

NIH GUIDE

For Grants and Contracts

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The NIH Guide announces scientific
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be kept informed of opportunities,
requirements, and changes in extra-
mural programs administered by the
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Vol. 17, No. 38
November 18, 1988

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SPECIAL INFORMATION: KEYWORD THESAURUS

P.T. 34; K.W. 0710030

National Institutes of Health

The Keyword Thesaurus terms that have been used to classify announcements, RFAs, and RFPs were published in the Guide for Grants and Contracts dated September 12, 1986. The terms were based on the 1984 revision of the Thesaurus, which has been revised most recently in September 1988. Almost all of the formerly listed Biomedical Research terms have been retained in the new revision. A new section for energy terms has been added and terms for other disciplines and specific research interests of the agencies have been updated and expanded. Recommendations from numerous university users have been collected over the past four years and many of those suggestions have been included in the 1988 revised version. For more information about the Keyword Thesaurus, please contact Rodman and Associates at 1950 Stemmons Freeway, Dallas, Texas 75207. The telephone number is 214-746-5345.

For a complete copy of the section of the Keyword Thesaurus that will be used by the National Institutes of Health to classify material in the NIH Guide for Grants and Contracts please write or call:

Dr. John C. James Division of Research Grants National Institutes of Health
Westwood Building, Room 109 Bethesda, Maryland 20892 Telephone: (301)
496-7554

The following list of terms from the 1988 revision is intended only to supplement the regular list of Keyword Thesaurus terms that have been used in the Guide since the 1984 revision. A few of the new terms listed below were added to describe the subject matter in forthcoming issues of the Guide. Those new additions that are not a part of the whole Keyword Thesaurus are marked with a + sign. For coverage of agencies other than NIH the whole publication should be used. Also from time to time keyword terms from other sections (particularly sections such as the biological sciences, chemical sciences, and behavioral sciences) of the complete revised publication may be used to classify NIH announcements. Therefore, it would be advisable for users of the coded program information in DOE, NIH, NSF and other agency announcements to obtain a copy of the revised publication. In a future issue of the NIH Guide for Grants and Contracts, the whole biomedical section of the Thesaurus as used by NIH will be published.

New Keyword Thesaurus Terms

0715006 Adverse Effects
0715008 AIDS
0715013 Asthma
0715032 Blood Diseases
0715033 Burns
0715041 Caries
0715042 Cerebrovascular Disorders
0715043 Chronic Fatigue
0715072 Depression
0715103 Fungal Diseases+
0715026 Inflammation
0715027 Injury
0715129 Mental Disorders
0715136 Muscle Disorders
0715137 Neonatal Disorders
0715138 Neurological Disorders
0715148 Oral Diseases
0715149 Orphan/Rare Diseases+
0715157 Periodontal Diseases
0715162 Psychosis
0715167 Reproductive Disorders
0715177 Schizophrenia
0715182 Sexually Transmitted Diseases
0715187 Sleep Disorders
0720010 Learning Disorders+
0730080 Vital Statistics
0740011 Antisera
0740012 Antivirals
0740013 Biofeedback
0740018 Chemopreventive Agents
0740023 Immune Enhancers

0745003 Chemoprevention
0745027 Disease Prevention+
0745037 Hyperthermia
0745047 Neural Stimulation
0745062 Radiotherapy
0755018 Data Management/Analysis+
0755041 Molecular Cloning+
0755042 Molecular Probes
0755060 Screening of Drugs/Agents
0760002 Biochemical Markers
0760003 Biological Markers
0760004 Cell Components+
1215018 Human Genome
0760042 Lymphocytes
0760085 Steroids
0765033 Pathogenesis
0765040 Wound Healing
0780017 Chemicals/Materials+
0780025 Organs+
0780030 Registries+
1014006 Grants Administration/Policy+
0795003 Disease Control+

NIH REGIONAL WORKSHOPS ON IMPLEMENTATION OF THE PHS POLICY
ON HUMANE CARE AND USE OF LABORATORY ANIMALS

P.T. 42; K.W. 1014002, 0201011, 1014003

Office of Protection from Research Risks

The National Institutes of Health, Office for Protection from Research Risks, is continuing to sponsor a series of workshops in implementing the Public Health Service Policy on the Humane Care and Use of Laboratory Animals. The workshops are open to institutional administrators, members of animal care and use committees, laboratory animal veterinarians, investigators and other institutional staff who have responsibility for high-quality management of sound institutional animal care and use programs.

