

# NIH Guide for Grants and Contracts

---

U.S. DEPARTMENT OF HEALTH  
AND HUMAN SERVICES

Vol. 13, No. 9, August 3, 1984

## IN THIS ISSUE:

### Preamble

Proposed U.S. Government Principles  
for the Utilization and Care of  
Vertebrate Animals Used in Testing,  
Research, and Training ..... Page 1  
Index - ANIMALS

### Notice

Change in Receipt Date - Intrauterine  
Growth Retardation ..... Page 4  
Perinatal Emphasis Research Center  
National Institute of Child Health  
and Human Development  
Index - CHILD HEALTH AND  
HUMAN DEVELOPMENT

### Notice

Construction Grant Applications ..... Page 5  
National Cancer Institute  
Index - CANCER

### Notice

NIH/FDA Regional Workshops-Protection  
of Human Subjects ..... Page 6  
National Institutes of Health  
Food and Drug Administration  
Index - NATIONAL INSTITUTES OF HEALTH  
FOOD AND DRUG ADMINISTRATION

---

Continued

The NIH Guide is published at irregular intervals to announce scientific initiatives and to provide policy and administrative information to individuals and organizations who need to be kept informed of opportunities, requirements, and changes in grants and contracts activities administered by the National Institutes of Health.

Two types of supplements are published by the respective awarding units. Those printed on yellow paper concern contracts: solicitations of sources and announcement of availability of requests for proposals. Those printed on blue paper concern invitations for grant applications in well-defined scientific areas to accomplish specific program purposes.

#### Have You Moved?

If your present address differs from that shown on the address label, please send your new address to: Grants and Contract Guide Distribution Center, National Institutes of Health, Room B3BN10, Building 31, Bethesda, Maryland 20205, and attach your address label to your letter. Prompt notice of your change of address will prevent your name from being removed from our mailing list.

Announcement

Availability for Request for Applications: RFA  
84-CNRU-01 -Core Grants for Clinical  
Nutrition Research Units ..... Page 7  
National Institute of Arthritis, Diabetes  
and Digestive and Kidney Diseases  
National Cancer Institute  
National Institute on Aging  
Index - ARTHRITIS, DIABETES, AND  
DIGESTIVE AND KIDNEY DISEASES  
CANCER  
AGING

Announcement

Availability of Request for Applications: RFA  
84-AG-03 - Alzheimer Disease Research Centers ..... Page 10  
National Institute on Aging  
Index - AGING

Announcement

Availability of Request for Applications: RFA  
84-AM-04 - Digestive Diseases Core Centers..... Page 12  
National Institute of Arthritis, Diabetes  
and Digestive and Kidney Diseases  
Index - ARTHRITIS, DIABETES AND  
DIGESTIVE AND KIDNEY DISEASES

Announcement

Request for Cooperative Agreement Applications: RFA  
84-CA-10 - The Modification of Eating Behavior  
and Cancer Prevention ..... Page 14  
National Cancer Institute  
Index - CANCER

Announcement

Availability of Request for Applications: RFA  
Reduction in Avoidable Mortality from  
Cancers - 84-CA-13 ..... Page 15  
National Cancer Institute  
Index - CANCER

Announcement

Availability of Request for Applications: RFA  
84-HD-07 -Normal and Abnormal Limb  
Development Studies ..... Page 16  
National Institute of Child Health  
and Human Development  
Index - CHILD HEALTH AND HUMAN DEVELOPMENT

Continued

Announcement

Availability of Request for Applications: RFA  
84-CA-21 Application of Recombinant DNA Technology  
to Diagnosis of Cancer ..... Page 18  
National Cancer Institute  
Index - CANCER

Announcement

Availability of Request for Applications: RFA  
84-CA-22 - Cooperative Agreements for  
National Cooperative Drug  
Discovery Groups ..... Page 20  
National Cancer Institute  
Index - CANCER

Announcement

Small Grant Award for Pilot Projects ..... Page 22  
National Institute on Aging  
Index - AGING

Announcement

Individual Predoctoral Research Fellowship  
for Oncology Nurses ..... Page 27  
National Cancer Institute  
Index - CANCER

Announcement

Physical Activity in Pregnancy ..... Page 30  
National Institute of Child Health  
and Human Development  
Index - CHILD HEALTH AND  
HUMAN DEVELOPMENT

Announcement

Clinical Investigator Development Award ..... Page 32  
National Institutes of Neurological and  
Communicative Disorders and Stroke  
Index - K AWARDS

Announcement

Research Grant on Status Epilepticus ..... Page 34  
National Institute of Neurological and  
Communicative Disorders and Stroke  
Index - NEUROLOGICAL AND COMMUNICATIVE  
DISORDERS AND STROKE

Continued

Announcement

Research on Digestive Diseases ..... Page 36  
Alcohol, Drug Abuse, and Mental Health Administration  
National Institutes of Health  
National Center for Health Services Research  
Index - ALCOHOL, DRUG ABUSE, AND MENTAL  
HEALTH ADMINISTRATION  
NATIONAL INSTITUTES OF HEALTH  
NATIONAL CENTER FOR HEALTH  
SERVICES RESEARCH

Announcement

Child and Adolescent Mental Health Research  
and Research Training ..... Page 43  
National Institute of Mental Health  
Index - NATIONAL INSTITUTE OF MENTAL HEALTH

PREAMBLE

PROPOSED U.S. GOVERNMENT PRINCIPLES  
FOR THE UTILIZATION AND CARE OF VERTEBRATE  
ANIMALS USED IN TESTING, RESEARCH, AND TRAINING

P.T. 34; K.W. 0201011, 1014002

In the April 5, 1984, Special Edition of the NIH Guide for Grants and Contracts (Vol. 13, No. 5), the Public Health Service (PHS) published a proposed amendment to the PHS Extramural Animal Welfare Policy as originally specified in DHEW Grants Administration Manual Chapter 1-43, "Animal Welfare."

The proposed policy, entitled "Proposed PHS Policy on Humane Care and Use of Animals by Awardee Institutions," was published in order to provide interested parties and individuals an opportunity to comment on the proposed changes.

The current PHS Extramural Animal Welfare Policy contains twelve "Principles for Use of Animals," which were published in the proposed policy (article III) essentially as they appear in the current policy. The current principles also appear as an appendix to the NIH Guide for the Care and Use of Laboratory Animals under the heading "Guidelines for the Use of Experimental Animals."

The preamble to the proposed PHS policy stated that "The Principles remain virtually unchanged in the proposed policy because the PHS is discussing with other Federal agencies the possibility of developing governmentwide principles for the care and use of laboratory animals. In the event that such principles are developed, they may be inserted in the policy at a later date."

The Interagency Animal Research Committee (IRAC), comprised of representatives from Federal agencies that conduct, support or regulate the use of animals for testing, research and training, has developed proposed "U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research and Training." The proposed principles are published below.

Public comment on the proposed U.S. Principles is invited, and will be made available to the IRAC for consideration in the development of a final version of the principles. The PHS is considering the inclusion of the final version of the principles in the PHS Policy, which, as proposed, states that all PHS grantee institutions must accept the principles as "mandatory." The PHS would not, however, include the waiver provision that accompanies the IRAC principles and on the basis of public comments may make other modifications in the principles prior to including them in the PHS Policy.

The PHS scheduled three open hearings on the proposed PHS Policy: July 19 in Kansas City, July 24 in Boston, and August 2 in Seattle.

Comments on the proposed U.S. Principles must be received on or before September 21, 1984, if they are to be given full consideration. Please send comments to the following:

Ms. Carol Young  
Office for Protection from Research Risks  
National Institutes of Health  
9000 Rockville Pike  
Building 31 - Room 4B09  
Bethesda, Maryland 20205

INTERAGENCY RESEARCH ANIMAL COMMITTEE PROPOSED  
U.S. GOVERNMENT PRINCIPLES FOR THE UTILIZATION AND CARE OF  
VERTEBRATE ANIMALS USED IN TESTING, RESEARCH, AND TRAINING

The development of knowledge necessary for the improvement of the health and well-being both of man and of animals requires recourse to in vivo experimentation with a wide variety of animal species. Methods such as mathematical models, computer simulation and in vitro biological systems should be used wherever appropriate. Whenever U.S. Government Agencies develop requirements for testing, research, or training procedures involving the use of vertebrate animals, the following principles shall be considered and whenever these agencies actually perform or sponsor such procedures, the responsible institutional official shall ensure that these principles are adhered to:

- I. The transportation, care, and use of animals shall be in accordance with the Animal Welfare Act (7 U.S.C. 2131 et. seq.) and other applicable Federal, state and local laws and prescribed policies.<sup>1</sup>
- II. Procedures involving animals should be designed and performed with due consideration of their relevance to human or animal health, the advancement of biological knowledge, or the good of society.
- III. The animals selected for a procedure should be of an appropriate species and quality, and the minimum number required to obtain scientifically valid results.
- IV. Proper care of animals, including the avoidance or minimization of discomfort, distress or pain is a moral imperative. Lacking evidence to the contrary, investigators should consider that procedures that cause pain in human beings cause pain in other animals.
- V. Procedures with animals that may cause more than momentary or slight pain or distress should be performed with appropriate sedation, analgesia, or anesthesia. Surgical or other painful procedures should not be performed on unanesthetized animals paralysed by chemical agents.

