

# NIH GUIDE

# for GRANTS and CONTRACTS

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Vol. 8, No. 11, August 13, 1979

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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 838B10, 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.

The 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.

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NATIONAL RESEARCH SERVICE AWARDS

FOR

SENIOR FELLOWS

**ANNOUNCEMENT**

*Under authority of Section 472 of the Public Health Service Act as amended (42 USC 2891-1) the National Institutes of Health (NIH) provides National Research Service Awards for research training in specified areas of biomedical and behavioral research. This announcement addresses the needs of more senior applicants.*

The senior fellowship is designed to provide opportunities for experienced scientists to make major changes in the direction of their research careers, to broaden their scientific background, to acquire new research capabilities, or to enlarge their command of an allied research field. In addition, these awards will enable individuals beyond the new investigator stage to take time from regular professional responsibilities for the purpose of increasing their capabilities to engage in health-related research. Awards are made to individual applicants selected through national competition. Title 42 of the Code of Federal Regulations, Part 66, is applicable to these awards.

ELIGIBILITY REQUIREMENTS: Applicants must be citizens or non-citizen nationals of the United States, or have been lawfully admitted to the United States for permanent residence, and have in their possession a permanent visa at the time of application. Non-citizen nationals are persons who, although not citizens of the United States, owe permanent allegiance to the United States. They are generally persons born in lands that are not States, but which are under United States sovereignty, jurisdiction, or administration (e.g. American Samoa). Individuals on temporary or student visas are not eligible.

As of the beginning date of the proposed fellowship an applicant must have received a doctoral degree (Ph.D., Sc.D., D. Eng., M.D., D.D.S., D.O., D.V.M., O.D., D.N.S., or equivalent, foreign or domestic) and must have had at least seven subsequent years of relevant research or professional experience.

Applications are accepted for a variety of research training experiences in biomedical and behavioral research. The proposed study must include the conduct of research with supervision or other opportunity for guidance appropriate to the applicant's background and objective. These awards are not made for study leading to any of the professional degrees (M.D., D.O., D.D.S. or similar degrees), or for residency or other non-research clinical training.

Prior to submitting an application the applicant must arrange for acceptance at an appropriate institution by a responsible sponsor. The institutional setting may be domestic or foreign; non-profit, private or public. The application must document availability of staff and facilities for the conduct of the proposed research and for accomplishing the applicant's training objectives.

Support for research training at a foreign institution is limited to the circumstance in which comparable opportunity is not available at a domestic institution. Individuals applying for research training at foreign institutions are required to provide a detailed account of the exceptional features offered by the institution and their contribution to the research training objectives identified in the application.

Period of support: Senior fellowships will normally be awarded for a period of twelve months. Continued support beyond the first year is contingent upon the research training plan, satisfactory progress and the availability of funds. The period of the award will not exceed 24 months.

In instances where the requested period of support would bring the individual's aggregate postdoctoral support under NRSA to more than 36 months; the application should be accompanied by a letter requesting a waiver of the three-year limit.

#### APPLICATIONS AND RECEIPT

Documents to be submitted: The applicant must submit the following documents which are part of the application kit:

- (1) the basic application form (PHS 416-1), completed by the applicant; the words "Senior Fellowship" should be typed in Box 11 on the face page of the application;
- (2) the Facilities and Commitment Statement completed by the sponsor;
- (3) an assurance signed by the applicant, indicating agreement to comply with the payback requirement.

In addition, the applicant will arrange for submission of the reference reports (PHS 416-3).

Restriction on concurrent applications: An individual may not have two competing NRSA applications pending review concurrently.

Application material: Interested individuals are encouraged to review the eligibility criteria before requesting application kits. Requests should be addressed to Grants Inquiries, Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20205.

<u>Application Receipt Date</u>	<u>Initial Review</u>	<u>Announced in</u>	<u>Possible Start Date</u>
October 1	Feb./Mar.	May	June
February 1	June	August	September
June 1	Oct./Nov.	January	February

Review and selection: NRSA senior fellowship applications will be evaluated by peer review groups at the NIH. The proposal will be judged on the basis of the individual's past research experience, the design of the proposed training program, and the anticipated contribution to be made upon completion of the training to research in areas of national need. The program is not designed for investigators seeking to prove their research potential. Such applicants are better served through other existing mechanisms of support.

Please see the appendix for list of research areas in which awards will be made.

Notification of action: Notification of action on the application will be by letter or award notice from the awarding unit. Issue of an award notice to successful applicants may be preceded by negotiation of stipend and starting date. An awardee has until the end of 12 months from the issue date on the award notice to activate a new award.

FINANCIAL CONDITIONS OF AWARD:

Annual stipends and allowances: Stipends for senior fellows are determined individually at the time of award.

The amount of the stipend to be paid shall be commensurate with the salary or remuneration which the individual receiving the award would have been entitled to receive from the institution with which the individual has a permanent affiliation on the date of the fellowship award, but in no case shall the NIH award exceed \$30,000. Fringe benefits are not provided with this award. The level of the NRSA award will take into account concurrent salary support provided by the institution, other supplementation and the policy of the host institution.

Supplementation of the NRSA stipend from non-Federal funds is permitted. Other Federal funds may be used for supplementation only if explicitly authorized by the program from which such funds are derived. No NIH, ADAMHA, or HRA grant funds may be used for supplementation. This is not intended to discourage in any way the use of Federal loan funds. This additional support may be provided without obligation by the awardee or may be conditioned on his or her performance of certain services such as teaching or serving as a laboratory assistant. Under no circumstances, however, may the service requirements detract from or prolong the training.

No allowance is provided for dependents, or for travel to a training location in the United States or Canada. Fellows supported for study in foreign locations will receive the single economy or coach round trip fare to the training site.

Upon request the NIH will provide up to \$3,000 per 12-month period to non-Federal sponsoring institutions to help defray such expenses on behalf of the fellow as tuition and fees, medical insurance, supplies and equipment, and travel to scientific meetings. The allowance at Federal laboratories is up to \$1,000.

SERVICE AND PAYBACK REQUIREMENTS:

No award will be made to an individual unless that individual has signed and submitted to NIH an NRSA Payback Assurance indicating his or her intent to meet the payback requirements (see below). No funds may be disbursed until the individual has started under the award and an Activation Notice and Payback Agreement have been submitted to NIH.

