

NIH GUIDE

for GRANTS and CONTRACTS

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

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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, Division of Research Grants, NIH, Room 219, Westwood Building, Bethesda, Maryland 20014, 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 provide policy and administrative information to individuals and organizations who need to be kept informed of requirements and changes in grants and contracts activities administered by the National Institutes of Health.

Supplements, printed on yellow paper, are published by the respective awarding units concerning new projects, solicitations of sources, and requests for proposals.

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GRANT APPLICATIONS ON PULMONARY CILIARY

STRUCTURE AND FUNCTION SOUGHT BY THE

DIVISION OF LUNG DISEASES, NATIONAL

HEART, LUNG, AND BLOOD INSTITUTE

ANNOUNCEMENT

The Structure and Function Branch of the Division of Lung Diseases, National Heart, Lung, and Blood Institute is interested in expanding research activities concerned with the structure and function of pulmonary cilia to involve such disciplines as biochemistry, biophysics, physiology, pathology, and cell biology.

Mucociliary transport is considered to be an important defense mechanism against inhaled toxicants and microorganisms. Nevertheless, little is known about pulmonary cilia, their structure, how they function, and how their activity is controlled.

Most knowledge of the movement and biochemistry of cilia has been derived by extrapolation from work with unicellular organisms or invertebrates. Although the biochemistry and the basic mechanisms of motility may be the same in mammalian cilia as in the more primitive ones, the pattern of movement and mechanism of control are specialized features that vary from organism to organism and from tissue to tissue. No functional studies of mammalian lung cilia can reliably be regarded as reflecting the normal situation because the activity of the cilia, and the amount and nature of secretory activity, may be perturbed by preparative procedures.

Recently, primary abnormalities in the fine structure of human bronchiolar cilia have been observed in persons with situs inversus, chronic sinusitis and bronchiectasis (Kartagener's triad) which is an inherited syndrome associated with repeated pulmonary infections. But whether other genetic defects in ciliary structure may be associated with pulmonary disorders is entirely unknown. Nor is it known how exogenous (toxicants, pharmacological agents) or endogenous (hormones, mediator) compounds affect cilia and their function.

The purpose of this announcement is to encourage submission of research grant applications which focus on in vivo or in vitro studies of the structure and function of normal mammalian cilia from the upper or lower respiratory tract. Studies may be addressed to morphological, biophysical, and mechanical aspects, or may elucidate biochemical and cytochemical characteristics and the function of ciliated epithelial cells.

Deadlines for the receipt of grant applications are March 1, July 1, and November 1. Review of applications and award of grants concerned with structure and function of pulmonary cilia will be through usual NIH procedures.

At the time of submission of an application, a copy of page one (face page) and page two (abstract of proposed research) should be sent to Dr. Bitten Stripp, Chief, Structure and Function Branch, Division of Lung Diseases, National Heart, Lung, and Blood Institute, Room 6A10, 5333 Westbard Avenue, Bethesda, Maryland 20016. Inquiries regarding this program may be addressed to Dr. Bitten Stripp at (301) 496-7171.

GRANT APPLICATIONS ON MEMBRANE TRANSPORT IN
THE LUNG SOUGHT BY THE DIVISION OF LUNG
DISEASES, NATIONAL HEART, LUNG,
AND BLOOD INSTITUTE

ANNOUNCEMENT

The Structure and Function Branch of the Division of Lung Diseases, National Heart, Lung, and Blood Institute is interested in expanding research activities concerned with nonrespiratory functions of the lung to involve expertise in fundamental disciplines such as biochemistry, physiology, cell biology, and pharmacology, and to study mechanisms by which endogenous or exogenous compounds (except gases) are transported across epithelial, endothelial, or interstitial cell boundaries.

The mechanism of membrane transfer of water, electrolytes, drugs, and macromolecules have been studied intensively over the past 20 years in the gastrointestinal tract, the skin and the renal tubules, and across blood/brain and blood/bile barriers, and have led to valuable therapeutic discoveries. Similar studies, however, have not been carried out in the lung. Nevertheless, water and ion movements are important determinants in the composition of mucus and periciliary fluid and may therefore play a significant role in the lung defense system. Moreover, transport and accumulation of drugs, macromolecules, or toxic chemicals may be the first step in a series of events that lead to serious pulmonary disorders.

The purpose of this announcement is to encourage submission of research grant applications which focus on mechanisms for transport of water, electrolytes, endogenous compounds, drugs, and macromolecules across the tracheal, bronchiolar, and alveolar epithelium, across the vascular endothelium and across membranes of cells in the interstitium.

