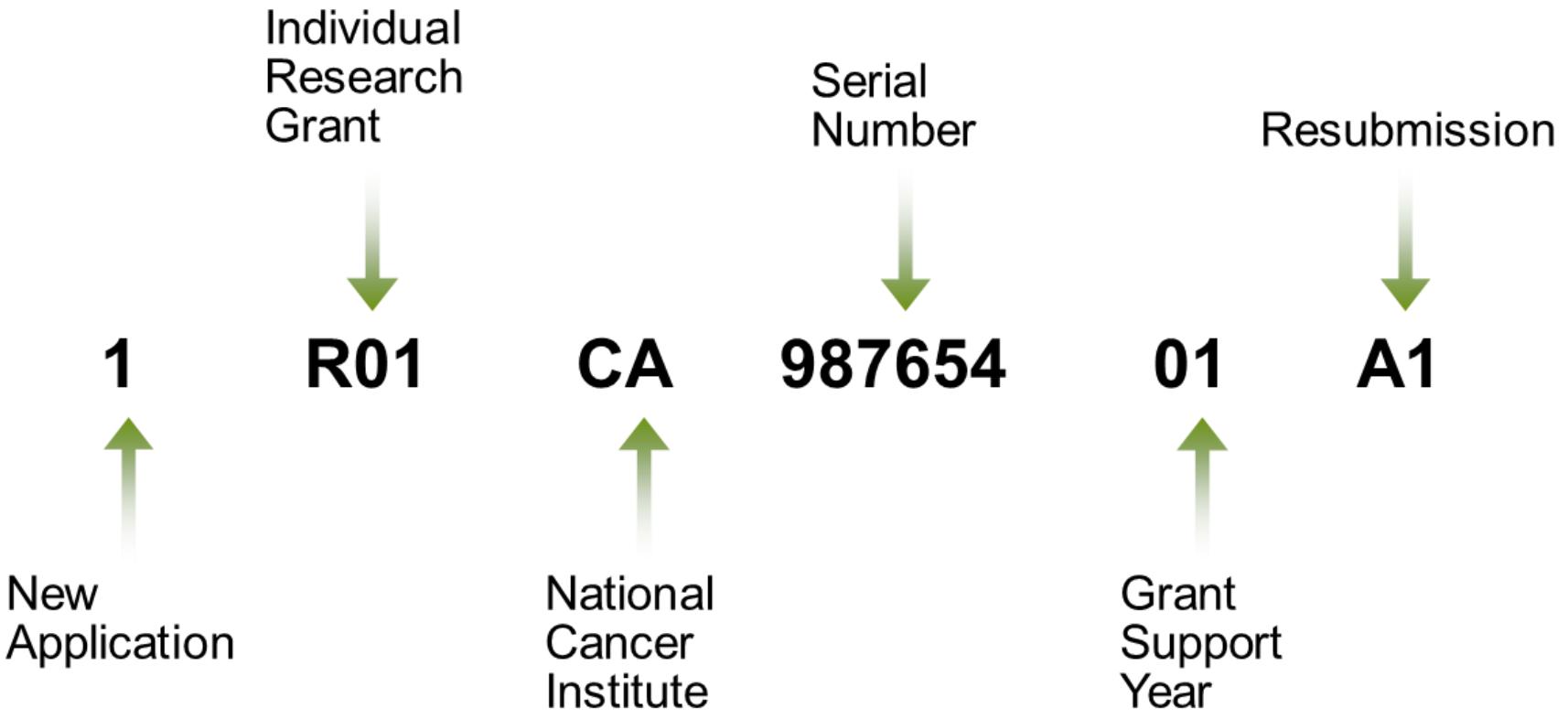
- High volume at deadlines slows processing/validation time
- On time application = submitted error-free by 5 PM local time on due date
- Errors cause rejection – Warnings are error-free and accepted
- **No error correction window beyond deadline**

NIH National Institute of Diabetes and Digestive and Kidney Diseases

National Institutes of Health

Department of Health & Human Services USA

Application Number: What do those Numbers and Letters Mean??