Within two years after completion of NRSA support, recipients of NRS awards are to engage in continuous biomedical or behavioral research or teaching or when in academic employment any combination thereof which is in accordance with usual patterns of such employment for a period equal to the period of support. Alternatively, if the Secretary, HEW, determines there are no suitable health research or teaching positions available to the individual, the following may be authorized: (1) If the individual is a physician, dentist, nurse, or other individual trained to provide health care directly to patients, the Secretary may authorize (a) service in the National Health Service Corps, or (b) service in his or her specialty in a health maintenance organization serving a medically underserved population. (2) If the individual who received the NRS award is not trained to provide health care to patients, the Secretary may authorize the individual to engage in a health-related activity appropriate to his/her training. The period of service shall equal the period of support under both regular and alternative payback service. •

For individuals who fail to fulfill their obligation through service, the United States is entitled to recover an amount equal to the sum of the total amount paid to the individual plus interest. The amount is computed in accordance with a formula which gives full credit to each month of service performed. Interest on the amount begins and is at the rate fixed by the Secretary of the Treasury considering private consumer rates which prevail on the date the United States becomes entitled to such amount. Payment must be completed within three years from that date.

By Federal Regulation, there are certain conditions under which the Secretary, HEW, may extend the period of undertaking service or for repayment, permit breaks in service, or otherwise waive or suspend the payback obligation of an individual where enforcement of the obligation would involve substantial hardship and be against equity and good conscience.

OTHER TERMS OF AWARD:

Individual awards are made for full-time research training. Health professional postdoctoral fellows may utilize some of their time in clinical duties only if it is an integral part of the research training experience.

National Institutes of Health

Announcement Area List for Senior Fellows

National Research Service Awards

For purposes of assignment to the appropriate Institute and initial review group, an application should be identified as responding to one of the announcement areas listed below. The areas are not meant to be rigidly exclusive but to provide guidance to the Institutes' primary points of emphasis.

NATIONAL INSTITUTE ON AGING

Training may be for laboratory, clinical, or field research, and may be multidisciplinary. It may relate to:

1. The biology of aging, e.g. biophysical, biochemical, cellular, organ or organismic aging, the pathologic changes in aging experimental animals.
2. The special medical problems of aging and the aged, e.g. preventive medicine and aging, the aging nervous system, senile dementia, aging of the endocrine system, aging of connective tissue structures, pharmacokinetics and pharmacodynamics in the aged.
3. Psychological aspects of aging and the aged, e.g. cognitive, personality, and attitudinal changes with age.
4. Societal aspects of aging, e.g. population age-structure and its impact on economic, societal, and individual function, retirement, social aspects of aging in different cultures.

Dr. Don Gibson (301) 496-9322

NATIONAL INSTITUTE OF ALLERGY AND  
INFECTIOUS DISEASES

1. Allergic and Immunologic Diseases and Basic Immune Mechanisms  
Allergy  
Immunochemistry  
Immunology  
Immunopathology  
Immunogenetics  
Clinical Immunology  
Autoimmunity  
Transplantation Biology
2. Infectious Diseases and Basic Microbiological Mechanisms  
Bacteriology  
Virology  
Parasitology  
Mycology  
Pathogenesis of Infectious Diseases
3. Epidemiology of Allergic, Immunologic, and Infectious Diseases

Dr. Louis D. Bourgeois (301) 496-7679

NATIONAL INSTITUTE OF ARTHRITIS,  
METABOLISM, AND DIGESTIVE DISEASES

Proposals should demonstrate capability for (1) the clinically-trained to acquire expertise in scientific research (e.g. bio-chemistry, biophysics, cell biology, epidemiology, genetics, physiology, or psychology) and (2) the scientifically-trained to obtain further training in biomedical research or clinical investigation relating to:

Arthritis, Bone, or Skin  
Diseases  
Diabetes, Endocrine, or  
Metabolic Diseases  
Digestive Diseases, Liver  
Diseases, or Nutrition  
Kidney, Urologic, or Blood  
Diseases

Office of the Associate Director  
(301) 496-7277

NATIONAL CANCER INSTITUTE

The Cancer Research Manpower Development Program is inviting applications for senior-level research training in all disciplines having potential for contributing to the solution of cancer problems. Please note that the NCI will give funding priority to meritorious applications in cancer epidemiology, cancer biostatistics, or in nutrition as it relates to cancer. Stimulation of research in these areas is programmatically urgent. It is believed that an effective approach to achieving that goal is to encourage competent scientists to undertake training in these critical areas so that they may contribute to the categorical knowledge base.

Dr. Barney Lepovetsky (301) 496-7803

NATIONAL INSTITUTE OF CHILD HEALTH  
AND HUMAN DEVELOPMENT

Awards provide opportunities for research training in the biological and/or behavioral science aspects of the areas listed below.

*Centers for Research for Mothers  
and Children*

1. Pregnancy and Infancy
2. Developmental Biology and Nutrition
3. Learning and Behavior
4. Mental Retardation

*Center for Population Research:*

1. Fertility - Infertility
2. Fertility Regulation
3. Nutrition and Reproduction
4. Social and Behavioral Aspects  
of Reproduction
5. Population Change

Dr. Betty Pickett (301) 496-1848

NATIONAL INSTITUTE OF DENTAL RESEARCH

- \*1. Behavioral Studies
- \*2. Cariology
3. Craniofacial Anomalies
4. Nutrition
5. Pain Control
6. Periodontal Diseases
7. Restorative Materials
8. Salivary Secretions
9. Soft Tissue Diseases

\*To insure that proposals will be responsive to defined program needs, applicants are strongly urged to consult with NIDR staff prior to preparation of proposals.

