U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health

Peer Review of NIH Research Grant Applications

Anthony M. Coelho, Jr., Ph.D.

Review Policy Officer
Office of the Director NIH
Office of Extramural Research

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health

Important Things to Know:

1. The handout material is a reference resource for you

2. The handout contains more information than I will cover

3. Information that is important is repeated to remind you that it is important

Anthony M. Coelho, Jr., Ph.D.
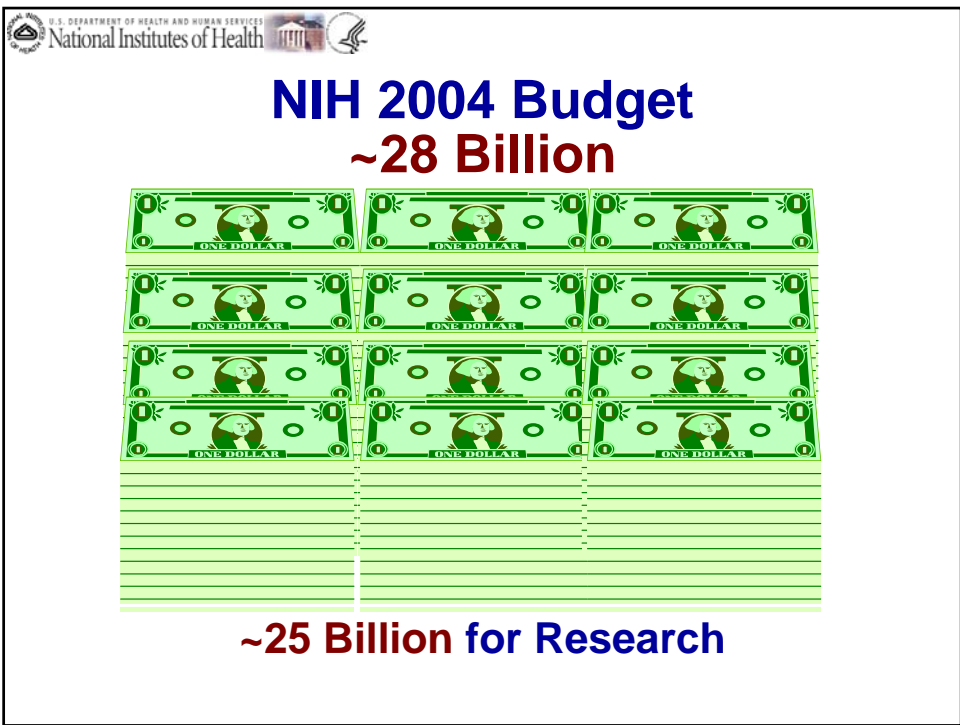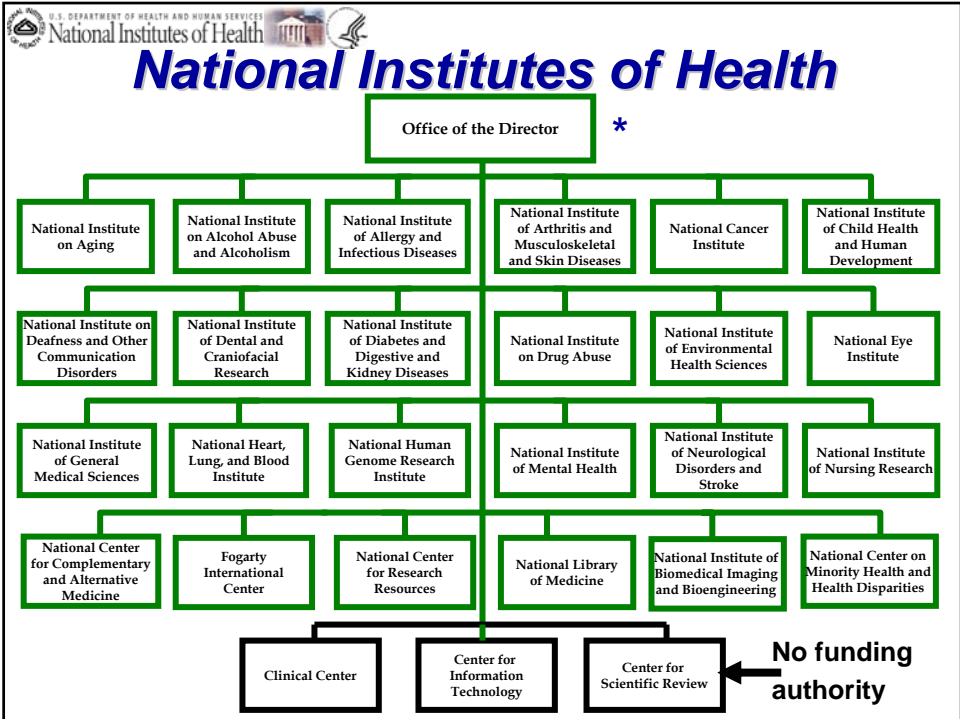### Review Policy Officer

Previous Experience:

Scientific Review Administrator and
Chief - Clinical Studies and Training
Scientific Review Group - NHLBI   **7 years**
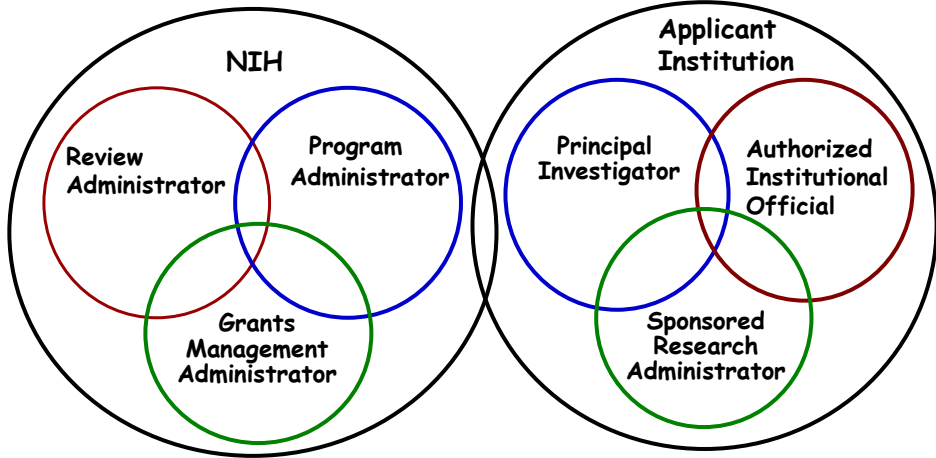
Peer Reviewer   **12 years**