Date: December 1-2, 1988

Location: Baltimore, Maryland

Contact: Office of Continuing Education
Johns Hopkins University
720 Rutland Avenue
Turner Building
Baltimore, Maryland 21205
Telephone: (301) 955-2959

Date: January 24-25, 1989

Location: San Antonio, Texas

Contact: Ms. Molly Greene
Institutional Animal Care Program
University of Texas Health Science Center
at San Antonio
7703 Floyd Curl Drive
San Antonio, Texas 78284-3717
Telephone: (512) 567-3717

Date: February 9-10, 1989

Location: Salt Lake City, Utah

Contact: Joan Provost
Conferences and Institutes
University of Utah
Salt Lake City, Utah 84112
Telephone: (801) 581-5809

Other workshops are being planned and will be announced in future issues of the NIH Guide for Grants and Contracts.

For additional information contact:

Ms. Roberta H. Sonneborn
Executive Assistant for Animal Welfare Education
National Institutes of Health
Office for Protection from Research Risks
Building 31, Room 4B09
Bethesda, Maryland 20892
Telephone: (301) 496-7005

ADDENDUM: NATIONAL RESEARCH SERVICE AWARD (NRSA) STIPEND INCREASE MINORITY ACCESS TO RESEARCH CAREERS--HONORS UNDERGRADUATE RESEARCH TRAINING (MARC(HURT))

P.T. 22, 44, FF; K.W. 0720005, 1014002, 1014006

Public Health Service

The Guide for Grants and Contracts, Vol. 17, No. 24, July 29, 1988, announced that effective October 1, 1988, stipend levels on NRSA awards made from the FY 1989 appropriation would be increased. In addition to the predoctoral and postdoctoral stipends which were addressed in that issue, the stipend level paid to trainees on the MARC(HURT) prebaccalaureate programs have also been increased.

The stipend level has been changed from the current annual level of \$5,004 to \$6,504. This increase in stipend level is effective only for awards made beginning with FY 1989 funds; no retroactive adjustments or supplementation of stipends with NRSA funds for awards made prior to October 1, 1988, or with funds from FY 1988 is permitted.

This stipend increase will be applied to all appropriate applications currently being reviewed and should be used in the preparation of future applications.

DEBARMENT AND SUSPENSION

P.T. 22, 23, 34, 44; K.W. 1014002, 1014006

Public Health Service
National Institutes of Health
Alcohol, Drug Abuse and Mental Health
Administration

Executive Order 12549, "Debarment and Suspension," called for development of a Government-wide debarment and suspension system for nonprocurement transactions with Federal agencies. "Nonprocurement" transactions include, for example, grants, cooperative agreements, scholarships, fellowships, and loans. Accordingly, EACH APPLICANT SUBMITTING APPLICATIONS FOR FINANCIAL ASSISTANCE FROM THE PUBLIC HEALTH SERVICE (PHS) AFTER NOVEMBER 30, 1988, IS REQUIRED TO CERTIFY, AMONG OTHER THINGS, THAT NEITHER IT NOR ITS PRINCIPALS ARE PRESENTLY DEBARRED, SUSPENDED, PROPOSED FOR DEBARMENT, DECLARED INELIGIBLE, OR VOLUNTARILY EXCLUDED FROM COVERED TRANSACTIONS BY ANY FEDERAL AGENCY.

Subawardees, that is, other corporations, partnerships, or other legal entities (called "lower tier" participants) must make the same certification to the applicant organization concerning their covered transactions.

Please refer to the Department of Health and Human Services' (DHHS) pertinent implementing regulations, Title 45 Code of Federal Regulations Part 76, for complete certification requirements.

Until application forms are revised to include a specific item concerning this assurance, the following certifications are made an integral part of the PHS and NIH application forms for financial assistance.

APPLICATIONS FOR FELLOWSHIPS AWARDED BY THE PHS TO INDIVIDUALS

The individual signing the application (FOR EXAMPLE, Item 15 on the face page of Form PHS 416-1 (Rev. 6/85), "Application for Public Health Service Individual National Research Service Award") is certifying, among other things, that he/she is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal agency. This certification is in addition to the APPLICANT CERTIFICATION AND ACCEPTANCE statement printed on the application.

If you are unable to make the required certifications, please sign the application in the usual manner and attach an explanation to the application as follows:

- o Behind the CHECKLIST page, for competing applications:
- o Behind the APPLICATION FACE PAGE (Page 1), for non-competing continuation applications.