Dr. Robert J. Schullein (301) 496-7748



NATIONAL INSTITUTE OF ENVIRONMENTAL  
HEALTH SCIENCES

1. Environmental Toxicology  
(including Teratogenesis,  
Carcinogenesis, and Behavioral  
Toxicology)
2. Environmental Mutagenesis
3. Environmental Pathology -  
Pathophysiology
4. Environmental Epidemiology  
and Biostatistics

Dr. Christopher Schonwalder  
(919) 755-4022

NATIONAL EYE INSTITUTE

Laboratory and clinical research  
training related to vision and  
disorders of the visual system:

1. Retinal and Choroidal  
Diseases
2. Corneal Diseases
3. Cataract
4. Glaucoma
5. Sensory and Motor Disorders  
and Rehabilitation

Preference will be given to two-year  
research training programs in the  
following areas as they relate to the  
above:

1. Immunology
2. Genetics
3. Pharmacology
4. Epidemiology
5. Biostatistics
6. Physiology
7. Biochemistry
8. Developmental Biology
9. Psychophysics
10. Physiological Optics
11. Experimental and Clinical  
Pathology

Chief, Scientific Programs Branch  
(301) 496-5303

NATIONAL INSTITUTE OF GENERAL  
MEDICAL SCIENCES

Awards will be made to applicants  
in all areas appropriate to the  
Institute's regularly published  
missions.

Dr. Charles A. Miller (301) 496-7464  
or 496-7021

NATIONAL HEART, LUNG, AND BLOOD  
INSTITUTE

*Division of Heart and Vascular Diseases*

The research training may be in  
fundamental studies of basic processes  
and functions, behavioral studies,  
including risk factor modification  
(e.g. diet, smoking), genetics  
(including studies of populations)  
and primary or secondary prevention  
or clinical investigations directed  
toward long-term involvement in research  
toward increasing our knowledge and  
understanding in cardiovascular areas  
related to our programs in:

Hypertension  
Arteriosclerosis  
Coronary Heart Disease  
Cardiovascular Aspects of Diabetes  
Arrhythmias  
Heart Failure and Shock  
Cerebrovascular Disease  
Peripheral Vascular Disease  
Congenital and Rheumatic Heart  
Diseases  
Cardiomyopathies and  
Infections of the Heart  
Circulatory Assistance  
Cardiovascular Devices and  
Technology

Dr. D. M. MacCanon (301) 496-1724

*Division of Lung Diseases*

The Division supports research training in fundamental and clinical disciplines. One or more of the following categories should be addressed:

Structure and Function of  
the Lung  
Pediatric Pulmonary Diseases  
Emphysema and Chronic Bronchitis  
Fibrotic and Immunologic  
Lung Diseases  
Respiratory Failure  
Pulmonary Vascular Diseases  
Epidemiology of Respiratory  
Diseases

Ms. Barbara Marzetta (301) 496-7668

2. Clinical Neurosciences

Clinical Investigation  
Neuroepidemiology  
Neuropathology

3. Basic Communicative Sciences

Audiology  
Sensory Physiology and Biophysics  
Speech Pathology

4. Clinical Communicative Sciences

Audiology  
Clinical Investigation  
Otopathology  
Speech Pathology

Dr. Raymond Summers (301) 496-9236

*Division of Blood Diseases and Resources*

The Division seeks to support research training awards in the areas of:

Thrombosis  
Hemostasis  
Red Blood Cell Diseases  
Sickle Cell Disease  
Blood Resources  
Blood Banking Sciences

Dr. Fann Harding (301) 496-1817

DIVISION OF RESEARCH RESOURCES

Laboratory Animal Science and Medicine

Dr. John Holman (301) 496-5175

NATIONAL INSTITUTE OF NEUROLOGICAL  
AND COMMUNICATIVE DISORDERS AND STROKE

Applications are accepted in the following four areas. Listed are examples of training disciplines in which applications would be appropriate.

1. Basic Neurosciences

Developmental Neurology  
Neuroanatomy  
Neurobiology  
Neurochemistry  
Neuroimmunology  
Neuropharmacology  
Neurophysiology  
Neuroradiobiology  
Neurovirology  
Sensory Physiology and Biophysics

A NRS award may not be held concurrently with other Federally sponsored fellowship or similar Federal award which provides a stipend or otherwise duplicates provisions of the award. NRSA recipients may, however, accept concurrent educational remuneration from the Veterans Administration (e.g. G.I. Bill) and loans from Federal funds.

Awardees are not entitled to vacations, as such, although those at academic institutions may take the usual academic holidays and the short period between semesters or quarters. The time between a summer session and a fall semester is considered an active part of the training period. Those at non-academic institutions are entitled to the normal holiday and vacation periods of the institution.

Taxability of stipends: Section 161(b) of the Revenue Act of 1978, states that (1) any amount paid to, or on behalf of, an individual from appropriated funds as a National Research Service Award under section 472 of the Public Health Service Act shall be treated as a scholarship or fellowship grant under section 117 of the Internal Revenue Code of 1954 and (2) the provisions of subsection (b) shall apply to awards made during calendar years 1974 through 1979. (Applicability of this section beyond 1979 may change pending the results of an ongoing study.)

Section 117 is that part of the Internal Revenue Code which applies to the tax treatment of all scholarships and fellowships. In general, it provides that, subject to certain limitations, degree candidates may exclude the full amount of their scholarships or fellowships from their gross income for purposes of taxation, and non-degree candidates may exclude up to \$300 a month of such awards for up to 36 months.

It must be emphasized that the interpretation and implementation of the tax laws are the domain of the Internal Revenue Service and the courts. PHS takes no position on what this provision may mean for a particular taxpayer, and it does not have the authority to dispense tax advice. Individuals should consult their local IRS office about the applicability of the new law to their situations and for information on the proper steps to be taken regarding their tax obligations.

For additional information on the above program write: Office of Research Manpower, Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20205.

*The Division of Nursing, Health Resources Administration, also provides support for senior fellows through National Research Service Awards. For information and application forms, contact that agency.*

MID-CAREER DEVELOPMENT AWARD -  
ENVIRONMENTAL TOXICOLOGY (MDA-ET),

**ANNOUNCEMENT**

NIEHS

The Mid-Career Development Award in Environmental Toxicology replaces the NIEHS Academic Investigator Award - Toxicology. The title change was made to better describe the objective of the program which is to facilitate the movement of individuals with research expertise in biomedical sciences into careers in environmental toxicology. The program is designed to supplement the training of biomedical scientists (e.g., biochemists, pharmacologists, physiologists, chemists, etc.) and thereby allow them to redirect their efforts to this field. Although some past experience in environmental research will not disqualify a candidate, the goal of the program is to give a toxicological orientation to scientists not now working in the field to allow them to undertake subsequent research projects which will advance the state of the art of evaluating the health effects of environmental agents. Therefore, the program is designed to enable investigators to undertake research on environmental problems under the guidance of a sponsor who is established in the field of environmental toxicology at an institution where the environment is conducive to a rapid orientation of the investigator to the scientific and regulatory facets of human environmental health problems. The applicant should also become aware of general concepts and problems in the field of toxicology to allow the individual to continue his/her research career working on the development of the knowledge base supporting the field.