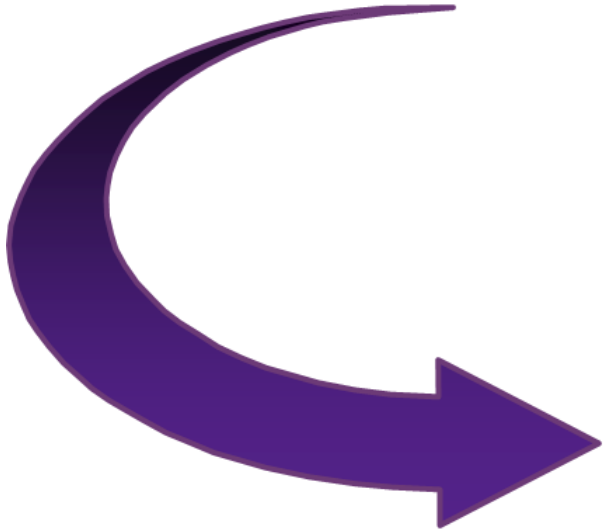
NIH National Institute of Diabetes and Digestive and Kidney Diseases

NIH Staff Roles in Life Cycle of a Grant

Stages of Grant	Program Officer	Scientific Review Officer	Grants Management Specialist
Grant Preparation			
Grant Submission			
Grant Review			
Summary Statement			
Grant Revision			
Grant is Funded			

National Institute of Diabetes and Digestive and Kidney Diseases

NIH Peer Review System for Grant Applications



First Level of Review

Scientific Review Group
(Study Section)

Second Level of Review

NIH Institute/Center Council

National Institute of Diabetes and Digestive and Kidney Diseases

Before the Study Section Meeting

- Each application is assigned to 3 or more reviewers 5-6 weeks in advance

- Reviewers assess each application by providing:
  - ✓ A preliminary Overall Impact score
  - ✓ Criterion Scores for each of the 5 Core Review Criteria
  - ✓ A written critique

At the Study Section Meeting

Order of Review

- Applications to be discussed are reviewed in random order

Clustering of Review

- New Investigator R01 applications are clustered
- Clinical applications and other award types may be clustered

Not Discussed Applications

- Approx half (top half) of the applications are discussed
- Applications unanimously judged by the review committee to be in the lower half are not discussed

NIH National Institute of Diabetes and Digestive and Kidney Diseases
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Standard Review Criteria

5 Scored Review Criteria:

- **Significance**
- **Investigator(s)**
- **Innovation**
- **Approach**
- **Environment**

Each scored from 1-9

Overall Impact

Assessment of the likelihood for the project to *exert a sustained, powerful influence on the research field(s) involved*

Scored from 1-9 (NOT calculated from Criteria scores)

New Review Criteria under consideration:

https://nexus.od.nih.gov/all/2022/12/08/update-on-simplifying-review-criteria-a-request-for-information/

Factor 1: Importance of the Research (Significance, Innovation), numerical score (1-9)
Factor 2: Rigor and Feasibility (Approach), numerical score (1-9)
Factor 3: Expertise and Resources (Investigator, Environment)

Post Review: Your Summary Statement Face Page

Program Officer

Impact/Priority Score 10-90 range

Check Codes and Final Administrative Notes for Administrative Issues or Concerns to Resolve

Percentile in whole numbers

Indicator for Early Stage Investigators/New Investigator eligibility

SUMMARY STATEMENT
(Privileged Communication)

PROGRAM CONTACT:
Austin Yang
301.496.9350
yangj13@mail.nih.gov

Release Date: 02/05/2019
Revised Date:

Application Number: 1 R01 AG

Principal Investigator

Applicant Organization:

Review Group: CMND
Cellular and Molecular Biology of Neurodegeneration Study Section

Meeting Date: 01/31/2019
Council: MAY 2019
Requested Start: 07/01/2019

RFA/PA: PA18-484
PCC: 3BSETAY

Project Title:

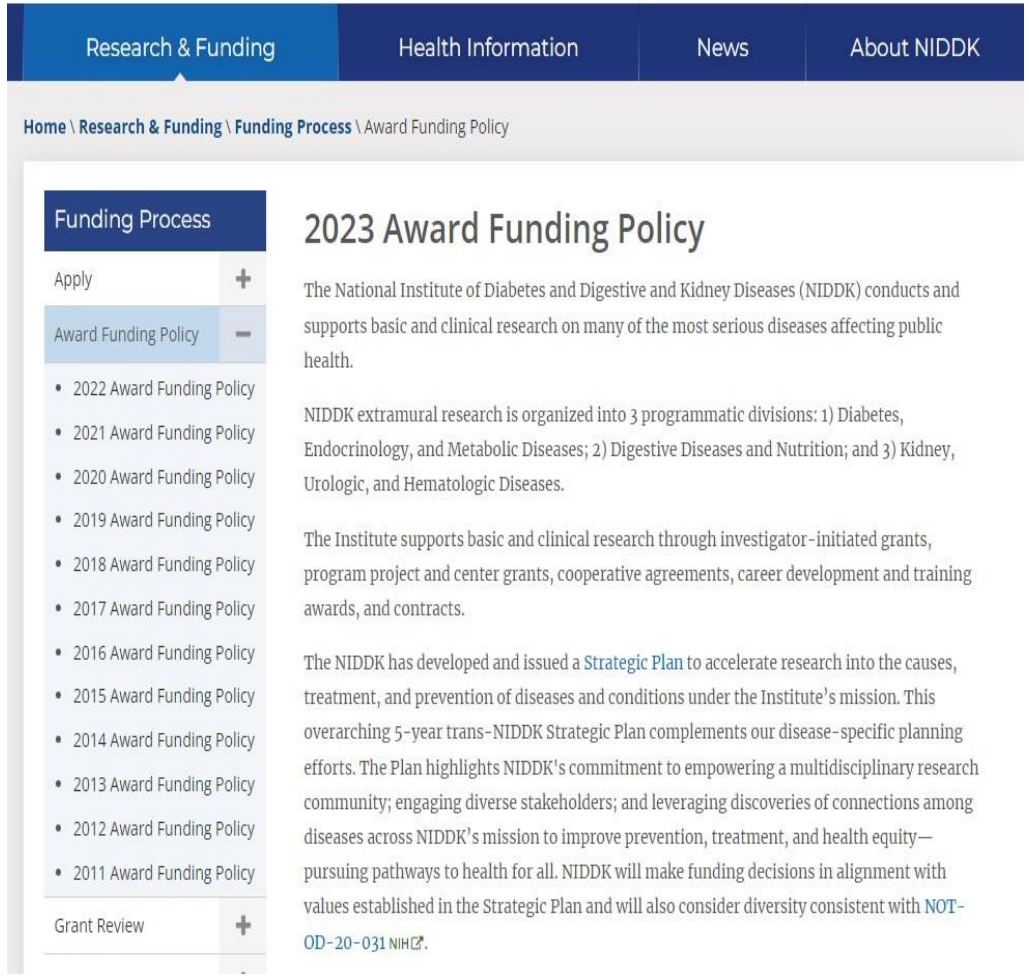
SRG Action: Impact Score:34 Percentile:13
Next Steps: Visit https://grants.nih.gov/grants/next_steps.htm
Human Subjects: 10-No human subjects involved
Animal Subjects: 30-Vertebrate animals involved - no SRG concerns noted

Project Year	Direct Costs Requested	Estimated Total Cost
1	349,997	564,629
2	350,802	565,928
3	361,871	583,785
4	387,212	624,666
5	384,834	620,830
TOTAL	1,834,716	2,959,839

ADMINISTRATIVE BUDGET NOTE: The budget shown is the requested budget and has not been adjusted to reflect any recommendations made by reviewers. If an award is planned, the costs will be calculated by Institute grants management staff based on the recommendations outlined below in the COMMITTEE BUDGET RECOMMENDATIONS section.

EARLY STAGE INVESTIGATOR
NEW INVESTIGATOR

Will I be Funded?



NIDDK Funding Policies are posted every Fiscal Year

Most applications (e.g., R01s) are funded based on established "Pay Lines" (reviewed applications are usually ordered based on percentile scores). Sometimes we can "reach" beyond the Pay Line to make limited, discretionary awards

Funding decisions for many award types are impacted by other criteria (e.g., specifics of the solicitation)

All funding decisions involve multiple levels of review and a final review by the NIDDK Advisory Council