APPLICATIONS OTHER THAN FOR FELLOWSHIPS AWARDED BY THE PHS TO INDIVIDUALS

The individual signing the grant application as the applicant organization's authorized representative (FOR EXAMPLE, Item 18 on the face page of Form PHS 398 (Rev. 9/86), "Application for Public Health Service Grant"), is making these certifications on behalf of the application organization and its principals. These certifications are in addition to the CERTIFICATION AND ACCEPTANCE statement printed on the grant application.

If the applicant organization is unable to make the required certifications, its authorized representative should sign the application in the usual manner and attach an explanation to the application as follows:

- o Behind the CHECKLIST page, for competing applications;
- o Behind the APPLICATION FACE PAGE (Page 1), for non-competing continuation applications.

INDIVIDUALS (TRAINEES) APPOINTED UNDER INSTITUTIONAL TRAINING GRANTS

Trainees appointed under PHS institutional training grants are considered to be "subawardees" for purposes of this certification. Therefore, sponsoring institutions are required to obtain the requisite certifications from its trainees, in whatever format the institution chooses, before the trainee can be considered eligible to receive a stipend or other PHS financial assistance.

PLEASE REFER TO THE DHHS IMPLEMENTING REGULATIONS, TITLE 45 CODE OF FEDERAL REGULATIONS PART 76, FOR COMPLETE CERTIFICATION REQUIREMENTS.

DATED ANNOUNCEMENTS (RFPs AND RFAs)

TECHNICAL, ANALYTICAL, AND DOCUMENTATION SUPPORT SERVICES FOR THE NATIONAL HEART, BLOOD VESSEL, LUNG, AND BLOOD DISEASES AND BLOOD RESOURCES PROGRAM

RFP AVAILABLE: NIH-NHLBI-HO-89-03

P.T. 01; K.W. 0755018

National Heart, Lung, and Blood Institute

The National Heart, Lung, and Blood Institute will make available to interested offerors a request for proposals to support activities for the National Heart, Blood Vessel, Lung, and Blood Diseases and Blood Resources Program (P.L. 99-158). In administering the Program, NHLBI supports a variety of task forces, conferences, and workshops and prepares numerous reports and technical documents. Services are required to: (1) provide technical support to scientific working groups; (2) provide documentation support including preparation of technical reports; preparation of visual exhibits such as briefing materials; and editorial support for many diverse, technical reports; and (3) provide analytic support including qualitative and quantitative data collection and appropriate synthesis. Documentation services are required to assist in the preparation of the NHLBI Fact Book, the Annual Report of the Director, the semi-annual Program and Fiscal Reviews of the NHLB Advisory Council, and a variety of special-purpose scientific reports. Additionally, scientific meeting, workshop, and analytic and documentation services are required in support of various activities and projects undertaken by the Divisions of the Institute and the Office of the Director, including, for example, updates of the National Program Plan and support for the Office of Prevention, Education, and Control (OPEC) and the Office of Program Planning and Evaluation (OPPE). The support for all tasks during the 3-year contract period will require approximately 12 person years per year. The successful offeror's worksite must be located within one (1) hour traveling time from Bethesda, Maryland. Alternatively, the successful offeror shall, within 30 days following contract award, relocate or establish a performance ready office that meets this requirement.

This is not a Request for Proposals. RFP NHLBI-H0-89-03 will be released on or about November 14, 1988 with proposals due on or about January 9, 1989. One (1) award is anticipated by the Government. Your written request should include three (3) labels, self-addressed with your mailing address, and must cite RFP No. NHLBI-H0-89-03. This is a 100% small business set-aside (SIC:8741).

Requests for copies of the RFP should be sent to the following address:

Kristee M. Ryman, Contract Specialist
HLVD Contracts Section,
Contracts Operations Branch, DEA
National Heart, Lung, and Blood Institute
Federal Building, Room 4C04
National Institutes of Health
Bethesda, Maryland 20892
Telephone: (301) 496-6838