<sup>1</sup> For guidance throughout these Principles the reader is referred to the Guide for the Care and Use of Laboratory Animals prepared by the Institute of Laboratory Animal Resources, National Academy of Sciences.

- VI. Animals that would otherwise suffer severe or chronic pain or distress that cannot be relieved should be painlessly killed at the end of the experiment or, if appropriate, during the experiment.
- VII. The living conditions of animals kept for biomedical purposes should contribute to their health and comfort. Normally, the housing, care, and feeding of all animals used for these purposes must be supervised by a properly qualified veterinarian. In any case, veterinary care shall be provided as indicated.
- VIII. Investigators and other personnel shall be appropriately qualified and experienced for conducting procedures on living animals. Adequate arrangements shall be made for their in-service training, including the proper and humane care and use of laboratory animals.

If it is deemed necessary to waive one of the foregoing principles, the decision should be made, with due regard to the provisions of Principle II, by an appropriate review group, such as an institutional animal research committee. Such waivers should not be made where the primary purpose is teaching or demonstration.

NOTICECHANGE IN RECEIPT DATEINTRAUTERINE GROWTH RETARDATIONRFA: 84-HD-05

P.T. 34; K.W. 1201040, 1201070, 1200370, 1201270, 1002019, 0607024, 0701005

PERINATAL EMPHASIS RESEARCH CENTER

NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT

A Notice of availability for the above-named Request for Applications (RFA) appeared in the NIH Guide for Grants and Contracts, Vol. 13, No. 8, June 29, 1984. The deadline for receipt of applications has been changed from October 1, 1984 to December 1, 1984. Prospective applicants should note that the National Institute of Child Health and Human Development (NICHD) requests a letter of intent by September 1, 1984.

A complete Request for Applications entitled "**Intrauterine Growth Retardation**" and guidelines concerning "NICHD Research Center Programs" may be obtained from:

Dr. Charlotte Catz  
Head  
Pregnancy and Perinatology Section  
Clinical Nutrition and Early Development Branch  
Center for Research for Mothers and Children  
National Institute of Child Health and  
Human Development  
Landow Building - Room 7C09  
Bethesda, Maryland 20205

Telephone: (301) 496-5575



NOTICE

CONSTRUCTION GRANT APPLICATIONS

P.T. 02; K.W. 1201200

**NATIONAL CANCER INSTITUTE**

The National Cancer Institute (NCI) announces that effective on the receipt date February 1, 1985, all construction grants will have an annual receipt date of February 1. Funding based on that receipt date will be made available during the following fiscal year.

NOTICENIH/FDA REGIONAL WORKSHOPS-PROTECTION OF HUMAN SUBJECTS**P.T. 34; K.W. 0701028, 1014002**

The National Institutes of Health (NIH) and the Food and Drug Administration (FDA) are continuing to sponsor a series of workshops on responsibilities of researchers, Institutional Review Boards (IRBs), and institution officials for the protection of human subjects in biomedical and behavioral research. The workshops are open to everyone with an interest in research. The meetings should be of special interest to those persons currently serving or about to begin serving as a member of an IRB. The current schedule includes:

<u>DATE</u>	<u>LOCATION</u>	<u>CONTACT</u>
September 13-14, 1984	Stanford, CA	Ms. Phyllis S. Hall Human Subjects Coordinator Stanford University Encina Hall Stanford, CA 94305 Telephone: (415) 497-3638
October 22-23, 1984	Washington, DC	Mrs. Lucille Holland Office of the Institutional Review Board Room 214, Annex 2 Freedman's Square Howard University Washington, D.C. 20059 Telephone: (202) 636-7812
January, 1985	Los Angeles/Southern California	

A final list of dates and locations will be published at a later date. For specific program and registration information, contact:

Roberta H. Garfinkle  
Office for Protection from  
Research Risks  
National Institutes of Health  
Building 31 - Room 4B09  
9000 Rockville Pike  
Bethesda, Maryland 20205

ANNOUNCEMENT

AVAILABILITY OF REQUEST FOR APPLICATIONS: RFA

84-CNRU-01

CORE GRANTS FOR CLINICAL NUTRITION RESEARCH UNITS

P.T. 34, 04; K.W. 0202022, 1200180, 0701042, 0502000

NATIONAL CANCER INSTITUTE

NATIONAL INSTITUTE OF ARTHRITIS, DIABETES, AND DIGESTIVE AND  
KIDNEY DISEASES

NATIONAL INSTITUTE ON AGING

Application Receipt Date: October 15, 1984

I. BACKGROUND

The National Institutes of Health (NIH) invites applications for core grants in support of Clinical Nutrition Research Units (CNRUs). A CNRU is an integrated array of research, educational, and service activities that is oriented toward human nutrition in health and disease. Core grants facilitate the planning and coordination of the activities of the Units primarily by providing funding for facilities and associated staff that serve the various projects of the Unit on a shared basis. This solicitation is a joint effort of the following three Institutes of the NIH: 1) National Cancer Institute (NCI), 2) National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases (NIADDK), and 3) National Institute on Aging (NIA).

The NIH has traditionally sponsored the component activities of CNRUs through a variety of award mechanisms; the principal ones have been research project grants and support for research training. A 1979 initiative, core grants for shared nutrition research (CNRU) facilities have become an invaluable addition, especially in promoting multidisciplinary interactions. This approach has ensured that a CNRU has multiple sponsors, both Federal and non-Federal, and thereby reduces the likelihood that it will become unduly dependent upon any one source of funds for its continuing operations. Funding for educational programs and nutritional support services (patient care) have generally been sought from sources other than the NIH.

The NIH will continue to provide support for certain activities to be carried out by CNRUs through the customary research project grant, and management of CNRU grants and other assistance mechanisms will be governed by the laws, regulations, and policies and other requirements which prevail for research grants.

## II. OBJECTIVES OF THIS SOLICITATION FOR CORE GRANT APPLICATIONS

As a means of encouraging the desired multidisciplinary approach to clinical nutrition research, the NIH seeks to foster the development and operation of CNRUs. This solicitation for core grant applications is designed to complement NIH-supported project grants and training awards and relevant activities funded from other sources. The specific objectives are:

- A. To create or strengthen foci in biomedical research institutions for multidisciplinary research in clinical nutrition in order to develop new knowledge about specific nutrients in health throughout the life cycle, and in the prevention and treatment of disease.
- B. To strengthen training environments in order to improve the education of medical students, house staff, practicing physicians, and allied health personnel in clinical nutrition.
- C. To enhance patient care and promote good health by focusing attention on clinical nutrition and generating nutritional information for the public.

## III. ESSENTIAL COMPONENTS OF A CNRU

A CNRU, at a minimum, must comprise the following seven components:

1. Research with human subjects and populations.
2. Laboratory investigations.
3. Research training.
4. Shared facilities and research services.
5. Education programs for medical students, house staff, practicing physicians, and allied health personnel.
6. Research components of nutritional support services.
7. Public information activities.

A CNRU is most readily developed in a medical school, a school of public health, or a research hospital, but is not limited to these settings. Eligibility is limited to domestic institutions.

## IV. FUNDING

It is envisioned that core grants to CNRUs generally will be supported by a single NIH Institute with the selection by Institutes to be based on the dominant thrust of the application. Mechanisms for joint funding by two or more Institutes are available if considered necessary or appropriate. However, each Institute participating in this announcement will support basic nutrition research and nutrition research outside of its area of emphasis, provided the latter is not the dominant thrust of the application. The NIH plans to make approximately three new core grants in FY 1985. Although this program is included and provided for in the financial plans for FY 1985, award of grants in that fiscal year is contingent upon ultimate allocation of appropriated funds for this purpose.

**V. METHOD OF APPLYING**

Prospective applicants are asked to contact program staff by telephone or to submit a one page letter of intent. This telephone contact or letter of intent should be addressed to the contact persons listed below at the address indicated. The Institutes request such contact in order to provide an indication of the numbers of applications to be received. The letter of intent is not binding; it will not enter into the review of any proposal subsequently submitted, nor is it a mandatory requirement for the submission of the application.

Applications should be submitted on form PHS 398, which is available in the business or grants and contracts office at most academic and research institutions, or which may be obtained directly from the NIH Division of Research Grants. The phrase **"NIH CLINICAL NUTRITION RESEARCH UNIT (CNRU) CORE AWARDS RFA"** should be typed in box 2 of the first page of the application.

The CNRU awards are expected to be made during FY 1985. Applications for this competition should be received **NO LATER THAN** October 15, 1984. This announcement is for a single receipt date.

