

# NIH Grant Categories

The following donated presentation offers succinct definitions of the variety of NIH Grant types and their distribution

# NIH Grant Mechanisms

UF Aging Trainees  
meeting, 10/22/02



# Overview

- The NIH offers a hodge-podge of funding types; no two institutes offer the same mechanisms, and not all are equally well known
- Today is meant to provide simply to put the mechanisms in your lexicon, and to suggest those of highest relevance
- Future sessions can begin to consider components of the applications

# The number of mechanisms is very hard to keep track of!

- **C06, Research Facilities Construction Grants**

To provide matching Federal funds, up to 75 percent, for construction or major remodeling to create new research facilities. In addition to basic research laboratories, this may include, under certain circumstances, animal facilities and/or limited clinical facilities where they are an integral part of an overall research effort.

# Individual Fellowships are in the F-series

- **F31, Predoctoral Individual Ruth L. Kirchstein National Research Service Award (NRSA).** To provide predoctoral individuals with supervised research training in specified health and health-related areas leading toward the research degree (e.g., Ph.D.). (also Minority Students and Students with Disabilities )
- **F32, Ruth L. Kirchstein National Research Service Award for Individual Postdoctoral Fellows.** To provide postdoctoral research training to individuals to broaden their scientific background and extend their potential for research in specified health-related areas.
- **F33, NIH Ruth L. Kirchstein National Research Service Awards for Senior Fellows,** To provide opportunities for experienced scientists to make major changes in the direction of research careers, to broaden scientific background, to acquire new research capabilities, to enlarge command of an allied research field, or to take time from regular professional responsibilities for the purpose of increasing capabilities to engage in health-related research.

# Career development awards are in the K-series

Program	Description
K01	<b>Mentored Research Scientist Development Award</b> Career development in a new area of research. 3-5 yrs; Salary determined by the sponsoring Institute.
K02	<b>Independent Scientist Award</b> Develop the career of the funded scientist. 5 yrs; 75% effort.
K05	<b>Senior Scientist Award</b> For outstanding scientists with a sustained level of high productivity. 5 yrs; 75% effort; Funding determined by the sponsoring Institute

# K-awards

K07	<b>Academic Career Award</b> Developmental/Leadership in academic instruction, research, administration. 2-5 yrs, 25-75% effort; requires institutional sponsorship.
K08	<b>Mentored Clinical Scientist Development Award</b> Development of the independent clinical research scientist. 3-5 yrs; 75% effort.
K12	<b>Mentored Clinical Scientist Development Program Award</b> Support to an institution for the development of independent clinical scientists. 5 yrs; 75% effort; initiated by the educational institution. NCI NCRR NIA NIDA NIDCR

# K-awards

K18	<b>Career Enhancement Award for Stem Cell Research</b> Supports full-time or part-time training in the use of human or animal embryonic, adult, or cord blood stem cells. Usually 6 months to 1 year (up to 2 years allowed) full or part-time. NIDDK, NIAAA, NIAID, NHLBI, and NINR participate.
K22	<b>Career Transition Award</b> Support to an individual postdoctoral fellow in transition to a faculty position. NCI NEI NHGRI NHLBI NIAID NICHD NIDA NIDCR NIDDK NIEHS NINDS NINR
K23	<b>Mentored Patient-Oriented Research Career Development Award</b> Development of the independent research scientist in the clinical arena. 3-5 yrs, 75% commitment.

# K-awards

K24	<b>Midcareer Investigator Award In Patient-Oriented Research</b> Development of clinical mentors conducting funded research. 3-5 years, 25 to 50% effort
K25	<b>Mentored Quantitative Research Career Development Award</b> To foster interdisciplinary collaboration in biomedical research by supporting career development experiences for scientists with quantitative and engineering backgrounds. 3-5 yrs; 75% effort
K30	<b>Clinical Research Curriculum Development</b> Institutional award for development of a clinical research curriculum. 5 yrs; up to \$200,000 per year.