SMALL GRANTS FOR RESEARCHERS IN DIGESTIVE DISEASES AND/OR NUTRITION

RFA AVAILABLE: 88-DK-14

P.T. 34; K.W. 0715075, 1002004, 1002008, 1002019, 0785050, 0710095

National Institute of Diabetes and Digestive and Kidney Diseases

Application Receipt Date: March 10, 1989

BACKGROUND

The Division of Digestive Diseases and Nutrition of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), supports research and training programs related to liver and biliary diseases; pancreatic diseases; gastrointestinal diseases including neuroendocrinology, motility, mucosal and immunological injury, GI-immunodeficiency; and digestion in the GI tract; nutrient metabolism; obesity; eating disorders; and energy regulation. Within each of these areas, the pursuit of research into the mechanisms of various regulatory functions and disease pathophysiology often requires the ability to use techniques of molecular and cellular biology, virology, immunology, genetics and epidemiology. The Division wishes to encourage established researchers who are Division-supported principal investigators or who have been supported by the Division within the past three years to obtain first-hand experience with new techniques as a "Visiting Researcher" in the laboratory of a "Host" expert in molecular biology, cellular biology, virology, immunology, genetics or epidemiology. The new techniques should be an integral part of an original pilot research project conceived by the Visiting Researcher in collaboration with the Host. The proposed research project should result in novel preliminary data which could strengthen a subsequent application for regular grant support, or provide documentation of experience in a defined area.

OBJECTIVES AND SCOPE

The overall goal is to encourage established investigators in digestive diseases and/or nutrition to undertake projects that are very basic in scope and will utilize the newer techniques of molecular and cellular biology, immunology, virology, genetics and epidemiology. We are especially interested in investigators in nutrition wishing to get molecular biology experience. This Request For Applications should encourage prospective Visiting Researchers to identify Hosts in order to prepare and submit a Small Grant Application. The application must be submitted by the Visiting Researcher and his/her Institution. The proposed research project, to be performed in the Host's laboratory, need not be directly related to digestive diseases or nutritional science. However, the techniques utilized while performing the research project must be directly applicable to the Visiting Researcher's future work in digestive diseases and/or nutrition.

ELIGIBILITY REQUIREMENTS

All Visiting Researchers must have received a Ph.D., M.D. or equivalent degree from an accredited institution, and must have had at least seven subsequent years of relevant research or professional experience. They must be current Principal Investigators in the Digestive Diseases and Nutrition Program or have been so within the past three years. The Host must be an independent investigator with expertise in molecular biology, cell biology, immunology, virology, genetics or epidemiology and the specialized techniques associated with these disciplines. The Host Institution must be different from that of

the Visiting Researcher and be in a different city. The training must be full-time.

TERMS OF THE AWARD

This non-renewable award is intended to provide a maximum of \$25,000 for up to a six-month period, with shorter periods being prorated. A time commitment of at least 3 months is required. We anticipate making between ten to twelve awards. However, the funding of applications submitted in response to this RFA is contingent on the actual availability of funds and receipt of applications deemed worthy of support by the accepted NIH peer review process.

REVIEW PROCEDURES

All applications submitted in response to this RFA will be evaluated for scientific and technical merit by an initial review group, which will be convened for this purpose, by the Division of Extramural Affairs, NIDDK.

There will be a single receipt date of March 10, 1989. Applications received after that date will be returned.

METHOD OF APPLYING

Potential applicants should write or phone the individuals listed below for the full RFA document, which includes instructions for the submission of applications:

For Nutrition Research
Van S. Hubbard, M.D., Ph.D.
Westwood Bldg., Rm 3A-18
NIDDK
5333 Westbard Ave.
Bethesda, Maryland 20892
Telephone: (301) 496-7823

For Pancreatic Research
Sarah C. Kalser, Ph.D.
Westwood Bldg., Rm 3A-17
NIDDK
5333 Westbard Ave.
Bethesda, Maryland 20892
Telephone: (301) 496-7858

For Gastrointestinal Research
Frank A. Hamilton, M.D., M.P.H.
Westwood Bldg., Rm 3A-15
NIDDK
5333 Westbard Ave.
Bethesda, Maryland 20892
Telephone: (301) 496-7821

For Liver and Biliary Research
Sarah C. Kalser, Ph.D.
Westwood Bldg, Rm 3A-17
NIDDK
5333 Westbard Ave.
Bethesda, Maryland 20892
Telephone: (301) 496-7858

SPECIALIZED CENTERS OF RESEARCH IN TRANSFUSION MEDICINE

RFA AVAILABLE: 89-HL-03-B

P.T. 04; K.W. 0750010, 0710030, 0706000

National Heart, Lung, and Blood Institute

Application Receipt Date: May 22, 1989

The Division of Blood Diseases and Resources of the National Heart, Lung, and Blood Institute (NHLBI), NIH, announces the availability of a Request for Applications (RFA) for the second competition of the Specialized Centers of Research (SCOR) program in Transfusion Medicine. Copies of the RFA and Instructions for the Preparation of Applications are currently available from staff of the NHLBI.