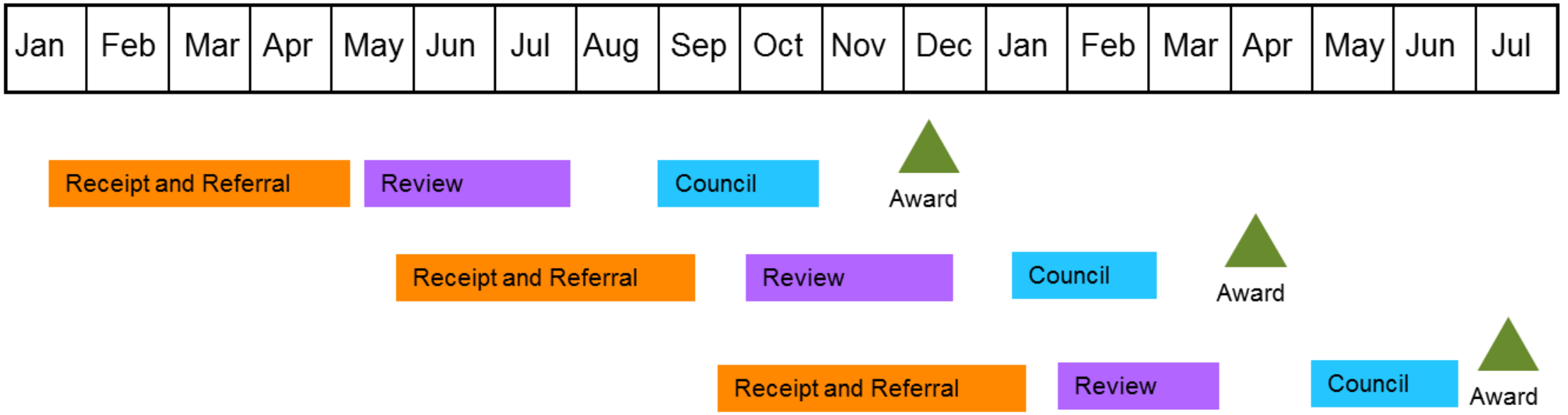
NIDDK 2023 Award Funding Policy: https://www.niddk.nih.gov/research-funding/process/award-funding-policy

“General” Timeframe from Submission to Award

Three (Primary) Funding Cycles Per Calendar Year Anchored to Three Council Meetings

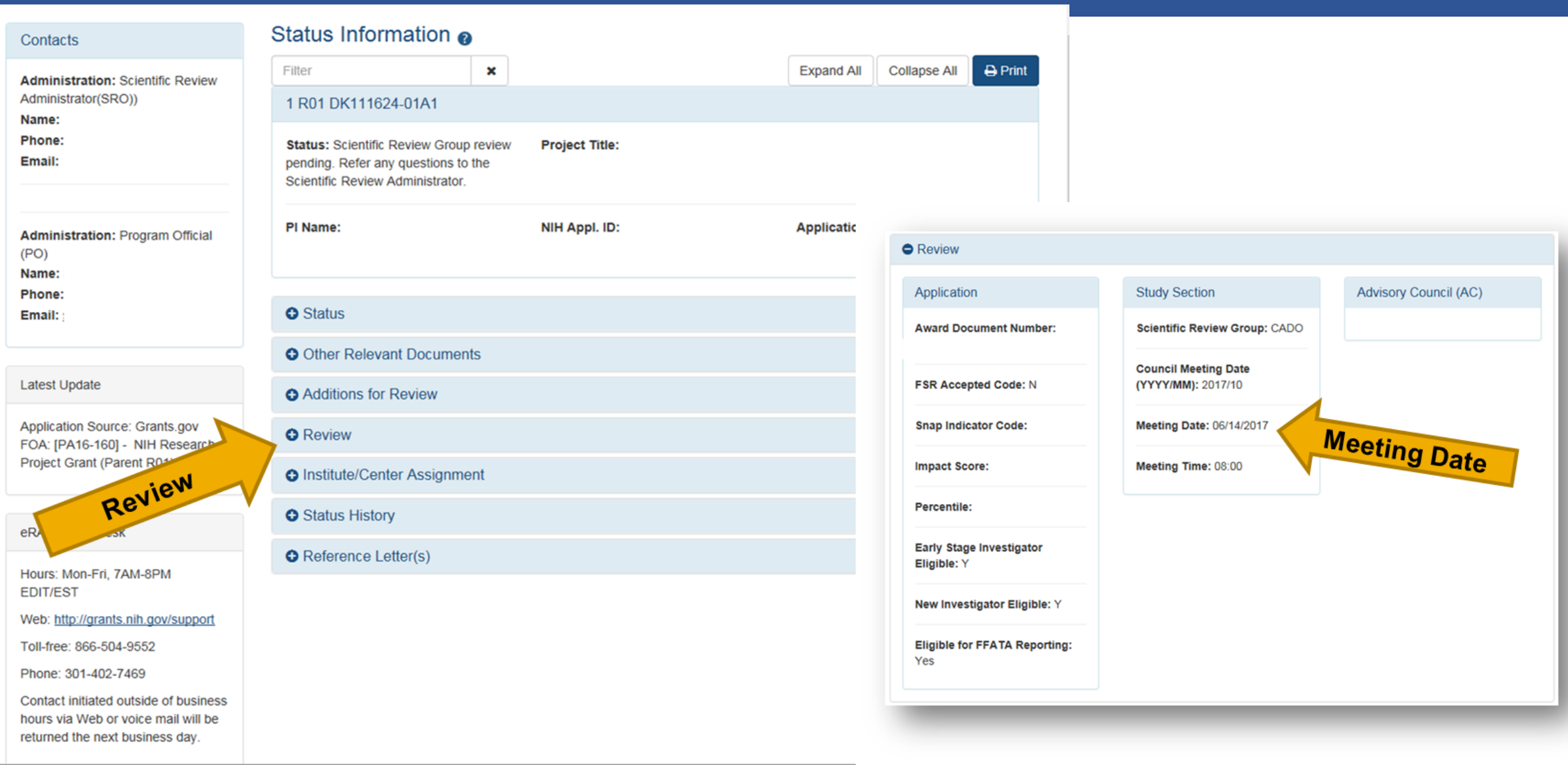
However, our FISCAL YEAR is October 1st through September 30th