Funded Investigator   **18 years**
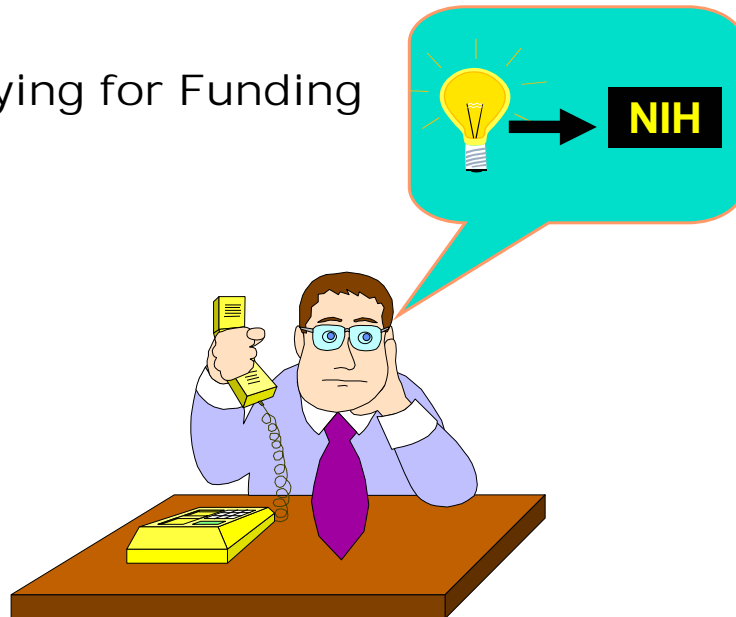

- **NIH Peer Review Process based on Laws**

- **NIH Peer Review Practices based on Study Section Culture**

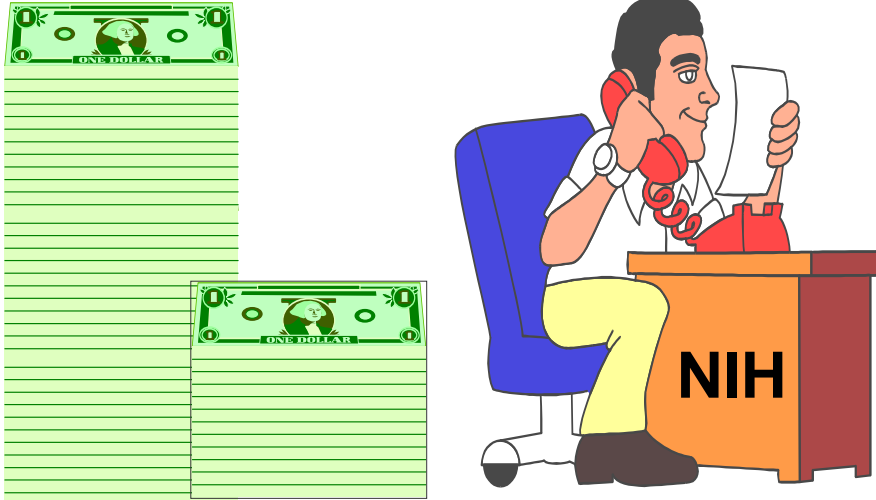- **My objective is to help you understand both**

National Institutes of Health
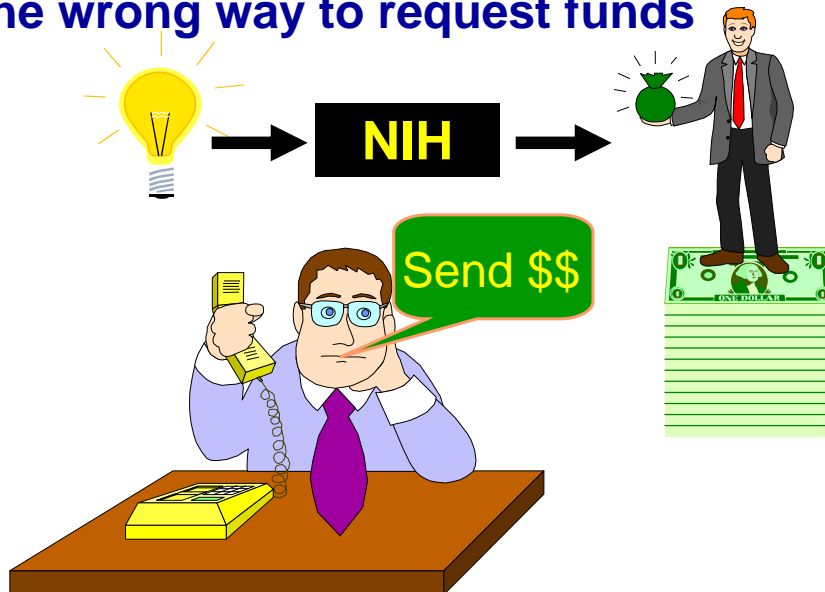
Office of the Director *

National Institute on Aging	National Institute on Alcohol Abuse and Alcoholism	National Institute of Allergy and Infectious Diseases	National Institute of Arthritis and Musculoskeletal and Skin Diseases	National Cancer Institute	National Institute of Child Health and Human Development
National Institute on Deafness and Other Communication Disorders	National Institute of Dental and Craniofacial Research	National Institute of Diabetes and Digestive and Kidney Diseases	National Institute on Drug Abuse	National Institute of Environmental Health Sciences	National Eye Institute
National Institute of General Medical Sciences	National Heart, Lung, and Blood Institute	National Human Genome Research Institute	National Institute of Mental Health	National Institute of Neurological Disorders and Stroke	National Institute of Nursing Research
National Center for Complementary and Alternative Medicine	Fogarty International Center	National Center for Research Resources	National Library of Medicine	National Institute of Biomedical Imaging and Bioengineering	National Center on Minority Health and Health Disparities

Clinical Center	Center for Information Technology	Center for Scientific Review

← **No funding authority**

NIH 2004 Budget
~28 Billion

~25 Billion for Research

The Research Partnership

NIH
- Review Administrator
- Program Administrator
- Grants Management Administrator

Applicant Institution
- Principal Investigator
- Authorized Institutional Official
- Sponsored Research Administrator