The objective of the SCOR Program in Transfusion Medicine is to expedite the development and application of new knowledge essential for improved safety, efficacy, and availability of blood, blood components, blood derivatives, blood substitutes, and transplant materials. This objective would be accomplished by focusing resources, facilities, and manpower on research studies in transfusion medicine and in related biomedical and engineering sciences. The program is open to all investigators. All applicants must propose both basic and clinical research in the areas mentioned above.

NHLBI currently supports three (3) Transfusion Medicine SCORs. One of the three centers is also designated as a National Research and Demonstration Center (NRDC). The Institute, with advice and concurrence of the National Heart, Lung, and Blood Advisory Council and the Blood Diseases and Resources Advisory Committee, plans to continue the SCOR Program in Transfusion Medicine for an additional 5 years. Applications for an NRDC, however, are not requested under this solicitation. It is anticipated that approximately three SCORs will be funded.

The requirements and format for applications submitted in response to the announcement, and copies of the RFA, may be obtained from:

George J. Nemo, Ph.D.
Chief, Blood Resources Branch
Division of Blood Diseases and Resources
National Heart, Lung, and Blood Institute
Federal Building, Room 504
Bethesda, Maryland 20892
Telephone: (301) 496-1537

SPECIALIZED CENTERS FOR NURSING RESEARCH

RFA AVAILABLE: 89-NR-01

P.T. 04; K.W. 0785130, 0730065, 0710030, 0785035

National Center for Nursing Research

Application Receipt Date: February 15, 1989

Letter of Intent Receipt Date: January 6, 1989

BACKGROUND

The National Center for Nursing Research is inviting grant applications from interested institutions to establish centers of excellence in nursing research devoted to the study of promising areas of patient care. The NCNR is interested in encouraging a multidisciplinary approach to develop the depth needed in several areas and to develop linkages between clinical practice, clinical research, and basic biological/behavioral research for the improvement of patient care. The overall purpose of the Specialized Center is to support new research and to enhance ongoing research. Specific objectives of the NCNR Centers Program are to: promote basic and clinical research within an interdisciplinary context; provide an environment for research training and opportunities for career development in science; and concentrate resources for the investigation of a specific area of concern.

ELIGIBILITY

Institutions eligible for Specialized Center Grants are Schools of Nursing or Departments of Nursing within Clinical Settings at which there are at least three principal investigators with any PHS agency or comparable peer reviewed research project (R01,P01) grants with a minimum of \$200,000 in research project funds in a specific area of nursing research. Each applicant must propose at least two new research projects in the specified area. There may be no more than one Center in each institution.

MECHANISM OF SUPPORT

The support mechanism for this program will be the traditional NIH grant-in-aid. The award of grants is contingent upon the availability of funds for this purpose. The intent is to fund one or two specialized center grants. The grant request may be for up to five years and \$350,000 in direct costs for each year, plus applicable cost of living escalation factors and may be submitted for competitive renewal.

REVIEW PROCEDURES AND CRITERIA

Applications received in response to the RFA will be reviewed for scientific and technical merit by an NCNR ad hoc review group. Proposals may first receive a preliminary review by a subcommittee of the review panel to establish those applications deemed to be competitive. Proposals judged to be non-competitive or non-responsive will be removed from consideration and returned to the applicant with an abbreviated summary noting the major areas of concern. Applications judged to be competitive will be given full review. Following review by the initial review group the applications will be evaluated by the National Advisory Council for Nursing Research.

The NCNR requires applicants for specialized center grants to give added attention to the consideration of minorities for research career opportunities and to include in the application a plan or outreach initiative to attempt to recruit minority nurses to become active participants in ongoing research.

METHOD OF APPLYING

The application must be submitted on the 9/86 revision of form PHS 398. Insert on line 2 of the application face page "SPECIALIZED CENTERS FOR NURSING RESEARCH," RFA 89-NR-01. The RFA label available in the 9/86 revision of Application Form 398 must be affixed to the bottom of the face page. Failure to use this label could result in delayed processing of the application such that it may not reach the review committee in time for review. Although not mandatory, potential applicants are encouraged to submit to the address indicated below, a non-binding letter of intent, which includes a descriptive title, other investigators and participants outside the applicant institution, and must be received by January 6, 1989. Applications must be received by February 15, 1989, for earliest start date of September 30, 1989. If received late, the application will be returned without review.

It is anticipated that this RFA will be reissued on an annual basis, dependent on the availability of funds.

