

NIH GUIDE

For Grants and Contracts

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The NIH Guide announces scientific
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NOTICES

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NOTICES

SCHEDULE FOR THE REVIEW AND AWARD OF SMALL GRANTS FOR EPIDEMIOLOGY, DIVISION OF
CANCER ETIOLOGY

P.T. 34; K.W. 0785055, 0755030, 0715035

National Cancer Institute

Experience to date with the review and award of small grants for epidemiology (R03, for amounts up to \$25,000 direct costs) suggests the following schedule:

Receipt Date	Committee Review	Earliest Possible Funding Date
October 1	Feb./Mar.	June
February 1	May/June	September
June 1	Oct./Nov.	February

DATED ANNOUNCEMENTS (RFPs AND RFAs AVAILABLE)

PRENATAL DIAGNOSIS USING FETAL CELLS OBTAINED FROM MATERNAL BLOOD

RFP AVAILABLE: RFP-NICHD-CRMC-86-14

P.T. 34; K.W. 0745020, 0775025, 0750010, 0785135, 1002019, 0710070, 1002008, 1002012

National Institute of Child Health and Human Development

The Center for Research for Mothers and Children of the National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH), is seeking proposals for a project to develop a safe, relatively inexpensive, accurate and non-invasive diagnostic technique for prenatal diagnosis of genetic disorders that can be performed early in pregnancy, preferably during the first trimester. The study will consist of two phases. Phase I will involve the development of the methodology and limited testing of samples obtained from at least 75 women. Proposals offering to obtain non-invasively fetal cells from sources other than maternal blood will be considered. The aim of this study is to develop non-invasive and accurate techniques for the prenatal diagnosis of genetic disorders in order to enhance the opportunity and success for fetal therapy. Phase II will be competed as a separate procurement if the results from Phase I indicate the need for a full scale clinical trial to test the methodology developed in Phase I. Offerors must have expertise in obstetrics, biochemical genetics, immunology, molecular biology, cytogenetics and biostatistics. In addition, they must have access to a population of women who are being screened prenatally using current diagnostic techniques, such as amniocentesis or chorionic villus sampling.

This is not a Request for Proposal. The Request for Proposals, NICHD-CRMC-86-14, will be issued on or about September 22, 1986. Proposals will be due at the close of business on December 12, 1986. Those organizations desiring a copy of the above RFP may send their written requests to:

Carletha Gates
Contract Management Section, OGC
National Institute of Child Health and Human Development
Landow Building, Room 6C29
7910 Woodmont Avenue
Bethesda, MD 20892.

All requests should cite the RFP number as set forth above.

All requests received by November 10, 1986, will be honored. After that date they will be honored as long as the supply lasts. Once the supply is exhausted, a copy of the RFP will be available for the perusal of any requestor at the above office during normal business hours. An appointment is required to review the office copy of the RFP.

ACID RAIN: AIR POLLUTANT INTERACTIONS

RFA AVAILABLE: 86-ES-04

P.T. 34; K.W. 1007005, 1007009, 1007002

National Institute of Environmental Health Sciences

Application Receipt Date: December 1, 1986

Assessment of the toxicology of air pollutants involves consideration of the inhalation of mixtures as they occur under ambient conditions. Studies on the combined effects of multiple pollutants have demonstrated that acidic components modify the effects of other pollutants, although little is known about their mechanisms.

The goals of the requested studies are, (1) to determine the mechanisms of interactions between components of pollutant acidic aerosol mixtures associated with the acid rain phenomenon, (2) to identify products arising from interactions among components, and (3) to identify toxicological effects. Such studies may be interdisciplinary and may be conducted in geographic locations with atmospheric pollutants resulting from the acid rain phenomenon or from models that simulate the polluted environment.

Request for copies of the complete RFA should be addressed to:

Edward Gardner, Jr., Ph.D.
Extramural Program
National Institute of Environmental Health Sciences
P.O. Box 12233
Research Triangle Park, North Carolina 27709
Telephone: (919) 541-7724

ACID RAIN: ADVERSE HEALTH EFFECTS OF ALUMINUM

RFA AVAILABLE: 86-ES-03

P.T. 34; K.W. 1007009, 1007001

National Institute of Environmental Health Sciences

Application Receipt Date: December 1, 1986

The Extramural Program, National Institute of Environmental Health Sciences, announces availability of a Request for Applications (RFA) to study the mechanisms for the accumulation of aluminum in body tissues and its possible role in the pathogenesis of disease states. Copies of the RFA are currently available from the Extramural Program staff of the NIEHS.

Proposed studies may be either clinical or in vivo or in vitro animal models and may address such aspects as determination of the biologic effects of the species of aluminum that result from acid precipitation, development of metabolic and kinetic models of various aluminum species, determination of the influence of dietary factors on aluminum absorption/distribution, identification of aluminum cell injury and determination of tissue or cell toxicity in relation to aluminum concentration. Other aspects of aluminum research are not precluded.

Request for copies of the RFA should be addressed to:

Edward Gardner, Jr., Ph.D.
Extramural Program
National Institute of Environmental Health Sciences
P.O. Box 12233
Research Triangle Park, North Carolina 27709
Telephone: (919) 541-7724

ACID RAIN: EPIDEMIOLOGIC STUDIES

RFA AVAILABLE: 86-ES-02

P.T. 34; K.W. 1007001, 0785055, 0710030

National Institute of Environmental Health Sciences

Application Receipt Date: February 16, 1986

The Extramural Program, National Institute of Environmental Health Sciences, announces availability of a Request for Applications (RFA) for epidemiologic studies related to the acid rain phenomenon. Copies of the RFA are currently available from the Extramural Program staff of the NIEHS.

Pollutants associated with the acid rain phenomenon are those resulting from combustion of fossil fuels, namely sulfur oxides, nitrogen oxides, particulate matter and photochemical oxidants. Research that addresses the human health effects must necessarily involve a wide range of scientific disciplines and diverse experimental protocols. Although deleterious human health effects have been attributed to exposure to the pollutants mentioned above, as evidenced by increased hospital admissions, etc., the lack of direct measurements of acidic aerosols in these studies does not presently permit firm conclusions to be drawn as to the relationship between acidic aerosols and effects on the respiratory system.