Deadlines for the receipt of grant applications are March 1, July 1, and November 1. Review of applications and award of grants concerned with transport studies in the lung will be through usual NIH procedures.

At the time of submission of an application, a copy of page one (face page) and page two (abstract of proposed research) should be sent to Dr. Bitten Stripp, Chief, Structure and Function Branch, Division of Lung Diseases, National Heart, Lung, and Blood Institute, Room 6A10, 5333 Westbard Avenue, Bethesda, Maryland 20016. Inquiries regarding this program may be addressed to Dr. Bitten Stripp at (301) 496-7171.

RESEARCH GRANT APPLICATIONS SOUGHT
FOR IN VITRO RESPONSES OF THE LUNG
TO PATHOGENETIC SUBSTANCES

ANNOUNCEMENT

The Division of Lung Diseases, National Heart, Lung, and Blood Institute and the National Institute of Allergy and Infectious Diseases are interested in expanding research activities concerned with the host response of the lung to simple chemicals, inorganic and organic dusts, and autoantigens. Studies of the basic response mechanisms of the lung to such inhaled agents are required to identify the events which initiate or exacerbate fibrotic lung diseases. Such studies will involve expertise in fundamental disciplines such as immunology, microbiology, biochemistry, and physiology.

A variety of chronic and progressive pulmonary diseases result from the inhalation of organic or inorganic material. Agents which are known to produce cellular infiltration and/or fibrosis in the lung include such diverse substances as pigeon droppings, fungi, actinomycetes, nitrofurans compounds, silica, and beryllium salts. Although studies have investigated the influence of these agents on lung disease, little is known regarding the cellular responses of the lung to these and other inhaled agents or of the extent to which these responses are protective or destructive. Inhaled substances may produce changes in immunologically-active cells resulting in detrimental effects which may or may not be of an immunologic nature. It is also possible that autoreactive responses, such as the production of antinuclear antibody, might arise as a result of preliminary cellular damage caused by an inhaled agent, and that such auto-immune phenomena might play a role in chronic lung disease initiated by the inciting agent. The purpose of this announcement is to encourage in vitro studies of the host response of the lung to fibrosis and/or cellular-infiltration-producing agents.

Deadlines for the receipt of grant applications are March 1, July 1, and November 1. Review and award of applications concerned with these studies will be through the usual NIH procedures. Assignment of applications to NHLBI or NIAID will be made by the Division of Research Grants, NIH, and will be determined by the major focus of the proposed research objectives. In general, those applications designed to investigate mechanisms of lung disease will be assigned to NHLBI; those related to immunologic processes will be assigned to NIAID.

In order to alert the Institutes of submission of an application in response to this announcement, a copy of the cover page of the application should be forwarded both to Hugh B. Stamper, Jr., Ph.D., Division of Lung Diseases, NHLBI, NIH, Room 6A03, Westwood Building, 5333 Westbard Avenue, Bethesda, Maryland 20016, and to Sheldon Cohen, M.D., Immunology, Allergic, and Immunologic Diseases Program, NIAID, NIH, Room 7A52, Building 31, Bethesda, Maryland 20014.

NONDISCRIMINATION ON THE
BASIS OF HANDICAP

NOTICE

The attention of all grantees and contractors is called to new HEW Regulations (45 CFR 84) entitled: Nondiscrimination on the Basis of Handicap in Programs and Activities Receiving or Benefiting from Federal Financial Assistance. These final rules appeared in the Federal Register on May 4, 1977, and are now in effect. Many NIH grantees and contractors will have received a copy of these regulations and assurance forms directly from HEW. Those that have not received either the regulations or the forms should contact Mr. John Wodatch, Director, Office of New Programs, Office for Civil Rights, Department of Health, Education, and Welfare, Washington, D.C. 20201; telephone: (202) 245-1821.

FALSE STATEMENTS

NOTICE

In any dealing with the Federal Government it is a crime knowingly and willfully: (1) to falsify, conceal, or cover up any material fact, or (2) to make any false or fraudulent statement or representation, or (3) to make or use any false document knowing it to contain any false, fictitious, or fraudulent statement (18 U.S.C. § 1001). This crime is punishable by up to \$10,000 in fines, imprisonment for up to five years, or both.