Applying for Funding

NIH

Offices at NIH

The wrong way to request funds

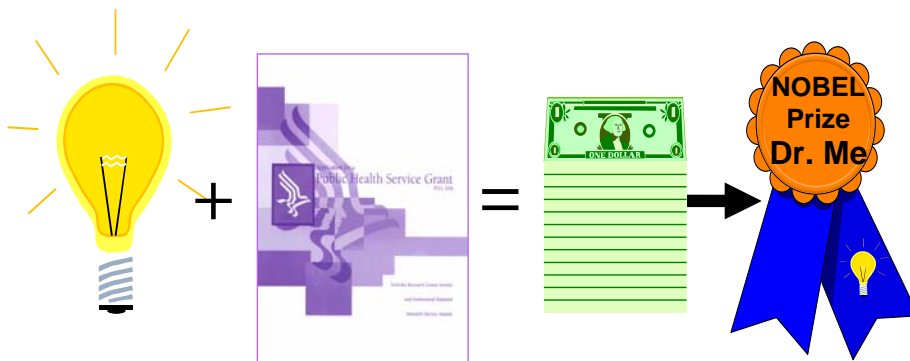**Response to the wrong form of request**

Correct Way to request Funds

Application for a
Public Health Service Grant
PHS 398

Includes Research Career Awards
and Institutional National
Research Service Awards

PHS Research Grant Application Kit (form PHS 398)

Electronic Forms and Instructions

Application for a
Public Health Service Grant
PHS 398

Includes Research Career Awards

and Institutional National

Research Service Awards

Great Expectations

+ = →

Public Health Service Grant
PHS 398

Includes Research Career Awards
and Institutional National
Research Service Awards

ONE DOLLAR

NOBEL Prize Dr. Me
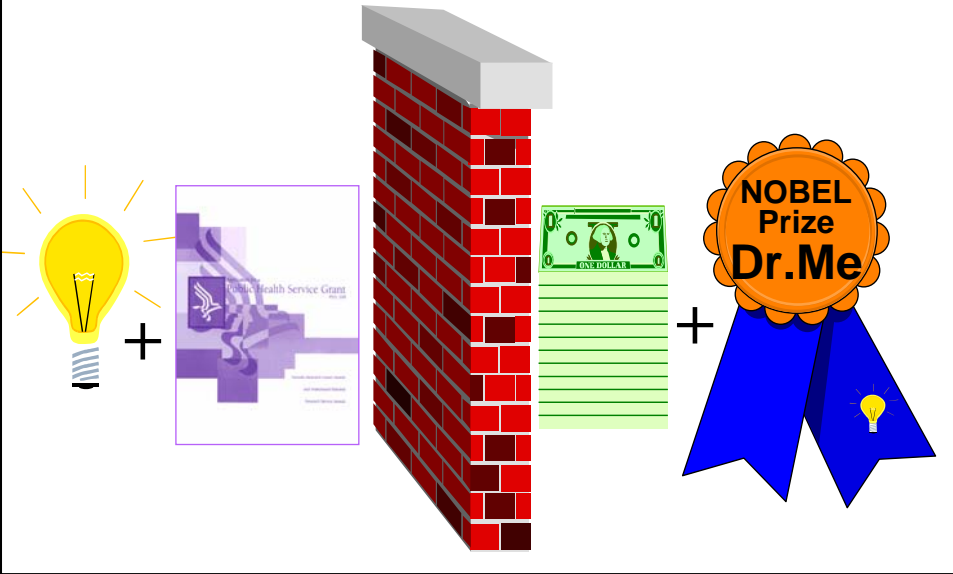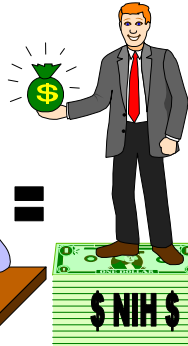
NIH GRANT$

Formula for Grant Success

Elements of Grant Success

Good Ideas

Good Reviewers

Good Timing

Good Luck

Good Presentations

Good Grantsmanship

National Institutes of Health

Good Grantsmanship

*Knowing + Understanding
- **What to do**
- **How to do it**
- **When to do it**
- **What to do when things don't go as planned**

