This presentation covers...

- Intro to NIH
- R15 Program
- AREA vs REAP
- Application Components
1 of 11 operating divisions of the Department of Health and Human Services, U.S. Public Health Service

Mission: to seek fundamental knowledge about the nature and behavior of living systems and to apply that knowledge to enhance health, lengthen life, and reduce illness and disability.
Basic, translational, or clinical research:

- Chronic diseases
- Infectious diseases
- Personalized medicine & new technologies
- Health at All Ages

*World’s largest source of medical research funding*

$39.1 billion budget appropriation in Fiscal Year 2018

...83% for extramural research funding
27 Institutes and Centers (IC)*

Each with different:
- mission & priorities
- budget
- funding strategy

*24 ICs fund extramural research via grant opportunities

https://www.nih.gov/institutes-nih/list-nih-institutes-centers-offices

Source: NIH National Institutes of Health Office of Extramural Research
Looking for where your research fits at NIH?

Use RePORTER to find:

- What research NIH supports that is like yours
- Which NIH Institute(s) supports research like yours
- Who to talk to at NIH about your area of research
- Which study sections review research like yours

https://projectreporter.nih.gov/reporter.cfm
The research group investigates the neurobiology underlying drug abuse and related psychiatric disorders. The work is focused on the systematic study of the human brain of drug abusers and subjects with psychiatric disorders in relation to opioid neuropeptide, cannabinoid and dopamine neuronal systems. Drug abuse and, e.g., major depression are associated with alterations of mood, cognition, and motivation, thus, an important goal is to identify and map specific genes in the mesocorticolimbic system, which regulate emotional function. Techniques such as in situ hybridization, RT-PCR, DNA microarray, in vitro autoradiography, and general biochemical assays are used for the detailed analyses of genes, and respective protein products, in discrete mesocorticolimbic brain areas. Molecular, biochemical, and in vivo studies of the human brain are assessed in relation to individual genotype in order to identify neurobiological correlates of functional genetic polymorphisms linked to addiction and affective disorders. Epigenetic mechanisms, e.g., DNA methylation, are also evaluated in relation to the regulation of gene expression.
## Matchmaker Results

100 projects similar to concepts from the entered text. (100 maximum).

Click on chart labels to filter search results by the Institute/Center or Activity Code or Study Section.

### Institute/Center

<table>
<thead>
<tr>
<th>Score</th>
<th>Act</th>
<th>Project</th>
<th>Year</th>
<th>Sub #</th>
<th>Project Title</th>
<th>Contact PI / Project Leader</th>
<th>Organization</th>
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<td>MORRIS, CLAUDIA VARGAS</td>
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<td>CHARACTERIZING THE COCAINE-RESPONSIVE PEPTIDOEM IN HAMMALIAN TELECEPHALON</td>
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<td>696</td>
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<td>DA009253</td>
<td>20</td>
<td>5983</td>
<td>NEUROIMAGING &amp; COGNITION FOR PREDICTING TOBACCO DEPENDENCE</td>
<td>MEYERHOFF, DIETER J</td>
<td>UNIVERSITY OF CALIFORNIA, SAN FRANCISCO</td>
<td>2016</td>
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**Source:** NIH National Institutes of Health Office of Extramural Research
# Research Grants

<table>
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<tr>
<th>Activity Code</th>
<th>Direct Cost Limit</th>
<th>Duration</th>
<th>ICs</th>
<th>Special Considerations</th>
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</thead>
<tbody>
<tr>
<td>R15 Research Enhancement Award</td>
<td>$300,000 over entire project period</td>
<td>Up to 3 years</td>
<td>Most ICs (but varies widely for each PAR)</td>
<td>Institutional eligibility limited (WMU is eligible) Student involvement is a major goal</td>
</tr>
<tr>
<td>R01 Research Project Grant Program</td>
<td>No specific dollar limit unless specified in FOA</td>
<td>Generally 3-5 years</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>R03 Small Grant Program</td>
<td>generally up to $50,000 per year</td>
<td>Up to 2 years</td>
<td>More than ½ of ICs</td>
<td>Not renewable</td>
</tr>
<tr>
<td>R21 Exploratory/Developmental Research Grant</td>
<td>$275,000 over entire project period, no more than $200,000 in any year</td>
<td>Up to 2 years</td>
<td>Most ICs</td>
<td>Preliminary data is not generally required, BUT...</td>
</tr>
</tbody>
</table>
Three Goals of the Program

• Support meritorious research

• Expose students in eligible environment to hands-on research

• Strengthen the research environment of institutions that have not been major recipients of NIH research grant funds
R15 Program - key features

