

# NIH GUIDE

# for GRANTS and CONTRACTS

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

Vol. 5, No. 13, August 20, 1976

## IN THIS ISSUE:

### MASS SPECTROMETRY FACILITIES

Notice requesting statement of interest and capabilities on the part of Mass Spectrometry facilities willing to undertake collaboration with clinical investigators.

Page 1

### NOTICE OF AVAILABILITY - NATIONAL STABLE ISOTOPES RESOURCE

The Division of Research Resources, NIH, and the Division of Biomedical and Environmental Research of the Energy Research and Development Administration have established and support a Stable Isotopes Resource (SIR) at the Los Alamos Scientific Laboratory, Los Alamos, New Mexico. Investigators may apply for the use of SIR.

Page 2

### CANCER RESEARCH EMPHASIS GRANTS (CREG)

*Premorbid Psychological Factors as Related to Cancer Incidence* - receipt date for applications of February 1, 1977.

Page 5

### CUMULATIVE CONTENTS - 1976

xi

#### HAVE YOU MOVED?

If your present address differs from that shown on the address label, please send your new address to: Room 2A14, 5333 Westbard Avenue, National Institutes of Health, Bethesda, Maryland 20014, and attach your address label to your letter. Prompt notice of your change of address will prevent your name 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.

MASS SPECTROMETRY FACILITIES



Purpose This notice requests a statement of interest and capabilities on the part of Mass Spectrometry facilities willing to undertake collaboration with clinical investigators from the General Clinical Research Centers grant-supported program of the Division of Research Resources, National Institutes of Health.

The GCRC Branch, DRR, wishes to facilitate the application of gas chromatography-mass spectrometry-computer technology to clinical research in its grant-supported clinical research centers. Its impression is that the use of this technology in patient-oriented investigations is hampered by the lack of available facilities suitable for use with biological materials, and by the lack of familiarity with the technique on the part of medical researchers. To ease these shortages, the DRR intends to provide opportunities for investigators in the GCRC grant program to spend some time at appropriate MS facilities in order to experiment with procedures suitable to their studies.

Statement of Interest This is NOT a request for proposals. If a sufficient number of MS facilities demonstrate interest in this notice to suggest that a competitively awarded contract is feasible, the DRR plans later to issue a formal request for proposals. This would ask for provision of bench space, instrument time, technical help, supplies, and professional assistance to provide over a one-year period from ten to twenty man-months of experience in MS work to selected research investigators from the GCRC-supported grant program. The experience may be for a period of one month or more for each individual investigator. The selection of investigators will be made from recommendations by ad hoc reviewers for the GCRC Branch in consultation with the contractor MS facility.

Response Interested organizations should provide a letter by October 1, 1976, outlining capabilities, available instrumentation, expertise, and previous experience with biological materials. Reply to Dr. William R. DeCesare, Chief, General Clinical Research Centers Branch, DRR, NIH, 9000 Rockville Pike, Bethesda, Maryland 20014.

NOTICE OF AVAILABILITY -  
NATIONAL STABLE ISOTOPES RESOURCE

A N N O U N C E M E N T

The Biotechnology Resources Program of the Division of Research Resources of the National Institutes of Health (NIH) and the Division of Biomedical and Environmental Research of the Energy Research and Development Administration (ERDA) have established and support a Stable Isotopes Resource (SIR) at the Los Alamos Scientific Laboratory, Los Alamos, New Mexico.

SIR

The SIR is dedicated to the development of the Isotopes of Carbon, Oxygen, and Nitrogen (ICONS) in the biosciences, especially within the NIH community, and will have the following functions:

1. The production and provision of an amount of separated  $^{13}\text{C}$ ,  $^{15}\text{N}$ , and  $^{18}\text{O}$  adequate to support the program;
2. The synthesis of labeled compounds for properly accredited investigators when commercial or other sources are not readily available and when the synthetic procedures exist or can be practically developed at the Los Alamos Lab;
3. The development of an active program of research collaboration with investigators in the biosciences community providing, as necessary, isotope labeled compounds, nmr, and isotope-ratio mass spectrometric analysis, and data interpretation;
4. The provision of advice and assistance to properly accredited investigators regarding experimental plans and operations which involve the use of ICONs and the annual publication of a Newsletter to disseminate information on ICONs to investigators in the biosciences;
5. The hosting of visiting scientists for training in the use of stable isotopes and the encouragement of exchanges of talks, short courses, and sabbaticals;
6. The collaboration with other resources in synthesis and mass spectrometric and nmr analyses to accelerate development of isotope methodology;
7. The performance of core research designed to keep the resource at a state-of-the-art level.