*Being willing to do what is needed
- **Passion and Commitment**

*Doing it- doing what is needed
- **Commitment**
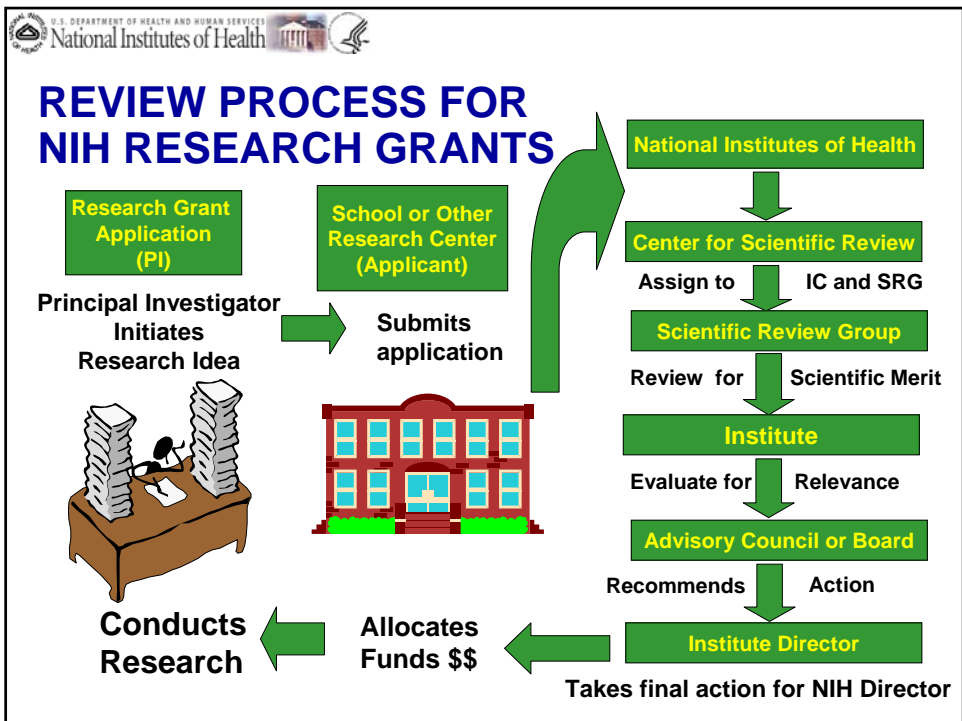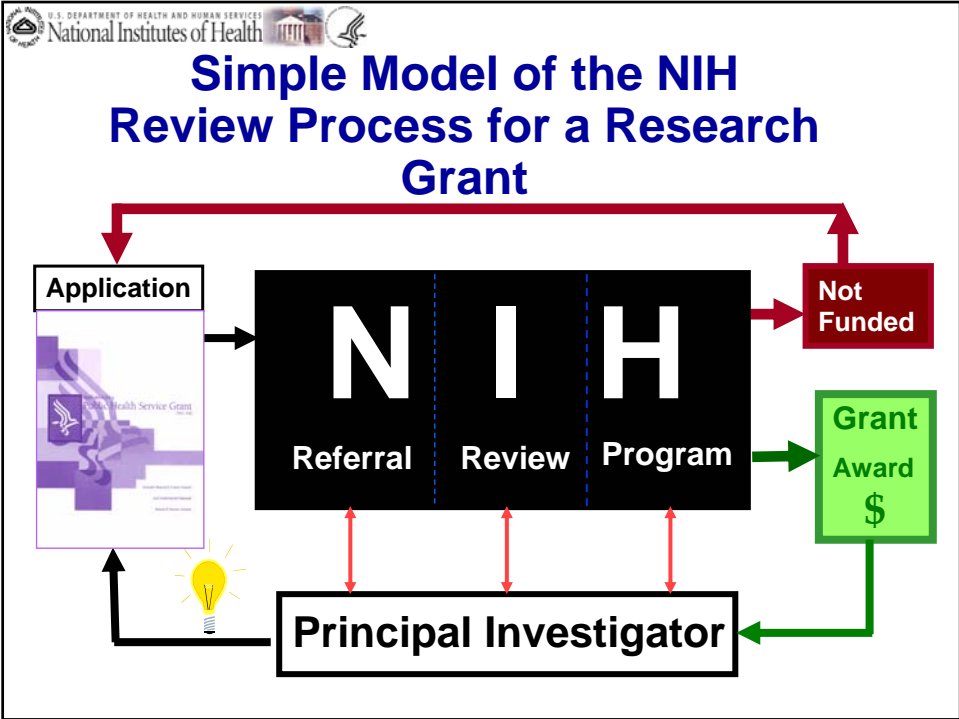
* Understanding Peer Review

National Institutes of Health

The "other" method of applying for grant funds

Understanding
NIH Peer Review

Simple Model of the NIH Review Process for a Research Grant

REVIEW PROCESS FOR NIH RESEARCH GRANTS
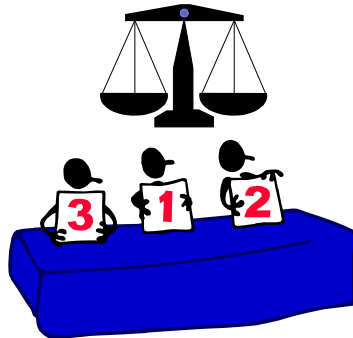
Dual Review System for Grant Applications

First Level of Review

Scientific Review Group (SRG)

Provides Initial Scientific Merit

Review of Grant Applications

Rates Applications and

Recommends for Level of Support

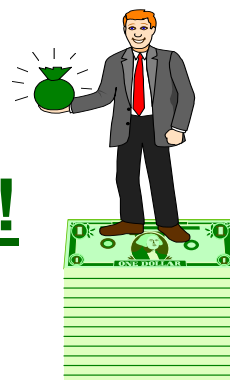and Duration of Award

Second Level of Review

Advisory Council

Assesses Quality of SRG Review of Grant
   Applications

Makes Recommendation to Institute Staff on
   Funding

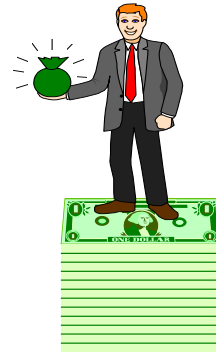Evaluates Program Priorities and Relevance

Advises on Policy

Rule #1

STUDY SECTIONS DO NOT FUND !

INSTITUTES FUND!

Rule #2

You must satisfy the needs of reviewers and the needs of the funding agency

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STUDY SECTIONS JUDGE

Scientific and Technical Merit

Institute staff use the evaluations as part of the process of considering the relevance of applications to the Institute's mission, research priorities and portfolio of existing research

STUDY SECTIONS DO NOT FUND !

INSTITUTES FUND!

Grant Application
Receipt and
Assignment

Applications Submitted to NIH

- **Approximately 65,000+ grant applications are submitted to NIH each year,**
- **25-30% are funded**
- **Competing grant applications are received for three review cycles per year**

Timeline

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health

Submission	Review	Post-Review Phase		
Oct 1/Nov 1*'03	Feb Mar '04	Mar- Jun'04	May/Jun '04	Jul 1 '04
Feb 1/Mar 1* '04	Jun Jul '04	Sep 30'04	Sep/Oct '04	Dec 1 '04
Jun 1/Jul 1* '04	Oct Nov '04	Nov- Feb'05	Jan/Feb '05	Apr 1 '05

Standard Receipt Date (new/ *revised and continuation)

Initial Peer Review

Council Meeting; Funding Approved for Nonexpedited and Special Action Awards

Anticipated Award

Funds Released for Payline Grants Chosen for Expedited Second-Level Review

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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health

Receipt Dates * **

Depend on the Type of Application

- **Jan, May, Sept 10:** Institutional Training Grant
- **Jan, May, Sept 25:** Academic Research Enhancement Award
- **Mar, Jul, Nov 1:** Revised, Competing Continuations, and Supplements
- **April, Aug, Dec 1:** Small Business Technology Transfer
- **April, Aug, Dec 5:** Individual NRSA
- **April, Aug, Dec 1:** Small Business Innovation Research
- **May, Sept, Jan 1:** AIDS

* RFA and RFP dates defined in the solicitations

** ALWAYS check with Institutes to verify dates

????
What Happens To Your Application When It Arrives at NIH
????