# Program Project and Center Grants are in the P-series

- **P01, Research Program Projects**, To support multidisciplinary or multifaceted research programs that have a focused theme. Each component project should be directly related to and contribute to the common theme.
- **P20, Exploratory Grants**, To support planning for new programs, expansion or modification of existing resources, and feasibility studies to explore various approaches to the development of interdisciplinary programs that offer potential solutions to problems of special significance to the mission of the NIH. These exploratory studies may lead to specialized or comprehensive centers.

# P-series

- **P30, Center Core Grants**, To support shared use of resources and facilities for categorical research by investigators from different disciplines who provide a multidisciplinary approach to a joint research effort, or by investigators from the same discipline who focus on a common research problem. The core grant is integrated with the center's component projects or Program Projects, though funded independently from them. This support, by providing more accessible resources, is expected to assure greater productivity than that provided through the separate projects and Program Projects.
- **P41, Biotechnology Resource Grant Program**

# P-series

- **P50, Specialized Center Grants**, To support any part of the full range of research and development from very basic to clinical; may involve ancillary supportive activities such as protracted patient care necessary to the primary research or R & D effort. The spectrum of activities comprise a multidisciplinary attack on a specific disease entity or biomedical problem area. These grants differ from program project grants in that they are usually developed in response to an announcement of the programmatic needs to an Institute or Division and subsequently receive continuous attention from staff. Centers may also serve as regional or national resources for special research purposes.

# Research Projects are in the R-series

- **R01, Modular Research Grant Application**, The modular research grant procedures will affect the NIH peer review process by enabling reviewers to evaluate proposed project budgets on the basis of a general, expert estimate of the total effort and resources required to conduct the proposed research. Reviewers will recommend changes in a proposed project's budget in \$25,000 modules. NIH Institute staff will continue to make all final award decisions.
- **R01, Research Project**, Grants are awarded to institutions to allow a Principal Investigator to pursue a scientific focus or objective in his or her area of interest and competence. Institutional sponsorship assures the NIH that the institution will provide facilities necessary to conduct the research and will be accountable for the grant funds. Applications are accepted for health-related research and development in all areas within the scope of the NIH's mission.

# R-series

- **R03, Small Research Grants**, Small grants provide research support, specifically limited in time and amount, for activities such as pilot projects, testing of new techniques, or feasibility studies of innovative, high-risk research, which would provide a basis for more extended research.
- **R13, Conference**, The NIH provides funding for conferences to coordinate, exchange, and disseminate information related to its program interests. Generally, such awards are limited to participation with other organizations in supporting conferences rather than provision of sole support. Costs eligible for support include salaries, consultant services, equipment rental, travel, supplies, conference services, and publications. Prospective applicants are encouraged to inquire in advance concerning possible interest on the part of an awarding Institute/Center (IC), and to obtain more information on application procedures and costs.

# R-series

- **R15, The NIH Academic Research Enhancement Awards (AREA)**, To enhance the research environment of educational institutions that have not been traditional recipients of NIH research funds, this award provides limited funds to those institutions' faculty members to develop new research projects or expand ongoing research activities in health sciences and to encourage students to participate in the research activity. As funds are anticipated to continue to be available each year, the NIH is now inviting applications for AREA grants through a standing, ongoing Program Announcement.
- **R18, Research Demonstration and Dissemination Projects**, To provide support designed to develop, test, and evaluate health service activities, and to foster the application of existing knowledge for the control of categorical diseases.
- **R21, Exploratory/Developmental Grants**, To encourage the development of new research activities in categorical program areas. (Support generally is restricted in level of support and duration.)

# R-series

- **R24, Resource-Related Research Projects**, To support research projects that will enhance the capability of resources to serve biomedical research.
- **R33, Exploratory/Developmental Grants Phase II**, To provide a second phase for support of innovative exploratory and developmental research activities initiated under the R21 mechanism. Although only R21 awardees are generally eligible to apply for R33 support, specific program initiatives may establish eligibility criteria under which applications could be accepted from applicants who demonstrate program competency equivalent to that expected under R33.