• Research Grant mechanism
• 3 year project period
• Up to $300,000 direct cost over 3 years
• 12 page Research Strategy
  • Same criteria scoring as a R01, but different emphasis
• Grants are renewable
### R15 Dates

<table>
<thead>
<tr>
<th></th>
<th>Cycle I</th>
<th>Cycle II</th>
<th>Cycle III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Due date (non-AIDS)</td>
<td><em>February 25</em></td>
<td>June 25</td>
<td>October 25</td>
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<td>AIDS Due Date</td>
<td>May 7</td>
<td>September 7</td>
<td><em>Jan 7</em></td>
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<td>Scientific Merit Review</td>
<td>June - July</td>
<td>October - November</td>
<td>February - March</td>
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<tr>
<td>Advisory Council Round</td>
<td>October</td>
<td>January</td>
<td>May</td>
</tr>
<tr>
<td>Earliest Project Start Date</td>
<td>December *</td>
<td>April</td>
<td>July</td>
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</table>
R15 vs R01

• Overall impact of R15 differs from R01
• Scope is limited
• Must describe research opportunities for students
• Must describe how award will strengthen research environment of the institution
R15 Funding Announcements

Academic Research Enhancement Award (AREA) for Undergraduate Focused Institutions:
PAR-18-714 – Clinical Trial Not Allowed
PAR-19-133 – Clinical Trial Required

Research Enhancement Award Program (REAP) for Health Professional Schools and Graduate Schools
PAR-19-134 – Clinical Trial Not Allowed
PAR-19-135 – Clinical Trial Required
AREA vs REAP

REAP
For faculty with primary appointment in a health professional school* or graduate school

AREA
For faculty with a primary appointment in a non-health professional school with undergraduate enrollment greater than graduate enrollment

*as defined in NIH Glossary & Acronym List
AREA vs REAP

AREA
- **Must** include undergraduate students from applicant institution
- May include grad students, HS students, post-docs, etc.
- Research team *must be composed primarily* of undergraduate students

REAP
- **Must** include undergraduate and/or graduate students from applicant institution
- May include HS students, post-docs, etc.
AREA vs REAP

AREA and REAP are mutually exclusive

A given institution could have faculty that would be eligible for each program

However...individual faculty would not be eligible for both R15 programs based on their primary departmental appointment.

https://grants.nih.gov/grants/funding/area_faq.htm#5808
<table>
<thead>
<tr>
<th>IC</th>
<th>PAR-19-135 REAP – Clinical Trial Required</th>
<th>PAR-19-134 REAP – Clinical Trial Not Allowed</th>
<th>PAR-18-714 AREA – Clinical Trial Not Allowed</th>
<th>PAR-19-133 AREA – Clinical Trial Required</th>
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Subject to change - always check the FOA
R15 Eligibility - Institutional Eligibility

- Domestic, accredited institution grants degrees in health or behavioral sciences
- Not more than $6M in NIH funding in 4 of last 7 years
- AREA
  - All non-health professional components <= $6M
  - Undergraduate enrollment must be greater than graduate enrollment in the non-health professional school
- REAP
  - The entire institution (all components) <= $6M
  - Undergraduate enrollment level is not a factor for eligibility.
R15 Eligibility - PI Eligibility

• Primary appointment at eligible institution
• Multiple PI is OK, if all are FOA-eligible
• May not have an active NIH grant at time of award
  - Can hold successive New or Renewal grants
  - Can hold a subaward on someone else’s NIH grant
  - R15 is intended to be a PI’s only NIH research grant
Can I have an ineligible-collaborator?

• Yes!

• However…. Be mindful of the intent and unique goals of the R15
  - Majority of research should be directed by PI at grantee institution
  - Student profile & student inclusion are for applicant/eligible component

• Collaborators add expertise, but be selective
Preparing an NIH Proposal

• Funding Opportunity Announcement (FOA)
• NIH SF424 Application Guide (312 pages!)
• Table of page limits
• eRA Commons account required for all PI/PDs
• Application submitted via ASSIST
  https://public.era.nih.gov/assist
Understanding the FOA

Department of Health and Human Services
Part 1. Overview Information

<table>
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<tr>
<th>Participating Organization(s)</th>
<th>National Institutes of Health (NIH)</th>
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<tr>
<td>Components of Participating Organizations</td>
<td>National Cancer Institute (NCI)</td>
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<td>National Eye Institute (NEI)</td>
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<td>National Heart, Lung, and Blood Institute (NHLBI)</td>
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<td>National Human Genome Research Institute (NHGRI)</td>
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<td>National Institute of Alcohol Abuse and Alcoholism (NIAAA)</td>
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<td>National Institute of Allergy and Infectious Diseases (NIAID)</td>
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<td>National Institute of Biomedical Imaging and Bioengineering (NIBIB)</td>
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<td>Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)</td>
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<td>National Institute of Nursing Research (NINR)</td>
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Funding Opportunity Title

