Research in the Department of Medicine

6-Week Course

Lecture 1
October 16, 2012

Betty Weiss, MBA
Director of Research Services
Department of Medicine
What is Research?

- RESEARCH is an ORGANIZED and SYSTEMATIC way of finding answers to questions.
- The acquisition and dissemination of knowledge.
- Any collection of data, information and facts for the advancement of knowledge!
Where do I get help?

- **Divisions** – Division Administrator, first line of contact
- **Department** – Betty Weiss for Research /grant needs in particular pre-award issues
- **School Level** – Debbie Meltzer at SMPH
- **Others** – Special services: ICTR (CTSA grant), CTRC, OCT, IRB, RARC etc.
- **VA** – Contact Research Office at: 280–7007
What types of Research are there?

- Major types of Scientific Research
  - Basic
  - Clinical
  - Translational
  - Health Services Outcomes

- Others include (educational, quantitative, qualitative, process-flow, etc)
I want to do Research – Where Do I begin?

- Searching for Research Interests/finding a mentor
  - DOM: [http://www2.medicine.wisc.edu/home/research](http://www2.medicine.wisc.edu/home/research)
    Activities in DOM: Research Day (May), SWIFT Session (Oct), and Introduction to Research course (Fall)
  - SMPH: [http://www.med.wisc.edu/](http://www.med.wisc.edu/)
  - University: [http://discoveryportal.org/default.aspx](http://discoveryportal.org/default.aspx)
- NIH–Career Resources: [http://grants1.nih.gov/training/resources.htm](http://grants1.nih.gov/training/resources.htm)
Scaling Up Falls Prevention in Wisconsin Communities: 'Stepping On' Dissemination Research

Presenting:

Jane Mahoney, MD

Friday, October 12th - 8:00 AM

Please join Dr. Mahoney this coming Friday in the VA Auditorium when she presents "Scaling Up Falls Prevention in Wisconsin Communities: 'Stepping On' Dissemination Research". To view previous talks, please see our Grand Rounds Archive.

Grand Rounds

Faculty Spotlight

Announcements

Research Highlights

Research Main Page

SMPH Research Training Orientation

Clinical Updates

#MyMadisonDay: 24 hours in the life of the city - Mike Abernethy, MD

States that Support Access to Health

Education News

Residency Application

Congratulations Beth Brace: Winner of the ACGME Coordinator Award!
Welcome to Research in the Department of Medicine

OVERVIEW: The research faculty of the UW-Department of Medicine has a strong history of research advancement. In addition to exciting new research endeavors, including the creation of a new translational research institute, many faculty members hold scientific leadership positions. They participate in the peer-review process for grants and manuscripts, teaching and mentoring, preparation of clinical guidelines, and in the writing of book chapters or review articles. Departmental research is especially strong in the areas of asthma, geriatrics, and cardiovascular medicine. For more details about the types of research within the department or by division please click on the links below.

- Basic Research
- Clinical Research by Special Topics
- Clinical Research by Division

http://www2.medicine.wisc.edu/home/research
Education Research
- David Feldstein
- Mae Hla
- Tosha Wetterneck

Health Disparities
- Elizabeth Jacobs

Health Service Research
- Amy Kind
- Heather Johnson

HIV/AIDS (Special topic)
- James Sosman
- James Stein

Smoking Cessation (Special topic)
- Tim Baker
- Michael Fiore
- Doug Jorenby
- Tammy Simms

Women in Education
- Molly Carnes

Women's Health Issues (Special topic)
- Karen Hansen (Osteoporosis)
- Jane Mahoney (Aging)
University Links

- Office of Biological Safety (OBS)
- Health Sciences Institutional Review Board (HS-IRB)
- Research Animal Resources Center (RARC)
- Research and Sponsored Programs (RSP)
  - RSP’s Frequently Needed Data
  - Training opportunities for working in WISPER and Cayuse are offered on a regular basis by Research and Sponsored Programs and through the Graduate School Seminar Series
  - RSP Rate Page
  - WISPER
  - Cayuse
  - ECRT effort certification
- UW Graduate School
  - Outside Activities Disclosure
- UW Institute for Clinical & Translational Research (UW ICTR)
  - Clinical and Translational Research Core (CTRC) (formerly GCRC)
  - Office of Clinical Trials (OCT)
- UW School of Medicine and Public Health
  - Research and Graduate Studies
  - Laboratory Animal Resources (LAR)
- William S Middleton Memorial VA Hospital

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NIH and Federal Grant Links

- Grants.gov
- National Institutes of Health
  - eRA Commons (NIH)
    - eRA Commons Login
  - NIH Guide Funding Opportunities and Notices
  - NIH Guide to Grants and Contracts
    - SF424 Instructions (Electronic)
    - 398 forms and Instructions-new grant application (Paper)
    - 2590 forms and Instructions-for progress reports (Paper and Electronic)
  - NIH Office of Extramural Support
  - NIH-Frequently used links
  - CSR Study Section Roster
  - OMB Circular A-21
- National Science Foundation FastLane
- Centers for Disease Control
- Veteran's Administration Office of Research (William S. Middleton VA office: 260-7007)
- RePORTER (RePORT Expenditures and Results)
The University of Wisconsin School of Medicine and Public Health in Madison is at the vanguard of a new paradigm uniting public health and medicine. With this new model, we address the evolving health care needs of Wisconsin and beyond while building on our tradition of more than 100 years of educating health professionals and expanding boundaries of science through research. Learn more about us.
RSP promotes and facilitates the research, education, and outreach missions of the University of Wisconsin-Madison by supporting and administering extramurally sponsored programs.

**Award Lifecycle**

**Finding Funding**

Find internal/external resources and links to funding opportunities for supporting your research.
University of Wisconsin-Madison Researcher Directory

Use the Wisconsin Discovery Portal to locate the right UW-Madison researcher for your collaboration and research needs. This portal provides easy access to information about more than 2,600 researchers at UW-Madison, consistently ranked one of the world's top public research universities.