The product of this program will be scientists well-founded in their disciplines with knowledge about research techniques and problems in environmental toxicology. They will be qualified to pursue research careers in government, industry, or academia and will be valuable assets to the Nation's effort to reduce the deleterious health effects of environmental contamination.

It is hoped that the MDA-ET program will contribute significantly to the NIEHS training program goal of providing an increased number of research toxicologists to meet the expanding need for such individuals. Therefore, applicants should assure that the objective of the program (experience leading to a research career in environmental toxicology) would be satisfied by their support and should be particularly descriptive in explaining how the award would effect such a career shift. This issue becomes extremely important if an applicant proposes to remain within his/her current organizational unit and/or proposes research which appears to be supportable by the NIH regular research grant mechanism (i.e., there is no formal retraining plan in the proposal).

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This program is described in the Catalog of Federal Domestic Assistance Number 13.894. Awards will be made under the authority of the Public Health Service Act, Section 472, 42 USC 2891-1, and administered under PHS grants policy and Federal Regulations 42 CFR Part 66.

Eligibility The applicant must:

- have a Ph.D., M.D., D.V.M., or equivalent degree and a minimum of five years of postdoctoral research experience at the time of application;
- devote at least 80 percent of the proposed time of support to research-related activities;
- be a citizen or noncitizen national of the U.S. or its possessions or territories, or have been lawfully admitted to the U.S. for permanent residence;
- provide for the submission of three letters of recommendation attesting to the suitability of the applicant for the award.

The sponsoring institution must:

- show a commitment to providing the environment and guidance required to fulfill the objective of this award,
- provide a sponsor who will work closely with the applicant on a project of significance to the field of environmental toxicology,
- provide the space and facilities necessary to pursue the project.

The project must be:

- relevant to environmental health science problems and the toxicology programs of the NIEHS;
- a discrete, well-designed research or pilot study, designed for completion within the proposed period of support, which answers a specific scientific question. The study should not be or appear to be a supplement to a project supported by other funds (i.e., it should be designed to meet the objectives of the MDA-ET program - not just add manpower to an existing research program);
- acceptable in accordance with established NIH criteria for scientific merit.

Support Provided by the Grant The MDA-ET will provide support for a period of up to three years in an amount not to exceed \$25,000 per year salary support plus appropriate fringe benefits, plus \$5,000 for supplies.

It is the intent of this program to provide a concentrated period of research experience in environmental toxicology. Therefore, the award is not designed to be transferable between institutions. However; special circumstances (such as the transfer of the sponsor) will be considered as reason for institutional transfer. Such requests should be submitted in writing to program staff. Also, periods of research or didactic experience at other institutions are allowable if described in the proposal.

These grants are not renewable and, because of their special nature, certain limitations are placed on the items which can be supported, as specified below.

Salary and fringe benefits for the awardee may be requested to the extent that they reflect the time or effort devoted to the project. Salary and fringe benefits must also conform to the established and consistently applied salary and wage policy of the grantee institution. However, in no event may the salary support from this grant exceed \$25,000 per year. The grantee institution may add to the salary of the awardee consistent with the institution's salary scale, but no supplementation may be provided from Federal funds unless explicitly authorized by the program from which such funds are to be derived. In no case may other NIH funds be used as a means of additional salary support.

Funds not to exceed \$5,000 annually may be requested for supplies, equipment, travel, and other appropriate costs which are necessary for the pursuit of the investigator's program.

Funds will be provided on all awards for the reimbursement of actual indirect costs at a rate of up to, but not to exceed, 8 percent of the total direct costs of the award. Fringe benefits may be requested in addition to the direct salary, consistent with the institutional DHEW agreement and in proportion to the salary period of the award.

Application Applications should be submitted on the grant application form (PHS 2557-1) as modified by the special NIEHS instructions. The original copy of the application and the folder in which it is submitted should be clearly labeled NIEHS MID-CAREER DEVELOPMENT AWARD - ENVIRONMENTAL TOXICOLOGY. These forms and instructions are available from:

Extramural Program  
National Institute of Environmental  
Health Sciences  
P.O. Box 12233  
Research Triangle Park, North Carolina 27709

The completed grant application should be mailed to:

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

Upon receipt of each application at NIH, a postcard acknowledging receipt will be mailed to the investigator. When the application has been assigned to an initial review group, the applicant will again be notified by mail. The applicant should then ask three individuals familiar with his or her work to send letters to the indicated review group attesting to the applicant's potential for a career shift into research in toxicology. These letters need not comment on the merit of the specific project.

Applications will be accepted for three receipt deadlines each year. The next receipt date is October 1, 1979, for final review at the May 1980 National Advisory Environmental Health Sciences Council meeting. The results will be announced in June 1980 and the earliest beginning date will be July 1980. Subsequent receipt dates are February 1, June 1, and October 1 contingent upon continuation of the program.

Questions or requests for further information should be directed to:

Dr. Christopher O. Schonwalder  
Program Manager  
Research Manpower Development Section  
National Institute of Environmental  
Health Sciences  
P.O. Box 12233  
Research Triangle Park, North Carolina 27709

Telephone: (919) 755-4022

General Terms and Conditions Except as otherwise set out in this statement, the provisions of the PHS Grants Policy Statement are applicable to the MDA-ET program.

NEW INVESTIGATOR RESEARCH GRANT IN  
CLINICAL IMMUNOLOGY AND VIROLOGY,  
NATIONAL INSTITUTE OF ALLERGY AND  
INFECTIOUS DISEASES

**ANNOUNCEMENT**

I. BACKGROUND

The National Institute of Allergy and Infectious Diseases (NIAID) New Investigator Research Grant Program is intended to encourage new investigators to develop independent original research projects in immunology and virology with clinical relevance. The NIAID New Investigator Research Grant Program provides initial independent support for a designated research project developed by the new investigators. It is designed to encourage new investigators in the disciplines of immunology and virology to develop their research interests and capabilities in clinically important aspects of these areas.

To help bridge the transition from training status to that of a productive investigator, this special grant program provides support for young scientists and physicians with meritorious research ideas of their own design. Women and members of minority groups are invited to consider this program, as is the case for all NIAID programs.