Academic Research Enhancement Award for Undergraduate-Focused Institutions (R15 - Clinical Trial Not Allowed)
### Key Dates

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<td><strong>Open Date (Earliest Submission Date)</strong></td>
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<tr>
<td><strong>Letter of Intent Due Date(s)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Application Due Date(s)</strong></td>
<td>Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS application funding opportunity announcements are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found during the submission process by the due date.</td>
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<tr>
<td><strong>AIDS Application Due Date(s)</strong></td>
<td>Standard AIDS dates apply, by 5:00 PM local time of applicant organization. All types of AIDS and small business application funding opportunity announcements are due on these dates. The first AIDS Application due date for this FOA is September 7, 2018. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found during the submission process by the due date.</td>
</tr>
<tr>
<td><strong>Scientific Merit Review</strong></td>
<td>Standard dates apply</td>
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<tr>
<td><strong>Advisory Council Review</strong></td>
<td>Standard dates apply</td>
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<tr>
<td><strong>Earliest Start Date</strong></td>
<td>Standard dates apply</td>
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<tr>
<td><strong>Expiration Date</strong></td>
<td>May 8, 2021</td>
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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 institutional system-to-system solution.

2. Content and Form of Application Submission

It is critical that applicants follow the Research (R) Instructions in the SF424 (R&R) Application Guide, except where instructed in this funding otherwise. Conformance to the requirements in the Application Guide is required and strictly enforced. Applications that are out of compliance or not accepted for review.

For information on Application Submission and Receipt, visit Frequently Asked Questions – Application Guide, Electronic Submission of Grant

Page Limitations
All page limitations described in the SF424 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 applicati

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.

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

Facilities & Other Resources: The following information should be included.

- A profile of the students of the applicant institution and any information or estimate of the number who have obtained a baccalaureate degree in the health-related sciences during the last five years.
- Description of plans to recruit well-qualified undergraduate students from diverse backgrounds to participate in the research project
- A description of the special characteristics of the applicant institution that make it appropriate for an AREA program. (1) provide support for meritorious research at undergraduate-focused institution or institutional components; (2) strengthen the research institutions/components; and (3) give undergraduate students an opportunity to gain significant biomedical research experience through
- Description of the likely impact of an AREA grant on the PD(s)/PI(s).
- Description of the likely impact of an AREA grant on the research environment of the applicant institution.
Section VII. Agency Contacts

Application Submission Contacts

erRA Service Desk (Questions regarding ASSIST, eRA Commons registration, submitting and tracking an application, documenting system problems)
due date, post submission issues)
Finding Help Online: http://grants.nih.gov/support/ (preferred method of contact)
Telephone: 301-402-7469 or 866-504-3652 (Toll Free)
Grants.gov Customer Support (Questions regarding Grants.gov registration)
Contact Center Telephone: 800-518-4726
Email: support@grants.gov
GrantsInfo (Questions regarding application instructions and procedures)
Email: GrantsInfo@nih.gov (preferred method of contact)
Telephone: 301-955-7573

Scientific/Research Contact(s)

Christopher L. Hatch, Ph.D.
National Cancer Institute (NCI)
Telephone: 240-276-6454
Email: ch28v@nih.gov
Cheri Wiggis, Ph.D.
National Eye Institute (NEI)
Telephone: 301-495-2020
Email: cheri.wiggins@nih.gov
Aaron Laposky, Ph.D.
National Heart, Lung, and Blood Institute (NHLBI),

Peer Review Contact(s)

Examine your eRA Commons account for review assignment and contact information (info

Financial/Grants Management Contact(s)

Crystal Wolfrey
National Cancer Institute (NCI)
Telephone: 240-276-6277
Email: wolfreyec@mail.nih.gov
Karen Robinson-Smith
National Eye Institute (NEI)
Telephone: 301-495-2020
Email: Karen.Robinson-Smith@nei.nih.gov
Ryan Lombardi, MS
National Heart, Lung, and Blood Institute (NHLBI)
Telephone: 301-827-8042
Email: Lombardr@nhlbi.nih.gov
Deanna L. Ingersoll
National Human Genome Research Institute (NHGRI)
Proposal Components