Start Search

Search by:
- Research interests e.g. nitrogen fixation
- Researcher's name e.g. DeLuca
- Industry or company e.g. TomoTherapy
- Patent number or name e.g. 6,358,690
- Keywords to browse a list of relevant researchers

Are you a UW-Madison researcher and don't see your profile? Does your profile need to be updated? Contact discoveryportal@wisc.edu
1. Li
   DGIST, 2011-2014, Stem cell-based tissue engineering using elastin-mimetic extracellular matrix protein ... growth factor-2 primes human mesenchymal stem cells for enhanced...

2. Ogde
   ... , 2009-2014, Dissecting the Biological Impact of Stem Cell Fusion, a Unified Plan for Stem Cell Discovery via Accessible Engineering ... in utero cell transfer between...

3. Thomson
   ... Human Embryonic Stem Cells Cryopreservation of Embryonic Stem Cells Culturing Human Embryonic Stem Cells Differentiation and Purification of Neural Precursors from Human...

4. Murphy
   wlmurphy@wisc.edu ... * Assembly of composite biomaterials * Stem cell growth and differentiation * Growth factor delivery ... Biomaterials That Modulate Stem Cell Behavior...

5. Bresnick
   ... -specific genetic network. * Stem/progenitor cell function * Blood cell development ( ... * Find mechanisms that regulate hematopoietic stem cell differentiation into...

6. Alexander
   This is the first single biomarker that has been demonstrated to be functionally involved in stem cell maintenance. ... * The analysis of adult stem cell responses during...
Assess the Competition

Thoroughly search the literature

Use reference databases (e.g. Pubmed, Science Citations Index and Highwire, etc)

List key words and individuals who have been important contributors to the science during the past 10 years.
http://highwire.stanford.edu/
I want to do Research – How go I get grant funding?

More searching…

- For the Junior faculty:
  As I begin my road to independence where do I look for my first funding?
  - Search Internally or VA funding
  - Search Agencies or Foundations
  - Search NIH (R03, R21 or new EIA)

Funding for your idea:

- International Funding Agencies
- Federal Funding Agencies
- State funding Agencies
- National Organizations
- Local Organizations
- Foundations
- Commercial Sources (Industry)
Find the Agency that fits your Idea

- Funding your proposal should help the agency achieve its mission.
- Know what the agency wants to fund.
- Your goals should be inline with the agency goals.
- Talk to the Program Officer (PO) early.
Internal – Pilot funding

- DOM has an application process for $50,000 pilot funding to faculty
- PERC pilot
- ICTR pilots—
  - Type 1 translational
  - Type 2 translational
Internal links to Searching Tools

- Links on DOM Website
  http://www2.medicine.wisc.edu/home/research/grantresources
- Links on RSP Website
  http://www.rsp.wisc.edu/preaward/index.html

**What is important is finding a program/agency that wants to fund what you want to do!!**
Search databases for existing grants:

Federal agencies have specific search engines (RePorter)

Other engines can search all federal agencies:
enGrant Scientific
http://www.engrant.com/index.html

Science Accelerator
http://www.osti.gov/federal
Funding Resources & Proposal Development

Research and Sponsored Programs provides links to several funding resources UW-Madison subscribes to. In addition, your department or College/School research administrator can assist in locating funding. Other proposal development resources are available below.

Finding Funding

UW Madison subscribes to these resources for locating funding:
- Illinois Researcher Information Service (IRIS)
- Sponsored Programs Information Network (SPIN)
- Community of Science (COS)

Other information sources:
- UW-Madison Memorial Library Grants Information Center
- Grants.gov
- GrantsNet
- Opportunities maintained by CALS Research Division
- Programs with limited UW submission

Proposal Development

- Cayuse - Develop & Route Grants.gov applications

Forms Related to Proposal Development

Agency Specific Info
- Federal Grant Programs on Grants.gov
- ProposalCentral
- NIH Information
- NSF FastLane Tips
- NSF Postdoctoral Mentoring Requirement
- Verification of Human Subjects Training

Agreement Templates
- Clinical Trial Agreement, Standard
- Material Transfer Agreement Research Guide
- Standard Research Agreement
<table>
<thead>
<tr>
<th>R</th>
<th>Grant Title</th>
<th>Sponsor</th>
<th>Deadline</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Limited Project Grants (LPG)</td>
<td>American Society of Colon and Rectal Surgeons (ASCRS) Research Foundation of ASCRS</td>
<td>Mar 01, 2009</td>
<td>$50,000</td>
</tr>
<tr>
<td>2</td>
<td>Jeannik M. Littlefield-AACR Grants in Metastatic Colon Cancer Research</td>
<td>American Association for Cancer Research (AACR) Research Funding and Fellowships</td>
<td>unspecified</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>3</td>
<td>General Surgery Resident Research Initiation Grant</td>
<td>American Society of Colon and Rectal Surgeons (ASCRS) Research Foundation of ASCRS</td>
<td>Mar 01, 2010</td>
<td>$40,000</td>
</tr>
<tr>
<td>4</td>
<td>Diet-Induced Changes in Inflammation as Determinants of Colon Cancer (R01)</td>
<td>Department of Health and Human Services (HHS) National Institutes of Health (NIH) National Cancer Institute (NCI)</td>
<td>Jun 05, 2009</td>
<td>see record</td>
</tr>
<tr>
<td>5</td>
<td>Diet-Induced Changes in Inflammation as Determinants of Colon Cancer (R21)</td>
<td>Department of Health and Human Services (HHS) National Institutes of Health (NIH) National Cancer Institute (NCI)</td>
<td>Jun 16, 2009</td>
<td>$275,000</td>
</tr>
<tr>
<td>6</td>
<td>Medical Student Research Initiation Grant</td>
<td>American Society of Colon and Rectal Surgeons (ASCRS) Research Foundation of ASCRS</td>
<td>Mar 01, 2010</td>
<td>$4,000</td>
</tr>
<tr>
<td>7</td>
<td>International Fellowship Grant</td>
<td>American Society of Colon and Rectal Surgeons (ASCRS) Research Foundation of ASCRS</td>
<td>Mar 01, 2010</td>
<td>$50,000</td>
</tr>
</tbody>
</table>
NON-FEDERAL FUNDING OPPORTUNITIES

UPCOMING OPPORTUNITIES

CALS maintains a database of non-federal funding opportunities that we feel will be of interest to CALS faculty and students. We do not include federal opportunities that can be found in Grants.gov®, These opportunities are flagged in eCALS as deadlines approach.