ICONS Program

The program encompasses: the separation of the ICONs in large quantities at low cost by the low temperature distillation of carbon monoxide and nitric oxide; the preparation of isotope-labeled compounds by inorganic, organic, and biosynthetic techniques; physical and biological research with isotopically-

labeled materials, using Fourier transform nuclear magnetic resonance and isotope ratio mass spectroscopy; a broad educational program concerning the effective use of stable isotopes including lecture tours, visitor training, and consultation.

#### Availability of the Resource to Investigators

Research investigators wishing to apply for use of the SIR should indicate their interest to and request an application format from:

Dr. N. A. Matwiyoff  
Principal Investigator  
National Stable Isotopes Resource  
Los Alamos Scientific Laboratory  
Los Alamos, New Mexico 87545

#### Application

The application will ask for such information as: name, address, and curriculum vitae of investigators and collaborators; nature of support to be requested from SIR (labeled material, instrumental analysis, data interpretation, cooperative research, etc.); name, structure, etc., of labeled compound requested; other sources of financial support for project; description of preliminary investigations; facilities available for completion of investigation; a description of the specific research plan with background studies.

#### Receipt and Review

Applications may be submitted at any time, but will be held for review by an Advisory Committee which assembles periodically for this purpose.

#### Review and Selection Criteria

The Advisory Committee will review, recommend, and assign a priority rank based on the following criteria:

1. level of scientific merit,
2. relevance to the SIR objectives,
3. the availability of the appropriate resources elsewhere at acceptable cost, and
4. the adequacy of the scientific support for the project at the applicant's parent institution or at other facilities available to the applicant.

The applications should contain sufficient information to enable the advisory committee to make informed judgments on the basis of the criteria above.

Users will be selected by the SIR on the basis of the recommendations of the Advisory Committee and the capacity of the resource. The SIR will notify applicants concerning the results of the review process.

CANCER RESEARCH EMPHASIS GRANTS  
(CREG)

A N N O U N C E M E N T

TITLE - *PREMORBID PSYCHOLOGICAL FACTORS AS RELATED TO  
CANCER INCIDENCE*

*SCIENTIFIC PROGRAM REQUIREMENT* The National Cancer Institute is accepting applications for support of research projects on the relation of premorbid psychological factors to the occurrence of cancer in man. Many workers have reported the presence of such associations, but most of them have tested patients after they had the disease without attempting to deal with its possible effects on test results or on accuracy of recollection. Since cancer is known to produce neurological symptoms in a non-trivial proportion of cases, and to affect the psyche in a considerable proportion of cases, the evidence of these studies is very unconvincing. In the few studies with premorbid test results - clearly uncontaminated by the disease - the number of cases is so small that positive findings are also not convincing. Yet the extensive literature on stress effects in animals and in man, and the relation of personality factors and traumatic events to incidence of other diseases leads one to inquire about a similar relationship for cancer. This research area, therefore, needs more definitive work.

A background paper on the issues in this area written by Dr. Bernard H. Fox will be sent to potential applicants, on request, by Dr. James L. Murray, Division of Cancer Cause and Prevention, National Cancer Institute.

*SIGNIFICANCE TO NCI PROGRAM GOALS* Evidence of the effects of stress and psychological factors on cancer incidence will point to important relationships between the internal milieu (especially hormones and immunocapability) and cancer susceptibility. If personality or stressful events can be related to cancer in general, or to cancer at specific sites, this connection could increase our understanding of the total etiological picture for such sites or cancer in general. Several avenues for improved primary and secondary prevention would then open up.

APPLICATION REQUIREMENTS

1. *ELIGIBILITY* Nonprofit organizations and institutions, State and local governments and their agencies, authorized Federal institutions, and individuals according to NIH grants policies.
2. *THE APPLICATION* Applicants should propose an individual project. Applicants should elaborate on the purposes, objectives, rationale, and significance stated in this announcement and must complete portions of the applications pertaining to procedural details, the investigator's related experience, facilities available, budgets, and biographical information for key professional personnel. The application should also state the duration of time for which the support is requested. It is anticipated that the project period will not exceed five years.

3. SUBMISSION Use application form NIH-398. In both the covering letter and at the top of the space provided for an abstract on page 2 of the application, identify this CREG announcement by its title and the number DCCP-30 and the date of this publication as the one to which the application responds. Mail the application and the covering letter to Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20014.