The specific goal of this research is to relate human health effects with actual measurements of acidic aerosol pollutants occurring as the result of acid rain. This goal can be accomplished through prospective epidemiologic studies and it is desirable that the design of such studies permit assessment of individual exposures to specific pollutants in the acid aerosol.

Request for copies of the RFA should be addressed to:

Edward Gardner, Jr., Ph.D.
Extramural Program
National Institute of Environmental Health Sciences
P.O. Box 12233
Research Triangle Park, North Carolina 27709
Telephone: (919) 541-7724

REDUCTION IN AVOIDABLE MORTALITY FROM CANCERS

RFA AVAILABLE: 86-CA-12

P.T. 34; K.W. 0715035, 0785165, 0415000, 0745055

National Cancer Institute

Application Receipt Date: December 15, 1986
Letter of Intent Receipt Date: October 31, 1986

The Division of Cancer Prevention and Control (DCPC) of the National Cancer Institute (NCI) invites grant applications from investigators interested in developing intervention projects to reduce avoidable mortality from cancers. This RFA is a modified reissuance of RFA 84-CA-13.

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

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

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

Copies of the complete RFA may be obtained from:

Knut Ringen, Dr. P.H.
National Cancer Institute
Clair Building, Room 1A01
Bethesda, Maryland 20892
Telephone: (301) 427-8597

REPRODUCTIVE DISORDERS IN WOMEN

RFA AVAILABLE: 86-HD-05

P.T. 34; K.W. 0715160, 1002042, 0765035, 0706030

National Institute of Child Health and Human Development

Application Receipt Date: February 16, 1987

The Reproductive Sciences Branch (RSB) of the Center for Population Research (CPR) of the National Institute of Child Health and Human Development (NICHD), invites research grant applications for clinical studies in reproductive disorders and reproductive failure in women. An important component of increasing human age-specific infertility rates appears to be comprised of some relatively common functional and structural disturbances of the female reproductive tract leading to impaired fertility and sterility. In some cases evidence of the increased incidence of these disturbances of function has been well documented. Seeking to encourage investigator interest in these specific research areas appropriate to the mission of the Institute, the Reproductive Sciences Branch hopes to receive grant-in-aid requests (R01) for studies conducted in women pertinent to pelvic inflammatory disease and reproductive failure, disturbances in hypothalamic-ovarian function, endometriosis, ectopic pregnancy and premenstrual syndrome. It is anticipated that such studies will deal with pathophysiology and disturbances of biological mechanisms, the delineation of the natural course of disease, and the application of new modes of investigation, e.g., magnetic resonance spectroscopy and imaging, to these topics. The Reproductive Sciences Branch anticipates that 4-5 applications would be funded as a result of this RFA.

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

Julia Lobotsky, M.S.
Reproductive Sciences Branch
Center for Population Research
National Institute of Child Health
and Human Development
Room 7C33, Landow Building
National Institutes of Health
Telephone: (301)-496-6515

MINORITY HIGH SCHOOL STUDENT RESEARCH APPRENTICE PROGRAM

P.T. 34, 44, FF; K.W. 0710030

Division of Research Resources

Application Receipt Date: December 1, 1986

BACKGROUND AND OBJECTIVES

The Division of Research Resources (DRR), National Institutes of Health (NIH) currently plans to continue the Minority High School Student Research Apprentice Program in 1987.

The purpose of the program is to provide minority high school students with a meaningful experience in various aspects of health-related research in order to stimulate their interest in careers in science.

ELIGIBILITY

Eligible institutions are those that were awarded grants during the Federal fiscal year 1986 from either the Biomedical Research Support Grant (BRSR) Program or the Minority Biomedical Research Support (MBRS) Program, both of which are administered by DRR, NIH. Only one application for the Apprentice Program can be submitted by an institution that is the recipient of both the BRSR and MBRS awards.

Students eligible for support under this program are those who (1) identify themselves as minority (i.e., Black, Hispanic, American Indian, Alaskan Native, Pacific Islander, or Asian); (2) are U.S. citizens or have a permanent visa; and (3) were enrolled in high school during the 1986-87 academic year. (Students who will graduate from high school in 1987 are eligible, as is a student who participated in a previous year - provided he/she is still enrolled at the high school level.)

MECHANISM OF SUPPORT

The mechanism of support for this program will be the NIH grant-in-aid. Support will be provided at a level of \$1,500 for each apprentice position allocated. No indirect costs will be paid. Direct support to the apprentice must be as salary; stipends are not allowed. Within the \$1,500 per student allocation, funds may also be utilized for supplies, extending the research experience, or if adequate funds exist, for the addition of an apprentice. However, funds from these grants may only be used for the costs of the apprentice program. The Program Director is responsible for recruitment and selection of the apprentices and assignment of each to an investigator. Recruitment and selection of students should emphasize factors of the students' motivation, ability and scholastic aptitude and accomplishments. In addition, consideration should be given to science teachers' recommendations and where possible the degree of parental commitment. Assignments should be made to investigators involved in health-related research who are committed to developing in the high school students both understanding of the research in which they participate and the technical skills needed.

APPLICATION

Eligible institutions should submit an application consisting of no more than:

- 1 A one-page letter stating the number of student positions requested, plus
- 2 An original and two signed and completed copies of the Grant Application Form, PHS 398 (Rev. 05/82) face page only.

Mark items numbered 4,5,7,10 and 14 Not applicable (N.A.). Complete item 8 with the total dollar amount of your request, which is the sum of the number of student positions requested times \$1,500 per student.

A one-page Program Director's report and a one-page report for each student must be submitted no later than December 1, 1987. In addition, a Financial Status Report will be required by May 31, 1988.

Please Note: Limited funds and increased requests for such student positions may restrict the final allocations by DRR to three or four students per eligible applicant institution. Upon recommendation of the National Advisory Research Resources Council, the Division will give preference in making awards to those institutions that can support a summer program having a "critical mass" of at least five or six students using institutional as well as DRR funds.