II. RESEARCH GOALS AND SCOPE

New Investigator grant applications must have as their goal the development of independent, original, and clinically relevant research projects in immunology and virology.

Immunologically mediated diseases cover a spectrum of illnesses that are important for their prevalence and disabling effects among all age groups. Included among these are disorders that involve multiple body systems, e.g. the respiratory and gastrointestinal tracts, skin and connective tissue, kidney, thyroid, nervous system, blood vessels and cellular elements of the blood. Statistical surveys reveal that asthma and allergic diseases alone affect between 30 to 35 million Americans each year. As such, they are leading causes of economic loss and morbidity in terms of restricted activity and days lost from work and school.

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This program is described in the Catalog of Federal Domestic Assistance number 13.855. 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.



Additionally, it is becoming increasingly clear that reactions to drugs and bee stings and such serious illnesses as systemic lupus erythematosus, glomerulonephritis, hypersensitivity pneumonitis, rheumatic fever, rheumatoid arthritis, and ulcerative colitis have demonstrably immunologic etiologic components. Thus, if we are to reverse the trends of increasing incidence of severe illness, disability, and fatal outcomes in these situations, correspondingly increased research efforts must be mounted to bring in information on relevant sensitization and immune mechanisms and on correcting deficiencies of the immune system that can be meaningfully applied to diagnosis, prevention, control, and treatment of allergic and immunologic diseases.

Viral diseases are believed to be implicated in more than 60 percent of all human illnesses and have an economic impact of billions of dollars annually in morbidity and mortality. Many viral plagues of historical significance like smallpox and yellow fever are now preventable or controlled by vaccines, but many other viral diseases such as acute and recurrent herpes infections, influenza, and viral diarrheas remain unconquered. Insidious diseases like spongiform and sclerosing encephalitides, acute and chronic hepatitis, and multiple sclerosis are known or thought to be caused by viral agents, but these are not yet well characterized and difficult to detect early. Likewise, much remains to be learned about host factors controlling susceptibility to viral infections and mechanisms which permit (1) acute disease with complete recovery, (2) latent infection with recurrent disease, or (3) persistent infections leading to slowly progressive or chronic disease.

### III. MECHANISM OF SUPPORT

In fiscal year 1980, the National Institute of Allergy and Infectious Diseases plans to award up to ten (10) New Investigator research grants. Each grant will have a duration of not more than three years. Funding beyond the first year of the grant will be contingent on satisfactory progress during the preceding year.

To assess the effectiveness of the program in fulfilling its objectives, the Institute intends, after termination of each grant, to follow the progress of the recipient for a period of six years to determine (1) the investigator's professional affiliation(s), (2) his/her subsequent research grant or contract support, and (3) his/her scientific publications. It is anticipated that the results achieved with this grant will, in a majority of cases, provide the basis for successful competition in the regular research support programs of the Institute.

Application receipt dates are November 1, March 1, and July 1. They will be reviewed for scientific merit by appropriate study sections of the Division of Research Grants during their regular sessions, and for program relevance by the National Advisory Allergy and Infectious Diseases Council. For applications received by November 1, 1979, the earliest possible starting date for successful applicants will be July 1, 1980.

IV. REVIEW PROCEDURES AND CRITERIA

The project proposed must be:

- relevant to clinical problems of immunology and/or virology such as described above under BACKGROUND and RESEARCH GOALS AND SCOPE and must be designed to acquire information which can be meaningfully applied to diagnosis, prevention, control or treatment of allergic, immunologic, or viral diseases;
- relevant to human diseases and focused on either patient populations or pertinent materials. Proposals concerning animal models or materials and methods of diagnosis are acceptable only where there are clear integrations of experimental approaches to studies on allergic, immunologic, or viral diseases of man;
- a well defined project designed to answer a specific scientific question, or a pilot study;
- designed for making a significant scientific contribution within a 3-year period; and
- acceptable in accordance with the customary criteria of scientific merit.

The investigator must:

- present evidence of previous research training, experience, and capability. Letters of reference from present or past supervisors or preceptors attesting to the investigator's research ability should be used to augment or substitute for an investigator's record of published research contribution;
- have completed a two-year period of training in a research laboratory by the time of the award;
- not be, or have been, the recipient of a Research Career Development Award (training fellowships are not included);
- not be, or have been, the principal investigator on any research grant, contract, or equivalent awarded by any Federal agency;
- be a citizen or a noncitizen national of the United States or its possessions and territories, or have been lawfully admitted to the United States for permanent residence at the time of submitting the grant application;
- agree to keep the National Institute of Allergy and Infectious Diseases informed about scientific accomplishments, change in professional status, and change in institutional affiliation through the mechanism of an Annual Progress Report for the duration of the grant and for a period of six years after the grant terminates; and

Patient Care Costs

Support for patient care expenses, if requested, must be strongly justified as important to clinical programs in the project.

Publication Costs

Since publishable results are seldom expected in the first 12 months, publication costs will be approved only for subsequent portions of the project period.

Other Expenses

If other items are necessary for performance of the research effort, these must be clearly justified in terms of that need.

Indirect Costs

Indirect costs will be provided in accordance with established DHEW policies for regular research grants.

VI. METHOD OF APPLYING

Applications must be submitted on form PHS 398 which is available in the institution's application control office or may be obtained from the Division of Research Grants, National Institutes of Health. The original copy and the folder in which it is submitted should be clearly labeled NIAID NEW INVESTIGATOR RESEARCH GRANT. The proposed project should be presented using the format described in the "Instructions" in the application kit.

The chairperson of the department sponsoring the research should submit a signed statement, as part of the application, detailing the commitments made to the project.

The completed grant application should be mailed to:

Division of Research Grants  
National Institutes of Health  
Room 240, Westwood Building  
Bethesda, Maryland 20205

Upon receipt of each application at NIH, a postal card acknowledging receipt will be mailed to the investigator. Applications will be assigned according to the NIH referral process. The applicant will be notified by mail of the initial review group (Study Section) assignment.

The applicant should ask three present or former supervisors or preceptors to send a letter to the review group in the Division of Research Grants attesting to his/her potential for conducting research but these need not comment on the merit of the specific project. These reference

application if the results of the exploratory phase indicate it would not be advisable. An existing DERC is a prerequisite to apply for a DRTC Exploratory Grant.