4. RECEIPT DATE Applications received on or before February 1, 1977, will be processed for study section review in June 1977, and for the National Cancer Advisory Board review in September 1977.

#### REVIEW

Upon receipt, applications will be reviewed by the Division of Research Grants and NCI staff for responsiveness to this announcement. If an application is judged unresponsive, the applicant will be given an opportunity to withdraw the application or to submit it for consideration in the traditional grant programs of NIH. Applications judged responsive will be reviewed initially for scientific merit by DRG study sections and secondly by the National Cancer Advisory Board.

Applicants shall not submit an application in response to a CREG announcement that is identical to one concurrently being considered by NCI or any other NIH awarding units.

For further information potential applicants may contact Dr. James L. Murray, Division of Cancer Cause and Prevention, National Cancer Institute, Bethesda, Maryland 20014, telephone (301) 496-3116.

NIH Guide for Grants and Contracts, Cumulative Contents (continued)

Volume No. 5

Guide No. 1, January 30, 1976

Privacy Act of 1974 . . . . .	1
Travel between U.S. and Canada, Chapter PHS: 1-510 . . . . .	2
Awarding of Indirect Costs for NIH Research Grants . . . . .	3

Guide No. 2, April 1, 1976

Cancer Research Emphasis Grants . . . . .	1
Nutrition Research Grant Applications Sought by the National Institute of Dental Research . . . . .	17
Special Dental Research Award . . . . .	19

Guide No. 3, April 15, 1976

Receipt and Review Dates for Competing Applications . . . . .	1
Notice of Availability - Updated Guidelines . . . . .	2
Clinical Cancer Education Grants . . . . .	2
Request for Research Grant Applications - NICHD . . . . .	5

Guide No. 4, April 21, 1976

Descriptions of NIH Collaborative Programs . . . . .	1
--	---

Guide No. 5, April 28, 1976

Privacy Act of 1974 . . . . .	1
-------------------------------	---

Guide No. 6, May 28, 1976

Senior International Fellowships - Fogarty International Center . . . . .	1
Availability of Chimpanzees for Hepatitis Research . . . . .	4
Research Support in Cellular Aging - National Institute on Aging . . . . .	5
Special Research Awards - National Institute on Aging . . . . .	6
Clinical Investigator Award - National Institute of Arthritis, Metabolism and Digestive Diseases . . . . .	7
NIH Research Career Development Awards . . . . .	8
Research Career Development Awards - National Institute of General Medical Sciences . . . . .	8
Reduction in Reporting Requirements - NIH Manpower Report (Form NIH-1749) . . . . .	9

Guide No. 7, June 10, 1976

Freedom of Information Act of 1974 (P.L. 93-502) . . . . .	1
--	---

NIH Guide for Grants and Contracts, Cumulative Contents (continued)

Guide No. 8, June 25, 1976

Request for Applications - National Institute of Child Health and Human Development . . . . .	1
--	---

Guide No. 9, July 2, 1976

National Research Service Awards for Individual Postdoctoral Fellows . . . . .	1
National Research Service Awards for Institutional Grants . . . . .	7

Guide No. 10, July 12, 1976

PHS Training Grant Application Forms, Research and Non-Research . . . . .	1
Minority Hypertension Research Development Summer Program, Division of Heart and Vascular Diseases, National Heart and Lung Institute . . . . .	1
Young Investigator Research Grant, National Heart and Lung Institute . . . . .	3
Pediatric Clinical Pharmacology Grant Applications Sought by the National Institute of General Medical Sciences . . .	9

Guide No. 11, July 16, 1976

Institutional National Research Service Awards - National Institute of General Medical Sciences . . . . .	1
Individual Postdoctoral National Research Service Awards - National Institute of General Medical Sciences . . . . .	4

Guide No. 12, August 6, 1976

Minority Access to Research Careers (MARC Program) . . . . .	1
Request for Research Grant Applications - National Institute of Child Health and Human Development . . . . .	2
Digestive Diseases and Nutrition Centers . . . . .	2
Guidelines for Program Project Grants - National Institute of Arthritis, Metabolism, and Digestive Diseases . . . . .	3
Corrections: To Guides No. 9, 10, and 11 . . . . .	4
Revision: To Vol. 4, No. 7, page 6, D (Cancer Control Program) . .	4

Guide No. 13, August 20, 1976

Mass Spectrometry Facilities . . . . .	1
Notice of Availability - National Stable Isotopes Resource . . . . .	2
Cancer Research Emphasis Grants . . . . .	5