(So FISCAL YEAR order is October, January, and May Council Rounds)



Application Due Dates/Timelines:
https://grants.nih.gov/grants/how-to-apply-application-guide/due-dates-and-submission-policies/due-dates.htm

Check Your Application Status in eRA Commons



What if You're *NOT* Funded: NIH Resubmission Policy (e.g., for a R01)

If your NEW Application (A0) is FUNDED then GREAT!
If your NEW Application (A0) is NOT FUNDED you may submit:

- A Revised Resubmission Application (A1) *or*
- A NEW Application (A0)

If the Resubmission Application (A1) is NOT FUNDED you must submit a NEW Application (A0)
(NOTE: The second Resubmission Application (A2) was eliminated)

NIH Will Not Accept:

- An A0 or A1 application that overlaps with a funded application
- Simultaneous submissions of overlapping applications
- An A0 or A1 application before NIH issues the summary statement of an earlier, overlapping application

Resubmission FAQs: Many Scenarios and Requirements

http://grants.nih.gov/grants/policy/resubmission_q&a.htm

A Few Grant Writing Tips.....

- ✓ Know your audience: **Reviewers!**
  - Not ever reviewer is an expert on all aspects of your proposal
  - Make the job of reading your application easy (e.g., Figure size, white space, etc)
- ✓ Ask collaborators and non-collaborators to pre-review the ideas/application (the more eyes the better; gather opinions) and **PROOF-READ**!
- ✓ Know your receipt date and work back to plan writing (i.e., not last minute)
- ✓ Late applications (even by a minute) are not accepted - so submit early!
- ✓ Write to meet the review criteria (especially true for a special FOA)
- ✓ Is it too ambitious? Match experiments to requested funds, award period, and expertise
- ✓ If in doubt discuss mission- and award-type fit, eligibility, and current policies with NIH Program Staff before submission (before writing!)
- ✓ Take advantage of the many NIH resources!

Select NIDDK Funding Opportunities

- **Small R01s for Clinical Trials Targeting Diseases within the Mission of the NIDDK (Clinical Trial Required)**
  - PAS-23-086 https://grants.nih.gov/grants/guide/pa-files/PAS-23-086.html
  - Pilot/Feasibility trial to inform a larger, future trial
  - Receipt dates for R01s into 2026
- **Stephen I. Katz Early Stage Investigator Research Project Grant (Clinical Trial Not Allowed)**
  - NOT-OD-23-174 https://grants.nih.gov/grants/guide/notice-files/NOT-OD-23-174.html
  - Innovative R01 Project representing a change of direction; NO preliminary data allowed
- **NIH Research Project Grant: "Parent R01" Announcements**
  - Default solicitations for R01s; Standard Receipt Dates
  - PA-20-183 https://grants.nih.gov/grants/guide/pa-files/PA-20-183.html
  - PA-20-184 https://grants.nih.gov/grants/guide/pa-files/PA-20-184.html
  - PA-20-185 https://grants.nih.gov/grants/guide/pa-files/PA-20-185.html

Select NIDDK Funding Opportunities

- **Catalytic Tool and Technology Development in Kidney, Urologic, and Hematologic Diseases (Clinical Trials Not Allowed)**
  - PAR-23-119 https://grants.nih.gov/grants/guide/pa-files/PAR-23-119.html
  - Receipt dates for R21s through 2024

- **Small Grants for New Investigators to Promote Diversity in Health-Related Research (Clinical Trial Optional)**
  - PAR-21-313 https://grants.nih.gov/grants/guide/pa-files/par-21-313.html
  - Receipt Dates for R21s through 2024