Center for Scientific Review (CSR)
Focal Point for Receipt and Referral

• **Central receipt point for PHS applications**

• **Referral to Institutes (Funding Components) and to Study Sections (Review Components)**

• **CSR study sections reviews of most investigator initiated research and research training applications for scientific merit**

Assignment to CSR Study Sections

Applications assigned to study sections known as Scientific Review Groups (SRG) based on:

1. **specific referral guidelines for each SRG and**
2. **information contained in your application**

(Go to the Website http://era.nih.gov/roster/index.cfm

to learn about study sections – their scientific mission and their scientific membership)

WHO/WHAT DETERMINES WHICH GROUP REVIEWS THE APPLICATION?

- **Mechanism**
  - Type of application
    - CSR or Institute Review
- **Referral and Review Staff**
- **Past Review History** (if any) of application
- **Principal Investigator**
  - Letter attached to application; self-referral

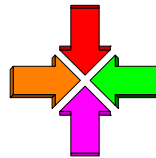## *Peer Review of NIH Support Mechanisms*

Who Reviews What ?

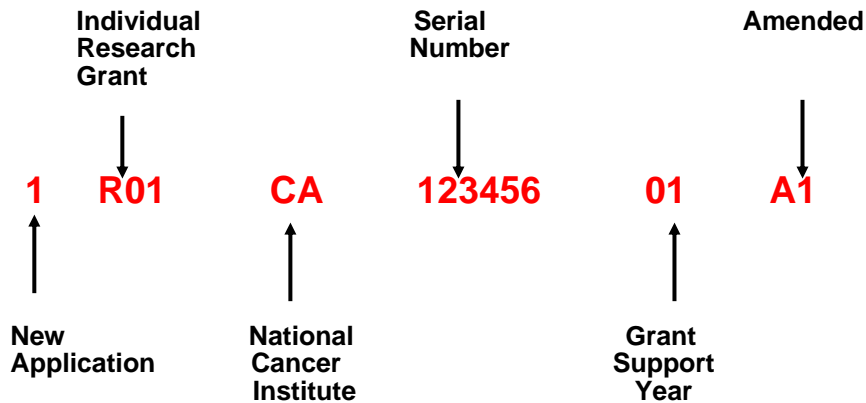| CSR	Institutes
Research Project Grant (R01)	Program Project Grant (P01)
Postdoctoral Fellowship (F32)	Center Grant (P30, P50, P60)
Senior Fellowship (F32)	Institutional Fellowship (T32)
Fogarty International Center Fellowship (F05, F06)	Academic Career Award (K07)
Short-Term Training (T35)	Mentored Clinical Scientist Development Award (K08)
Small Business Grants (R41, R42 R43, R44)	Conference Grant (R13)*
Academic Research Enhancement Award (R15)	Marc Fellowships (F34, F36, T34)
Biomedical Research Support	Minority Biomedical Support Grant (S06)
Shared Instrumentation Grant (S10)	Resource Grant (P40, P41, R24, R26, R28)
	RFA - Request for Applications
	R&D - Contracts

WHO/WHAT DETERMINES WHICH GROUP REVIEWS THE APPLICATION?

YOU DO!

- **The words that are in your application**
- **Your title**
- **Your abstract**
- **Your specific aims**
- **Your methods**

Sample Application Number

Individual Research Grant	Serial Number	Amended

1   R01   CA   123456   01   A1

New Application   **National Cancer Institute**   **Grant Support Year**

Assignment Notification Letter

Dear Dr. Sample:

Your grant application entitled "CEREBRAL VESSEL INNERVATION IN HYPERTENSION" has been received by the National Institutes of Health and assigned to a Scientific Review Group (SRG) for scientific merit evaluation and to an Institute/Center for funding consideration. Specific information about your assignment is given below. The initial peer review should be completed by March, 2001, and a funding decision made shortly after the appropriate National Advisory Group meets in May, 2001. Questions about the assignment should be directed to the Scientific Review Administrator (SRA) or the Division of Receipt and Referral, Center for Scientific Review at (301) 435-0715. Other questions prior to review should be directed to the Scientific Review Administrator and questions after the review to the program staff in the Institute/Center.

Assignment Notification Letter (continued)

Principal Investigator: Sample Pamela

Assignment Number: 2 R01 HL12345 - 12A1

Dual Assignment: NS

Scientific Review Group:

Epidemiology and Disease Control Subcommittee 2 SS (EDC2)

A roster of the membership of this Scientific Review Group located on the following website:

http://era.nih.gov/roster/index.cfm

Assignment Notification Letter (continued)

Scientific Review Administrator:
DR. DAVID MONSEES, SRA
CTR FOR SCIENTIFIC REV
6701 ROCKLEDGE DR RM 3199 MSC7802
BETHESDA   MD 20892
(301) 435-0684

Assigned Institute/Center:
NATL HEART, LUNG, & BLOOD INST
DIV/EXTRAMURAL AFFAIRS RK2 7100
NATIONAL INSTITUTES OF HEALTH
BETHESDA, MD 20892
(301) 480-5295

Assignment Notification Letter (continued)

IMPORTANT NOTICE: Please review the information on human and animal subjects research located at:

http://grants.nih.gov/grants/peer/hum_anim_notice.pdf

as these requirements will affect the priority score on your application.

Study Section Meeting: Scientific Review Groups

TYPES OF REVIEW COMMITTEES:

Chartered Study Sections

- when the subject matter of the application matches the referral guidelines for the standing study section

Special Emphasis Panels (SEPs)

- when the subject matter does not fit into any study section, or
- when assignment of an application to the most appropriate study section would create a conflict of interest, or
- Special Mechanisms (RFA, Fellowships, SBIRs, AREAS, etc.)