The applications should be submitted to:

Biomedical Research Support Program
Division of Research Resources
National Institutes of Health
Building 31, Room 5B-23
9000 Rockville Pike
Bethesda, Maryland 20892

Inquiries can be made of Dr. Marjorie A. Tingle at the above indicated address or by calling (301) 496-6743.

The firm deadline for receipt of applications is December 1, 1986. Awards will be effective March 1, 1987, contingent upon availability of appropriated funds.

ONGOING PROGRAM ANNOUNCEMENTS

GENETICS RESEARCH ON ALCOHOLISM

P.T. 34; K.W. 0404003, 1002019, 0411005, 0745060, 0755020

National Institute on Alcohol Abuse and Alcoholism

Application Receipt Dates: February 1, June 1, October 1

BACKGROUND

The National Institute on Alcohol Abuse and Alcoholism (NIAAA) invites grant applications for the support of research addressing problems related to genetic influences on the development and expression of alcoholism. Our knowledge of the

genetic factors contributing to alcohol abuse and alcoholism has increased considerably in recent years. The fact that heredity plays a role in determining individual differences in susceptibility to the disorder is now well established. Genetic influence is observed in both men and women and is identifiable in at least 35 to 40 percent of male alcoholics. People with family histories of alcohol abuse face increased risk of becoming alcoholics.

RESEARCH GOALS AND SCOPE

Grant applications are solicited to elucidate the role of genetics in the etiology and pathology of alcoholism. Increasing our knowledge in this area will help to identify individuals at risk and may lead to better focused prevention and treatment approaches. Genetic studies may encompass other areas of alcohol research, such as the identification of biological and behavioral markers, mechanistic aspects of alcoholism, gender and racial differences in response to alcohol, and the relationship of alcoholism to certain mental and physical disorders. Special, but not exclusive, emphasis is placed on the application of techniques in molecular and population genetics and on clinical research. Multidisciplinary collaborations are encouraged. Special areas of interest are identified below. Other research areas which address problems related to the genetics of alcoholism also would be appropriate.

- o Identification and characterization of new biological and behavioral markers for heritable forms of alcoholism or genetic predisposition to alcoholism.
- o Studies on the role of genetics in the cellular and molecular changes
- o Studies on the role of genetics in the cellular and molecular changes responsible for altered neuronal responsiveness in humans with a genetic predisposition to alcoholism or in appropriate animal models.
- o Evaluation of gender and racial contributions to the genetic predisposition to alcoholism or in appropriate animal models.
- o Evaluation of gender and racial contributions to the genetic predisposition to alcoholism.
- o Assessment of the interaction between genetic components and non-genetic environmental factors that contribute to alcohol abuse.
- o Definition and evaluation of mechanisms for the concordance of certain mental disorders with alcohol abuse or a family history of alcohol abuse.
- o Development and mechanistic evaluation of heritable markers for sensitivity to alcoholic liver disease, fetal alcohol syndrome, or other medical consequences of alcoholism.
- o Development of psychotherapeutic approaches for patients with markers for heritable forms of alcoholism.
- o Development and characterization of new genetically defined animal lines with specific traits relevant to alcoholism.

MECHANISM OF SUPPORT

The support mechanism for this program will be the traditional investigator-initiated research project grant. Under this mechanism the applicant will plan, direct, and carry out the research program. The project period during which the research will be conducted should adequately reflect the time required to accomplish the stated goals and be consistent with the policy for grant support.

Support will be provided for up to 5 years (renewable for subsequent periods) subject to the availability of funds and progress achieved.

Research grant applications may be submitted by nonprofit organizations and institutions, state or local governments and their agencies, for profit organizations, and eligible agencies of the Federal government.

APPLICATION AND REVIEW PROCEDURES

Applications in response to this solicitation will be reviewed for scientific and technical merit by an appropriate peer review group. They will be judged on the overall scientific merit of the proposed research, potential significance of the research findings, adequacy of methodology, availability of necessary facilities, and the qualifications of the research team. A secondary review for policy and program relevance will be made by the appropriate National Advisory Council.

Applications will be accepted in accordance with the usual receipt dates for new applications:

February 1 June 1 October 1

Potential applicants may obtain a copy of the program announcement at the following address:

National Clearinghouse for Alcohol Information
Reference Department
Box 2345
Rockville, Maryland 20852
Telephone (301) 468-2600

Applications must be submitted on form PHS 398 (revised 5/82), which is available in the business or grants and contracts office at most academic and research institutions or from the National Clearinghouse for Alcohol Information. State and local government agencies should use form PHS 5161 (revised 3/86).

The signed original and six copies (two copies if using form PHS 5161) of the application should be sent to:

Application Receipt Office
Division of Research Grants
National Institutes of Health
Westwood Building - Room 240
Bethesda, Maryland 20892

More detailed information about application procedures may be obtained from:

Helen M. Chao, Ph.D.
Chief, Biomedical Research Branch or

Ernestine Vanderveen, Ph.D.
Chief, Clinical and Psychosocial Research Branch

Division of Extramural Research
National Institute on Alcohol Abuse and Alcoholism
5600 Fishers Lane, Room 14C-17
Rockville, Maryland 20857
Telephone: (301) 443-4223

SPECIAL INFORMATION

KEYWORD THESAURUS

Since January 4, 1985, announcements and RFAs in the NIH Guide for Grants and Contracts have been coded using the Keyword Thesaurus, a project funded by the National Science Foundation and the National Endowment for the Humanities. The National Institutes of Health joined in this venture to assist in developing additional keywords for health and the biomedical sciences. The purpose of using the codes and terms of the Keyword Thesaurus is to facilitate distribution of announcements and Requests for Applications to faculty and staff members who have interests in the specific areas listed.

The complete Keyword Thesaurus, a 44-page publication listing terms and codes to identify areas of interest for research and other types of sponsored programs, may be ordered from the National Technical Information Service. One of the goals of the Keyword Thesaurus project is to expand the number of agencies that will participate in coding their announcements of sponsored activities in order to facilitate distribution of announcements from many agencies to faculty and staff members who have interests in the specific areas listed. For those wishing to order, the price of a paper edition is \$10.00; and the price for the microfiche edition is \$4.50. The NTIS Order Number is PB85-136893.