Prospective applicants should contact NIAMDD staff indicated below for further information and copies of the guidelines:

Diabetes Centers Program Director  
Extramural Programs  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
National Institutes of Health  
Bethesda, Maryland 20205

Telephone: (301) 496-7418

Receipt dates for applications will be the same as for center applications: October 1, February 1, and June 1 unless an announcement of change appears in the *NIH Guide for Grants and Contracts*.

In order to alert NIAID to the submission of the proposal, please forward a copy of the application face page to the appropriate program officer, as identified above.

AVAILABILITY OF DRTC EXPLORATORY  
GRANTS IN PHASING THE ESTABLISHMENT  
OF DIABETES RESEARCH AND TRAINING

CENTERS,

NIAMDD

**ANNOUNCEMENT**

The National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD) announces the availability of DRTC Exploratory Grants for those institutions considering application for a Diabetes Research and Training Center (DRTC) and wishing to establish the DRTC in a phased manner. The DRTC Exploratory Grant is available only if the applicant institution decides to pursue the route of phasing a DRTC through first applying for a Diabetes Endocrinology Research Center (DERC). The DRTC Exploratory Grant is a one year nonrenewable institutional award, which it is anticipated would not exceed \$15,000 direct costs.

If an institution wishes to submit an application for a DRTC in phases, the procedure is to first make application for a Diabetes-Endocrinology Research Center. These DERCs may be identical to the biomedical research component of the DRTC. After the establishment of a DERC, the grantee institution would be eligible to apply for a DRTC Exploratory Grant. This grant is intended to provide limited funds for working on bringing together the additional training and information transfer component necessary for a DRTC, and integrating these added activities into the existing DERC.

The NIAMDD Centers Program includes both DERC and DRTC grants. Both types of center programs require that for eligibility, the potential applicant institution must already have a substantial base of ongoing independently supported, high quality research in diabetes and related metabolic and endocrine disorders. Funding for both types of centers is basically for cores (shared resources) and pilot and feasibility studies (new initiatives) which are expected to provide an added dimension, capability, or potential for a net accomplishment greater than that possible by the present ongoing activities. The essential difference between the two types of centers is that while the focus of the DERCs is entirely in biomedical research, the DRTCs have an added component in training and information transfer. The focus of this component, generally, is training of health and allied health professionals and transfer of information on the highest quality current medical practice in applicable and available form to the spectrum of health professionals providing health care to the diabetic. The specific announcements and guidelines relating to each of these types of centers should be consulted for further details.

The exploratory grant is available only if the applicant institution decides to pursue the route of phasing the establishment of a DRTC through first applying for a DERC. The applicant is not obligated to submit a DRTC

application if the results of the exploratory phase indicate it would not be advisable. An existing DERC is a prerequisite to apply for a DRTC Exploratory Grant.

Prospective applicants should contact NIAMDD staff indicated below for further information and copies of the guidelines:

Diabetes Centers Program Director  
Extramural Programs  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
National Institutes of Health  
Bethesda, Maryland 20205

Telephone: (301) 496-7418

Receipt dates for applications will be the same as for center applications: October 1, February 1, and June 1 unless an announcement of change appears in the *NIH Guide for Grants and Contracts*.

REVISED GUIDELINES FOR  
DIABETES RESEARCH AND TRAINING

CENTER GRANTS,

NIAMDD

**NOTICE**

The National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD) announces the availability of revised guidelines (dated June 1979) for Diabetes Research and Training Centers (DRTC). The revisions which have been made in the DRTC guidelines are mainly for purposes of clarification with two additional features added: First, limited funds for periods of up to five years will now be available for the support of research projects related to the DRTC training and information transfer component. Existing DRTCs may request support for this purpose by submitting supplemental applications. Second, limited funds for Exploratory Grants to plan the training and information transfer component of the DRTC will be available for institutions choosing to phase the establishment of a DRTC by first establishing a Diabetes Endocrinology Research Center.

These guidelines update the policies governing the Diabetes Research and Training Centers, and supersede the guidelines dated September 1977 and the program announcement published in the *NIH Guide for Grants and Contracts*, Vol. 7, No. 16, November 1, 1978. The policies stated herein are effective beginning July 1, 1979, and will affect all new and continuation applications and awards with budget period start dates on or after this date.

Copies of the revised DRTC guidelines and/or Exploratory Grant guidelines may be requested from:

Diabetes Centers Program Director  
Extramural Programs  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
Bethesda, Maryland 20205

Telephone: (301) 496-7418



3. The mechanism of sensorineural hearing loss in otosclerosis is not known although some suggest that it is a biochemically mediated event. The mechanism of sensorineural hearing loss in these disorders is an important objective of study. Biochemical study of the inner ear fluids might clarify the causes of sensorineural hearing loss.

### III. REVIEW PROCEDURES AND CRITERIA

#### A. Review Procedures

Applications will be reviewed initially for scientific merit by an NIH peer review group and secondly by the National Advisory Neurological and Communicative Disorders and Stroke Council (NANCDSC).

#### B. Review Criteria

Factors considered in evaluating each application will be:

1. Relevance of proposal to the scope and objectives provided in this announcement.
2. Merit of proposed approaches to the problem.
3. Expertise and qualifications of the proposed staff.
4. Commitment of time by proposed staff.
5. Evaluation plan and timetable.
6. Evaluation of resources and environment.

### IV. METHOD OF APPLYING

#### A. Application Format

Applications should be submitted on form PHS 398. The conventional presentation for grant applications should be utilized. The PHS 398 kit is self-explanatory. If the institution's business office or central application control office does not have this form, an individual copy may be requested by writing to:

Office of Grants Inquiries  
Division of Research Grants  
National Institutes of Health  
Bethesda, Maryland 20205

or by calling (301) 496-7441.