Our database boasts 600+ opportunities, but this certainly does not mean it is complete or comprehensive. Please let us know if you come across an opportunity that you think we should include.

It is up to the individual researcher to identify any restrictions, determine eligibility, etc. before submitting a proposal.

The following upcoming opportunities are opportunities with deadlines within the next 90 days (∼3 months). Click to see:

* Deadlines in the next 30 days
* Deadlines in 30 - 60 days
* Deadlines in 60 - 90 days
<table>
<thead>
<tr>
<th>Sponsor &amp; Opportunity</th>
<th>Deadlines in the next 30 days</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>American Academy of Arts and Sciences</strong></td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>Visiting Scholars Program</td>
<td></td>
</tr>
<tr>
<td><strong>American Cancer Society</strong></td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>Doctoral Degree Scholarships in Cancer Nursing</td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>Health Disparities Research</td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>Pilot and Exploratory Projects in Palliative Care of Cancer Patients and Their Families</td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>Postdoctoral Fellowships</td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>The Role of Healthcare and Insurance in Improving Outcomes in Cancer Prevention...</td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td><strong>Gay &amp; Lesbian Medical Association</strong></td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>Lesbian Health Fund</td>
<td></td>
</tr>
<tr>
<td><strong>Melanoma Research Alliance</strong></td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>MRA-Pfizer Established Investigator Partnership Award</td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>MRA-Prostate Cancer Foundation (PCF) Team Science Partnership Award</td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>Team Science Awards</td>
<td>Oct. 15, 2012</td>
</tr>
<tr>
<td>Scholars in Health Policy Research</td>
<td></td>
</tr>
<tr>
<td><strong>Fulbright Student Program</strong></td>
<td>Oct. 17, 2012</td>
</tr>
<tr>
<td>Student Fulbright Competition</td>
<td></td>
</tr>
</tbody>
</table>
SEARCH OPPORTUNITIES

- **Basic Search**
  Search by keyword, Funding Opportunity Number (FON) or Catalog of Federal Domestic Assistance (CFDA) number.

- **Browse by Category**
  Search by a variety of categories of funding activities.

- **Browse by Agency**
  Search from a list of agencies offering grant opportunities.

- **Advanced Search**
  Search by more specific criteria such as funding instrument type, eligibility or sub-agency.

Once you find the right grant, access the application package by either:

- Clicking on the "How to Apply" button in the grant opportunity’s synopsis.
- Entering the Funding Opportunity Number (FON) or Catalogue of Federal Domestic Assistance (CFDA) number on the [Download Application Package](#) page.
### Search Results

<table>
<thead>
<tr>
<th><strong>Open Date</strong></th>
<th><strong>Opportunity Title</strong></th>
<th><strong>Agency</strong></th>
<th><strong>Funding Number</strong></th>
<th><strong>Attachment</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>10/10/2012</td>
<td>NASA SPACE TECHNOLOGY RESEARCH FELLOWSHIPS - FALL 2013</td>
<td>NASA Headquarters</td>
<td>NSTRF13</td>
<td></td>
</tr>
<tr>
<td>10/10/2012</td>
<td>Hispanic-Serving Institutions (HSI) Education Grants Program</td>
<td>National Institute of Food and Agriculture</td>
<td>USDA-NIFA-HSI-003956</td>
<td>Program Solicitation,</td>
</tr>
<tr>
<td>10/04/2012</td>
<td>Fiscal Year 2013 NOAA Chesapeake Bay Watershed Education and Training (BWET)</td>
<td>Department of Commerce</td>
<td>NOAA-NMFS-NCBO-2013-2003501</td>
<td>ANNOUNCEMENT OF FEP OPPORTUNITY,</td>
</tr>
<tr>
<td>10/04/2012</td>
<td>C4ISR and Information Dominance Research</td>
<td>SPAWAR SYSTEMS CENTER</td>
<td>N66001-13-X-0001</td>
<td>Space and Naval Warfare Center, Pacific (SSC)</td>
</tr>
<tr>
<td>10/03/2012</td>
<td>Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Challenge Grants Program</td>
<td>National Institute of Food and Agriculture</td>
<td>USDA-NIFA-SAECP-003955</td>
<td>[DOC] FY 2008 RFA - Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Challenge Grants Program</td>
</tr>
<tr>
<td>10/01/2012</td>
<td>FY12 Air Force Defense Research and Development Rapid Innovation Fund (RIF) Program</td>
<td>Air Force -- Research Lab</td>
<td>BAA-AFRL-PK-12-0001</td>
<td>BAA Solicitation Template</td>
</tr>
<tr>
<td>10/01/2012</td>
<td>U.S. Army Medical Research and Materiel Command Broad Agency Announcement for Extramural Medical Research</td>
<td>Dept. of the Army -- USAMRAA</td>
<td>W81XWH-BAA-13-1</td>
<td>10. Claim of Exemption the Human Subjects ... Contents ,</td>
</tr>
<tr>
<td>09/28/2012</td>
<td>Long Range BAA for Navy and Marine Corps Science and Technology</td>
<td>Office of Naval Research</td>
<td>ONRBA13-001</td>
<td>Long Range Broad Agent ... Announcements (BAA) fr</td>
</tr>
<tr>
<td>09/27/2012</td>
<td>Higher Education Challenge Grants Program</td>
<td>National Institute of Food and Agriculture</td>
<td>USDA-NIFA-CGP-003954</td>
<td>[Doc] FY 2008 RFA Sec - Postsecondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Challenge Grants Program</td>
</tr>
<tr>
<td>09/17/2012</td>
<td>FY13 Great Lakes Bay Watershed Education and Training Program</td>
<td>Department of Commerce</td>
<td>NOAA-NOS-NMS-2013-2003449</td>
<td>ANNOUNCEMENT OF FE OPPORTUNITY,</td>
</tr>
<tr>
<td>09/17/2012</td>
<td>Computing Education for the 21st Century</td>
<td>National Science Foundation</td>
<td>12-609</td>
<td></td>
</tr>
<tr>
<td>08/29/2012</td>
<td>Fiscal Year (FY) 2013 Department of Defense Multidisciplinary Research Program of the University Research Initiative</td>
<td>Air Force Office of Scientific Research</td>
<td>CNR-BAA-12-020</td>
<td>CNR BAA Announcement</td>
</tr>
<tr>
<td>08/29/2012</td>
<td>2013 National Seapercher Competition</td>
<td>NAVAIR</td>
<td>2013-SEAPERCH</td>
<td>2013 National Seapercher Competition</td>
</tr>
<tr>
<td>Parent Announcement</td>
<td>Standard receipt dates, usually open for three years</td>
<td>None</td>
<td>In Center for Scientific Review (CSR) or in an IC, by one of many review committees</td>
<td>Non-specific, investigator-initiated. Not all ICs participate in all parent FOAs.</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------------------------------</td>
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<td>---------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>IC-specific Program Announcements (PA)</td>
<td>Standard receipt dates, usually open for three years</td>
<td>No set asides (unless PAS); high-priority applications may be funded beyond the payline</td>
<td>In CSR or in an IC, by one of many review committees (unless PAR)</td>
<td>Often broadly defined or a reminder of a scientific need; investigator-initiated</td>
</tr>
<tr>
<td>Request for Applications (RFA)</td>
<td>Single</td>
<td>Specifies funds and targets number of awards</td>
<td>Usually in and IC, but sometimes in CSR. Same review committee for all applications. Usually reviewed by a Scientific Review Group.</td>
<td>Well-defined scientific area</td>
</tr>
</tbody>
</table>
**Overview Information**