National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161

The current edition of the Keyword Thesaurus was revised in October, 1984. For more information about coverage of sponsoring agencies and aims of the Keyword Thesaurus project, you may write to:

John Rodman & Associates
3113 Dover Drive
Plano, Texas 75075
Telephone: (214) 964-1892

For those who may not have obtained a copy of the 1984 edition of the Keyword Thesaurus, the relevant portion is excerpted in this issue. The terms are organized into coherent groupings to assist faculty members or other research staff in stating their profile of interests. A listing of agency program types is also provided in this issue of the Guide. Then the same list of terms are indexed in numerical order, by the 7-digit code. This may serve as a convenient look-up table for the NIH-relevant terms coded in each announcement, RFA, or RFP.

As displayed in individual announcements, RFAs or RFPs, the initials "P.T." denote "program" and "K.W." identifies one or more keywords corresponding to the subject matter of the program or of the announcement. Occasionally, other keyword terms from the complete Thesaurus may be used to classify announcements, and codes for Target Groups may be used.

Additional copies of the group listing or of the numerical listing of terms may be obtained by writing to Dr. James at the address below. Experimental indexing of the Guide using keywords from each issue has been performed. Requests for information about this or other questions regarding the NIH use of the Keyword Thesaurus may be addressed to:

Dr. John C. James
Asst. Dir. for Special Projects, DRG
Westwood Building - Room 440
National Institutes of Health
Bethesda, Maryland 20892
Telephone: (301) 496-7554

KEYWORD THESAURUS

PROGRAM TYPES

01 ANALYTICAL SERVICES
02 CAPITAL CONSTRUCTION
04 CENTERS: RESEARCH/DEMONSTRATION/SERVICE
05 CHALLENGE/FUND RAISING
06 CONSULTING/VISITING PERSONNEL
08 CULTURAL OUTREACH
12 DEMONSTRATION
14 DEVELOPMENT (INSTITUTIONAL/DEPARTMENTAL)
16 DISSEMINATION OF INFORMATION
18 EQUIPMENT/INSTRUMENTATION
20 EXHIBITIONS, COLLECTIONS, PERFORMANCES
22 FELLOWSHIPS
23 FINANCIAL AID (SCHOLARSHIPS AND LOANS)
24 GENERAL OPERATING SUPPORT
25 INSTRUCTION/CURRICULUM DEVELOPMENT
26 INTERNATIONAL EXCHANGE PROGRAMS
28 MATERIALS ACQUISITION (BOOKS, TAPES, ETC.)
30 PRESERVATION/RESTORATION
32 PUBLICATION
34 RESEARCH
36 RESOURCES (SHARED/NON-ACQUISITION)
38 SERVICE DELIVERY PROGRAMS
40 STUDENT SUPPORT (INCLUDING DISSERTATION SUPPORT)
42 SYMPOSIUMS, CONFERENCES, WORKSHOPS, INSTITUTES,
SEMINARS, COLLOQUIA
44 TRAINING/TRAINESHIPS/APPRENTICESHIPS/INTERNSHIPS
46 TRANSLATIONS/EDITING
48 TRAVEL

TARGET GROUPS/BENEFICIARIES

AA CHILDREN AND YOUTH
BB ECONOMICALLY DISADVANTAGED
CC ELDERLY
DD HANDICAPPED/DISABLED
EE MIGRANT
FF MINORITIES
FA ALASKANS
FB ASIANS
FC BLACKS
FD HISPANICS
FE NATIVE AMERICANS
GG REFUGEES
HH VETERANS
II WOMEN

KEYWORD THESAURUS TERMS BY NIH GROUPINGS

0700000 HEALTH AND SAFETY/MEDICAL SCIENCES/BIOMEDICAL

0705000	ANATOMICAL SYSTEMS/SITES	0414007	Educational Psychology
0705005	Bone Marrow	0500000	Education
0705010	Brain	0710050	Electrophysiology
0705015	Cardiovascular System	1002017	Embryology
0705020	Connective Tissue	0710055	Enzymology
0705025	Digestive System	1002019	Genetics
0705030	Endocrine System	1002021	Histology
0705035	Fetus	0710060	Immunochemistry
0705040	Immune System	0710065	Immunogenetics
0705045	Lymphatic System	0710070	Immunology
0705050	Musculoskeletal System	0710075	Immunopathology
0705055	Nervous System	1004017	Information Science/Systems
0705060	Placenta	0410000	Linguistics/Philology
0705065	Respiratory System	0901026	Management Sciences
0705070	Sensory System	0710080	Medicinal Chemistry
0705075	Urogenital System	0607010	Microelectronics
		1002027	Microbiology
0706000	BIOMEDICAL ENGINEERING	0413003	Migration
0735005	Automated Clinical Analysis	1002058	Molecular Genetics
0706010	Bioelectric Phenomena	1002028	Mutagenics
0706020	Clinical Engineering	1002029	Mycology
0706030	Medical/Diagnostic Imaging	0710085	Neurophysiology
0706040	Physiological Controls and Systems	1002030	Neuroscience
		0710090	Nuclear Medicine
		0710095	Nutrition/Dietetics
0710000	DISCIPLINES/FIELDS	1013017	Optics
0710005	Adolescent Health	1002032	Parasitology
0710010	Aging/Gerontology	0710100	Pharmacology
1002001	Anatomy	0710130	Pharmacy
0201013	Animal Diseases/Pathology	0414011	Physiological Psychology
0201016	Animal Genetics/Breeding	1002040	Plant Sciences
0201018	Animal Physiology/Morphology	1002041	Plant Virology
0401001	Anthropology, Cultural/Social	1009013	Polymer Science
1004015	Artificial Intelligence	0413004	Population Biology
1002003	Bacteriology	0414012	Psychobiology
0404000	Behavioral/Social Studies	0414020	Psychodynamics
0414015	Behaviorism/Experimental Psychology	0414000	Psychology
		0710105	Psychopathology
1003002	Biochemistry	1013026	Radiation Physics
1003015	Biochemistry, Carbohydrates	0710110	Reproductive Endocrinology
1003016	Biochemistry, Lipids	0710115	Reproductive Physiology
1003017	Biochemistry, Nucleic Acid	0414014	Social Psychology
1003018	Biochemistry, Proteins	0417000	Sociology
0710015	Bioengineering	0710120	Speech Pathology
1002000	Biological Sciences	1010013	Statistics
1002004	Biology, Cellular	1003022	Surface Chemistry
1002006	Biology, Developmental	1007009	Toxicology
1002008	Biology, Molecular	0710125	Transplantation Immunology
1002009	Biology, Radiation	1002045	Viral Studies (Virology)
0710020	Biomechanics	1002047	Zoology
0710030	Biomedical Research, Multidisciplinary	0715000	DISEASE ENTITIES/MEDICAL PROBLEMS, BEHAVIOR AND FACTORS AFFECTING HEALTH
1002012	Biometry		
1013004	Biophysics	0715005	Accidents
0710035	Biotechnology	0404001	Addiction
1002013	Botany	0404003	Alcohol/Alcoholism
1003019	Catalysis	0715010	Arthritis
1003003	Chemical Dynamics	0715015	Autoimmunity
1013020	Chemical Physics	0715020	Behavioral Medicine
1003006	Chemical Synthesis	0715025	Biofeedback
1003008	Chemistry, Analytical	0715030	Birth/Congenital Defects
0710040	Chemistry, Clinical	0715035	Cancer/Carcinogenesis
1003012	Chemistry, Organic	0715040	Cardiovascular Diseases
1003014	Chemistry, Physical	0715045	Communicable Diseases
0414004	Clinical Psychology	0715050	Communicative Disorders, Hearing
1004000	Computer Science		
1002015	Cytology	0715055	Communicative Disorders, Speech
0413001	Demography		
0414006	Developmental Psychology	0715060	Convulsive Disorders
1002052	Development, Animal	0404007	Death and Dying
1002053	Development, Human	0715070	Death and Dying, Health and Physical Needs
0710045	Drug Metabolism		
1002016	Ecology		