# R-series

- **R37, Method to Extend Research in Time (MERIT) Award**, To provide long-term grant support to investigators whose research competence and productivity are distinctly superior and who are highly likely to continue to perform in an outstanding manner. Investigators may not apply for a MERIT award. Program staff and/or members of the cognizant National Advisory Council/Board will identify candidates for the MERIT award during the course of review of competing research grant applications prepared and submitted in accordance with regular PHS requirements.

# STTR and SBIR grants support partnerships with small business

- **R41, Small Business Technology Transfer (STTR) Grants - Phase I,**  
To support cooperative R&D projects between small business concerns and research institutions, limited in time and amount, to establish the technical merit and feasibility of ideas that have potential for commercialization.
- **R42, Small Business Technology Transfer (STTR) Grants - Phase II,**  
To support in-depth development of cooperative R&D projects between small business concerns and research institutions, limited in time and amount, whose feasibility has been established in Phase I and that have potential for commercial product(s) or service(s).

# SBIRs

- **R43, Small Business Innovation Research Grants (SBIR) - Phase I,**  
To support projects, limited in time and amount, to establish the technical merit and feasibility of R&D ideas that may ultimately lead to commercial products or services.
- **R44, Small Business Innovation Research Grants (SBIR) - Phase II,**  
To support in-depth development of R&D ideas whose feasibility have been established in Phase I that are likely to result in commercial products or services.

# Trainning grants are in the T-series

- **T32, NIH National Research Service Award – Institutional Research Training Grants**, To enable institutions to make National Research Service Awards to individuals selected by them for predoctoral and postdoctoral research training in specified shortage areas.
- **T34, MARC Undergraduate NRSA Institutional Grants**, To enable minority institutions to make National Research Service Awards to individuals selected by them for predoctoral and postdoctoral research training in the biomedical and behavioral sciences.

# Cooperative agreements are in the U-series

- **U01, Research Project**, To support a discrete, specified, circumscribed project to be performed by the named investigator(s) in an area representing his specific interest and competencies.
- **U10, Cooperative Clinical Research--Cooperative Agreements**, To support clinical evaluation of various methods of therapy and/or prevention in specific disease areas. These represent cooperative programs between sponsoring institutions and participating principal investigators, and are usually conducted under established protocols.
- **U19, Research Program--Cooperative Agreements**, To support a research program of multiple projects directed toward a specific major objective, basic theme or program goal, requiring a broadly based, multidisciplinary and often long-term approach.

# U-series

- **U54, Specialized Center-Cooperative Agreements,** To support any part of the full range of research and development from very basic to clinical; may involve ancillary supportive activities such as protracted patient care necessary to the primary research or R&D effort. The spectrum of activities comprises a multidisciplinary attack on a specific disease entity or biomedical problem area. These differ from program project in that they are usually developed in response to an announcement of the programmatic needs of an Institute or Division and subsequently receive continuous attention from its staff. Centers may also serve as regional or national resources for special research purposes, with funding component staff helping to identify appropriate priority needs.

# U-series

- **U56, Exploratory Grants--Cooperative Agreements**, To support planning for new programs, expansion or modification of existing resources, and feasibility studies to explore various approaches to the development of interdisciplinary programs that offer potential solutions to problems of special significance to the mission of the NIH. These exploratory studies may lead to specialized or comprehensive centers. Substantial Federal programmatic staff involvement is intended to assist investigators during performance of the research activities, as defined in the terms and conditions of award.