**Organizing Organization(s)**
National Institutes of Health (NIH)

**Institutions of Participating Organizations**
- National Cancer Institute (NCI)
- National Eye Institute (NEI)
- 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 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 on Drug Abuse (NIDA)
- National Institute of Environmental Health Sciences (NIEHS)
- National Institute of General Medical Sciences (NIGMS)
- National Institute of Mental Health (NIMH)
- National Institute of Neurological Disorders and Stroke (NINDS)
- National Center for Complementary and Alternative Medicine (NCCAM)
- Office of Dietary Supplements (ODS)

**Special Note:** Applicants are cautioned that not all NIH Institutes and Centers (ICs) participate in this program, and that relevant IC staff prior to submission of an application is strongly encouraged. The participating ICs have different emphasis requirements for this program. Therefore, a prospective applicant is urged to consult the Table of IC-Specific Information and Staff Contacts to determine whether the planned research and training falls within the mission of one of the participating ICs.

<table>
<thead>
<tr>
<th>Opportunity Title</th>
<th>Mentored Clinical Scientist Research Career Development Award (Parent)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Code</strong></td>
<td>K08 Clinical Investigator Award (CI)</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Reissue of PA-10-059</td>
</tr>
</tbody>
</table>
Weekly NIH Funding Opportunities and Notices
NIH Guide for Grants and Contracts
September 18, 2009
Table of Contents (TOC)

Notices

 Restructured Application Forms and Instructions for Submissions for FY2011 Funding (NOT-OD-09-149) National Institutes of Health

 Clarification of Content and Form of Application Submission for RFA-AA-10-001: Collaborative Minority Alcohol Research Center Development (U54) (NOT-AA-09-003) National Institute on Alcohol Abuse and Alcoholism

Requests for Applications

 Targeted Library Synthesis and Screening at Novel Targets for Potential Drug Addiction Treatments and Research Tools (R21/R33) (RFA-DA-10-005) National Institute on Drug Abuse
 Application Receipt Date(s): December 04, 2009

 Limited Competition for Continuation of the Randomized Intervention for Vesicoureteral Reflux (RIVUR) (U01) (RFA-DK-09-502) National Institute of Diabetes and Digestive and Kidney Diseases
 Application Receipt Date(s): November 18, 2009

Program Announcements

 Ancillary Studies in Clinical Trials of CNS/PNS Disorders NINDS Accelerated Awards Program (R01) (PAR-09-263) National Institute of Neurological Disorders and Stroke
 Application Receipt/Submission Date(s): 04/16/2010; 08/16/2010; 12/16/2010; 04/15/2011; 08/16/2011; 12/16/2011; 04/16/2012; 08/16/2012

To Subscribe to the NIH Guide LISTSERV, send an e-mail to listserv@listserv.nih.gov with the following text in the message body (not the "Subject" line): subscribe NIHTOC-L your name (Example: subscribe NIHTOC-L Bill Jones)
Before you start planning any grant do a complete literature search for what is already published on your topic.

Do some homework to find out what is the level of interest by other foundations, agencies or NIH institutes on your topic.
Federal Grants
Executive Departments

- Department of Agriculture (USDA)
- Department of Commerce (DOC)
- Department of Defense (DOD)
- Department of Education (ED)
- Department of Energy (DOE)
- Department of Health and Human Services (HHS)
- Department of Homeland Security (DHS)
- Department of Housing and Urban Development (HUD)
- Department of Justice (DOJ)
- Department of Labor (DOL)
- Department of State (DOS)
- Department of the Interior (DOI)
- Department of the Treasury
- Department of Transportation (DOT)
- Department of Veterans Affairs (VA)
Breast Cancer Awareness Month

This October is Breast Cancer Awareness Month— a time to recognize the importance of prevention and early detection in the fight against breast cancer.