- **Research Supplements to Promote Diversity in Health-Related Research (Clinical Trial Not Allowed)**
  - Administrative Supplements to active NIDDK awards to enhance diversity of workforce
  - Diversity Supplement Program https://www.niddk.nih.gov/research-funding/research-programs/diversity-programs/diversity-supplement-program

Select NIDDK Funding Opportunities

- **SUITOR: Stimulating Urology Interdisciplinary Team Opportunity Research**
  - PAS-22-074: https://grants.nih.gov/grants/guide/pa-files/pas-22-074.html
  - Soliciting R01 multidisciplinary applications in targeted urology research areas.
  - For 2022-25: Neurourology (and potentially additional areas)

- **NIDDK-Supported Clinical Networks—Ancillary Studies Welcome (e.g., R01s)**
  - **MAPP** | Multi-Disciplinary Approach to the Study of Chronic Pelvic Pain Research Network https://www.mappnetwork.org/ *(sunsetting)*
  - **LURN** | Symptoms of Lower Urinary Tract Dysfunction Research Network https://nih-lurn.org/
  - **PLUS** | Prevention of Lower Urinary Tract Symptoms Research Consortium https://plusconsortium.umn.edu/
  - **USDRN** | Urinary Stone Disease Research Network https://usdrn.org/

  Ancillary Studies Info: https://www.niddk.nih.gov/research-funding/human-subjects-research/ancillary-major-ongoing-clinical-studies

NIDDK Research Training and Career Development

Funding Eligibility by Career Level

K01 – Ph.D. or non-board eligible M.D. research scientist with 2 years post-doc experience but not greater than 7

K08/K23 – M.D. or M.D./Ph.D., clinical investigator (K08) or patient-oriented (K23)

F99/K00—Graduate students outside our research; recruit to a post-doc within our research (KUH only)

U2C-TL1—Institutional Network Award (kidney, urology, hematology research)

R03—Supplemental support available to NIDDK K awardees

Urology KURe (K12)—Awarded PhD Scholars work with mentors (broad scientific focus; two institutional awards)

UroEpi K12—Awarded MD or PhD Scholars work with mentors (epidemiology focus; two institutional awards)

NIDDK Res. Training/Career Dev.: https://www.niddk.nih.gov/research-funding/training-career-development

NIH Loan Repayment Program

- The NIH Loan Repayment Program (LRP) is designed to recruit and retain highly qualified health professionals into biomedical or biobehavioral research careers
- Repayment of up to $50K qualified educational debt per year (up to two years) in return for a commitment to engage in NIH mission-relevant research
- Applicants should match to one of five LRP Research Categories:
  - Clinical Research
  - Clinical Research for Individuals from Disadvantaged Backgrounds
  - Contraception and Infertility Research
  - Health Disparities Research
  - Pediatric Research
- Rolling application deadlines from September through November