NONHUMAN PRIMATES AVAILABLE

NOTICE

The National Institutes of Health has established several supply sources of nonhuman primates. These sources were established in the face of current and pending shortages in nonhuman primates to assure a supply of animals for National Institutes of Health (NIH) and Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA) supported projects. Animals will be available from these sources in the near future as follows:

Rhesus and Squirrel Monkeys

During the period from December 1, 1977, to March 1, 1978, the following animals will be available:

- 10 male squirrel monkeys (Saimiri sciureus) of Colombian stock, 12-18 months old, weighing 500-600 gm.
- 9 male and 15 female squirrel monkeys (Saimiri sciureus) of Guyanan stock, 3-4 months old, weighing 300-400 gm.
- 2 male and 55 female squirrel monkeys (Saimiri sciureus), adult excess breeders of Guyanan origin

3 male and 1 female rhesus monkeys (Macaca mulatta),
24-27 months old, weighing 3-4 kg.

100 male and 7 female rhesus monkeys (Macaca mulatta),
12-24 months old, weighing 1-3 kg.

80 male and 65 female rhesus monkeys (Macaca mulatta),
0-12 months old, weighing up to 1 kg.

Except for the adult squirrel monkeys, these animals are domestically bred and reared in a controlled colony environment. The dates of birth and the parentage are available upon request. Unless specifically requested otherwise, the rhesus monkeys, but not the squirrel monkeys, will be vaccinated against measles. Requests for special handling and procedures will be considered.

Investigators in nonprofit institutions who wish to obtain animals from the above groups for use in biomedical and behavioral projects are invited to submit requests for them. The requests in letter form should indicate the source of support for the using project and, if supported by NIH or ADAMHA, the title and number of the grant or contract. The request should also include a specification of the animals required, including number, age, sex, or other special characteristics, and state what, if any requirement there will be to obtain animals from captive-bred sources in future years. Such requirements for future supply from captive-bred sources will be honored whenever feasible. The entire request should not exceed one typewritten page. It should be addressed to Dr. Charles McPherson, Chief, Animal Resources Branch, Division of Research Resources, Room 5B59, Building 31, National Institutes of Health, Bethesda, Maryland 20014. Priority will be given to requests for use on NIH and ADAMHA supported projects received prior to January 1, 1978, and after that, all requests honored on a first-come/first-served basis.

The recipients of the animals will be required to pay a fee which will incorporate shipping costs for each animal. The fee will be \$315 each for the rhesus monkeys and \$240 each for the squirrel monkeys. These fees will be paid directly to the contractor supplying the animals and will be credited to the NIH-supported breeding program to provide partial support for the breeding colonies.

ANIMAL RESOURCES DIRECTORY

NOW AVAILABLE

NOTICE

A 56-page directory describing the animal resources of NIH's Division of Research Resources (DRR) has been published and is available free.

Titled *Animal Resources, A Research Resources Directory*, the booklet is intended as a guide to scientists seeking resource assistance and collaboration involving animals in biomedical research.

*Updated
5/79*

In addition to the complete listing of NIH's major Primate Research Centers, the directory identifies animal diagnostic laboratories, animal information projects, animal reference centers, and special colony and model study centers currently supported by DRR.

The *Directory* indicates the services provided, areas of research interest, principal investigators or directors, addresses, and telephone numbers. A contact person is identified for each resource.

A geographic index is included, listing resources by State, and within each State. A map shows the locations of the Primate Research Centers and animal diagnostic laboratories throughout the country.

A single free copy of *Animal Resources, 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 20014.

MANPOWER DEVELOPMENT PROGRAMS IN

DIABETES, ENDOCRINOLOGY,

AND METABOLIC DISEASES

ANNOUNCEMENT

The Diabetes, Endocrinology, and Metabolic Diseases Program of the National Institute of Arthritis, Metabolism, and Digestive Diseases announces the continued availability of support for manpower development programs in the areas of clinical and basic sciences relevant to its mission. The programs fall into three categories:

1. National Research Service Awards These awards are made to individuals (fellowships) or to institutions (training programs) for the support of full-time research training related to diabetes, endocrinology, and metabolic diseases.
2. Research Career Development Award This program is employed to foster the development of scientists with outstanding research potential who require experience in a productive scientific environment in preparation for a career of independent research. This award provides salary support for five years to individuals who have completed significant postdoctoral research.
3. Clinical Investigator Award This award provides the opportunity for promising clinically-trained individuals with demonstrated aptitude in research to develop into independent investigators. It provides three years of support for the salary and research activities of individuals with four to seven years of clinical and research experience beyond the clinical degree. Like the Research Career Development Award, this award is designed to provide experience in a productive scientific environment in preparation for a career of independent research.