Study Sections at NIH

- **Study Sections are managed by a Scientific Review Administrator (SRA)** who is a professional (at Ph.D. or MD level) whose scientific background is close to the expertise of the study section

- **Each standing study section has 12 - 24 members** who are primarily from academia

- **60 - 100 applications** are reviewed at each study section meeting

- **Several hundred study section meetings**

- **Special Emphasis Panels** vary in size and number of applications that they review per meeting

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SCIENTIFIC REVIEW GROUP

Scientific Review Administrator
- Recruits and selects reviewers
- Insures that the review that is competent, thorough and fair (unbiased)
- Proper review criteria used to evaluate application

Reviewers
- Some charter members; some temporary members
- Scientists with appropriate expertise
- High professional profiles
- Dependable, reasonable, open minded

Grants Technical Assistant
- Mails material to reviewers
- Handles paperwork
- Organizes meeting room
- Enters scores and codes
- Assists with summary statements

Center for Scientific Review

Example of Varied Expertise on a Sample Study Section

Surgery, Anesthesiology and Trauma Study Section
Selected Areas of Competence of Members

Biochemistry
Burn Physiology and Electrolyte Metabolism
Cardiovascular and Pulmonary Physiology
Clinical Anesthesiology
Drug Metabolism (Anesthetics)
General Surgery
Immunology and Transplantation
Nutrition
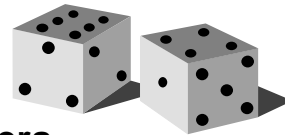**Pharmacology (Analgesics, Narcotics and Antagonists)**
Pulmonary Embolism
Shock and Trauma
Toxicology of Anesthetic Drugs
Vascular Surgery

WHO ASSIGNS REVIEWERS TO MY APPLICATION?

- **Scientific Review Administrator**
  Assignment to Specific Reviewers
  - **Based on application content**
  - **Based upon expertise of reviewers**
  - **Based upon knowledge of the field**
  - **May consult with Institute staff**
  - **May consult with chairperson**
  - **Suggestions from PI on _type of expertise needed_ to evaluate (_NEVER names_)**
  - **Considers review history**

Criteria For Selection of Peer Reviewers

- **Demonstrated Scientific Expertise**
- **Doctoral Degree or Equivalent**
- **Mature Judgment**
- **Work Effectively in a Group Context**
- **Breadth of Perspective**
- **Impartiality**
- **Interest in Serving**
- **Adequate Representation of Women and Minority Scientists**

Certification of No Conflict of Interest

This will certify that in the review of applications and proposals by **(study section)** on **(date),** I did not participate in the evaluation of any grant or fellowship applications from (1) any organization, institution or university system in which a financial interest exists to myself, spouse, parent,child, or collaborating investigators; (2) any organization in which I serve as officer, director, trustee, employee or collaborating investigator; or (3) any organization which I am negotiating or have any arrangements concerning prospective employment or other such associations.

_____   _____

SIGNATURES

_____   _____

Confidentiality

- **Review materials and proceedings of review meetings represent privileged information to be used only by consultants and NIH staff.**

- **At the conclusion of each meeting, consultants will be asked to destroy or return all review-related material.**

- **Consultants should not discuss review proceedings with anyone except the SRA.**

- **Questions concerning review proceedings should be referred to the SRA.**

WHAT HAPPENS IN A STUDY SECTION MEETING?

- **Closed to the public (FACA rules apply)**
- **Orientation**
  - Conflict of interest
  - Developments of interest to the study section
  - Changes in policy or procedure
  - Introduction of persons present
  - Role of persons present
- **Streamlining or list provisionally approved**
- **Application by application discussion**
  - **Persons with conflicts of interest excused**
  - **Assigned reviewers give preliminary scores**
  - **Discussion of application's scientific and technical merit**
  - **Assigned reviewers first, then other members**
  - **Range of scores set**

- **Every member scores every application** *
  - **Assignment of gender, minority, and children codes, human subjects codes; recommended changes to budget**

WHAT IS STREAMLINING?

Process by which reviewers judge which applications are in the lower half of those assigned for review.

Applications in the lower half are evaluated by the reviewers prior to attending the meeting but they are not discussed at the Scientific Review Group meeting.

- **Any member can object to the streamlining of an application**
- **Requires that all reviewers agree to streamline an application**
- **Streamlined applications receive written reviewer critiques**

Why?

- **Shortens meetings**
- **Reviewers more willing to serve on committee**
- **Allows more time for discussion of applications**

"Review" of Applications

- **Applications are not reviewed at the meeting. They are evaluated prior to the meeting.**

- **The meeting is a time for discussion and negotiation of a priority score and for making a recommendation that best reflects the scientific and technical merit of the application.**

- **Strong applications get brief discussion**
- **Weak application get brief discussion**
- **Marginal application get longer discussion to ensure fairness to the applicant**

Review of Research Grants

REVIEW CRITERIA:

- **Significance**
- **Approach**
- **Innovation**
- **Investigator**
- **Environment**

Described in detail in the PHS 398 application instructions

Review Criteria

- **Significance:** Does the study address an important problem? How will scientific knowledge be advanced?

- **Approach:** Are design and methods well-developed and appropriate? Are problem areas addressed?

- **Innovation:** Are there novel concepts or approaches? Are the aims original and innovative?

- **Investigator:** Is the investigator appropriately trained?

- **Environment:** Does the scientific environment contribute to the probability of success? Are there unique features of the scientific environment?

Research Involving Human Subjects

Important Considerations that must be addressed in the application because they impact on priority score - considered to be part of the Approach

- **Are there any risks* to the human subjects?**
- **Are the protections adequate?**
- **Are there potential benefits to the subjects and to others?**
- **What is the importance of the knowledge to be gained?**
- **Are the plans for inclusion of minorities, both genders and children adequately addressed?**
- **Is the proposed study exempt from human subject review?**
- **No page limits**

* "Risks" include the possibility of physical, psychological, or social injury resulting from research.

Research Involving Human Subjects

Areas of exemption

- **Education Research**
  - **normal educational practices**
- **Educational Tests, Survey or Interview Procedures, or Observation of Public Behavior**
  - **subjects not identified**
  - **subjects' privacy rights protected**
- **Educational Tests, Survey or Interview Procedures, or Observation of Public Behavior Not Exempt in Previous Category if: subjects are public officials or public office candidates federal statute requires confidentiality without exception**

Research Involving Human Subjects

Areas of exemption

- **Collection or Study of Existing Data, Documents, Records, Pathological Specimens**
  - information publicly available
  - subjects not identified
- **Research and Demonstration Projects Regarding Certain Public Benefit or Service Programs**
- **Taste and Food Quality Evaluation and Consumer Acceptance Studies Using**
  - foods without additives
  - U.S. Government approved food ingredient

Inclusion of Women and Minorities in Clinical Research

- **Women and Minorities** must be considered for inclusion in all clinical research supported by NIH

  or

- **Appropriate justification** must be provided to explain why they are not included in the proposed research

Research Involving Children

Children must be considered for inclusion in all human subject research supported by NIH

or

Appropriate justification **must be provided to explain why they are not included in the proposed research**