**VI. COPIES OF THE RFA MAY BE OBTAINED FROM:**

Van S. Hubbard, M.D., Ph.D.  
Director, Nutrition Program  
National Institute of Arthritis, Diabetes, and  
Digestive and Kidney Diseases  
Westwood Building - Room 3A18B  
Bethesda, Maryland 20205

Telephone: (301) 496-7823

Evan Hadley, M.D.  
Chief, Geriatrics Branch,  
National Institute on Aging  
Building 31 - Room 5C21,  
Bethesda, Maryland 20205

Telephone: (301) 496-1033

Ritva R. Butrum, Ph.D.  
Diet and Cancer Branch  
Prevention Program  
National Cancer Institute  
Blair Building - Room 619  
Bethesda, Maryland 20205

Telephone: (301) 427-8753

ANNOUNCEMENTAVAILABILITY OF REQUEST FOR APPLICATION: RFA84-AG-03ALZHEIMER DISEASE RESEARCH CENTERS

P.T. 34; K.W. 1201230, 1200180, 0404000, 1200270

NATIONAL INSTITUTE ON AGINGApplication Receipt Date: November 9, 1984  
Letter of Intent Receipt Date: October 1, 1984

## I. BACKGROUND

The National Institute on Aging (NIA) is inviting grant applications from interested institutions to establish centers of excellence devoted to the study of Alzheimer disease and related disorders. This type of solicitation (the RFA) is issued to encourage coordinated multidisciplinary research in an area of special importance to the NIA, the National Institute of Mental Health (NIMH), the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) and the National Institute of Allergy and Infectious Diseases (NIAID). The general purpose of the Alzheimer Disease Research Center (ADRC) is to support new research and to enhance ongoing research by providing core support to bring together biomedical, behavioral, and clinical science investigators in a manner that will enrich the effectiveness of Alzheimer disease research and ultimately improve health care delivery. An ADRC will be expected to foster three related functions: conducting multidisciplinary research; training scientists and clinicians and teaching and/or transferring new information concerning Alzheimer disease and related disorders.

## II. ELIGIBILITY

To be eligible for a center grant under this program, the potential applicant institution must have ongoing, independently supported research and must propose new research in the area of Alzheimer disease and related dementing disorders of the aged. Relevant research projects supported by a Department of Health and Human Services (DHHS) agency, the VA or a foundation can become affiliated with a Center.

This program is described in the Catalog of Federal Domestic Assistance, No. 13.866, Aging Research. Awards will be made under the authority of the Public Health Service Act, Title III, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74. This program is not subject to the intergovernmental review requirements of Executive Order 12372 or Health Systems Agency Review.

### III. MECHANISM OF SUPPORT

The support mechanism for this program will be the traditional NIH grant-in-aid. Although this program is provided for in the financial plans of the NIA, the award of grants pursuant to this RFA is contingent upon the availability of funds for this purpose. The intent is to fund up to five ADRC grants. This specific amount will depend on the merit and scope of the applications received. These applications are not expected to compete for funding within the general pool of dollars available for other investigator-initiated research proposals. Only applications of sufficiently high scientific merit will be funded.

### IV. REVIEW PROCEDURES AND CRITERIA

All applications responding to the RFA will be reviewed for scientific and technical merit by an initial review group which will be convened solely to review these applications. Although a site visit may be made, each proposal should be complete in itself, and should be prepared as if no visit is expected. The factors to be considered in the evaluation of the scientific merit of each application will be those used in the review of traditional research-project grant applications.

### V. METHOD OF APPLYING

The application must be submitted on form PHS 398, the application form for the traditional research-project grant. Supplemental instructions for preparing ADRC proposals are available from the program administrator at the address below. To identify these applications as being in response to the RFA, check "yes" on item 2 of page 1 of the application and enter the title: **"ALZHEIMER DISEASE RESEARCH CENTERS"** and the RFA number 84-AG-03. Guidelines for ADRC Applications are available from NIA. See Section on "Inquiries."

Although not a prerequisite for applying, potential applicants are encouraged to submit to the program administrator indicated below a non-binding letter of intent to apply, post-marked no later than October 1, 1984. The letter of intent is not mandatory and does not influence review or funding decisions, but it will enable the NIA to plan the review, and will ensure that each potential applicant receives relevant program information prior to expending considerable effort in application preparation.

The deadline for receipt of applications by the NIH Division of Research Grants (DRG) is November 9, 1984. Send the original and five copies to DRG, and simultaneously submit a single copy to Chief, SRO/OPEA/NIA, Building 31, Room 5C12, Bethesda, MD 20205.

Inquiries regarding this announcement or copies of more detailed RFA and guidelines which outline the ADRC requirements and the method of applying may be directed to the program administrator:

Zaven S. Khachaturian, Ph.D.  
Chief, Physiology of Aging Branch  
Biomedical Research and Clinical Medicine Program  
National Institute on Aging  
National Institutes of Health  
Building 31C - Room 5C-27  
Bethesda, Maryland 20205

Telephone: (301) 496-9350

**ANNOUNCEMENT****AVAILABILITY OF REQUEST FOR APPLICATIONS: RFA****84-AM-04****DIGESTIVE DISEASES CORE CENTERS****P.T. 34, 04; K.W. 1200400, 1200180, 1200370, 1200770, 0701042, 1200460****NATIONAL INSTITUTE OF ARTHRITIS, DIABETES, AND DIGESTIVE  
AND KIDNEY DISEASES****Application Receipt Date: November 16, 1984**

The National Institute of Arthritis, Diabetes and Digestive and Kidney Diseases (NIADDK) invites applications for Digestive Diseases Core Centers (DDCC) to be initiated in Fiscal Year 1985. The centers component of the Digestive Diseases Program of the NIADDK is being expanded at the recommendation of the National Digestive Diseases Advisory Board and Institute staff. This is the second announcement in the request for DDCC. The first announcement and funding of Centers was in Fiscal Year 1984.

The objectives of the Core Center are to bring together, on a cooperative basis, clinical and basic science investigators in a manner which will enhance and extend the effectiveness of research being conducted in the field of digestive diseases. Within the research activities of the Center should be research that is relevant to the underlying cause, mechanism, diagnosis, early detection, prevention, control and treatment of digestive diseases and related physiological, pathophysiological, congenital or metabolic disorders resulting from such diseases. The focus can be a disease such as pancreatitis, functional bowel disease, inflammatory bowel disease, chronic hepatitis; an organ such as liver, esophagus, large bowel; a process such as absorption, secretion, motility or an appropriate combination thereof which may also include areas of relevant technology.

The Core Center grant is a mechanism designed to enhance and extend the effectiveness of a group of related projects and investigators that are already funded through other mechanisms such as Research Project Grants or Research Program Projects. In this

This program is described in the Catalog of Federal Domestic Assistance No. 13.848, Digestive Diseases and Nutrition. Awards will be made under the authority of the Public Health Service Act, Title III, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and CFR Part 74. This program is not subject to the intergovernmental review requirements of Executive Order 12372 or Health Systems Agency review.



respect the Core Center mechanism builds upon an established base of research excellence. The Core Center grant may provide funds for (1) core resources such as tissue culture, immunoassay or biostatistics units which must be utilized by at least two or more center participants; (2) pilot/feasibility projects to encourage new investigators or investigators from other fields to pursue new and innovative ideas to a point where they can compete for independent support; and (3) program enrichment funds to provide for small conferences or symposia, advisory board expenses and special consultants. In addition, temporary salary support for one named new investigator in a specified area of research and with a defined pilot/feasibility project may be requested for up to 24 months, with subsequent individuals to be named and reviewed by the Center's Advisory Board and the NIADDK.

Institutions that have the necessary foundation of multidisciplinary digestive diseases-related research are encouraged to apply for the DDCC. At least fifty percent of the support for the ongoing research projects should be from the NIADDK and the remainder should be highly relevant to the overall goal of the Core Center grant. Foreign institutions are not eligible for this award. As the Centers Program develops, some attention will be given to program balance with respect to scientific area.

NIADDK expects to award 2 to 3 DDCC grants in Fiscal Year 1985 on a competitive basis. An average Center may include about 10 to 12 pilot/feasibility projects and 6 to 8 core units with a direct cost of up to approximately \$500,000. However, the actual size of the Center will vary depending on the needs of the Center. The anticipated awards are contingent upon the availability of appropriated funds which are designated for Centers. The general description of a Core Center, copies of Core Center Guidelines, and consultation may be obtained from:

Dr. Kirt Vener  
Esophageal, Gastric and  
Colonic Diseases Program  
NIADDK  
Bethesda, Maryland 20205

Telephone: (301) 496-7821

Dr. G.G. Roussos  
Intestinal and Pancreatic  
Diseases Program  
NIADDK  
Bethesda, Maryland 20205

Telephone: (301) 496-7121

Dr. Sarah C. Kaiser  
Liver and Biliary Diseases Program  
NIADDK  
Bethesda, Maryland 20205

Telephone: (301) 496-7858

Applications for grants for Digestive Diseases Core Centers will be evaluated in national competition by the NIH grant peer review process. Applications will be reviewed initially by a special review committee convened by the NIADDK, and subsequently by the National Arthritis, Diabetes, and Digestive and Kidney Diseases Advisory Council. The special receipt date for submission is November 16, 1984, with earliest funding August 1985.

**ANNOUNCEMENT****REQUEST FOR COOPERATIVE AGREEMENT APPLICATIONS: RFA****84-CA-10****THE MODIFICATION OF EATING BEHAVIOR AND CANCER PREVENTION****P.T. 34; K.W. 0202022, 0411005, 0400000, 1200080****NATIONAL CANCER INSTITUTE**

Letter of Intent Receipt Date: October 15, 1984

Application Receipt Date: November 15, 1984

The Division of Cancer Prevention and Control (DCPC), National Cancer Institute (NCI), invites applications for cooperative agreements to support research aimed at developing and implementing methods and strategies for dietary behavior modification for chronic risk reduction. The specific objectives will be reduction of dietary fat, increase of dietary fiber, a combination of these two or other dietary modifications associated with a reduction in risk of disease.