Although the DEMD Program invites application from qualified individuals for each of these awards, the Program is particularly interested in encouraging the submission of institutional National Research Service Award applications. This Program permits greater flexibility to the principal investigator in making commitments and appointments of individuals to the Program, as well as being a mechanism especially suitable for exposing the trainees or fellows to a variety of training experiences.

Applications for individual National Research Service Awards, institutional National Research Service Awards, NIH Career Development Awards, and NIAMDD Clinical Investigator Awards are accepted in accord with the usual NIH application receipt dates of February 1, June 1, and October 1.

Should you desire further information about any of the programs outlined above, please feel free to write, or call the Associate Director for Diabetes, Endocrine, and Metabolic Diseases, NIAMDD, Room 9A47, Building 31, Bethesda, Maryland 20014; telephone: (301) 496-6983.

ESTABLISHMENT AND AVAILABILITY OF
SPECIAL EMPHASIS RESEARCH CAREER AWARD
DIABETES MELLITUS: CARDIOVASCULAR, METABOLIC
AND ENDOCRINOLOGIC ASPECTS
NATIONAL HEART, LUNG, AND BLOOD INSTITUTE
AND
NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM,
AND DIGESTIVE DISEASES

ANNOUNCEMENT

This award is intended to:

- encourage qualified individuals in the early stages of their postgraduate medical and scientific careers to develop research interests and skills in the metabolic, endocrinologic, and cardiovascular aspects of diabetes mellitus;
- provide support for individuals to pursue a program of research in various fundamental and clinical research disciplines related to diabetes mellitus and its sequelae, at one or more domestic institutions which offer superior opportunities in these areas; and
- create a pool of highly qualified investigators with experience and skills in the cardiovascular, metabolic, and endocrinologic aspects of diabetes mellitus for a future role in research, teaching, and clinical care.

This new award provides the opportunity for an individual with developing research interests to acquire experience and skill in the broad fundamental and clinical scientific disciplines essential for a multidisciplinary approach to the study of the metabolic, endocrinologic, and cardiovascular aspects of diabetes mellitus. In contrast to existing NIH awards which encourage the development of skills in a single discipline within a single laboratory, this Special Emphasis Research Career Award (SERCA) emphasizes in-depth experience in several fundamental and clinical scientific disciplines which are not dependent upon a single laboratory or institution.

10/1/79

Provisions of the Award This nonrenewable award provides support for a five-year period of full-time research and related activities. The latter may include research development activities as well as involvement in patient care to the extent that it will strengthen research skills. The SERCA grant made to the awardees parent institution provides up to \$30,000 for full-time salary support plus fringe benefits. A maximum of \$8,000 during the early phase and a supplement up to \$20,000 during the last two years will be provided for necessary research costs including technical

assistance, equipment, supplies, consultant costs, domestic travel, patient care costs, publication, and other costs.

The applicant is expected to:

- develop, while working with an advisor, capabilities in fundamental, applied, or clinical research in the cardiovascular, metabolic, and endocrinologic aspects of diabetes. This should include exposure to multiple disciplines, such as physiology, biochemistry, biophysics, pharmacology, nutrition, and epidemiology. Investigators are encouraged to pursue these activities in more than a single laboratory at one institution, and to initiate and implement a research project of his/her own design. This project must focus on the cardiovascular, endocrinologic, and metabolic aspects of diabetes and be of such scope that within three years evidence of independent investigative capability will be presented. At the completion of this five-year award, the individual should then be in a position to compete successfully in the NIH regular research grant and award programs of these and other NIH Institutes.

Deadline for Receipt of Application Applications must be submitted on form PHS 398 available at grantee institutions. Applications must be received by NIH no later than February 15, 1978. The original copy and the folder in which it is submitted should be clearly labeled NHLBI and NIAMDD SERCA.

Inquiries about the SERCA program content should be directed to:

Office of the Associate Director for Diabetes,
Endocrine, and Metabolic Diseases Program
National Institute of Arthritis, Metabolism, and
Digestive Diseases
Room 9A47, Building 31
Bethesda, Maryland 20014
Telephone: (301) 496-6983

Inquiries concerning application procedures should be directed to:

Division of Extramural Affairs, Review Branch
National Heart, Lung, and Blood Institute
Room 557, Westwood Building
5333 Westbard Avenue
Bethesda, Maryland 20016
Telephone: (301) 496-7915

It is anticipated that final review by the National Advisory Councils of the NHLBI and NIAMDD will be completed before the end of May 1978, and approved awards will be funded beginning July 1, 1978, at the earliest.