Breast cancer is the most common cancer among women in our nation, and remains the second leading cause of cancer death for women. Thanks to the Affordable Care Act, preventive benefits like mammograms and well-woman visits are covered for many women at no out-of-pocket cost.

The Affordable Care Act also ended lifetime dollar caps on coverage, meaning women battling breast cancer can focus on staying well and living their lives.
NIH in 2012

One agency of 11 within U.S. Department of Health and Human Services (DHHS)

Comprises 27 Institutes and Centers (IC)
“NIH is the steward of medical and behavioral research for the Nation. Its mission is science in pursuit of fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to extend healthy life and reduce the burdens of illness and disability.”
NIH is made up of 27 Institutes and Centers, each with a specific research agenda, often focusing on particular diseases or body systems. NIH leadership plays an active role in shaping the agency's activities and outlook. Learn more about NIH ▶

NIH OFFICES

NIH Office of the Director (OD)
The Office of the Director is the central office at NIH for its 27 Institutes and Centers. The OD is responsible for setting policy for NIH and for planning, managing, and coordinating the programs and activities of all the NIH components. OD's program offices include the Office of AIDS Research and the Office of Research on Women's Health, among others. More about the OD ▶

NIH INSTITUTES

National Cancer Institute (NCI) — Est. 1937
NCI leads a national effort to eliminate the suffering and death due to cancer. Through basic and clinical biomedical research and training, NCI conducts and supports research that will lead to a future in which we can prevent cancer before it starts, identify cancers that do develop at the earliest stage, eliminate cancers through innovative treatment interventions, and biologically control those cancers that we cannot eliminate so they become manageable, chronic diseases. More about NCI ▶
NATIONAL INSTITUTES OF HEALTH (NIH)

- AA -- National Institute on Alcohol Abuse and Alcoholism (NIAAA)
- AG -- National Institute on Aging (NIA)
- AI -- National Institute of Allergy and Infectious Diseases Extramural Activities (NIAID)
- AR -- National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
- AT -- National Center for Complementary and Alternative Medicine (NCCAM)
- CA -- National Cancer Institute (NCI)
- DA -- National Institute on Drug Abuse (NIDA)
- DC -- National Institute on Deafness and Other Communication Disorders (NIDCD)
- DE -- National Institute of Dental and Craniofacial Research (NIDCR)
- DK -- National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
- EB -- National Institute of Biomedical Imaging and Bioengineering (NIBIB)
- ES -- National Institute of Environmental Health Sciences (NIEHS)
- EY -- National Eye Institute (NEI)
- GM -- National Institute of General Medical Sciences (NIGMS)
- HD -- National Institute of Child Health & Human Development (NICHD)
- HG -- National Human Genome Research Institute (NHGRI)
- HL -- National Heart, Lung, and Blood Institute (NHLBI)
- MD -- National Center on Minority Health and Health Disparities (NCMHD)
- MH -- National Institute of Mental Health (NIMH)
- NR -- National Institute of Nursing Research (NINR)
- NS -- National Institute of Neurological Disorders and Stroke (NINDS)
- PC -- Division of Cancer Control and Population Science (NCI)
- RG -- Center for Scientific Review (CSR)
- RR -- National Center for Research Resources (NCRR)
<table>
<thead>
<tr>
<th>Appl Type</th>
<th>Activity Code</th>
<th>Org Code</th>
<th>Serial Number</th>
<th>Grant Year</th>
<th>Other1</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>R01</td>
<td>CA</td>
<td>12921(9)</td>
<td>-04</td>
<td>S1A1</td>
</tr>
</tbody>
</table>

- **Application Type Code** – A single-digit code identifying the type of application received and processed. In the example above, the "3" indicates that this is a supplement. ("1"=New, "5"=non-competing continuation)
- **Activity Code** (Also referred to as an Instrument Code) – A three-digit code identifying a specific category of extramural activity (R=Research).
- **Organizational Code** (Also referred to as an IC Code) – A two-letter code identifying the first major-level subdivision. In the example above, "CA" refers to the National Cancer Institute.
- **Serial Number** – A five-digit number generally assigned sequentially to a series within an Institute, Center, or Division. Currently the National Cancer Institute is the only IC using the six-digit serial number.
- **Suffixes** – A field composed of the following components:
  - **GRANT YEAR** – A two-digit number indicates the actual segment or budget period of a project. The grant year number (01, 02, etc.)
  - **SUPPLEMENT** – The letter "S" and related number identify a particular supplemental record; e.g., S1, S2.
  - **AMENDMENT** (Resubmission = New field name in Grants.gov) – The letter "A" and related number identify each amended application e.g., A1.
NIH Grant Statistics
Fiscal Year 2011

- 49,592 grant applications reviewed
  (research project grants—excludes ARRA grants)

- 8,765 new grant applications funded

- 17.7% overall success rate (down from 23%)
Research Project Grants $16,598,000,000 (53%)
R&D Contracts $3,459,000,000 (11%)
Intramural Research $3,285,000,000 (11%)
Research Mgmt & Support $1,452,000,000 (5%)
Other Research Grants $1,807,000,000 (6%)
Research Centers $3,034,000,000 (10%)
Research Training $783,000,000 (3%)
All Other $821,000,000 (3%)
## UW, SMPH and DOM Ranking

<table>
<thead>
<tr>
<th>University Rank</th>
<th>School of Medicine</th>
<th>Department of Medicine (Includes Cancer Center)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rank Total</td>
<td>% of dollars</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>35</td>
<td>$131,812,044</td>
</tr>
<tr>
<td>2010</td>
<td>20</td>
<td>34</td>
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<tr>
<td>2009</td>
<td>19</td>
<td>34</td>
</tr>
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<td>2008</td>
<td>20</td>
<td>34</td>
</tr>
<tr>
<td>2007</td>
<td>20</td>
<td>34</td>
</tr>
</tbody>
</table>
NIH has their own acronyms and technical terms—see:


# Glossary & Acronym List

For a complete list of acronyms only, go to Acronym List.