Research Involving Children

Children must be considered for inclusion in all human subject research supported by NIH

Effective for all new applications received after   October 1, 1998

- **Child is defined as an individual under age 21**
- **If children are included, Investigator must address**
  - **age range**
  - **expertise of investigative team**
  - **facilities**
  - **sufficient numbers**

Research Involving Children

- **If children are not included, must justify exclusion:**
  - **Topic irrelevant to children**
  - **Laws/regulations bar inclusion of children**
  - **Knowledge already available or being obtained**
  - **Separate study warranted**
  - **Unable to judge potential risk to children**
  - **Collecting data on pre-enrolled adults**
  - **Other special cases**

Vertebrate Animals

Important Considerations

- **Will the anticipated results be for the good of society?**
- **Will the work be planned and performed by qualified scientists?**
- **Will the animals be treated so as to avoid any unnecessary discomfort, pain, anxiety, or poor health?**
- **Species chosen?**
- **Animals in short supply?**

Scientific Review Group or Study Section Actions

- **Scored, Scientific Merit Rating**
- **Priority scores:**

     1 (best) to 5 (poorest) and percentiles

- **Unscored (lower half)**
- **Deferral**

Summary Statement

After the review meeting is finished, the results are documented by the SRA in a summary statement and forwarded to the PI and to the assigned NIH Institute. The assigned NIH Institute is responsible for making a funding decision.

The summary statement contains:

- **Overall Resume and Summary of Review Discussion**
- **Essentially Unedited Critiques of Assigned Reviewer**
- **Priority Score and Percentile Ranking**
- **Budget Recommendations**
- **Administrative Notes**

National Advisory Council or Board Review

Council Actions

- **Assesses Quality of SRG Review**
- **Concurs with study section action**
  or
- **Modifies SRG (study section) action**
  Can not change priority score

  - **Deferral for re-review of the same application – no changes allowed**

- **Makes Recommendation to Institute Staff on Funding, Evaluates Program Priorities and Relevance and Advises on Policy**

NIH Policy does NOT allow Rebuttal of Peer Review outcome

There is an Appeal process however Differences of Scientific Opinion Can NOT be Appealed!

NIH policy permits appeal of review outcome if

1. Procedural error in review process

2. Factual errors (not differences of interpretations or understanding)

REVISE & RESUBMIT
Do Not Appeal Review Outcome

NIH Appeal Outcomes:

1. Council Denies Appeal (bad outcome)

2. Council Accepts Appeal: Original Application and Letter of Appeal is sent to the Same Study Section for a second examination and evaluation (bad outcome)

3. Council Accepts Appeal: Original Application be sent to a new Study Section but without the Letter of Appeal (bad outcome)

Timeline Consequences

	Best Way	Revision	Appeal
Submit	Feb 04	Feb 04	Feb 04
Review	June 04	June 04	June 04
Council	Sept 04	Sept 04	Sept 04
Earliest award	Dec 04		
Review 2			Oct 04
Council 2			Jan 05
Earliest Resubmission		March 05	
Earliest Award			~~Apr 05~~
Review 2		June 05	
Earliest Resubmission			July 05
Council 2		Sept 05	
Review 3			Oct 05
Earliest Award		Dec 05	
Council			Feb 06
Earliest Award			~~June 06~~

What Determines Which Awards Are Made?

- **Scientific merit +**

- **Program Considerations +**

- **Availability of funds**

You do not want a reviewer to make this comment about your application:

"This application is characterized by ideas that are both original and scientifically important. Unfortunately the ideas that are scientifically important are not original and the ideas that are original are not scientifically important."

You do not want a reviewer to make this comment about your application:

"In addition to proposing a research design that is a fishing expedition, the applicant also proposes to use every type of bait and piece of tackle ever known to mankind."

The research that you propose in your application must be innovative and focused

NIH Information Sources

National Institutes of Health — U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

NIH GUIDE

for Grants and Contracts
U.S. Department of Health and Human Services

- **Announces NIH Scientific Initiatives**
- **Provides NIH Policy and Administrative Information**
- **Available on the NIH Web Site :**
  http://www.nih.gov
  http://grants.nih.gov/grants/guide/index.html

National Institutes of Health — U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

http://crisp.oit.nih.gov

CRISP – A Database of Biomedical Research Funded By the National Institutes of Health (NIH)

File   Edit   View   Favorites   Tools   Help

Back | Search | Favorites | Media | Links | GovOnlineLearn | NIH | OER | Personal | Travel | Yahoo!

Address http://crisp.cit.nih.gov/

CRISP

Go to CRISP Query Form

ERA Commons
Computer Retrieval of Information on Scientific Projects

.... CRISP Interface, VERSION 2.0 IS AVAILABLE, as of 1/3/2002! ....

CRISP (Computer Retrieval of Information on Scientific Projects) is a searchable database of federally funded biomedical research projects conducted at universities, hospitals, and other research institutions. The database, maintained by the Office of Extramural Research at the National Institutes of Health, includes projects funded by the National Institutes of Health (NIH), Substance Abuse and Mental Health Services (SAMHSA), Health Resources and Services Administration (HRSA), Food and Drug Administration (FDA), Centers for Disease Control and Prevention (CDCP), Agency for Health Care Research and Quality (AHRQ), and Office of Assistant Secretary of Health (OASH). Users, including the public, can use the CRISP interface to search for scientific concepts, emerging trends and techniques, or identify specific projects and/or investigators. Below you will be able to access additional general information about the CRISP database, as well as obtain answers to questions frequently asked about CRISP. In addition, this home page serves as the gateway to interactive searching of Award Information. From here, you may select from the following list to acquire further information about CRISP:

- General CRISP Description and Information
- Frequently-Asked-Questions (FAQ)
- CRISP Release Notes

Internet

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: http://era.nih.gov/roster/index.cfm What's Related

Review Administrator.

Important Notice Of NIH Policy To All Applicants: All rosters are provided for information purposes only. **Applicant investigators must not communicate directly with any review group member about an application either before or after the review.** Failure to observe this policy strictly will create serious breaches of confidentiality and conflicts-of-interest in the peer review process. All questions must be directed to the Scientific Review Administrator in charge of the review group. The roster below is a working document and should not be considered as complete until the meeting date. A final and complete roster will be provided with the summary statement.