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REVISION OF GUIDELINES

CANCER CONTROL PROGRAM



The *NIH Guide for Grants and Contracts*, Vol. 4, No. 7, pages 3-6, August 8, 1975, contained the National Cancer Institute, Division of Cancer Control and Rehabilitation's grant guidelines for the Cancer Control Program; a correction appeared in Vol. 5, No. 12, page 4, August 6, 1976. Page 5, Section C. of the August 8, 1975, announcement should be revised as follows:

C. Rehabilitation/Continuing Care:

The DCCR will support systematic, carefully controlled research in the areas listed below. It is presumed that the investigators will have the appropriate technical background, training, and experience in the conduct of such research. Adequate facilities to carry out the proposed investigations must be available.

1. Management of pain in cancer patients.
2. Psychosocial aspects of cancer as it affects the patient and the patient's family. This area may include:
 - a. Development of methodologies for assessing the effectiveness of selected counseling techniques.
 - b. Development and assessment of procedures and techniques for more effective counseling of patients and their families.
 - c. Patient/family patterns of competence.
3. Psychological and psychosocial aspects of cancer as it affects health professionals.
4. Morbidity of young adult long-term survivors.
5. Dietary and nutritional management of cancer patients including feeding behavior, and its alteration by disease and/or treatment.
6. New approaches to the rehabilitation problems of head and neck cancer patients in relation to cosmesis, speech, and swallowing.
7. Development and evaluation of new physical techniques/procedures to rehabilitate cancer patients with specific deficits (amputation, stoma, etc.)
8. Development and evaluation of new concepts and procedures for the improved care of cancer patients with end-stage disease.
9. Development and evaluation of new biomaterials for better prosthesis construction.

Anyone needing a completely new copy of the guidelines (including the above revision) may contact:

Dr. Veronica L. Conley
Division of Cancer Control and Rehabilitation
National Cancer Institute
Room 7A07, Blair Building
8300 Colesville Road
Silver Spring, Maryland 20910

Telephone: (301) 427-7941

COPYRIGHT POLICY

NOTICE TO ALL GRANTEES



The new copyright law becomes effective January 1, 1978. Grantees and principal investigators should become familiar with the effect of this law on certain scientific publications.

Current Public Health Service policy is congruent with the new copyright law. This policy allows an individual to make a single photocopy of a published article which is identified as resulting from work supported in full or in part from Public Health Service grant funds. To assist users of this policy in the identification of scientific articles resulting from Public Health Service supported projects, authors are required to provide a credit line or footnote acknowledging the source of support. We ask that all grantees see that such a notice regularly appear on published articles.

The present PHS grant copyright policy promulgated after appropriate publication in the *Federal Register* (Vol. 36, No. 118) and reissued through publication of the *PHS Grants Policy Statement* [DHEW Publication No. (OS) 77-50,000 (Rev.) October 1, 1976] reads as follows:

"Except as otherwise provided in the conditions of the award, the author is free to arrange for copyright without approval when publications or similar materials are developed from work under a PHS grant-supported project. Any such copyrighted materials shall be subject to a royalty-free, nonexclusive, and irrevocable license to the Government to reproduce them, translate them, publish them, use and dispose of them, and to authorize others to do so for Government purposes. In addition, communications in primary scientific journals publishing initial reports of original research supported in whole or in part by PHS grant funds may be copyrighted by the journal with the understanding that individuals are authorized to make, or have made by any means available to them, without regard to the copyright of the journal, and, without royalty, a single copy of any such article for their own use."

NIH PEER REVIEW PROCESS

ARTICLES AVAILABLE



A three-part series of articles describing in detail the processing of peer review research grant applications at the National Institutes of Health has been written by Dr. Catherine Henley, health science administrator of the Division of Research Resources.

The series was published in the July, August, and September 1977 issues of *Federation Proceedings*.

Adapted from a document prepared for the Grants Peer Review Study Team, National Institutes of Health, the published series is broken down into the following sections: (1) The Assignment and Referral Process, (2) Review by an Intitial Review Group, and (3) Review by an Advisory Board/Council.

All three articles have been reprinted with the permission of *Federation Proceedings* and are available in one single copy entitled *Peer Review of Research Grant Applications at the National Institutes of Health* from the Office of Science and Health Reports, Division of Research Resources, National Institutes of Health, Bethesda, Maryland 20014.