Applicants may request the complete RFA, and guidelines for preparing an application, and direct any other inquiries to:

Director, Division of Extramural Programs, NCNR, NIH
Building 31, Room B1C02
9000 Rockville Pike
Bethesda, Maryland 20892
Telephone: (301) 496-0526

Application kits may be secured from institutional offices of grants and contracts or from:

Office of Grants Inquiries
DRG, NIH
Westwood Building, Room 449
5333 Westbard Avenue
Bethesda, Maryland 20892

Mail the complete application and four copies to:

DRG, NIH
Westwood Building, Room 240
Bethesda, Maryland 20892

To expedite review, two exact copies should be sent to:

Executive Secretary, NCNR, NIH
Building 31A, Conference Room 2
Bethesda, Maryland 20892

EXPLORATORY CENTERS FOR NURSING RESEARCH

RFA AVAILABLE: 89-NR-02

P.T. 04; K.W. 0785130, 0730065, 0710030, 0785035

National Center for Nursing Research

Application Receipt Date: February 15, 1989

Letter of Intent Receipt Date: January 6, 1989

BACKGROUND

The National Center for Nursing Research is inviting grant applications from interested institutions to establish Exploratory Centers in Nursing Research to begin to plan and develop Specialized Centers for the study of promising areas of patient care. The purpose of the exploratory grant is to support feasibility studies building a base of research programs from which to compete for a specialized center in the future. Specialized Centers are defined as centers of excellence in nursing research focused on a specific area of study reflecting a major clinical area of concern. Funds may also be used to expand or modify existing resources for research, obtain the interdisciplinary resources required for the research program and for planning a Specialized Center.

ELIGIBILITY

Institutions eligible for Exploratory Center Grants are Schools of Nursing or Departments of Nursing within Clinical Settings at which there are not a base of three research projects (R01, P01) and a minimum of \$200,000 in outside peer-reviewed research support but where there is the potential to be competitive in developing specialized centers in the next three to four years. Each applicant must propose new studies in a specified area of concern.

MECHANISM OF SUPPORT

The support mechanism for this program will be the traditional NIH grant-in-aid. The award of grants is contingent upon the availability of funds for this purpose. The intent is to fund up to three awards with direct costs per year limited to \$75,000 for each grant for no more than three years. This award is non-renewable.

REVIEW PROCEDURES AND CRITERIA

Applications received in response to the RFA will be reviewed for scientific and technical merit by an NCNR ad hoc review group. Proposals may first receive a preliminary review by a subcommittee of the review panel to establish those applications deemed to be competitive. Proposals judged to be non-competitive or non-responsive will be removed from competition and returned to the applicant with an abbreviated summary statement. Following review by the initial review group the applications will be evaluated by the National Advisory Council for Nursing Research.

In preparing proposals, applicants should follow the specific supplemental instructions available from NCNR staff. All human and animal welfare assurances must be complete for a proposal to be reviewed. All follow-up assurances and approvals submitted as pending must be received within 60 days of the application receipt deadline or the application will not be reviewed.

METHOD OF APPLYING

The application must be submitted on the 9/86 revision of Form PHS 398. Insert on line 2 of the application face page "EXPLORATORY CENTERS FOR NURSING RESEARCH," RFA 89-NR-02. The RFA label available in the 9/86 revision of Application Form 398 must be affixed to the bottom of the face page. Failure to use this label could result in delayed processing of the application such that it may not reach the review committee in time for review. Although not mandatory, potential applicants are encouraged to submit to the address indicated below, a non-binding letter of intent to apply by January 6, 1989. Applications must be received by February 15, 1989 for earliest start date of September 30, 1989. If received late, the application will be returned without review.

It is anticipated that this RFA will be reissued on an annual basis, dependent on the availability of funds.

Applicants should write or phone to obtain the complete RFA, the guidelines for preparing an application properly and to discuss their plans with and direct any other inquiries to:

Director, Division of Extramural Programs, NCNR, NIH
Building 31, Room B1C02
9000 Rockville Pike
Bethesda, Maryland 20892
Telephone: (301) 496-0526

Application kits may be secured from institutional offices of grants and contracts or from:

Office of Grants Inquiries
DRG, NIH
Westwood Building, Room 449
5333 Westbard Avenue
Bethesda, Maryland 20892

The deadline for receipt of applications by the NIH Division of Research Grants (DRG) is February 15, 1989. Mail the complete application and four copies to:

DRG, NIH
Westwood Building, Room 240
Bethesda, Maryland 20892**

To expedite review, two exact copies should be sent to:

Executive Secretary, NCNR, NIH
Building 31A, Conference Room 2
Bethesda, Maryland 20892

ONGOING PROGRAM ANNOUNCEMENTS

AUDITORY SYSTEM: BIOCHEMISTRY AND PHARMACOLOGY

P.T. 34; K.W. 0705070, 0775005, 1003002, 0710100, 0760050, 1002008, 1002019

National Institute of Neurological and Communicative Disorders and Stroke

The Division of Communicative and Neurosensory Disorders of the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) encourages the submission of individual research grant applications related to biochemical and pharmacological studies that will elucidate the structure and function of the auditory system.