See NIH LRP Website (www.lrp.nih.gov) for Eligibility and How to Apply

CAIRIBU Grants Programs

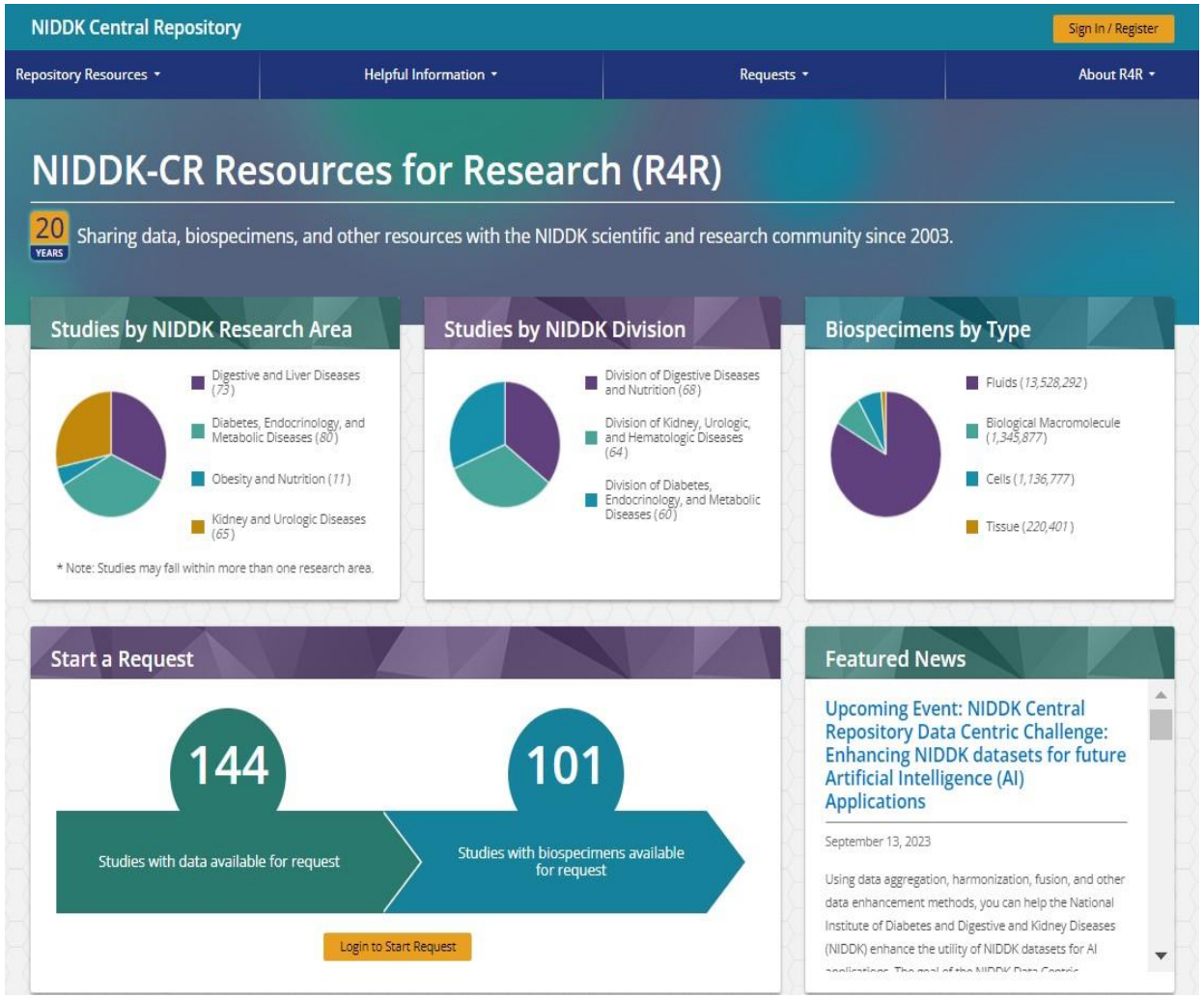
Opportunity Pool Awards and Research Training and Development Grants

- University of Wisconsin Center
- Columbia University Center
- Stanford University
- **Urology Centers Interactions Core, University of Wisconsin**

Small, short-term grants awarded on a competitive basis to support collaborative urology research, enrich the investigator base, and provide a foundation for follow-on applications

Dr. Kris Penniston, Director, Centers Interactions Core/CAIRIBU
https://niddkcairibu.urology.wisc.edu/opportunities-and-awards/

The NIDDK Central Repository



Jumpstart Your Research Study!

Receive access to archived clinical data and diverse, associated biospecimens and other materials from large, multi-site NIDDK clinical trials and studies

What's There? Searchable for study names, resources categories, and key words

How? Pathways/Processes for Data and Biospecimen Requests

NIDDK CR: https://repository.niddk.nih.gov/home/

Questions? Contact your Program Officer

A Few Examples of the Information You May Receive:

- Advice on relevance to the NIDDK's mission (or other NIH Institute?) and the right award type for the proposed study
- Help in navigating the NIH grants process and timelines: Before submission, after review, and during the project period….and some steps in between
- Sometimes direction toward a better contact, e.g., a different Program Officer at the NIDDK or a different Institute or a colleague in the Grants Management Branch or Review
- Information on additional, broad scientific and administrative considerations!

A Couple of Good Practices:

- Useful to send a quick e-mail and perhaps a one-pager (draft aims), if possible, as a start and better than a "cold-call"
- Some basic questions can be addressed by a simple e-mail while others require a phone call, especially for junior investigators…and if we don't answer after a bit please check back!

Contact the NIDDK Urology Program Staff !