# No two NIH institutes support the same mechanisms

- **National Institute on Aging (NIA)** - F33, K01, K02, K05, K07, K08, K11, K12, P01, P20, P30, P50, P60, R03, R13, R25, R35, S15, T32, T35, U01
- **National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)**  
- F33, K04, K08, K11, P01, P20, P30, P50, P60, R13, R18, S15, T32, T35

# Many different mechanism; no two NIHs are alike

- **National Cancer Institute (NCI)** - C06, F31, F33, K04, K07, K08, K11, K12, K14, P01, P20, P30, P50, R03, R13, R18, R21, R25, R35, S15, T32, U01, U10, U13, U19, U43, U44
- **National Institute on Deafness and Other Communication Disorders (NIDCD)** - F31, F33, K04, K08, P01, P20, P50, P60, R03, R13, S15, T32, U01
- **National Institute of Diabetes and Digestive and Kidney Disease (NIDDK)** - F31, F33, K04, K08, K11, P01, P20, P30, P50, P60, R13, R21, S15, T32, T35, U01
- **National Heart, Lung, and Blood Institute (NHLBI)** - C06, F31, F33, K04, K07, K08, K14, P01, P50, P60, R03, R10, R13, R18, R25, T15, T32, T35, U01

# Many institutes, many mechanisms

- **National Institute of Mental Health (NIMH)** - F30, F31, F34, F35, K02, K05, K07, K12, K20, K21, P01, P20, P30, P50, R03, R10, R13, R18, R24, R25, S15, T32, T34, T35, U01, U09, U10
- **National Institute for Nursing Research (NINR)** - F31, F33, K07, K08, P01, P20, P30, P50, R03, R18, R21, S15, T32, U01, U10, U18
- **National Institute of Neurological Disorders and Stroke (NINDS)** - F33, K04, K06, K08, K12, K17, P01, P20, P50, R13, S15, T32, U01, U10
- **The Agency for Health Care Policy and Research (AHCPR)**, F32, P01, R01, R03, R18, T32, U01

# Grant Supplements for Underrepresented Minorities

Principal Investigators on NIH research grants may apply for **administrative supplements to existing grants for the support and recruitment of underrepresented minority investigators and students**. These supplements typically pay salaries with some funds available for supplies and travel. Funding decisions for these "Minority Supplements" are made approximately eight weeks from receipt of a complete application.

Underrepresented minority students and investigators are defined as individuals belonging to a particular ethnic or racial group that has been determined by the grantee institution to be underrepresented in biomedical or behavioral research. Nationally, individuals found to be underrepresented include, but are not limited to, United States citizens who are African American, Hispanic American, Native American, and natives of the U.S. Pacific Islands.

## General Guidelines:

The proposed research experience **must be an integral part of the approved ongoing research of the parent grant. The minority individual must be given the opportunity to interact with individuals on the parent grant, to contribute intellectually to the research, and to enhance her/his research skills and knowledge regarding the particular area of biomedical science**. The Principal Investigator must demonstrate a willingness and understanding that the purpose of the award is to enhance the research capability of the minority student or faculty member and that the research experience is intended to provide opportunities for minority individuals to develop as independent, competitive research investigators.

### Eligibility:

Principal Investigators who hold an active R01, R10, R18, R22, R24, R35, R37, P01, P20, P30, P40, P41, P50, P51, P60, U01, U10, U19, U41, or U42 grant *provided* the parent grant has support remaining for a reasonable period at the time of a supplemental award (usually two years or more).

- Minority High School Students
- Minority Undergraduate Students
- Minority Graduate Research Assistants
- Minority Individuals in Postdoctoral Training
- Minority Investigators

# Interactive Research Project Grants

The Interactive Research Project Grant (IRPG) program provides support for formal, investigator-initiated, collaborative relationships.

An IRPG group consists of the **coordinated submission of two or more applications for related research project grants (R01) that do not require extensive shared physical resources. Although these applications must describe the objectives and scientific importance of the collaboration, each project could be accomplished independently.** The principal investigators may be from one or more institutions. Each application will be reviewed independently for scientific merit and those judged to have substantial merit will be considered for funding both as an independent award and as a component of the proposed IRPG group.