- Project Summary/Abstract (30 lines of text)
- Project Narrative (3 sentences)
- Bibliography & References
- Facilities and Other Resources
- Equipment
  - Biographical sketches (5pg/person)
  - Current and Pending (Just-in-time)
- Budget (with Budget Justification)
  Must select correct budget based on direct costs
  > $250,000 R&R Detailed Budget [SF 424]
  < $250,000 Modular Budget [PHS 398]

- Introduction (Resubmission only)
- Specific Aims (1 pg)
- Research Strategy (5-12 pg)*
- Vertebrate Animals
- Multiple PD/PI leadership plan
- Consortium/Contractual
- Letters of Support
- Resource Sharing Plan
- Authentication of Key Biological and/or Chemical Resources

* See table of page limits and FOA for specific limit
# Contacting NIH staff

<table>
<thead>
<tr>
<th>When to Contact</th>
<th>PO</th>
<th>SRO</th>
<th>GMS</th>
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<tr>
<td><strong>Before Application Submission</strong> to discuss:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>- Research idea (or specific aims) &amp; fit with IC/priorities</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>- Grant programs and funding opportunities</td>
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<td>- Questions about application and review process</td>
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<td><strong>After Submission/Before Peer Review</strong> to discuss:</td>
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<td>✔️</td>
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<tr>
<td>- Review assignment or concerns (e.g., panel expertise)</td>
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<td>✔️</td>
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<td>- Request to send additional/corrective materials</td>
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<td><strong>After Peer Review</strong> to discuss:</td>
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<tr>
<td>- Summary statement and response to reviewer critiques</td>
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<td>- Potential for application resubmission</td>
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<td><strong>At any point</strong> to discuss:</td>
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<td>- Budget questions/administrative issues about award</td>
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<td>- Interpretation of grants policies</td>
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PO=Program Officer; SRO=Scientific Review Officer; GMS=Grants Management Specialist

Source: [National Institutes of Health](https://www.nih.gov)
R15 Specific Instructions

Facilities & Other Resources

• A profile of the students at applicant institution
• Plans to recruit undergraduate students from diverse backgrounds (AREA ONLY).
• Special characteristics of the institution that make it appropriate for an AREA/REAP grant
• Likely impact of grant on PD/PI and on the research environment of the institution and on students
• Institutional support for the proposed research

➢ Sample of Facilities & Other Resources:
  https://grants.nih.gov/grants/funding/F-OR-annotate.doc

➢ Data from Institutional Research – contact your RO
R15-specific instructions

Biosketch

• Summary of experience supervising undergraduate and/or graduate students in research in the Personal Statement

• Indicate which peer-reviewed publications or other research products involved undergraduate and/or graduate students under your supervision

Sample personal statement:
https://grants.nih.gov/grants/funding/Biosketch-Personal-Statement-R15.docx
R15-specific instructions

Budget and justification

• 3 year budget but all costs entered in year 1
• Modular vs Detailed budget depends on the total direct costs requested for all three years
• Indicate aspects of the proposed research in which students will participate.
R15-specific instructions

Research Plan: Research Strategy must explain how
• undergraduate and/or graduate students will be exposed to and supervised conducting hands-on research.
• students will participate in research activities such as planning, execution and/or analysis of research.
• the approach and the research team, including undergraduate and/or graduate students, are appropriate to accomplish the specific aims and to make an important scientific contribution.
Eligibility Letter

- Both AREA and REAP require a signed letter from provost or other official with institution-wide responsibility (VPR) verifying eligibility as specified in the appropriate FOA

Sample letter:
What makes a successful R15 proposal?

• Scientifically meaningful
  - Interesting questions & publishable data

• Feasible with
  - Resources (facility and personnel)
  - Effort
  - Students

• Appropriate scope

• Describe your environment

• Meaningful student involvement

Source: NIH National Institutes of Health Office of Extramural Research"
Student Involvement

• Perform & troubleshoot experiments
• Present at (lab) meetings & (campus) conferences
• (Help) design experiments
• Collect & analyze data
• Draft articles
• Collaborative interactions
Strategies of Successful PIs

• Include a collaborator or consultant if you don’t have the necessary expertise or resources

• Understand the review criteria and the review criteria questions
  ➢ Each question should be addressed in the application

• R15 grant is research award, not training award
  ➢ Focus on hands-on research not course work
  ➢ Describe PI’s role in research & supervision

Source: NIH National Institutes of Health Office of Extramural Research
Coming Up:

Jan. 21, 2019
Grants for Education Research
Location: College of Education and Human Development
3310 Sangren Hall

https://www.wmich.edu/research/discovery-acceleration-workshops