AMENDMENT TO ADMINISTRATIVE GUIDELINES,

**NOTICE**

NIAMDD CLINICAL INVESTIGATOR AWARD

The NIAMDD wishes to announce an amendment to the administrative guidelines for the NIAMDD Clinical Investigator Award. The amendment changes the amount allowable for personnel (other than candidates), supplies, travel, equipment, etc., from \$10,000 to a maximum of \$20,000. Specifically, the fifth sentence of the first paragraph under "Conditions of the Award" should now read: "Up to a total of \$20,000 annually will be provided for personnel (other than candidates), supplies, travel, equipment, etc., which are necessary for pursuit of the awardee's research program." Detailed justification must be given for all monies requested in any budget category. It should be noted that this adjustment does not automatically entitle the applicant to the higher limit of \$20,000. The \$20,000 may not be used to supplement the awardee's salary nor may the \$20,000 be increased by funds made available from the awardee's salary. The amount awarded will be based upon the recommendations of the Initial Review Group, staff, and the National Advisory Council.

This amendment is effective upon release of this announcement. Current holders of NIAMDD Clinical Investigator Awards may request support at the increased level with the submission of their next Type 5 application. A Type 5 application for continuation support requesting the higher levels of support must include adequate justification for any requested increase.

AVAILABILITY OF PHASE II REPORT OF THE

**NOTICE**

GRANTS PEER REVIEW STUDY TEAM (GPRST)

The second and final phase of the Report of the Grants Peer Review Study Team (GPRST) has been completed and transmitted to the Director, National Institutes of Health.

The Phase II Report supplements the three volume Phase I Report and provides an in-depth analysis of opinions on the grants peer review system received in the form of letters, testimony of witnesses given at three public hearings, and responses to a survey of members of the 1975-76 NIH peer review groups.

Copies of the Phase II Report are being forwarded to all participants whose opinions and comments provided the basis for the analysis.

A Summary Report is also available for distribution. For a copy of the Summary or full report, please write to:

Office of Grants Inquiries  
Division of Research Grants  
National Institutes of Health  
Room 448, Westwood Building  
Bethesda, Maryland 20205

GENETIC AND BIOCHEMICAL BASES OF OTOSCLEROSIS,

NINCDS

**ANNOUNCEMENT**

The Communicative Disorders Program (CDP) of the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) is inviting grant applications from interested investigators for the purpose of augmenting knowledge of the genetic and biochemical bases of otosclerosis and sensorineural hearing loss due to otosclerosis.

I. BACKGROUND INFORMATION

Otosclerosis is a well documented cause of adolescent to adult onset conductive hearing loss secondary to a focus of pathology in the stapedial footplate. There is evidence that indicates that involvement of the otic capsule by otosclerotic foci can lead to damage of the cochlea and sensorineural hearing loss.

While the disease has genetic tendencies, the mode of transmission and degree of penetrance are uncertain. Histological studies have documented (1) the cyclical nature of the destructive/resorptive phase and the deposition of mucopolysaccharide and new bone phase and (2) formation of highly mineralized bone in otosclerotic foci. Hydrolytic enzymes thought to be released from the otosclerotic foci have been suggested as possible causes for the sensorineural component of the hearing loss in some otosclerotic patients.

The study of otosclerosis presents several problems including the lack of an animal model, the dearth of information concerning the molecular biology of otosclerosis, and the minute quantities of bony tissue available for study.

II. GOALS AND SCOPE

Under the broader goal of "augmenting knowledge of genetic and biochemical bases of otosclerosis" are specific goals to be addressed by investigators:

1. Innovative approaches must be developed for handling minute quantities of bony tissue for studies to determine the possible biochemical defects in otosclerosis.
2. Clarification is needed of the mode of transmission of otosclerosis along with elucidation of any role such factors as environment, diet, concomitant diseases, etc., may play in the disease process.

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This program is described in the Catalog of Federal Domestic Assistance number 13.851. 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.

3. Application Procedure

The standard procedures for submitting grant applications to DRG should be followed. The original and six copies of the application should be sent or delivered to:

Division of Research Grants  
National Institutes of Health  
Room 240, Westwood Building  
Bethesda, Maryland 20205

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

A brief letter should accompany the application indicating that it is in response to the program announcement NINCDS-CDP on the Genetic and Biochemical Bases of Otosclerosis. The words GENETICS AND BIOCHEMISTRY OF OTOSCLEROSIS should be typed in block letters in the upper right hand corner of the first page of the application. A copy of the letter should be sent to:

Dr. Rolf F. Ulvestad  
Communicative Disorders Program  
National Institute of Neurological and  
Communicative Disorders and Stroke  
National Institutes of Health  
Room 1C17, Federal Building  
Bethesda, Maryland 20205

Prospective principal investigators are urged to contact the Communicative Disorders Program (Dr. Rolf Ulvestad) prior to the submission of a formal application.

The government-owned animals that remain in the current contracts upon their expiration will be made available for stocking the resources. Applicants will be expected to provide for any additional animals that may be required to achieve the indicated colony levels. The inventory of government-owned animals that will be available as of June 1980 is estimated as follows:

A. Bolivian squirrel monkeys

1. Breeders - female 200, male 20, replacement offspring 50
2. Production stock - progeny greater than one year 20, progeny less than one year 60.

B. Brazilian squirrel monkeys - Replacement offspring 75 (no government-owned mature breeding stock).

Title to animals currently owned by the government or purchased with government funds will remain with the government.

III. MECHANISM OF SUPPORT

Applications are to be solicited on a one-time basis from those nonprofit institutions described in the Public Health Service Grants Policy Statement that are eligible to receive grant awards. All policies and requirements which govern the grant programs of the Public Health Service will prevail, including the requirement for cost sharing. It is expected that fees will be charged for excess animals distributed to other investigators. Income thus derived will be administered as grant-related income according to Public Health Service policy and be deducted from the total project costs to determine net costs on which the Federal share of costs will be based. Support will be limited initially to five years. However, awards for renewal will be entertained if there is clear evidence of the continuing need to provide support for such a resource. Anticipated starting dates in 1980 are June 30 (Bolivian squirrel monkeys) and June 23 (Brazilian squirrel monkeys). Approximately \$200,000 annually has been budgeted to support both projects.