To Search this Page, use the Find Command (Ctrl-F).

## - A -

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Research Enhancement Award (AREA - R15)</td>
<td>Grant award stimulating research at health professional academic institutions with less than $3 million of NIH support in total costs in four or more of the last seven years. Go to <a href="http://grants.nih.gov/grants/guide/pa.html">AREA</a></td>
</tr>
<tr>
<td>Accession Number</td>
<td>Related to electronic submission of applications, the Accession number is the Agency tracking number provided for the application after Agency validations.</td>
</tr>
<tr>
<td>Account</td>
<td>As used by the NIH eRA Commons, a personal account an individual uses to log into the NIH eRA Commons which is identified by a unique combination of username and password.</td>
</tr>
<tr>
<td>Account Administrator (AA)</td>
<td>An individual typically in the grantee organization's central research administration office designated by a SO to facilitate the administration of NIH eRA Commons accounts. The AA can create, modify and/or remove the necessary accounts for these types: AO, AA, FSR, PI or ASST. Although the AA can create additional accounts, the AA cannot modify institutional profile (IPF) information.</td>
</tr>
<tr>
<td>Acquisition</td>
<td>Obtaining supplies or services by the federal government with appropriated funds through purchase or lease. See Contract – R&amp;D.</td>
</tr>
<tr>
<td>Active Grant</td>
<td>A grant meeting the following criteria:</td>
</tr>
<tr>
<td></td>
<td>1. Today's date is between the budget start and end dates.</td>
</tr>
<tr>
<td></td>
<td>2. The grant has an eRA System (IMPAC II) application status code of &quot;Awarded. Non-fellowships only.&quot; or &quot;Awarded. Fellowships only.&quot;</td>
</tr>
<tr>
<td>Activity Code</td>
<td>A 3-character code used to identify a specific category of extramural research activity, applied to various funding mechanisms. NIH uses three funding mechanisms for extramural research awards: grants, cooperative agreements and contracts. Within each funding mechanism, NIH uses 3-character activity codes (e.g., F32, KO8, PO1, RO1, T32, etc.) to differentiate the wide variety of research-related programs NIH supports. A comprehensive list of activity codes may be found on the Types of Grant Programs Web page.</td>
</tr>
<tr>
<td>ADAMHA</td>
<td>See Alcohol, Drug Abuse, and Mental Health Administration.</td>
</tr>
<tr>
<td>Administrative Expenses</td>
<td>Expenses incurred for the support of activities relevant to the award of grants, contracts, and cooperative agreements and expenses incurred for general administration of the scientific programs and activities of the</td>
</tr>
</tbody>
</table>

### Glossary & Acronym List

For a complete list of acronyms only, go to Acronym List.

To Search this Page, use the Find Command (Ctrl-F).
Sponsored projects are research, training, instructional, or outreach/public service projects involving funds, materials, other forms of compensation, or exchanges of in-kind efforts from sources external to UW under awards or agreements.

Ex: Grants, Research Contracts, Cooperative Agreements, MTAs, Confidentiality (Non-disclosure) Agreements, etc
Glossary
“Principal Investigator”
An individual designated to direct the project or activity being supported by the grant.

He or she is responsible and accountable to the university and the sponsor for the proper conduct of the project or activity.

Faculty automatically have PI status.
Glossary

“Key Personnel”

The PI and other individuals (Co-I or Collaborators) who contribute to the scientific development or execution of a project in a substantive, measurable way, whether or not they receive salaries or compensation under the grant.

Consultants (are from other universities) also may be considered key personnel if they meet this definition or OSC (Other Significant Contributor) internally.
Glossary

“Authorized Organization Representative (AOR)”

The individual, named by the applicant organization, who is authorized to act for the applicant and to assume the obligations imposed by the Federal laws, regulations, requirements, and conditions that apply to grant applications or grant awards. This official is equivalent to the Signing Official in the eRA Commons, i.e., holds the SO Role.

Responsibilities include: Submitting the grant on behalf of the company, organization, institution, or Government. Signing grant applications and the required certifications and/or assurances necessary to fulfill the requirements of the application process.
Glossary
“Direct Costs”

Costs that can be identified specifically with a particular sponsored project, (for example: glassware, reagents, animals or any cost that can be directly assigned to such project relatively easily with a high degree of accuracy.
Glossary

“Indirect or Facilities and Administrative (F&A) Costs”

Costs that are incurred by a grantee for common or joint objectives and cannot be identified specifically with a particular project or program (i.e., rent, clean-up).

(OMB Circular A-21, Section F)
Know which kind of grant is right for you!

**R01** – Individual Res Project
**R03** – Small research Grant (100K)
**R15** – Acad Res Enhn Award
**R43** – Small Business Innov Res 1
**F series**– Ind Fellowships
**U series** – contracts

**P01** – Program Project Grant (PRG)
**R13** – Conferences
**R21** – Development Awards (275K/2 years)
**R44** – Small Business Innov Res II
**K series**– Research Career Development
**K99/R00** – Pathway to Independence Award
NIH Award Mechanisms: Research Project Grants

- **Traditional** – “Research Project Grant”  
  R01 investigator – initiated, up to 5 years and renewable — considered “established” once funded
- **Exploratory/Development Grants** –  
  R03 Small Research grant (100K – 2 years)  
  R21 Development grant (275K – 2 years)  
  (considered a stepping-stone to R01)
- **R33/R34 Clinical Trial Planning Grant**
NIH Award Mechanisms: Research Project Grants