0715075	Diabetes	0730035	Health Maintenance Organizations
0715080	Diabetic Retinopathy	0730040	Health Manpower/Professions
0715085	Digestive Diseases and Disorders	0730045	Health Records
0404009	Drugs/Drug Abuse	0730050	Health Services Delivery
0715090	Dyslexia	0730055	Hospices
0715095	Emotional/Mental Health	0730060	Nursing Homes
0715100	Eye Diseases	0730065	Patient Care and Education
0715105	Hyperplasia	0730070	Public Health
0715110	Hypersensitivity		
0715115	Hypertension	0735000	INSTRUMENTS/INSTRUMENTATION/DEVICES
0715120	Immune System Disorders	0735005	Automated Clinical Analysis
0715125	Infectious Diseases/Agents	1004002	Computer-Assisted Design
0715130	Mental Retardation	1004004	Computer Graphics
0715135	Metabolic Diseases	1004005	Computer Modeling
0715140	Neuromuscular Disorders	1004008	Computer Storage & Retrieval
0715145	Obesity	1013038	Electron Microscopy
0715150	Pain	0735015	Instrumentation, Medical
0715155	Perinatal Disorders	1002024	Instrumentation, Biological
0413005	Population Control	1014001	Instrumentation, Scientific
0715160	Pregnancy Disorders	1004020	Library Automation
0715165	Pulmonary Diseases	0706030	Medical/Diagnostic Imaging
0715170	Rheumatic Diseases	1013039	Microscopy
0715175	Safety	1004022	Pattern Recognition
0715180	Senile Dementia	1005020	Remote Sensing
0715185	Skin Diseases	1013034	Spectroscopy
0404019	Smoking Behavior	0607023	Telemetry
0715190	Stillbirth	0607024	Ultrasonic Technology
0715195	Stress		
0715200	Stroke	0740000	INTERVENTION, AGENTS FOR
0715205	Sudden Infant Death Syndrome	0740005	Antibiotics
0404020	Suicide	0740010	Anticonvulsants
0715210	Trauma	0740015	Biological Response Modifiers
0715215	Tumor Immunology	0740020	Chemotherapeutic Agents
0715220	Venereal Diseases	0740025	Pharmaceuticals
0404023	Violent Behavior	0740030	Prosthetic Device, Hearing
		0740035	Prosthetic Device, Heart
0720000	EDUCATION/INSTRUCTION	0740040	Prosthetic Device, Kidney
0502002	Alcohol Education	0740045	Prosthetic Device, Limbs
0720005	Biomedical Research Training	0740050	Prosthetic Device, Neural
0503007	Computer-Assisted Instruction	0740055	Prosthetic Device, Pancreas
0502009	Dental Health Education	0740060	Prosthetic Device, Speech
0502011	Drug Education	0740065	Prosthetic Device, Vision
0502000	Educational/Instructional Programs	0740070	Prosthetic Devices (General)
0507002	Emotionally Disturbed, Educ.	0740075	Vaccine
0507004	Handicapped, Education		
0502017	Health and Safety Education	0745000	INTERVENTION, TYPES OF
0503016	Instructional Materials and Practices	0745005	Chemotherapy
		0745010	Dental Health and Hygiene
0503018	Learning Motivation	0745015	Detoxification
0507005	Learning Disabled, Education	0745020	Diagnosis, Medical
0502024	Medical Education	0745025	Dialysis
0502027	Nursing Education	0745030	Exercise
0502028	Nutrition Education	0745035	Health Promotion
0502045	Pharmacy Education	0745040	Immunosuppression
		0745045	Immunotherapy
0725000	ENVIRONMENT	0745050	Preventive Dentistry
1007001	Biology, Environmental	0745055	Preventive Medicine
1007002	Chemistry, Environmental	0745060	Psychotherapy
0725005	Environmental Health	0415000	Therapy/Rehabilitation
1007003	Environmental Effects	0745065	Transplantation of Organs
0725010	Health and Safety Standards		
0725015	Health, Radiation Effects	0750000	MATERIALS/PRODUCTS
0725020	Occupational Health & Safety	0750005	Biomaterials
0725025	Poison Control	0750010	Blood/Blood Products/Transfusion
1007005	Pollution, Air	0750015	Breast Milk
1007008	Pollution, Water	0750020	Contraceptives
0715175	Safety	0202001	Food Additives
		1009007	Materials, Composite
0730000	HEALTH CARE	1009008	Materials, Polymeric
0730005	Child/Maternal Health	0750025	Natural Products
0730010	Family Health/Planning/Safety		
0730015	Folk Medicine	0755000	METHODOLOGIES/PROCEDURES
0408006	Health Care Economics	0755055	Abortion (Induced)
0730020	Health Care Administration	0755005	Amniocentesis
0730025	Health Facilities Studies	0755010	Bioassay
0730030	Health Insurance		