Interdisciplinary applications are invited to develop and implement innovative methods and strategies for changing dietary behavior, apply these methods on target populations to test their effectiveness for long-term adherence, and assess the actual dietary intake at baseline and at subsequent intervals as a test of change of nutrient intake. Special emphasis is placed on feasibility of approaches, sampling problems, study design, messages used, and expected results for long-term behavioral change.

Applicants funded under this RFA will be supported through the cooperative agreement mechanism. An assistance relationship will exist between NCI and the awardees to accomplish the purpose of the activity. As more completely described in the RFA, the recipients will have primary responsibility for the development and conduct of the research with cooperation and assistance from NCI staff.

Inquiries and requests for the full text of the RFA may be directed to:

Ritva R. Butrum, Ph.D.  
Diet and Cancer Branch  
DCPC, NCI, NIH  
Blair Building  
9000 Rockville Pike  
Bethesda, Maryland 20205

Telephone: (301) 427-8753

ANNOUNCEMENT

AVAILABILITY OF REQUEST FOR APPLICATIONS: RFA

REDUCTION IN AVOIDABLE MORTALITY FROM CANCERS

84-CA-13

P.T. 34; K.W. 1002014, 0701042, 0411005

NATIONAL CANCER INSTITUTE

Application Receipt Date: November 15, 1984  
Letters of Intent Receipt Date: September 15, 1984

The Division of Cancer Prevention and Control (DCPC) of the National Cancer Institute (NCI) invites grant applications from investigators interested in developing intervention projects to reduce avoidable mortality from cancers.

The goal of this RFA is to identify and remedy key factors that contribute to avoidable mortality from specific cancer sites in defined populations. The focus of the RFA is limited to patterns of medical care use and provision. Studies related to primary prevention of cancer (e.g., prevention of smoking) are funded elsewhere in DCPC and will not be supported by this RFA. The investigators will: 1) determine the cancer site(s) that is to be studied; 2) identify factors that contribute to avoidable mortality for that cancer site in cases drawn from a defined population; 3) implement an intervention program to reduce mortality from the identified site; 4) evaluate the results of the intervention program in the defined population; and 5) identify prototype approaches to the reduction of avoidable mortality based on the findings of this project.

Applicants are strongly encouraged to submit a letter of intent and consult with NCI program staff before submitting an application because of the need for a clear understanding of the cancer control research issues involved and to facilitate planning for the review of applications.

Nonprofit and for profit institutions within the United States are eligible to apply for project periods of up to five years. It is anticipated that a maximum of five awards will be made as a result of this RFA.

Copies of the complete RFA may be obtained from:

Knut Ringen, Dr. P.H.  
Cancer Control Applications Branch, DCPC  
National Cancer Institute  
National Institutes of Health  
Blair Building - Room 4A01  
9000 Rockville Pike  
Bethesda, Maryland 20205

Telephone: (301) 427-8597

**ANNOUNCEMENT****AVAILABILITY OF REQUEST FOR APPLICATIONS: RFA****84-HD-07****NORMAL AND ABNORMAL LIMB DEVELOPMENT STUDIES****P.T. 34; K.W. 0404004, 1201270, 0701005, 1200840, 1200460****NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT**

Application Receipt Date: November 15, 1984

The Genetics and Teratology Section of the Center for Research for Mothers and Children (CRMC) of the National Institute of Child Health and Human Development (NICHD) invites research grant applications for basic and clinical studies on the normal and abnormal development of the limb.

**I. BACKGROUND**

Developmentally-caused limb malformations constitute severe birth defects that occur in at least 1 out of every 200 newborn infants and pose severe life-long suffering and morbidity for many afflicted individuals. Limb defects can include a decrease or absence of bones, amputation, polydactyly, syndactyly, congenital contractures, or aberrant development of muscle. They may result from structural, functional, or biochemical anomalies that are initiated during prenatal stages of development and are recognized at birth or in later life. The basis of some limb defects is genetic, but factors in the intrauterine environment, as well as exogenous drugs and chemicals can contribute to limb malformations. In many cases, the etiology of limb defects is still unknown. NICHD now encourages a new emphasis on basic biological investigations combined with clinical studies which should lead to prevention of developmentally-caused limb deformities in the future.

**II. RESEARCH GOALS AND SCOPE**

This RFA solicits applications from qualified investigators for studies on the normal and abnormal development of the limb covering the earliest developmental period through maturity of the extremity. Genetic and developmental biological approaches as well as techniques of experimental teratology may be used to explore limb developmental events. This would include, among other studies, gene regulatory investigations of the various macromolecular components of the

This program is described in the Catalog of Federal Domestic Assistance No. 13.865, Research for Mothers and Children. Awards will be made under the authority of the Public Health Service Act, III, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74. This program is not subject to the intergovernmental review requirements of Executive Order 12372 or Health Systems Agency review.

developing limb as well as investigations on determination and an elucidation of cell and tissue interactions necessary for differentiation of specific limb tissues such as cartilage or muscle. It would also entail studies on abnormal limb developmental processes caused by various etiological factors. Studies of clinical parameters are encouraged such as the usefulness and safety of new and existing medical technologies to monitor normal and abnormal limb development, as well as the development of improved prenatal diagnoses of limb malformations, e.g. using recombinant DNA technology. Human and other mammalian models are preferred in these investigations, but nonmammalian models that contribute to our knowledge of limb maturation and the production of developmentally-caused limb deformities in the human are also sought.

### III. STAFF CONTACT

For further information, and a copy of the RFA contact:

Anne K. Krey  
or  
Delbert H. Dayton, M.D.  
Genetics and Teratology Section  
Clinical Nutrition and Early Development Branch  
Center for Research for Mothers and Children  
National Institute of Child Health  
and Human Development  
National Institutes of Health  
Landow Building - Room 7C09  
Bethesda, Maryland 20205

Telephone: (301) 496-5575

ANNOUNCEMENTAVAILABILITY OF REQUEST FOR APPLICATIONS: RFA84-CA-21APPLICATION OF RECOMBINANT DNA TECHNOLOGY TO DIAGNOSIS OF CANCER

P.T. 34; K.W. 1201190, 1200370, 1002014, 1002008

NATIONAL CANCER INSTITUTE

Application Receipt Date: November 30, 1984

The Division of Cancer Biology and Diagnosis (DCBD) of the National Cancer Institute (NCI), is inviting grant applications from interested investigators to search for new applications of recent advances in recombinant DNA technology for the diagnosis of patients with cancer. The development of molecular approaches to the identification of malignant and premalignant cells may result in earlier detection of the disease, lead to improved methods for classification of tumors, and improve the accuracy of cancer diagnosis.

This type of solicitation (the RFA) is issued to encourage investigator-initiated research projects in areas of special importance to the National Cancer Program. Support for such awards is through the customary NIH grant-in-aid and is governed by the policies applicable to such grants. All applications in response to the RFA will be reviewed by an appropriate peer review group of NIH.

The present RFA announcement is for a single competition with a specified deadline of November 30, 1984, for receipt of applications.

## I. BACKGROUND INFORMATION

The DCBD has a major responsibility to support research designed to improve the detection and diagnosis of cancer. The current state of the art in molecular genetics and recombinant DNA technology and the relatively little attention directed to clinical diagnosis using this technology make it important to encourage research on applications of this technology to cancer diagnosis. In this RFA, the program is expressing interest in grant applications proposing new approaches to diagnosis of cancer exploiting cellular changes at the molecular level.

## II. MECHANISMS OF SUPPORT

The support mechanism for this program will be the traditional NIH grant-in-aid. Applicants will plan and execute their own programs. Approximately \$600,000 will be set aside to fund applications which are submitted in response to the RFA. It is anticipated that four to five applications can be funded. These applications will not compete for funding within the general pool of dollars available for other investigator-initiated research proposals. However, all applications received will

be evaluated by the rigorous standards of study section review. The expected starting date is July 1, 1985. Although this program is provided for in the financial plans of the NCI, the award of grants pursuant to this RFA is contingent upon availability of funds appropriated for fiscal year 1985. Only applications of sufficiently high scientific merit will be funded.

### III. INQUIRIES

A copy of the complete RFA describing the research goals and scope, the review criteria and the method of applying can be obtained by contacting:

Sheila E. Taube, Ph.D.  
Chief, Biochemical Diagnosis Section  
Diagnosis Branch  
Division of Cancer Biology and Diagnosis  
National Cancer Institute  
Westwood Building - Room 10A15  
Bethesda, Maryland 20205

Inquiries concerning this announcement are encouraged and should be directed to Dr. Sheila E. Taube at the above address (Phone: (301) 496-7147). The program would appreciate the opportunity to clarify any issues or questions from potential applicants.

**ANNOUNCEMENT****AVAILABILITY OF REQUEST FOR APPLICATIONS: RFA****COOPERATIVE AGREEMENTS FOR NATIONAL COOPERATIVE DRUG DISCOVERY GROUPS****84-CA-22**

**P.T. 34; K.W. 1200260, 1200180, 1003012, 1003002, 1200720, 1002008, 1002014, 0701038**

**NATIONAL CANCER INSTITUTE**

Application Receipt Date: December 14, 1984

This announces reissuance of an RFA announced in the NIH Guide for Grants and Contracts, Vol. 12, No. 7, July 15, 1983.