- Program Project Grant (PPG) – P01
- Research Center Grants – P20 and P50
- Small Business – R41, R42, R43, R44
- Career Development Awards – K Series
Research Training and Career Awards

- Training Grants – T32
  - Institutional
  - Predoctoral and Postdoctoral
- Fellowships – F
  - Individual
    - Predoctoral – F31
    - Postdoctoral – F32
- Cooperative Agreements (contracts) - U
<table>
<thead>
<tr>
<th>Mechanism(s)</th>
<th>Program Description</th>
<th>Application Form</th>
<th>Cycle I Due Date</th>
<th>Cycle II Due Date</th>
<th>Cycle III Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>R01 new</td>
<td>Research Grants</td>
<td>SF-424 (R&amp;R)</td>
<td>February 5</td>
<td>June 5</td>
<td>October 5</td>
</tr>
<tr>
<td>K series new</td>
<td>Research Career Development</td>
<td>PHS 398</td>
<td>February 12</td>
<td>June 12</td>
<td>October 12</td>
</tr>
<tr>
<td>R03, R21, R33, R21/R33, R34, R36 new</td>
<td>Other Research Grants</td>
<td>SF-424 (R&amp;R)</td>
<td>February 16</td>
<td>June 16</td>
<td>October 16</td>
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<tr>
<td>R01 renewal, resubmission, revision</td>
<td>Research Grants</td>
<td>SF-424 (R&amp;R)</td>
<td>March 5</td>
<td>July 5</td>
<td>November 5</td>
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<tr>
<td>K series renewal, resubmission, revision</td>
<td>Research Career Development</td>
<td>PHS 398</td>
<td>March 12</td>
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<td>March 16</td>
<td>July 16</td>
<td>November 16</td>
</tr>
</tbody>
</table>

**Review and Award Cycles**

<table>
<thead>
<tr>
<th></th>
<th>Cycle I</th>
<th>Cycle II</th>
<th>Cycle III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific Merit Review</td>
<td>June - July</td>
<td>October - November</td>
<td>February - March</td>
</tr>
<tr>
<td>Advisory Council Review</td>
<td>September - October</td>
<td>January - February</td>
<td>May - June</td>
</tr>
<tr>
<td>Earliest Project Start Date</td>
<td>December</td>
<td>April</td>
<td>July</td>
</tr>
</tbody>
</table>

**Holidays/Weekend**

When a standard postmark/submission date falls on a weekend or Federal holiday, the date will be extended to the next business day.
To help ensure that a diverse pool of highly trained scientists are available in adequate numbers and in the appropriate research areas to address the Nation’s biomedical, behavioral, and clinical research needs.
Mentored K Awards: Which One?

K01: Research Scientist Award

- Provides an intensive, mentored research experience
- Candidates normally must have a research or health professional doctorate & postdoctoral experience
- Not an extension of postdoctoral training
- Varied and limited NIH IC participation
  - Some ICs use for re-entry
  - Some ICs use to pursue new research area
- Requires plan for independence
K08: Clinical Scientist Award

- Supervised research experience for individuals with health professional degree who are committed to a career in laboratory or field-based research

- Phased award period
  - “hands-on” research experience

- Can support non-patient-oriented research
K23: Patient–Oriented Research

- 3–5 yrs supervised study & research for clinically trained professionals with a commitment to focus research on patient–oriented research (POR)

- POR is defined as research conducted with human subjects (or material of human origin such as tissues, specimens)

- Requires clinical doctorate or equivalent

- Must have completed clinical training, (including sub–specialty if applicable) prior to award
K99/R00: Transition K to R

- Provides up to 5 years of support in two phases
- K99: Provides an intensive, mentored research experience for up to 2 years
- R00: Independent scientist phase; transition to research independence as junior faculty (up to 3 years of support)
- Applicants: no more than 5 years of postdoctoral research training at the time of initial application or resubmission(s)
- U.S. citizens and non-U.S. citizens may apply
- Transition to R00 phase requires offer and acceptance of tenure-track, full-time assistant professor position (or equivalent)

New Investigators Program – Pathway to Independence Award:  
K12: Institutional research Scientist Award (now KL2–CTSA)

- Enhance research career development for individuals, selected by the institution, who are training for careers in specified research areas
- Provides institutions with a greater capacity for mentoring junior investigators
- Not transferable to another institution
- Usually solicited by a Funding Opportunity Announcement (FOA)
NIH Training and Career Development Timetable

Approx. Stage of Research Training and Development

Activity Codes

- Predoctoral Institutional Training Grant (T32)
- Predoctoral Individual NRSA (F31)
- Predoctoral Individual MD/PhD NRSA (F30)
- Postdoctoral Institutional Training Grant (T32)
- Postdoctoral Individual NRSA (F32)
- NIH Pathway to Independence (PI) Award (K99/R00)
- Mentored Research Scientist Development Award (K01)
- Mentored Clinical Scientist Development Award (K08)
- Mentored Patient-Oriented RCDA (K23)
- Mentored Quantitative RCDA (K25)
- Midcareer Investigator Award in Patient-Oriented Research (K24)
- Senior Scientist Award (K05)

Small Grant (R03)
Exploratory/Development Grant (R21)
Research Project Grant (R01)
Who is RESPONSIBLE?

THE INTERNAL TEAM

- Principal Investigator “PI”
- Authorized Organizational Reps “AOR”
- Research Administrator “RA”
Grantee Institution Team

Successful grants require close coordination between all members of the grantee team.