BACKGROUND

The National Institute of Neurological and Communicative Disorders and Stroke sponsored a workshop (September 14 - 15, 1987) to identify the needs and opportunities for biochemical and pharmacological research related to hearing. The participants recognized that the development of techniques in the fields of cell and molecular biology and biophysics offers new approaches for studying the biochemistry and pharmacology of hearing. The techniques include video microscopy, isolated cell preparations and tissue culture, new organ culture techniques, patch clamping, laser interferometry, and microspectrofluorometry. Biochemical insights have been achieved with immunocytochemical probes and modern methods of analytical chemistry. Recent advances in molecular biology technology and protein sequencing methods provide powerful tools to address questions in the auditory field at the molecular level. Continued application of these techniques is needed in biochemical and pharmacological studies of hearing.

RESEARCH GOALS AND SCOPE

The ultimate goal of the biochemical and pharmacological research is the effective prevention or treatment of diseases and disorders of hearing. The achievement of this goal requires a broad range of biochemical and pharmacological studies aimed at gaining further understanding of the structure and function of the auditory system. Studies may address the areas below, which are not limiting:

- o Novel approaches to identify the peripheral afferent neurotransmitter and characterize its release, reuptake, and inactivation are needed. The role of multiple efferent transmitters needs to be determined.
- o The neurotransmitter receptors and receptor subtypes in all acousticolateralis tissues need to be characterized. The role of second messengers and their subcellular targets needs to be analyzed.
- o The molecular mechanism of the active process for various acoustic and psychoacoustic phenomena need to be determined. The roles of adenosine triphosphate-mechanisms and faster electro-osmotic ones need to be compared and analyzed. In vitro descriptions of these processes need to be assessed in vivo.
- o The development of therapeutics for tinnitus has been inhibited by the lack of an appropriate animal model. Studies using cerebral blood flow methods and imaging techniques with labeled pharmacological agents may lead to the development of such an animal model.
- o The techniques of molecular biology and genetics offer the opportunity to examine the pharmacological basis of degenerative and congenital disorders of hearing.
- o The central auditory system neurotransmitters and neuromodulators need to be characterized with biochemical, pharmacological, and immunocytochemical approaches. For example, quantitative immunocytochemical studies provide a detailed localization of

transmitters and modulators. The steady development of immunological markers facilitates progress in this area. Combinations of these approaches would help to determine the roles of central auditory neurotransmitters.

- o Qualitative and quantitative changes in central neurotransmitters and neuromodulators need to be identified in conditions such as auditory nerve deafferentation, aging, and development. Such changes may be indicative of the plasticity of neuronal responses after auditory periphery damage. The neurotransmitters, their synthesis, release and inactivation, and their postsynaptic receptors may be markers of discrete neuronal changes.

MECHANISM OF SUPPORT

The support mechanism will be the individual research project grant.

APPLICATION SUBMISSION AND REVIEW PROCEDURES

Use the standard PHS-398 (revised 9/86) research grant application form as instructed in the application kit. The kits are available from the business offices or the offices of sponsored research of most institutions or from the Division of Research Grants, National Institutes of Health. Type "AUDITORY SYSTEM: BIOCHEMISTRY AND PHARMACOLOGY" in Item #2 of the application face page and place a checkmark in the "YES" box. Use the mailing label in the application kit to mail the original and six exact copies of the application to the Division of Research Grants.

The applications will be reviewed by a Division of Research Grants study section and then by an appropriate National Advisory Council according to the schedule specified in the application kit. For more information, call or write:

Jack Pearl, Ph.D.
Division of Communicative and Neurosensory Disorders
National Institute of Neurological
and Communicative Disorders and Stroke
National Institutes of Health
Federal Building, Room 1C-14
Bethesda, Maryland 20892
Telephone: (301) 496-5061

This program is described in the Catalog of Federal Domestic Assistance No. 13.853, Clinical Basis Research, NINCDS or 13.854, Biological Basis Research. 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 Health Systems Agency Review.