**SUMMARY**

Exciting leads in molecular biology, medicinal and organic chemistry, biochemistry, and pharmacology present unprecedented opportunities for design and pre-clinical evaluation of powerful new entities and strategies for the treatment of cancer. Exploitation of these leads and their extrapolation to new treatments can be accomplished by mobilizing the most creative scientists in a number of scientific disciplines regardless of their organizational affiliation. The NCDDG program will assist these scientists to interact, with NCI support, as a unit. It is envisioned that each NCDDG will be multi-disciplinary and multi-institutional; and will consist of a Group Director and a number of Program Leaders. The Group Director will be responsible for the application and for performance of the Group and will be accountable for funds awarded. Thus, each NCDDG will have capacity to generate new inventions, to translate rapidly their concepts into new treatments, to conduct preclinical biological, biochemical, and/or pharmacological testing pertinent to the selection of new treatment entities worthy of development to the clinic.

Awards will be made as Cooperative Agreements. These are assistance relationships involving substantial involvement of NCI staff during performance of the project. The nature of NCI staff participation is included in the RFA. However, the applying Group must define its objectives in accord with its own interests and perceptions of novel approaches to the discovery of more effective cancer treatment. The role of NCI staff will be to provide assistance, advice, and guidance via information input at Group meetings. Final decision-making authority during performance will rest with the Group Director.

NCI hopes to make multiple awards for project periods of five year and has set aside \$1,500,000 for the initial year's funding.



The RFA is available from:

Dr. John M. Venditti, Ph.D.  
Chief, Drug Evaluation Branch  
Division of Cancer Treatment  
National Cancer Institute  
Landow Building - Room 5C03  
Bethesda, Maryland 20205

Telephone: (301) - 496-8752

**ANNOUNCEMENT****SMALL GRANT AWARD FOR PILOT PROJECTS****P.T. 34; K.W. 1200410, 0404002, 0701042, 1201230, 0202022****NATIONAL INSTITUTE ON AGING**

Application receipt dates: October 1, February 1, June 1

The National Institute on Aging (NIA) is announcing a Small Grant Award for selected categories of research (noted below) beginning with the October 1, 1984 application receipt date. This announcement solicits applications for Small Grants pilot projects and supersedes the prior NIA small grants announcement (NIH Guide to Grants and Contracts, Vol. 10, No. 12, November 6, 1981).

**I. RESEARCH SCOPE**

Categories of research are limited to the following six areas:

**A. Animal Models**

Two types of animal models are acceptable: models to study intrinsic aging processes and models to study processes that give rise to diseases associated with aging. Areas of special interest include:

1. Studies which identify, define, characterize, or evaluate mammalian model systems for the study of normal comparative aging changes.
2. Studies of age-associated pathologic lesions in mammalian models that may simulate or replicate aging processes.
3. Studies of mammalian models which evaluate genetic or environmental effects on survival and/or aging.

Staff Contact: Dr. Richard Sprott  
Building 31 - Room 5C-19  
National Institute on Aging  
National Institutes of Health  
Bethesda, Maryland 20205

Telephone: (301) 496-6402

This program is described in the Catalog of Federal Domestic Assistance No. 13.866, Aging Research. Awards will be made under the authority of Public Health Service Act, Section 301 (P.L. 78-410, as amended; 41 USC 241) and administered under HHS grant policies and Federal Regulations 41 CFR Part 52 and 42 CFR Part 74. This program is not subject to the intergovernmental review requirements of Executive Order 12372 or Health Systems Agency Review.

**B. Exercise Physiology**

The areas of special interest are:

1. Studies to elucidate how mechanisms for biologic adaptation to exercise (acute and chronic) are influenced by the aging process.
2. Studies to define quantitatively the criteria by which the prescription of exercise is formulated to fulfill individual needs of healthy elderly.
3. Studies to demonstrate the role and mechanism of regular physical activity in preventing age-related disorders (e.g., hypertension, type II diabetes mellitus, osteoporosis).
4. Studies to assess the role of acute or chronic exercise in the regulation of immunologic phenomena involved in resisting and recovering from infectious diseases.

Staff Contact: Dr. William Kachadorian  
Building 31 - Room 5C-27  
National Institute on Aging  
National Institutes of Health  
Bethesda, Maryland 20205

Telephone: (301) 496-9350

**C. Senile Dementia of the Alzheimer Type**

Studies to elucidate the etiology of pathogenesis of Alzheimer's disease, improved diagnosis and effective therapeutic interventions are of particular interest to NIA.

Staff Contact: Dr. Zaven Khachaturian  
Building 31 - Room 5C-27  
National Institute on Aging  
National Institutes of Health  
Bethesda, Maryland 20205

Telephone: (301) 496-9350

**D. Geriatric Medicine**

The areas of special interest are:

1. Infectious Diseases: Research on the epidemiology, etiology, prevention, diagnostic evaluation, and treatment of infectious diseases in the elderly. Basic and clinical studies in microbiology, virology, immunology, and other types of research on this problem are encouraged. See NIA's announcement (NIH Guide for Grants and Contracts: Vol. 11, No. 12, page 17, November 5, 1982) for a more detailed description of NIA's research interests in infectious diseases in the elderly.

2. **Urinary Incontinence:** Research on the epidemiology, etiology, pathophysiology, diagnostic evaluation, and treatment of urinary incontinence in the elderly. Neurobiologic, pharmacologic, physiologic, urologic, behavioral, and other types of research on this problem are encouraged. See NIA's announcement (NIH Guide for Grants and Contracts: Vol. 10, No. 10, page 18, September 4, 1981) for a more detailed description of NIA's research interests in urinary incontinence in the elderly.

Applications on other geriatric research topics will be accepted at subsequent deadlines.

**Staff Contact:** Dr. Evan Hadley  
 Building 31 - Room 5C-21  
 National Institute on Aging  
 National Institutes of Health  
 Bethesda, Maryland 20205

Telephone: (301) 496-6761

#### E. Nutrition and Health of the Aged Adult

The areas of special interest are:

1. Age-related changes which affect nutrient requirements or nutrient status, including change in nutrient ingestion, absorption and utilization.
2. Nutrition-disease interaction in the elderly.
3. Effect of long-term drug use on nutritional status.

**Staff Contact:** Dr. Zaven Khachaturian  
 Building 31 - Room 5C-27  
 National Institute on Aging  
 National Institutes of Health  
 Bethesda, Maryland 20205

Telephone: (301) 496-9350

#### F. Health and Effective Functioning in the Middle and Later Years

For a description of this topical area, see NIH Guide for Grants and Contracts, Vol. 12, No. 6, June 17, 1983, pp. 10-15, and Vol. 12, No. 11, November 11, 1983. The areas of special interest are:

1. Linkages between particular psychosocial variables and the development of disease and disability.
2. Psychosocial factors in restoration of functioning or reversal of common forms of disability in old age (e.g., in chronic ill health, cognitive and motor performance).
3. Psychosocial interventions in maintenance of functioning and productivity at work or in the household.

Staff Contact: Ms. Kathleen Bond  
Building 31 - Room 4C-32  
National Institute on Aging  
National Institutes of Health  
Bethesda, Maryland 20205

Telephone: (301) 496-3136

## II. PURPOSE OF AWARD

This is a one-year, non-renewable award intended to provide support for pilot projects, testing of new techniques, or feasibility studies of innovative and high-risk research which would provide a basis for more extended research.

## III. ELIGIBLE APPLICANTS

This program is intended primarily for:

- A. Clinicians with limited research experience.
- B. Recently trained or less experienced investigators.
- C. Investigators who have interrupted their research careers and intend to resume them.
- D. Investigators changing field of research.
- E. Investigators at minority institutions or located in a largely non-research environment.
- F. Established investigators needing prompt support for a pilot project to maintain research momentum and productivity.

The award may not be used to supplement support for an ongoing project nor to provide interim support for projects under review by the Public Health Service.

## IV. TERMS OF THE AWARD

The award will provide a maximum of \$15,000 (direct costs) for technical assistance, supplies, small equipment, and travel required by the project.

## V. APPLICATION AND REVIEW PROCEDURES

Applications should be submitted on Form PHS 398, available at most institutional business offices or from the Division of Research Grants, NIH. Special supplementary instructions required for use by applicants for the NIA Small Grants Program must be obtained from the NIA Staff Contacts listed above. An accelerated review will be scheduled as follows:

<u>Receipt Date</u> <u>Annually</u>	<u>Institute Committee</u> <u>Review</u>	<u>Council</u> <u>Review</u>	<u>Earliest Date</u> <u>for Funding</u>
Oct. 1, 1984	Nov/Dec 1984	Jan/Feb 1985	Feb 1985
Feb 1, 1985	March 1985	May 1985	June 1985
Jun 1, 1985	Jul 1985	Sept 1985	October 1985

(First receipt date for NIA is October 1, 1984)

Subsequent research topics will be announced at a later date.

VI. REVIEW CRITERIA

Applications will be evaluated with respect to the following criteria:

The significance and scientific merit of the proposed project, and its characterization as an innovative and/or pilot project which provides a basis for more extended research; the methodology; the investigator's background and training for carrying out the project; adequacy of the available and requested facilities, and the adequacy of justifications presented for budget requests.