- Grants are awarded to institutions as represented by AORs.
- PIs manage and perform the science
- Research Administrators support business aspects of the grant
The Grantee Institution

- Actual recipient of award
- Legally responsible for proper conduct and execution of grant
- Provides fiscal management
- Provides oversight on allocation decisions
- Assures compliance with Federal, NIH, and organization-wide requirements
Responsibilities of the Authorized Organization Representative (AOR)

[aka Authorized Organizational Official (AO)]
[aka Signing Official (SO)]

Designated Rep of the grantee institution.
- Accountable for appropriately utilizing Federal funds and for the performance of a project
- Signs all official correspondence to NIH, including grant applications, financial reports, assurances, and certifications.
Responsibilities of the Principal Investigator(s) (PIs)

*Designated by the grantee institution:*

- Responsible for the scientific and technical aspects of project
- Directly manages the project on a day-to-day basis
- Assures scientific compliance by maintaining contact with the NIH Program Officer
- Coordinates with other PDs/PIs on projects with multiple Principal Investigators
Responsibilities of the Research Administrator

Acts as an agent of the Principal Investigator and the Authorized Organizational Representative

- Gathers information needed to ensure compliance with Federal regulations, as well as organization-wide requirements
- Provides essential grant-related support
- Cannot assume responsibilities assigned to the Authorized Organizational Representative or the PI
NIH’s ROLE: The NIH Extramural Team

- Review Staff
- Grants Management
- Program Staff
Program Staff: Program Administrator

(aka Program Officer or Program Director)

Responsible for the programmatic, scientific, and/or technical aspects of a grant
Grants Staff: Chief Grants Management Officer (CGMO)

Responsible for ensuring that all required business management actions are performed by the grantee and the federal government in a timely and appropriate manner both prior to and after award.
Grants Staff: Grants Management Specialists

- Assist GMOs/CGMOs in managing and awarding grants
- Answer questions about completing application forms
- Provide guidance on the administrative and fiscal aspects of an award
- Help navigate NIH grants management information on the Web
Review Staff: Scientific Review Officer (SRO)

- Responsible to NIH for the scientific and technical review of applications
  - 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
  - **Review applications for completeness and conformance with application requirements**
- **Point of contact for applicants during the review process**
Center for Scientific Review (CSR)

- Central receipt point for most PHS applications
  - *Electronic* via Grants.gov
  - *Paper* via delivery service
- Assigns application to NIH Institute/Center
- Assigns application to peer review group
  - CSR: Integrated Review Group/Study Section
  - IC: Scientific Review Group
- *CSR conducts initial scientific merit review of most NIH research applications*
Electronic SF424 R&R submitted through grants.gov

Paper PHS 398 delivered to CSR

CSR Referral Office

Application assessed for completeness & eligibility

Notice of assignment available in eRA Commons in 4 weeks.

1st Month

2nd Month

CSR assigns application to NIH Institute

CSR assigns application number

CSR assigns application to Integrated Review Group
Review of Applications

• 23 CSR Integrated Review Groups
  • 220 standing Study Sections
  • 300 + Special Emphasis Panels

• Review groups at each IC
  • Dozens of standing Study Sections
  • Several hundred SEP meetings

3rd Month → 4th Month
Who Reviews Grant Applications?

- 1st Level of Review is done by Scientists (peers) with appropriate expertise -- recruited by the SRO

- Assigned to specific applications based on content

- 4 year term typical

- Temporary reviewers sought as needed
After 1st Level Review

- Priority Scores recorded
- Summary Statements prepared
  - Overall Resume and Summary of Review Discussion
  - Essentially Unedited Critiques
  - Priority Score and Percentile Ranking
  - Budget Recommendations
  - Administrative Notes

- Viewable 4–6 weeks after review meeting
  - *Only available through the eRA Commons*
2nd Level Review

- National Advisory Council or Board assesses quality of 1st level review
  - Concurs with or modifies IRG action
  - Reads summary statements only

- Can also designate application as “High” or “Low” program priority for funding
What’s New in Peer Review
Jan 2010

- New Investigators/Early Stage Investigators
- Enhanced Review Criteria
- Scoring Scale (9 point scale; 1 = best)
  - Criterion Scoring
  - Overall Impact Score
New Investigators/Early Stage Investigators

- **New Investigator (NI):**
  PI who has not yet **competed successfully** for a substantial NIH research grant
  - For multiple PIs—all PIs must meet requirements for NI status

- **Early Stage Investigator (ESI):**
  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)
  - SET up in COMMONS

- **Applies only to R01 applications**
- **New Investigators/Early Stage Investigators will be clustered together for review**
Overall Impact:
\[\text{Assessment of the likelihood for the project to exert a sustained, powerful influence on the research field(s) involved}\]

New Core Criteria Order:
- **Significance** – Research Strategy Section
- **Investigator(s)** – Biosketches
- **Innovation** – Research Strategy Section
- **Approach** – Research Strategy Section
- **Environment** – Facilities and Other Resources
Critique Improvements

Goal: To improve the quality of the critiques and to focus reviewer attention on the review criteria:

- Provide clear, concise, and explicit information
- Aid in identifying the strengths and weaknesses of each criteria
## Scoring – 9 Point Scale
*(Scores given from 10 to 90)*

<table>
<thead>
<tr>
<th>Impact</th>
<th>Score</th>
<th>Descriptor</th>
<th>Strengths/Weaknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Impact</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>10</td>
<td>Exceptional</td>
<td><strong>Strengths</strong></td>
</tr>
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<td>Outstanding</td>
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<td></td>
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<td>Excellent</td>
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<td>** Moderate Impact**</td>
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<tr>
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<td>40</td>
<td>Very Good</td>
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<td><strong>Low Impact</strong></td>
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<td>70</td>
<td>Fair</td>
<td><strong>Weaknesses</strong></td>
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<tr>
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<td>80</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>90</td>
<td>Poor</td>
<td></td>
</tr>
</tbody>
</table>
Who Makes Actual Funding Decisions?

The Institute Director
(aka Program Officer)!

**Email him/her early and often to learn what they are willing to fund!**

Factors Considered:
Scientific Merit
Contribution to Institute Mission
Program Balance
Availability of Funds
NIH Peer Review Revealed - Video


http://www.youtube.com/watch?v=fBDxI6l4dOA&feature=youtu.be

Any Questions