1002049	Cloning of Cells	0780010	Biomedical Research Resources, Other
1002050	Cloning of Organisms	0780015	Cell Lines
0755020	Disease Model	1103002	Research Libraries
0755025	Drug Design	0780020	Tissue Culture
0755030	Etiology		
0202002	Food Analysis	1014002	SCIENCE PLANNING/POLICY
0755035	Gene Cloning	0201011	Animal Care
0755040	Genetic Manipulation	1014003	Animal Research Policy
0755045	Nucleic Acid Sequencing	0783015	Health Planning/Policy
0413000	Population Studies	0783005	Human Subjects Policy
0755050	Preservation of Organs/Tissue	0783010	Ethics, Medical
0414013	Psychometrics		
0411005	Risk Factors/Analysis	0785000	SPECIALTIES OF MEDICAL AND ALLIED FIELDS
0404021	Surveys and Survey Research	0785005	Aerospace Biomedicine
		0785010	Allergy
0760000	MOLECULAR/CELLULAR ENTITIES	0785015	Anesthesiology
0760005	Collagen	0785020	Audiology
0760010	Endorphins	0785025	Cardiology
0760015	Gene Products	0785030	Chiropractic
0760020	Growth Factors	0785035	Clinical Medicine, General
0760025	Hormones	0785040	Dentistry
0760030	Hybridomas	0785045	Dermatology
0760035	Inhibitors	0785050	Endocrinology
0760040	Lipoproteins	0785055	Epidemiology
0760045	Monoclonal Antibodies	0785060	Gastroenterology
0760050	Neurotransmitters	0785065	Health, Allied Fields
0760055	Opiates	0785070	Hematology
0760060	Peptides	0785075	Medical Genetics
0760065	Prostaglandins	0785080	Medicine, Family Practice
0760070	Proteins and Macromolecules	0785085	Medicine, Internal
0760075	Receptors	0785090	Midwifery
0760080	Recombinant DNA	0785095	Nephrology
		0785100	Neuroanatomy
0765000	NATURAL PROCESSES	0785105	Neuroendocrinology
1002048	Biodegradation	0785110	Neurology
0765005	Bioenergetics	0785115	Neuropharmacology
0765010	Biosynthesis	0785120	Neurosurgery
0765015	Gene Regulation	0785125	Nurse Practitioner
0765020	Metabolism	0785130	Nursing
0765025	Metabolism, Lipid	0785135	Obstetrics-Gynecology
0765030	Metabolism, Mineral	0785140	Oncology
0765035	Pathophysiology	0785145	Ophthalmology
1002042	Reproduction	0785150	Optometry
		0785155	Orthopedics
0770000	PATIENT/VOLUNTEER CLASSIFICATION	0785160	Otorhinolaryngology
0403001	Adolescents	0785165	Pathology
0403019	Adults	0785170	Pediatrics
0770005	Children (Patients)	0785175	Periodontics
0770010	Handicapped/Disabled	0785180	Physical Medicine and Rehabilitation
0770015	Hospitalized Patient		
0403020	Infants	0785185	Psychiatry
0770020	Outpatient	0785190	Radiology
0403017	Volunteers	0785195	Rheumatology
		0785200	Serology
0775000	PHYSIOLOGICAL/DEVELOPMENT PROCESS	0785205	Sports Medicine
0404004	Child Psychology/Development	0785210	Surgery
0414005	Cognitive Development/Process	0785215	Tropical Medicine
0775005	Hearing	0785220	Urology
0413002	Human Reproduction/Fertility	0201058	Veterinary Medicine
0775010	Lactation		
0410001	Language Acquisition/Development	0790000	STRUCTURE/FUNCTION
		1003001	Atomic & Molecular Structure
1002059	Morphogenesis	0790005	Membrane Structure/Function
0775015	Physical Growth/Retardation	0790010	Nucleic Acid Structure/Function
1002034	Physiological Processes		
0775020	Pregnancy	0790015	Ultrastructure
0775025	Prenatal Factors		
0775030	Teratology	0795000	TECHNOLOGY ASSESSMENT/TRANSFER/OUTREACH
1002044	Vertebrate Physiology		
1002046	Vision	0403004	Community/Outreach Programs
		1016002	Technology Assessment
0780000	RESEARCH RESOURCES	1016003	Technology Planning/Policy
002002	Animal Breeding and Facilities	1016004	Technology Transfer
		0795005	Therapy Evaluation