AWARDING INSTITUTE AND CENTER STANDING COMMITTEE ROSTER INDEX

Roster Information	Committee Name
CSR	Center For Scientific Review CSR STANDING COMMITTEES
NCIA	National Cancer Institute SUBCOMMITTEE A - CANCER CENTERS
NCIC	National Cancer Institute SUBCOMMITTEE C - BASIC & PRECLINICAL
NCID	National Cancer Institute SUBCOMMITTEE D - CLINICAL STUDIES
NCIE	National Cancer Institute SUBCOMMITTEE E - CANCER EPIDEMIOLOGY, PREVENTION & CONTROL
NCIF	National Cancer Institute SUBCOMMITTEE F - MANPOWER & TRAINING
NCIG	National Cancer Institute SUBCOMMITTEE G - EDUCATION
NCIH	National Cancer Institute SUBCOMMITTEE H - CLINICAL GROUPS
RIRGC	National Center For Research Resources COMPARATIVE MEDICINE REVIEW COMMITTEE
RIRGG	National Center For Research Resources CLINICAL RESEARCH REVIEW COMMITTEE

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health

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Bookmarks Location: http://www.csr.nih.gov/review/irgdesc.asp What's Related

AIDS and Related Research 1 [AARR-1] Study Section

[AARR-1 Roster]

The AIDS and Related Research 1 [AARR-1] Study Section reviews applications focused on the molecular, structural, and cellular biology of HIV and related lentiviruses/ retroviruses. These areas of research encompass studies on the biochemistry and genetics of HIV and viral infection, replication, and regulation. This Study Section also reviews applications related to viral aspects of pathogenesis, non-immune host responses and factors, and identification of viral/host targets for gene-based and other therapeutics and diagnostics.

Specific areas covered by AARR-1:

- Molecular biology, cell biology, and virology of HIV and related lentiviruses
- Molecular basis of lentiviral pathogenicity
- Biochemistry of HIV and related lentiviruses
- Regulation of viral and cellular biochemical processes, including tissue- specific effects of HIV
- Role of host gene products in virus infection and replication
- Variation in host factors and impact on virus infection and replication
- Mechanism of action and structure-function studies of viral proteins, including regulatory, enzymatic, and structural gene products

Document: Done

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6/23/2002-6/24/2002
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NIH Research Training Opportunities
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- Awards by Career Level
- Career Development Awds
- Graduate Assistant Policies
- Special Populations
- Loan Repayment Programs
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The training mechanisms below are listed by your level of professional development. Please choose the most appropriate option:

• Training Awards By Career Level

- High School
- Undergraduate (College) Opportunities
- Research Training Support for Graduate and Medical Students
- Postdoctoral Award Mechanisms - For Doctoral Scientists in training.

• NIH Training and Career Development Awards

- K Kiosk - NIH Career Development Awards information, including Career Award Wizard
- National Research Service Award (NRSA) Training Grants and Fellowships
- International Career Opportunities:
  Fogarty International Center   Human Frontier Science Program
- Short-Term Courses in Research Ethics (T15)

• Policies Related to Graduate Research Assistants:

- Policy on Graduate Student Compensation (12/10/2001) - NIH Guide Notice indication that the maximum amount awarded by the NIH for the support of a graduate student supported by a research grant or a cooperative agreement is tied to the zero level National Research Service Award (NRSA) postdoctoral stipend in effect at the time the grant award is issued. See notice for more information.

• Programs for Special Populations

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NATIONAL INSTITUTES OF HEALTH
Office of Extramural Research — NIH Home, OER Home — Text Only

K Kiosk - Information about NIH Career Development Awards

Career Award Wizard - Helps you select the right career award

Additional K Award Information: Award Data

Program	Description
K01	Mentored Research Scientist Development Award Career development in a new area of research. 3-5 yrs; Salary determined by the sponsoring Institute.
K02	Independent Scientist Award Develop the career of the funded scientist. 5 yrs; 75% effort.
K05	Senior Scientist Award For outstanding scientists with a sustained level of high productivity. 5 yrs; 75% effort; Funding determined by the sponsoring Institute
K07	Academic Career Award Developmental/Leadership in academic instruction, research, administration. 2-5 yrs, 25-75% effort; requires institutional sponsorship.
K08	Mentored Clinical Scientist Development Award Development of the independent clinical research scientist. 3-5 yrs; 75% effort.

Program Announcements are very important for you

- **Invites grant applications in a given research area**

- **May describe new or expanded interest in a particular extramural program**

- **May be a reminder of a continuing interest in a particular extramural program**

- **Generally has no funds set aside**

- **Applications reviewed in CSR along with unsolicited grant applications**

Requests for Applications (RFA) are very important for you

- **Announcement describing an institute initiative in a well-defined scientific area**

- **Invitation to submit research grant applications for a one-time competition on a specific topic**

- ***Set-aside of funds for a certain number of awards***

- **Applications generally reviewed within the issuing institute**

Selected Sites of Interest

- **National Institutes of Health**
  - **http://www.nih.gov**
  - **Office of Extramural Research**
    http://www.nih.gov/grants/oer.htm
  - **Grants Policy**
    http://www.nih.gov/grants/policy/policy.htm
  - **NIH Study Section Rosters**
    http://era.nih.gov/roster/index.cfm

- **Office of Extramural Research: Grants Page**
  http://grants1.nih.gov/grants/index.cfm
  - **Center for Scientific Review**
    http://www.csr.nih.gov
    - **Referral and Review**
    http://www.csr.nih.gov/refrev.htm
    - **Overview of Peer Review Process in CSR**
    http://www. csr.nih.gov/review/peerrev.htm

    - **NIH Peer Review Notes**
    http://www.csr.nih.gov/prnotes/prnotes.htm

Office of Extramural Research

- **Handles requests for grant applications, program guidelines, general information on grant applications and review policy**

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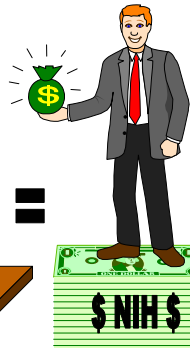 *FAX:* 301-480-0525
  e-mail: grantsinfo@nih.gov

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*Knowing + Understanding
- What to do
- How to do it
- When to do it
- What to do when things don't go as planned

*Being willing to do what is needed
*Doing it- doing what is needed

Understanding Peer Review

National Institutes of Health

Thank You