NIAID MINORITY RESEARCH ENHANCEMENT PROGRAM

P.T. 34, FF; K.W. 0710030

National Institute of Allergy and Infectious Diseases

This is a reannouncement of the NIAID Minority Research Enhancement Program (MREP) which initially was announced in December 1985. The new receipt dates for applications should be noted.

I. DESCRIPTION

The National Institute of Allergy and Infectious Diseases (NIAID) will provide support for underrepresented minority researchers through the Minority Research Enhancement Program. A minority investigator is defined as a Black, Hispanic, Native American, Asian or Pacific Islander.

Institutions with NIAID grants and interested in including underrepresented minority investigators in such research endeavors may submit a supplemental grant application for this purpose. Meritorious applications will be funded as supplements to previously peer-reviewed active grants. These may include, but are not limited to: regular research project (R01), program project (P01) and other investigator initiated grants.

II. OBJECTIVES

The MREP will provide this support to NIAID-supported principal investigators for the purpose of: (1) increasing the number of underrepresented minorities actively pursuing research objectives relevant to the mission of the institute; and (2) strengthening funded projects by enlarging the pool of scientific talent.

III. PROJECT EVALUATION

NIAID staff will conduct a preliminary review of applications for responsiveness of the requested supplemental support to the objective(s) of the Program and to determine if the activities proposed fit within the scope of the funded project.

The initial review for scientific merit will be managed by the Program Project and Review Branch, Extramural Activities Program, NIAID. Recommendations will be forwarded through the director of the program responsible for the prime award to the National Advisory Allergy and Infectious Diseases Council.

IV. ELIGIBILITY

Any institution with an active NIAID research grant is eligible to submit a supplemental application on behalf of a principal investigator for the purpose of including underrepresented minority researcher(s) in the project.

A. Underrepresented Minority Investigator - The minority investigator may be affiliated with the applicant institution(s) or some other institution. This investigator is expected to provide a complete curriculum vitae which includes a list of any research publications and other evidence of meritorious scientific achievements. This program is not intended to pay stipends for student trainees or support candidates without any research background. The minority investigator must be willing to devote a minimum of 30 percent of his/her time to the research project.

B. Research Project - The proposed research project for the supplement must be closely related to the currently funded research grant. It may represent an increased effort in an already approved objective of the research project or propose a new objective related to those already approved. The nature of the research should provide the minority investigator an opportunity to contribute intellectually to the program and to broaden his/her own potential. The scope of the proposed research project should generally be comprehensive enough to require at least two years for completion and the supplemental application should include such a research plan and projected budget sheets. While not encouraged, a one-year application may be acceptable with appropriate justification. No new supplemental applications will be accepted in the final year of an existing award.

V. FUNDING

Funding will be provided in accordance with the usual NIH policy for supplements. Awards will be issued on an annual basis. Continuing support for the second (or subsequent) year will depend upon approval of a satisfactory annual progress report and proposed budget from the minority investigator submitted with the principal investigator's non-competing continuation application. Funding for the supplement is always contingent on funding of the parent grant. Each supplemental budget shall not exceed \$25,000 in direct costs and may not include equipment. Supplemental awards made under this program are for the sole purpose of facilitating participation by minority investigators as described above. Support of any one minority investigator under the program is limited to a non-renewable project period of two (2) years.

VI. HOW TO APPLY

The principal investigator should submit a supplemental grant application through the institution on the Standard Form PHS 398, (Revised September 1986), limited to the following: (1) Face page, at the top of which the applicant must designate the grant number of the active grant and specifically state "Minority Investigator Supplement" (For example, grant number AI-12345-01 "Minority Research Enhancement Program"); (2) budget page; (3) biographical sketch of the minority researcher; and (4) outline of the research project as it relates to the parent grant.

The receipt dates and subsequent processing of applications will be according to the following schedules:

Receipt Deadlines	Initial Reviews	Council Reviews	Awards
January 6	February	May	July
May 5	June	September	October
September 6	October	January	February

The original and four (4) copies of the application should be sent to:

Division of Research Grants
National Institutes of Health
Westwood Building, Room 240
Bethesda, Maryland 20892**

Also, two (2) copies should be sent to the addressee noted below. Failure to do so could result in a delay in the review and final action on the application.

Dr. William E. Bennett
Chief, Research Manpower
Development Staff, EAP,
National Institute of Allergy
and Infectious Diseases
Westwood Building, Room 706
5333 Westbard Avenue
Bethesda, Maryland 20892

This program is described in the Catalog of Federal Domestic Assistance No. 13.855, Immunology, Allergic and Immunologic Diseases Research and No. 13.856 Microbiology and Infectious Diseases 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.