KEYWORD THESAURUS TERMS IN NUMERICAL ORDER

0700000 HEALTH AND SAFETY/MEDICAL SCIENCES/BIOMEDICAL

0201011	Animal Care	0705000	ANATOMICAL SYSTEMS/SITES
0201013	Animal Diseases/Pathology	0705005	Bone Marrow
0201016	Animal Genetics/Breeding	0705010	Brain
0201018	Animal Physiology/Morphology	0705015	Cardiovascular System
0201058	Veterinary Medicine	0705020	Connective Tissue
0202001	Food Additives	0705025	Digestive System
0202002	Food Analysis	0705030	Endocrine System
0401001	Anthropology, Cultural/Social	0705035	Fetus
0403001	Adolescents	0705040	Immune System
0403004	Community/Outreach Programs	0705045	Lymphatic System
0403017	Volunteers	0705050	Musculoskeletal System
0403019	Adults	0705055	Nervous System
0403020	Infants	0705060	Placenta
0404000	Behavioral/Social Studies	0705065	Respiratory System
0404001	Addiction	0705070	Sensory System
0404003	Alcohol/Alcoholism	0705075	Urogenital System
0404004	Child Psychology/Development	0706000	BIOMEDICAL ENGINEERING
0404007	Death and Dying	0706010	Bioelectric Phenomena
0404009	Drugs/Drug Abuse	0706020	Clinical Engineering
0404019	Smoking Behavior	0706030	Medical/Diagnostic Imaging
0404020	Suicide	0706040	Physiological Controls and Systems
0404021	Surveys and Survey Research	0710000	DISCIPLINES/FIELDS
0404023	Violent Behavior	0710005	Adolescent Health
0408006	Health Care Economics	0710010	Aging/Gerontology
0410000	Linguistics/Philology	0710015	Bioengineering
0410001	Language Acquisition/ Development	0710020	Biomechanics
0411005	Risk Factors/Analysis	0710030	Biomedical Research, Multidisciplinary
0413000	Population Studies	0710035	Biotechnology
0413001	Demography	0710040	Chemistry, Clinical
0413002	Human Reproduction/Fertility	0710045	Drug Metabolism
0413003	Migration	0710050	Electrophysiology
0413004	Population Biology	0710055	Enzymology
0413005	Population Control	0710060	Immunochemistry
0414000	Psychology	0710065	Immunogenetics
0414004	Clinical Psychology	0710070	Immunology
0414005	Cognitive Development/ Processes	0710075	Immunopathology
0414006	Developmental Psychology	0710080	Medicinal Chemistry
0414007	Educational Psychology	0710085	Neurophysiology
0414011	Physiological Psychology	0710090	Nuclear Medicine
0414012	Psychobiology	0710095	Nutrition/Dietetics
0414013	Psychometrics	0710100	Pharmacology
0414014	Social Psychology	0710105	Psychopathology
0414015	Behaviorism/Experimental Psychology	0710110	Reproductive Endocrinology
0414020	Psychodynamics	0710115	Reproductive Physiology
0415000	Therapy/Rehabilitation	0710120	Speech Pathology
0417000	Sociology	0710125	Transplantation Immunology
0500000	Education	0710130	Pharmacy
0502000	Educational/Instructional Programs	0715000	DISEASE ENTITIES/MEDICAL
0502002	Alcohol Education	0715005	Accidents
0502009	Dental Health Education	0715010	Arthritis
0502011	Drug Education	0715015	Autoimmunity
0502017	Health and Safety Education	0715020	Behavioral Medicine
0502024	Medical Education	0715025	Biofeedback
0502027	Nursing Education	0715030	Birth/Congenital Defects
0502028	Nutrition Education	0715035	Cancer/Carcinogenesis
0502045	Pharmacy Education	0715040	Cardiovascular Diseases
0503007	Computer-Assisted Instruction	0715045	Communicable Diseases
0503016	Instructional Materials and Practices	0715050	Communicative Disorders, Hearing
0503018	Learning Motivation	0715055	Communicative Disorders, Speech
0507002	Emotionally Disturbed, Educ.	0715060	Convulsive Disorders
0507004	Handicapped, Education	0715070	Death and Dying, Health and Physical Needs
0507005	Learning Disabled, Education	0715075	Diabetes
0607010	Microelectronics	0715080	Diabetic Retinopathy
0607023	Telemetry	0715085	Digestive Diseases and Disorders
0607024	Ultrasonic Technology		

0715090	Dyslexia	0745020	Diagnosis, Medical
0715095	Emotional/Mental Health	0745025	Dialysis
0715100	Eye Diseases	0745030	Exercise
0715105	Hyperplasia	0745035	Health Promotion
0715110	Hypersensitivity	0745040	Immunosuppression
0715115	Hypertension	0745045	Immunotherapy
0715120	Immune System Disorders	0745050	Preventive Dentistry
0715125	Infectious Diseases/Agents	0745055	Preventive Medicine
0715130	Mental Retardation	0745060	Psychotherapy
0715135	Metabolic Diseases	0745065	Transplantation of Organs
0715140	Neuromuscular Disorders	0750000	MATERIALS/PRODUCTS
0715145	Obesity	0750005	Biomaterials
0715150	Pain	0750010	Blood/Blood Products/ Transfusion
0715155	Perinatal Disorders	0750015	Breast Milk
0715160	Pregnancy Disorders	0750020	Contraceptives
0715165	Pulmonary Diseases	0750025	Natural Products
0715170	Rheumatic Diseases	0755000	METHODOLOGIES/PROCEDURES
0715175	Safety	0755005	Amniocentesis
0715180	Senile Dementia	0755010	Bioassay
0715185	Skin Diseases	0755015	Clinical Trial
0715190	Stillbirth	0755020	Disease Model
0715195	Stress	0755025	Drug Design
0715200	Stroke	0755030	Etiology
0715205	Sudden Infant Death Syndrome	0755035	Gene Cloning
0715210	Trauma	0755040	Genetic Manipulation
0715215	Tumor Immunology	0755045	Nucleic Acid Sequencing
0715220	Venereal Diseases	0755050	Preservation of Organs/Tissue
0720000	EDUCATION/INSTRUCTION	0755055	Abortion (Induced)
0720005	Biomedical Research Training	0760000	MOLECULAR/CELLULAR ENTITIES
0725000	ENVIRONMENT	0760005	Collagen
0725005	Environmental Health	0760010	Endorphins
0725010	Health and Safety Standards	0760015	Gene Products
0725015	Health, Radiation Effects	0760020	Growth Factors
0725020	Occupational Health & Safety	0760025	Hormones
0725025	Poison Control	0760030	Hybridomas
0730000	HEALTH CARE	0760035	Inhibitors
0730005	Child/Maternal Health	0760040	Lipoproteins
0730010	Family Health/Planning/Safety	0760045	Monoclonal Antibodies
0730015	Folk Medicine	0760050	Neurotransmitters
0730020	Health Care Administration	0760055	Opiates
0730025	Health Facilities Studies	0760060	Peptides
0730030	Health Insurance	0760065	Prostaglandins
0730035	Health Maintenance Organizations	0760070	Proteins and Macromolecules
0730040	Health Manpower/Professions	0760075	Receptors
0730045	Health Records	0760080	Recombinant DNA
0730050	Health Services Delivery	0765000	NATURAL PROCESSES
0730055	Hospices	0765005	Bioenergetics
0730060	Nursing Homes	0765010	Biosynthesis
0730065	Patient Care and Education	0765015	Gene Regulation
0730070	Public Health	0765020	Metabolism
0735000	INSTRUMENTS/INSTRUMENTATION/ DEVICES	0765025	Metabolism, Lipid
0735005	Automated Clinical Analysis	0765030	Metabolism, Mineral
0735015	Instrumentation, Medical	0765035	Pathophysiology
0740000	INTERVENTION, AGENTS FOR	0770000	PATIENT/VOLUNTEER
0740005	Antibiotics	0770005	Children (Patients)
0740010	Anticonvulsants	0770010	Handicapped/Disabled
0740015	Biological Response Modifiers	0770015	Hospitalized Patient
0740020	Chemotherapeutic Agents	0770020	Outpatient
0740025	Pharmaceuticals	0775000	PHYSIOLOGICAL/DEVELOPMENT PROCESS
0740030	Prosthetic Device, Hearing	0775005	Hearing
0740035	Prosthetic Device, Heart	0775010	Lactation
0740040	Prosthetic Device, Kidney	0775015	Physical Growth/Retardation
0740045	Prosthetic Device, Limbs	0775020	Pregnancy
0740050	Prosthetic Device, Neural	0775025	Prenatal Factors
0740055	Prosthetic Device, Pancreas	0775030	Teratology
0740060	Prosthetic Device, Speech	0780000	RESEARCH RESOURCES
0740065	Prosthetic Device, Vision	0780005	Biologicals Resources
0740070	Prosthetic Devices (General)	0780010	Biomedical Research Resources, Other
0740075	Vaccine	0780015	Cell Lines
0745000	INTERVENTION, TYPES OF	0780020	Tissue Culture
0745005	Chemotherapy	0783005	Human Subjects Policy
0745010	Dental Health and Hygiene	0783010	Ethics, Medical
0745015	Detoxification	1002019	Genetics
0783015	Health Planning/Policy		