IV. REVIEW PROCEDURES AND CRITERIA

NIH peer review procedures will be followed for all responses to this announcement. Upon receipt, applications will be reviewed for responsiveness to the objectives outlined in this announcement. If, in consultation between the Division of Research Grants and the Division of Research Resources, an application is judged unresponsive, it may be returned to the applicant without further consideration. Assignment for review will be according to the NIH referral guidelines. The scientific quality and the technical merit of all applications will be evaluated by an NIH initial review group and by the National Advisory Research Resources Council. Special attention will be directed during review to the following criteria:

1. the scientific and technical merit of research proposed to improve squirrel monkey breeding efficiency and productivity,

RESEARCH CENTER WITHOUT WALLS FOR

HUNTINGTON'S DISEASE

REVISED RECEIPT DATE

**NOTICE**

Due to the large response to the Request for Applications for the Huntington's Disease Centers Without Walls, *NIH Guide for Grants and Contracts*, Vol. 8, No. 5, April 13, 1979, the NINCDS Scientific Evaluation Branch has decided that there is insufficient time to review and site visit applicants before the scheduled January 1980 meeting of the National Advisory Council of the National Institute for Neurological and Communicative Disorders and Stroke. Since each application deserves a thorough and thoughtful review, proposals will be considered at the May 1980 Council meeting. This means that funding cannot begin for those selected until July 1, 1980.

The receipt deadline for applications has also been extended from September 15, 1979 to October 15, 1979. If applicants have any questions, call or write:

Dr. Nancy S. Wexler  
Health Scientist Administrator  
Room 714, Federal Building  
7550 Wisconsin Avenue  
Bethesda, Maryland 20205

Telephoné: (301) 496-1431

REVISED SCHEDULE

Application Deadline: October 15, 1979

Advisory Council Consideration: May 22-24, 1980

REQUEST FOR RESEARCH GRANT APPLICATIONS: RFA

NIH-RR-ARB-79-1

**ANNOUNCEMENT**

DIVISION OF RESEARCH RESOURCES

TITLE: DOMESTIC SQUIRREL MONKEY BREEDING

*Application receipt date, October 15, 1979*

I. BACKGROUND INFORMATION

In 1975 the Animal Resources Branch (ARB) initiated contract support for two squirrel monkey breeding projects. One project had the objective of producing 200 Brazilian-type squirrel monkeys by 1980. The other project was scheduled to produce up to 200 Bolivian squirrel monkeys annually by 1980. These contracts will expire in June 1980.

Efforts to achieve scheduled levels of production in both projects have been unsuccessful due to problems in obtaining sufficient numbers of breeders, controlling intercurrent disease, and identifying the most productive colony management procedures. In retrospect, it is apparent that the contract-supported procurement-type projects were premature and more research and development of squirrel monkey breeding is required. Therefore the ARB is requesting grant proposals to provide assistance to selected institutions in developing advantageous approaches to resolving the problems of squirrel monkey production.

II. RESEARCH GOALS AND SCOPE

Grant proposals are invited for two squirrel monkey breeding projects. The major objective of the projects will be to undertake research and development activities that are necessary to optimize production of this species in captivity. Such research could include investigation of diseases, nutrition, breeding group makeup, weaning practices, suitability of facilities, reasons for reproductive failure, and management practices related to squirrel monkey breeding. It is anticipated that colonies of 150-200 breeders and production objectives of at least 150 animals annually will be required as a base for such activities. The projects will probably produce animals in excess of their needs as a by-product of the production research. Thus the colonies will also serve as a resource of animals to the National Institutes of Health (NIH) grantee community. The applicant should describe plans for distribution of excess animals.

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This program is described in the Catalog of Federal Domestic Assistance number 13.306. 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.

2. the experience and demonstrated competence of the designated staff with breeding of new world nonhuman primates,
3. the adequacy of the facilities and the institutional animal care program,
4. the technical merit of plans for breeding colony management and distribution of animals to the NIH extramural research community.

#### V. METHOD OF APPLYING

Application should be made on the standard research grant application form PHS 398. This form and instructions for applicants can be obtained from the application control offices in most institutions or from:

Office of Grants Inquiries  
Division of Research Grants  
National Institutes of Health  
Room 448, Westwood Building  
Bethesda, Maryland 20205

This form is adaptable to resource project applications and the format suggested for research projects should be used. The fee system that is proposed should be described under "Remarks, Budget Estimates for All Years of Support." A tentative fee schedule and an estimate of the total amount to be recovered by this method should be included. While costs for new construction are not allowable, funds up to a maximum of \$75,000 may be requested for alterations and renovations. If such a request is made, a narrative summary, line drawings, and a cost estimate (indicate source) for proposed work should be included. The statement SUBMITTED IN RESPONSE TO RFA: NIH-RR-ARB-79-1, DOMESTIC SQUIRREL MONKEY BREEDING RESOURCES should be included at the top of the application face page. The deadline for receipt of applications is October 15, 1979, in the Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20205. Late applications will not be considered.

#### VI. IDENTIFICATION OF CONTACT POINTS

The Division of Research Resources encourages potential applicants to communicate with its staff in the development of applications. Such inquiries should be directed to:

Animal Resources Branch  
Division of Research Resources  
Room 5B59, Building 31  
National Institutes of Health  
Bethesda, Maryland 20205

Telephone: (301) 496-5175



*MINORITY BIOMEDICAL SUPPORT*



REVISED DIRECTORY NOW AVAILABLE

The 1979 revised directory of research study projects currently under way in NIH's Minority Biomedical Support Program (MBS) has been published and is available free.

Titled *Minority Biomedical Support Program, A Research Resources Directory*, the booklet contains 67 pages and serves as a ready reference on the research activities and participants in the Division of Research Resources-supported program.

In addition to the current complete listing of MBS grantee institutions throughout the country and Puerto Rico, the directory identifies the names of program directors, the principal investigators, the number of student investigators, and the titles and descriptions of each project involved in the biomedical research effort.

The booklet lists special laboratory instruments and facilities that may be available on a limited basis to other MBS programs in the area or region.

A geographical index is provided, listing grantee institutions by state and within each state, in alphabetical order according to the name of the institution.

A single free copy of *Minority Biomedical Support Program, A Research Resources Directory*, may be secured by writing to the Research Resources Information Center, 1776 East Jefferson Street, Rockville, Maryland 20852, or by request from the Office of Science and Health Reports, Division of Research Resources, National Institutes of Health, Bethesda, Maryland 20205.

REVISED INSTRUCTIONS FOR COMPLETION OF

RESEARCH GRANT APPLICATION (FORM PHS 398)

C O R R E C T I O N

**NOTE:** The revised instructions published in the *NIH Guide for Grants and Contracts*, Vol. 8, No. 10, July 23, 1979, apply to research grant applications using form PHS 398 for all PHS agencies. The previous revised instructions had referred only to NIH research grant applications.