For information regarding review of applications, contact:

Associate Director, OPEA  
Attention: Scientific Review Office  
National Institute on Aging  
Building 31 - Room 5C-12  
National Institutes of Health  
Bethesda, Maryland 20205

Telephone: (301) 496-9666

ANNOUNCEMENT

INDIVIDUAL PREDOCTORAL RESEARCH

FELLOWSHIP FOR ONCOLOGY NURSES

P.T. 22; K.W. 1200950, 0701032, 1200170

NATIONAL CANCER INSTITUTE

Annual Application Receipt Date: February 1

I. BACKGROUND INFORMATION

The National Cancer Institute (NCI) invites competition for Predoctoral Research Fellowship Awards for Oncology Nurses. Applicants are restricted to those holding, at a minimum, a baccalaureate in nursing, and a license to practice nursing. Also, they must be accepted for training at the postbaccalaureate level in a program designed to culminate in the receipt of a doctor of philosophy degree, and must have identified preceptors who will guide their research training. Up to three awards will be made the first year, with the program leveling off at a total of ten active fellowships. These awards will be made only for long-term research training in any of the basic or applied sciences.

II. OBJECTIVES OF THE AWARD

This program is intended to encourage selected oncology nurses to prepare for academic research careers. The award will enable trainees to undertake up to five years of special study and supervised research experience tailored to individual needs with a sponsor (or sponsors) highly competent in the proposed area of research and research training. This award is intended to support the awardee during study and research towards the Ph.D. degree in a basic or applied cancer science.

III. CRITERIA FOR THE INDIVIDUAL PREDOCTORAL RESEARCH FELLOWSHIP FOR ONCOLOGY NURSES

Competitive review for these awards will assess the plans of (A) the applicant, and (B) the resources of the training institution.

A. THE APPLICANT MUST:

1. Hold at a minimum a baccalaureate of science in nursing from an accredited institution and be accepted in a program designed to culminate in the receipt of a doctor of philosophy degree.
2. Have demonstrated evidence of research interests and a potential for and a commitment to an academic career and have demonstrated evidence of scholarship and analytical ability.
3. Describe in reasonable detail the proposed research training project.

4. Be a United States citizen or national, or be admitted to this country as a permanent resident.
5. Free to inform the NCI annually for a period of five years, subsequent to completion of study, about academic status, publications, and research activities.

**B. THE INSTITUTION MUST:**

1. Be a domestic university with strong, well-established research training, and with adequate numbers of highly trained faculty in the pertinent clinical and basic science departments.
2. Provide quality facilities, resources, and opportunities necessary to the applicants research training plan.
3. Have sponsors with significant research support and proven capabilities in research training.
4. Endorse a training plan congruent with post-training plans of the applicant.

**IV. AWARD**

A stipend of \$5,292 and the sum of \$3,000 will be provided annually for partial defrayment of training-related expenses.

**V. REVIEW OF APPLICATIONS**

Applications for the Individual Predoctoral Research Fellowships for Oncology Nurses will be reviewed by an NIH peer review group and will be evaluated in terms of:

- A. The candidate's potential for and commitment to an academic career.
- B. The merits of the applicant's research training project.
- C. The proposed faculty's potential for training predoctoral oncology nurse fellows in the basic or applied sciences related to cancer.
- D. The quality of the training resources and training plan.
- E. The past research training experiences and present research support of the sponsor (or sponsors).

**VI. HOW TO APPLY**

- A. Use the Public Health Service Individual National Research Service Award application form (PHS-416-1) and send it to:

The Division of Research Grants  
National Institutes of Health  
Room 240  
5333 Westbard Avenue  
Bethesda, Maryland 20205



Applicants are requested to send a brief "Letter of Intent" to reply to this announcement and should include name and address, preceptor's name and address, and the proposed area of research training to:

Program Director  
NRSA Fellowships Program  
Cancer Training Branch  
Division of Cancer Prevention  
and Control  
Blair Building - Room 428  
National Institutes of Health  
9000 Rockville Pike  
Bethesda, Maryland 20205

Telephone: (301) 427-8866

- B. The annual receipt date for these applications will be February 1. Applications will not be accepted after that date.
- C. The earliest begin date for funding should be July 1.
- D. Application forms (PHS-416-1) may be obtained from the institution's application control office. If not otherwise available, they can be requested from:

Office of Grants Inquires  
Division of Research Grants  
National Institutes of Health  
Westwood Building - 448  
5333 Westbard Avenue  
Bethesda, Maryland 20205

- E. Type the phrase "National Cancer Institute Individual Predoctoral Research Fellowship for Oncology Nurses" on the front page of the application.

**ANNOUNCEMENT****PHYSICAL ACTIVITY IN PREGNANCY****P.T. 34; K.W. 1201070, 1002034, 0701027, 1200240, 0202022, 0404019, 1200780****NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT**

The National Institute of Child Health and Human Development (NICHD) supports a wide range of research related to maternal health and the effects on the fetus and infant of pregnancy disorders and maternal health behaviors. Maternal physical activity is a variable of fundamental importance, and is of increasing clinical concern because of the expanded participation of women in the workplace and in sports. This program announcement is intended to focus investigator attention on this important area.

Very few carefully controlled observations have been made of human pregnancy to assess the benefits and possible adverse effects of various types and degrees of aerobic exercise. Animal studies have suggested mechanisms of possible detrimental effects of exercise to the fetus, but are of limited relevance to humans.

The purpose of this program announcement is to encourage submission of scientifically meritorious research grant applications in such areas as the following:

- (1) Prospective clinical studies of normal women regularly performing different levels of exercise during pregnancy, with careful specification of the nature, duration, and intensity of exercise and their relationship to outcome of pregnancy.
- (2) The effects of maternal exercise on fetal and placental growth, and on neonatal and infant health.
- (3) The alterations in metabolic, hormonal, and hemodynamic responses of normal women to sustained exercise testing at various times in pregnancy.
- (4) The interrelationships between maternal exercise and such interacting variables as maternal blood volume, environmental temperature/humidity, nutritional status, and complications of pregnancy, such as anemia and hypertension.
- (5) The particular benefits or risks to pregnancy outcome of exercise by women with various disorders of pregnancy.

This program is described in the Catalog of Federal Domestic Assistance No. 13.865, Research for Mothers and Children. Awards will be made under the authority of the Public Health Service Act, Title III, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74. This program is not subject to the intergovernmental review requirements of Executive Order 12372 or Health Systems Agency review.

- (6) Safe techniques to measure uterine blood flow changes and fetal heart rate responses during maternal exercise in humans.
- (7) The interrelationships between maternal exercise and such other health behaviors as diet, smoking, and alcohol use.
- (8) Animal studies to define the specific changes in fetal metabolism, placental transport, fetal hormone synthesis and activity, and fetal temperature that may be induced by maternal exercise.

The above topics are examples and proposed research need not be limited to them.

#### APPLICATION SUBMISSION AND REVIEW

Applicants should use the regular research grant application form PHS-398, which is available at institutional grants offices or from the Division of Research Grants (DRG) NIH. Application receipt dates for new applications are: November 1, March 1, and July 1.

In order to identify the response to this announcement, check "yes" and put "Physical Activity in Pregnancy" under item 2 on page 1 of Form 398 of grant applications relating to the content of this announcement. Completed applications should be mailed to:

Division of Research Grants  
National Institute of Health  
Westwood Building - Room 240  
5333 Westbard Avenue  
Bethesda, Maryland 20205

In accordance with existing NIH procedure, the DRG will assign each application to the appropriate study section for review.

Applications submitted in response to this announcement will be considered for funding under the regular research grant program without special set-aside funds.

Additional programmatic information may be obtained from:

Donald McNellis, M.D.  
Special Assistant for Obstetrics  
Pregnancy and Perinatology Section  
CNED, CRMC, NICHD  
National Institutes of Health  
Landow Building - Room 7C09  
Bethesda, Maryland 20205

Telephone: (301) 496-5575

**ANNOUNCEMENT****CLINICAL INVESTIGATOR DEVELOPMENT AWARD**

P.T. 34, 44; K.W. 1200270, 0701007, 1002030, 0701013, 1200550

**NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE**

The National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) announces the availability of a Clinical Investigator Development Award (CIDA). This award, a career development award, replaces the NINCDS Teacher Investigator Development Award which has been offered since 1970.

The intent of the NINCDS through this mechanism is to prepare clinically-trained persons for academic research careers in the medical sciences related to the neurological and communicative disorders. The award bridges the gap between postdoctoral training and a secure academic appointment and completes the development of research capability of a candidate who already has some research experience.

Amount of Award - This career development award provides a stipend of up to \$40,000 per year. Since salary levels are set by the sponsoring institution, it is permissible to supplement the CIDA stipend with non-Federal funds to an amount consistent with the usual scale for other individuals at the grantee institution with similar experience and responsibility.

A research allowance of up to \$10,000 in the first and last years and of up to \$20,000 in the middle years of the CIDA may be requested. The research allowance will be awarded in amounts justified in the application and consistent with the recommendations of the initial review group and the National Advisory Neurological and Communicative Disorders and Stroke Council.

Duration of Award - The usual duration of award will be five years; however, this award provides the flexibility of 3 to 5 years of support for candidates who have prior research experience, as outlined below.

**Eligibility -**

M.D - (or other health professional degree, e.g., D.D.S., D.O., D.V.M) with or without M.S., M.P.H., Dr.P.H. and/or Ph.D. degrees.

This program is described in the Catalog of Federal Domestic Assistance, No. 13.853, Stroke, Nervous System Trauma. Awards will be made under the authority of the Public Health Service Act, Title IV, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74. This program is not subject to the intergovernmental review requirements of Executive Order 12372 or Health Systems Agency review.