Robert Star, MD
Director, KUH
robertstar@nih.gov

Tracy Rankin, PhD, MPH
Deputy Director, KUH
Career Development, Diabetic Uropathy; Endocrinology
tracy.rankin@nih.gov

Ziya Kirkali, MD
Clinical Urology; Erectile Dysfunction; Urology HIV/AIDS
ziya.kirkali@nih.gov

Chris Mullins, PhD
Cell Biology Programs in Kidney and Urologic Disease
mullinsc@mail.nih.gov

Deepak Nihalani, PhD
Kidney and Urology Centers Programs
deepak.nihalani@nih.gov

Danny Gossett, PhD
Small Business, Tech Development; Translation
daniel.gossett@nih.gov

Christine Maric-Bilkan, PhD
NRSA Fellowship Awards, F99/K00
christine.maric-bilkan@nih.gov

Raquel Greer, MD
Health Equity; Health Services Research; Dissemination and Implementation Research
raquel.greer@nih.gov

Jenna Norton, PhD, MPH
Health equity, Social determinants
jenna.norton@nih.gov

Eric Brunskill, PhD
Developmental Biology, Regeneration and Repair; Omics Research
eric.brunskill@nih.gov

NIDDK Home Page for Kidney, Urology, Hematology Research:
https://www.niddk.nih.gov/about-niddk/offices-divisions/division-kidney-urologic-hematologic-diseases

NIH National Institute of Diabetes and Digestive and Kidney Diseases

NIH and NIDDK-Specific Resources

General Grant Information

- NIH Grants and Funding Home Page: https://grants.nih.gov/grants/oer.htm
- NIH Grants and Contracts "Find Funding" (NIH Guide): https://grants.nih.gov/funding/searchguide/index.html#/
- NIAID "Apply for a Grant": https://www.niaid.nih.gov/grants-contracts/apply-grant
- Types of applications: https://grants.nih.gov/grants/how-to-apply-application-guide/prepare-to-apply-and-register/type-of-applications.htm
- eRA home page/Commons: https://era.nih.gov/

Some Selected NIDDK-Specific Information

- Research Training/Career Development: https://www.niddk.nih.gov/research-funding/training-career-development
- NIDDK Research Areas – Urology: https://www.niddk.nih.gov/about-niddk/research-areas/urologic-diseases
- Is Your Clinical Study Appropriate for NIDDK?: https://www.niddk.nih.gov/research-funding/human-subjects-research/clinical-study-appropriate
- NIDDK Data Management and Sharing: https://www.niddk.nih.gov/research-funding/research-resources/data-management-sharing
- NIDDK Current Funding Opportunities: https://www.niddk.nih.gov/research-funding/current-opportunities
- NIDDK Repository: https://repository.niddk.nih.gov/home/
- Dknet: Connecting Researchers to Resources: https://dknet.org/
- NIDDK Ancillary Studies: https://www.niddk.nih.gov/research-funding/human-subjects-research/ancillary-major-ongoing-clinical-studies

Additional NIH Resources

Find Funded Grants or NIH Program Officers

- NIH Research Portfolio Online Reporting Tools (RePORT) and RePORTER Tool: https://report.nih.gov/
- Matchmaker Tool to Identify a Good-Fit NIH Project Officer: https://projectreporter.nih.gov/reporter.cfm (see “Matchmaker” link)

Review Information / Center for Scientific Review (CSR)

- CSR Main Website: http://public.csr.nih.gov/Pages/default.aspx
- Kidney and Urology Function and Dysfunction (KUFD) study section: https://public.csr.nih.gov/StudySections/DPPS/DKUS/KUFD
- Assisted Referral Tool to Identify Study Sections: https://art.csr.nih.gov/ART/selection.jsp
- Early Career Reviewer (ECR): https://public.csr.nih.gov/ForReviewers/BecomeAReviewer/ECR

Junior Investigators

- Early Stage Investigators: http://grants.nih.gov/policy/new_investigators/index.htm
- Training programs at NIDDK: https://www.niddk.nih.gov/research-funding/training-career-development
- Loan Repayment Program website: www.lrp.nih.gov

Special Considerations for Human Subjects and Vertebrate Animal Studies

Human Subjects (HS)

- HS home page: https://grants.nih.gov/policy/humansubjects.htm
- HS decision tool: https://grants.nih.gov/policy/humansubjects/hs-decision.htm
- Clinical Trial (CT) definition: https://grants.nih.gov/policy/clinical-trials/definition.htm
- CT decision tool: https://grants.nih.gov/ct-decision/index.htm
- Walk-through of the HS and CT application form: https://www.youtube.com/watch?v=FNgOHqmk0rY&list=PLOEUwSnjvqBJeHcb4yai7_fDnFZFPEmQK&index=3 -

Vertebrate Animals (VAS)

- VAS: https://olaw.nih.gov/guidance/vertebrate-animal-section.htm
- VAS fact sheet: https://grants.nih.gov/grants/olaw/VASfactsheet.pdf
- VAS review checklist: https://grants.nih.gov/grants/olaw/vaschecklist.pdf
- VAS online training module: https://olaw.nih.gov/vas-e-module/story.html

Questions?