0785000	SPECIALTIES OF MEDICAL AND ALLIED FIELDS	1002021	Histology
0785005	Aerospace Biomedicine	1002024	Instrumentation, Biological
0785010	Allergy	1002027	Microbiology
0785015	Anesthesiology	1002028	Mutagenics
0785020	Audiology	1002029	Mycology
0785025	Cardiology	1002030	Neuroscience
0785030	Chiropractic	1002032	Parasitology
0785035	Clinical Medicine, General	1002034	Physiological Processes
0785040	Dentistry	1002040	Plant Sciences
0785045	Dermatology	1002041	Plant Virology
0785050	Endocrinology	1002042	Reproduction
0785055	Epidemiology	1002044	Vertebrate Physiology
0785060	Gastroenterology	1002045	Viral Studies (Virology)
0785065	Health, Allied Fields	1002046	Vision
0785070	Hematology	1002047	Zoology
0785075	Medical Genetics	1002048	Biodegradation
0785080	Medicine, Family Practice	1002049	Cloning of Cells
0785085	Medicine, Internal	1002050	Cloning of Organisms
0785090	Midwifery	1002052	Development, Animal
0785095	Nephrology	1002053	Development, Human
0785100	Neuroanatomy	1002058	Molecular Genetics
0785105	Neuroendocrinology	1002059	Morphogenesis
0785110	Neurology	1003001	Atomic & Molecular Structure
0785115	Neuropharmacology	1003002	Biochemistry
0785120	Neurosurgery	1003003	Chemical Dynamics
0785125	Nurse Practitioner	1003006	Chemical Synthesis
0785130	Nursing	1003008	Chemistry, Analytical
0785135	Obstetrics-Gynecology	1003012	Chemistry, Organic
0785140	Oncology	1003014	Chemistry, Physical
0785145	Ophthalmology	1003015	Biochemistry, Carbohydrates
0785150	Optometry	1003016	Biochemistry, Lipids
0785155	Orthopedics	1003017	Biochemistry, Nucleic Acid
0785160	Otorhinolaryngology	1003018	Biochemistry, Proteins
0785165	Pathology	1003019	Catalysis
0785170	Pediatrics	1003022	Surface Chemistry
0785175	Periodontics	1004000	Computer Science
0785180	Physical Medicine and Rehabilitation	1004002	Computer-Assisted Design
0785185	Psychiatry	1004004	Computer Graphics
0785190	Radiology	1004005	Computer Modeling
0785195	Rheumatology	1004008	Computer Storage & Retrieval
0785200	Serology	1004015	Artificial Intelligence
0785205	Sports Medicine	1004017	Information Science/Systems
0785210	Surgery	1004020	Library Automation
0785215	Tropical Medicine	1004022	Pattern Recognition
0785220	Urology	1005020	Remote Sensing
0790000	STRUCTURE/FUNCTION	1007001	Biology, Environmental
0790005	Membrane Structure/Function	1007002	Chemistry, Environmental
0790010	Nucleic Acid Structure/ Function	1007003	Environmental Effects
0790015	Ultrastructure	1007005	Pollution, Air
0795000	TECHNOLOGY ASSESSMENT/ TRANSFER/OUTREACH	1007008	Pollution, Water
0795005	Therapy Evaluation	1007009	Toxicology
0901026	Management Sciences	1009007	Materials, Composite
1002000	Biological Sciences	1009008	Materials, Polymeric
1002001	Anatomy	1009013	Polymer Science
1002002	Animal Breeding and Facilities	1010013	Statistics
1002003	Bacteriology	1013004	Biophysics
1002004	Biology, Cellular	1013017	Optics
1002006	Biology, Developmental	1013020	Chemical Physics
1002008	Biology, Molecular	1013026	Radiation Physics
1002009	Biology, Radiation	1013034	Spectroscopy
1002012	Biometry	1013038	Electron Microscopy
1002013	Botany	1013039	Microscopy
1002015	Cytology	1014001	Instrumentation, Scientific
1002016	Ecology	1014002	SCIENCE PLANNING/POLICY
1002017	Embryology	1014003	Animal Research Policy
		1016002	Technology Assessment
		1016003	Technology Planning/Policy
		1016004	Technology Transfer
		1103002	Research Libraries