- o Candidates having completed residency training. Applicant organizations may propose a program of development of 3, 4, or 5 consecutive years. If requesting less than 5 years of support, the application must provide sufficient details about relevant past research experience to assure reviewers that the intended academic development could be accomplished in the proposed time frame.
- o Candidates within the residency training period, or those who have not had residency training. In all cases, at least two years of post-M.D. experience in clinical or basic science areas is a prerequisite. Programs may be proposed for a continuous 3-to-5 year period, or as a split award in which Part A (two consecutive years) may be separated from Part B (up to three consecutive years). Part A can provide for a 2-year period of research training usually in a basic science environment; Part B can provide for a 3-year period of sponsored research experience. Parts A and B may be separated by a period not exceeding 2 years. Parts A and B must both be proposed in the initial application when such a split award is contemplated.

Ph.D with professional experience in clinical areas (e.g., speech pathology; audiology; neuropathology; epidemiology).

- o Candidates must have at least two years of postdoctoral experience. Applicant organizations may propose a program of development of 3, 4, or 5 consecutive years. If requesting less than five years of support, the application must provide sufficient details about relevant past research experience to assure reviewers that the intended academic development could be accomplished in the proposed time frame.

Development Plan - The candidate's academic research development plan should include research and research training requiring at least 75% of time and effort. Related clinical and teaching activities not to exceed 25% time and effort may be requested, but must be described in the proposal.

Application Schedule - Receipt dates for applications are February 1, June 1, and October 1. Initial review will be by an NINCDS initial review group, with secondary review by the National Advisory Neurological and Communicative Disorders and Stroke Council. Earliest award dates will be approximately nine months after initial receipt. The first receipt date for the CIDA applications will be October 1, 1984. Applications for the former program, the Teacher Investigator Development Award, will not be accepted after the October 1, 1984 receipt date.

This announcement is not intended to provide all the details needed to apply for the CIDA. For further information about this program, including guidelines, details of the application process, and application instructions, please contact:

Donald H. Luecke, M.D.  
Deputy Director, Extramural Activities Program  
National Institute of Neurological and  
Communicative Disorders and Stroke  
National Institutes of Health  
1016 Federal Building  
Bethesda, Maryland 20205

Telephone: (301) 496-4188

## ANNOUNCEMENT

### RESEARCH GRANTS ON STATUS EPILEPTICUS

P.T. 34; K.W. 1200330, 1200460, 0701013, 0701042, 0415000, 1200370, 1200900

**NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE**

Application Receipt Date: November 1, March 1, and July 1.

#### I. INTRODUCTION

The Epilepsy Branch, Convulsive, Developmental, and Neuromuscular Disorder Program, National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) encourages the submission of research project grant applications (ROI) related to etiology, characterization, treatment, consequences, and prevention of status epilepticus.

#### II. BACKGROUND

Status epilepticus is defined as "epileptic seizures that are so frequently repeated or prolonged as to create a fixed and lasting epileptic condition." Status epilepticus is of significant clinical concern because of its high mortality and morbidity rates and its serious neurological consequences. In addition to tonic-clonic status epilepticus and epilepsy partialis continua, prolonged states of nonconvulsive absence and complex partial seizures have been accepted as forms of status epilepticus. Recent advances in documentation of prolonged seizures by closed-circuit television and electroencephalography and a new understanding of the cellular and knowledge and identified a number of areas in which knowledge of the disorder is far from complete.

#### III. RESEARCH GOALS

The goals of this research program are to obtain an understanding of all aspects of status epilepticus: its definition, etiology, incidence, treatment, consequences, and prevention. The research scope of this program encompasses both animal and human studies, utilizing a variety of experimental approaches and methods. Proposals with new ideas and initiatives would be welcome.

This program is described in the Catalog of Federal Domestic Assistance No. 13.853, Clinical Basis Research, NINCDS. Awards will be made under the authority of the Public Health Service Act, Title IV, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74. This program is not subject to the intergovernmental review requirements of Executive Order 12372 or Health Systems Agency Review.

Examples of areas of potential research would include studies on the effects of repeated seizures on glial and synaptic function, biochemical regulators, receptors, amino acid neurotransmitters, and regional glucose metabolism. The cellular and molecular mechanisms that transform a single seizure into status epilepticus are not known. Additional drugs with greater efficacy and safety for treatment of convulsive status epilepticus need to be developed. Controlled comparisons of the drugs used to treat convulsive status have been limited in scope, and the preferred general anesthetic needs better definition. Electroclinical documentation and classification of neonatal status epilepticus needs to be done.

Research efforts to provide answers to these and other questions about status epilepticus are requested.

#### IV. MECHANISM OF SUPPORT

Support for this program will be through the traditional research grant-in-aid. Successful applicants will direct and carry out the individual research projects.

#### V. APPLICATION AND REVIEW PROCEDURES

Applications should be prepared on Form PHS 398 according to instructions contained in the application kit. Application kits are available from most institutional business offices or may be obtained from the Division of Research Grants at the address given below.

Check "yes" in item two on the face sheet of the application and type "Grants Related to Status Epilepticus" in the space provided.

Applications must be responsive to the program announcement. They will be judged on scientific merit and program relevance in accordance with NIH policy and procedures involving peer review. An initial review will be made by an appropriate study section of the Division of Research Grants. A second level of review will be made by the National Advisory Neurological and Communicative Disorders and Stroke Council.

Deadlines for the receipt of applications are: November 1, March 1, and July 1.

The original and six copies of the application should be mailed to the following address:

Division of Research Grants  
National Institutes of Health  
Westwood Building - Room 240  
5333 Westbard Avenue  
Bethesda, Maryland 20205

For further information applicants may contact:

James J. Cereghino, M.D.  
National Institutes of Health  
NINCDS, CDNDP, EB  
Federal Building - Room 114  
7550 Wisconsin Avenue  
Bethesda, Maryland 20205

Telephone: (301) 496-1917

**ANNOUNCEMENT****RESEARCH ON DIGESTIVE DISEASES**

P.T. 34, 22; K.W. 1200400, 1201030, 1201080, 0202022, 1200670, 1002023, 1201300

**ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION**

**NATIONAL INSTITUTES OF HEALTH**

**NATIONAL CENTER FOR HEALTH SERVICES RESEARCH**

**I. INTRODUCTION**

The Alcohol, Drug Abuse and Mental Health Administration (ADAMHA), The National Institutes of Health (NIH), and the National Center for Health Services Research (NCHSR) announce research and research career development grant support opportunities in the normal function and the diseases and disorders of the digestive system. The topics were selected and developed by committees of basic and clinical science experts for the National Digestive Diseases Advisory Board (NDDAB). These experts were charged by the NDDAB to recommend clinically important areas that are on the frontiers of research, but not fully exploited by the biomedical research community. Grant support for these research opportunities is offered through the programs of ADAMHA, NIH, and NCHSR (see section IV). Copies of the NDDAB report, Research Advances, Opportunities, and Needs in Digestive Diseases are available (see III, below).

**II. RESEARCH GOALS AND SCOPE**

Participating Institutes are encouraging applications for research and research career development grants in areas recommended by the NDDAB. Specifically, applications are encouraged in the areas listed below. Each of these topics is extensively developed in the NDDAB report, and interested persons are encouraged to obtain copies of the report. (Institutes with programs related to each topic are indicated following each area item used below. The first-listed institute is suggested as an initial contact point should you be unsure of an appropriate institute for your interests--see section IV for explanation of acronyms).

---

This announcement is an activity managed by the Digestive Diseases Intergency Coordinating Committee. Awards will be made under the authority of the Public Health Service Act, Title IV, Section 403 (Public Law 78-410, as amended; 42 USC 284) and administered under PHS grant policies and Federal regulations 42 CFR Part 52 and 45 CFR Part 74. This program is not subject to the intergovernmental review requirements of Executive Order 12372 or Health Systems Agency review.



- A. Gastrointestinal Development (NICHD; also NIAAA, NIADDK, and NIDR).
- B. The Physiological Basis of Gastrointestinal Function (NICHD; also NCI, NIA, NIAAA, NIADDK and NIDR).
- C. Smooth Muscle Disease and Motility (NIADDK; also NIA, and NICHD).
- D. Gastrointestinal Regulatory Peptides (NIADDK; also NCI, NICHD, and NIDA).
- E. Prostaglandins (NIADDK; also NCI, NIAAA, and NICHD).
- F. Immunology of the Gastrointestinal Tract (NIAID; also NCI, NIA, NIAAA, NICHD, and NIDR).
- G. Nutrition (NIADDK; also NCI, NIA, NIAAA, NIDA, NICHD, NIMH, and NIEHS).
- H. Infectious Diarrheal Diseases (NIADDK; also NIA, NIAID, and NICHD).
- I. Viral Hepatitis (NCI; also NIAID, NIADDK, and NICHD).
- J. Liver Detoxification (NIADDK; also NCI, NIAAA, NICHD, and NIDA).
- K. Liver Transplantation (NIADDK; also NCI, NCHSR, NIAAA, NIAID, and NICHD).
- L. Gallstone Disease (NIADDK).
- M. Gastrointestinal Precancerous Conditions (NCI; also NIAID, and NIADDK).
- N. Gastrointestinal Endoscopy (NIADDK; also NCI, NCHSR, NIA, and NICHD).

The Fogarty International Center (FIC) and the Division of Research Resources (DRR) of the NIH have programs which relate to the above topics as follows:

- o The FIC International Research Fellowship Program provides the opportunity for foreign postdoctoral biomedical and behavioral scientists to gain further research experience in the laboratory of a U. S. scientist. The FIC Senior International Fellowship Program provides U. S. biomedical and behavioral scientists opportunity to go abroad to study and share their expertise.
- o Clinicians receiving research funding through the programs participating in this announcement, and requiring hospital beds, can utilize the resources of the General Clinical Research Centers (GCRCs) supported by DRR. The mechanism to do this is application through the GCRC Advisory Committee of institutions which are recipients of GCRC awards.

### III. REQUESTING COPIES OF THE NDDAB RESEARCH REPORT

Individual copies of the NDDAB report "Research Advances, Opportunities and Needs in Digestive Diseases". U.S. Department of Health and Human Services (DHHS), NIH Publication No. 84-2658, October 1983 are available by writing:

Executive Director  
National Digestive Diseases Advisory Board  
P. O. Box 30377  
Bethesda, Maryland 20814

#### IV. U S. PUBLIC HEALTH SERVICE PARTICIPATION IN THIS ANNOUNCEMENT

The Institutes listed below are participating in this announcement. A contact person is named for each Institute. Inquiries on grant applications and related matters are welcome and encouraged. See section II for suggestions of appropriate Institute relationships to announcement topics.

National Cancer Institute (NCI):

Dr. Andrew Chiarodo  
Chief, Organ Systems Section  
Cancer Centers Branch  
National Cancer Institute  
Blair Building - Room 722  
Bethesda, Maryland 20205

Telephone: (301) 427-8818

National Center for Health Services Research (NCHSR):

Mr. Gerald S. Cohen  
Chief, Medical Information System  
National Center for Health Services Research  
Park Building 318 No. 2  
5600 Fishers Lane  
Rockville, Maryland 20857

Telephone: (301) 443-2080

National Institute on Alcohol Abuse and Alcoholism (NIAAA):

Dr. Norman Chang  
Health Science Administrator  
National Institute of Alcohol Abuse and Alcoholism  
Parklawn Building - Room 14C17  
5600 Fishers Lane  
Rockville, Maryland 20857

Telephone: (301) 443-4223

National Institute of Allergy and Infectious Diseases  
(NIAID):

Dr. Richard E. Horton  
Medical Officer  
Clinical and Epidemiological Studies Branch  
Microbiology and Infectious Diseases Program  
National Institute of Allergy and Infectious Diseases  
Building 31 - Room 7A49  
Bethesda, Maryland 20205

Telephone: (301) 496-5893

National Institute of Arthritis, Diabetes, and Digestive  
and Kidney Diseases (NIADDK):

Dr. Donald G. Murphy  
Director, Special Emphasis Areas Program  
Division of Digestive Diseases and Nutrition  
National Institute of Arthritis, Diabetes, and  
Digestive and Kidney Diseases  
Westwood Building - Room 3A15  
Bethesda, Maryland 20205

Telephone: (301) 496-7455

National Institute of Child Health and Human  
Development (NICHD):

Dr. Thorsten A. Fjellstedt  
Health Scientist Administrator  
National Institute of Child Health and Human  
Development  
Landow Building - Room 7C17  
Bethesda, Maryland 20205

Telephone: (301) 496-5575

National Institute of Dental Research (NIDR):

Dr. Samuel Kakehashi  
Health Science Administrator  
Periodontal and Soft Tissue Diseases Branch  
National Institute of Dental Research  
Westwood Building - Room 519  
Bethesda, Maryland 20205

Telephone: (301) 496-7784

National Institute on Drug Abuse (NIDA):

Dr. Stephen Szara  
Chief, Biomedical Branch  
Division of Preclinical Research  
National Institute on Drug Abuse  
Parklawn Building - Room 10A31  
5600 Fishers Lane  
Rockville, Maryland 20857

Telephone: (301) 443-6300

National Institute of Environmental Health Sciences (NIEHS):

Dr. Wilford S. Nusser  
Associate Director, Extramural Programs  
National Institute of Environmental Health  
Sciences  
P.O. Box 12233, Mail Drop T10  
Research Triangle Park, North Carolina 27709

Telephone: (919) 541-7723

National Institute on Aging (NIA):

Dr. Evan Hadley  
Chief, Geriatrics Branch  
National Institute on Aging  
Building 31 - Room 5C21  
Bethesda, Maryland 20205

Telephone: (301) 496-1033

National Institute of Mental Health (NIMH):

Dr. Ellen S. Stover  
Chief, Research Resources Branch  
National Institute of Mental Health  
Parklawn Building - Room 10-104  
5600 Fishers Lane  
Rockville, Maryland 20857

Telephone: (301) 443-4337

Division of Research Resources (DRR):

Dr. Eric Elliot  
Medical Officer  
General Clinical Research Centers Program  
Division of Research Resources  
Building 31 - Room 5B47  
Bethesda, Maryland 20205

Telephone: (301) 496-6595

Fogarty International Center (FIC):

Dr. Bettie J. Graham  
Chief, International Research and Awards Branch  
Fogarty International Center  
Building 38A - Room 613A  
Bethesda, Maryland 20205

Telephone: (301) 496-6688

V. MECHANISMS OF SUPPORT

The mechanism of support for this program will be the grant-in-aid, including, but not limited to, the traditional project grant, fellowships, new investigator research award, clinical investigator research award, physician scientist award, and research career development award. Potential applicants should acquaint themselves with the requirements of awards in which they have an interest. The regulations (Code of Federal Regulations, Title 42, Part 52 and Title 45, Part 74) and policies that govern the research grant programs of the Public Health Service will prevail. The award of grants pursuant to this program announcement is contingent upon availability of funds.

VI. METHOD AND CRITERIA OF REVIEW

- A. Assignment of Applications: Applications will be received by the Division of Research Grants (DRG), NIH, referred to an appropriate study section for scientific review, and assigned to individual Institutes of the participating agencies for possible funding (where appropriate dual interest assignments will be made). These decisions will be governed by normal programmatic considerations as specified in the DRG Referral Guidelines.
- B. Review Procedures: Applications in response to this announcement will be reviewed on a nationwide basis in competition with other applications received in the same review cycle, and in accord with the usual NIH/ADAMHA/NCHSR peer review procedures. They will first be reviewed for scientific and technical merit by a review group composed mostly of non-Federal scientific consultants (study section). Following study section review, the application will be evaluated by the appropriate Institute Advisory Council or Board with respect to the adequacy of the technical merit review and the program relevance of the research proposed. The review criteria customarily employed by NIH/ADAMHA/NCHSR for regular research grant applications will prevail.

- C. Deadlines: Applications will be accepted in accordance with the usual PHS receipt dates. For further information, please contact the appropriate staff person.

#### VII. METHOD OF APPLYING

Research project grant applications should be submitted on forms PHS 398, which are available in the business or grants and contracts office at most academic and research institutions. The phrase "**Prepared in Response to PHS Program Announcement for Research on Digestive Diseases**" should be typed into item 2 of the first page of the application. Information on applications for fellowships, career development awards, other grant mechanisms, and current program emphases should be obtained directly from institute contact persons.

The completed original and six (6) copies of the application should be sent or delivered to:

Application Receipt Office  
Division of Research Grants  
National Institutes of Health  
Westwood Building - Room 240  
Bethesda, Maryland 20205

For further information, investigators are encouraged to contact one or more of the Institute contact persons listed above.

ANNOUNCEMENT

CHILD AND ADOLESCENT MENTAL HEALTH RESEARCH AND RESEARCH TRAINING

P.T. 34, 441 K.W. 0701029, 0404004, 0701013, 0404000, 1002030, 0701042, 0701026

NATIONAL INSTITUTE OF MENTAL HEALTH

The National Institute of Mental Health (NIMH) has issued an announcement of Support for Child and Adolescent Mental Health Research and Research Training. NIMH seeks, through this announcement, to encourage basic, clinical, and applied research and research training in child and adolescent mental health and mental and emotional disorders. Such activity reflects a recognition that the advancement of child mental health requires increased understanding of normal and pathological processes as they operate and interact throughout the developmental stages leading to maturity in both males and females.

Research and research training concerning children and adolescents are supported across the range of NIMH programs in the neurosciences, behavioral sciences, epidemiology, and clinical, treatment, prevention, and services research. Through the understanding of processes fundamental to mental health and mental health disorders in the formative years, there will be enhanced ability to promote normal child and adolescent development, to prevent the onset of mental disorders, and to treat the disorders when they occur.

Support is provided for investigating, and for training to investigate, processes on many levels from the molecular and cellular to the intrapsychic and interpersonal. Research may employ theoretical, laboratory, clinical, methodological, and field studies, any of which may involve clinical, subclinical, and normal subjects, as well as animal models appropriate to the system being investigated and the state of the field. Also research that crosses boundaries and/or brings expertise from one area to bear on another is encouraged.

The announcement sets out in detail the specific goals and requirements of the many child and adolescent research and research training programs in the Institute.

Applications submitted under this announcement will compete for funding with applications submitted under all NIMH research grant and research training programs.

For single copies of this announcement and for further information, contact:

Michael E. Fishman, M.D.  
Assistant Director for Children and Youth  
National Institute of Mental Health  
Parklawn Building - Room 17C-20  
5600 Fishers Lane  
Rockville, Maryland 20857

Telephone: 301 - 443-4580