

NIH GUIDE

for GRANTS and CONTRACTS

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

Vol. 3, No. 10, July 3, 1974

TREATMENT OF COST TRANSFERS BETWEEN PROJECTS

ANNOUNCEMENT

NIH Guide, Vol. 3, No. 7, May 10, 1974, pages 5 and 6, is withdrawn pending reissuance at a later date.

DUPLICATED COPIES OF GRANT APPLICATIONS

ANNOUNCEMENT

When applications for research grants, training grants, or research career development awards are received by the NIH, they are duplicated and several copies returned to the business office of the applicant institution. The copies are intended for the business office, the principal investigator/program director/candidate, and other appropriate institution offices. They provide information concerning the identification number of the application, the initial review group, and the institute that will consider the application for possible funding. The copies also indicate any changes that were made by NIH, and will enable the preparer of the application to determine if an application has been completely assembled and copied.

The institution official who receives the applications should ensure that an NIH-duplicated copy is furnished to the named principal investigator, program director, or candidate.

SPECIAL DENTAL RESEARCH AWARD

ANNOUNCEMENT

In describing the basic and clinical science areas for projects supported by the Special Dental Research Award of the National Institute of Dental Research, *NIH GUIDE*, Vol. 3, No. 7, May 10, 1974, one category inadvertently was omitted: behavioral studies relating to dental problems. The category includes research on psychological and social factors that are associated with dental disease, deter acceptance of preventive and treatment measures, or influence the subjective response to pain.

The GUIDE is published at irregular intervals to provide policy, program, 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.

DEVELOPMENT OF TESTS SUITABLE FOR DETECTING
HUMAN GERMINAL AND SOMATIC CELL MUTATIONS

ANNOUNCEMENT

The National Institute of Environmental Health Sciences is interested in grant proposals for development of methods for testing and evaluating the mutagenicity of environmental agents in individual animals and humans and in their progeny. The intended applications of the tests are to establish:

1. The mutagenic potential of specific agents.
2. The relative frequency of transmissible mutations induced by compounds which act by different mechanisms and exhibit differential action on the various types of stem cells in mammals.

Systems involving plants, insects, microorganisms, viruses, host mediated assay or other aspects of the mutagenic process not reasonably related to the above objectives are not appropriate to this solicitation.

Tests applicable directly to man are limited to readily available fluid and cellular fractions of biopsy and surgical specimens, umbilical cord blood, amniotic fluid, lung and body cavity lavages, semen, blood, lymph and urine. Skillful and novel application of currently acceptable chemical, cytochemical, physical and biological mutation assay systems to these cells and fluids may be adequate, depending upon research strategies. In addition, however, the ingenuity and originality of applicants are solicited toward:

1. Further development and refinement of primary mammalian cell culture techniques and systems in which mutant cells may be distinguished and quantified on the basis of responses to nutrients, mitotic inducers and inhibitors, lytic agents, physical agents, permeability to stains and other types of marker molecules, and/or on the basis of surface and immunological properties;
2. Development of new techniques for identifying aberrant cells, organelles and macromolecules by changes in affinity for specific antibodies tailored to alter the density, charge and other properties of cells and macromolecules in a manner that will facilitate physical separation.

It is anticipated that animal models will be used to develop and to standardize the test procedures. Selection of animals with unusual mutation burdens appears most feasible for this purpose. Examples of such animals are specially bred strains, chemically-induced phenotypic aberrants, survivors of the dominant lethal test, etc., in which a large number of point and other types of mutations may accompany major genetic damage.

The tests should be designed to minimize the number of animals required for statistically meaningful data when applied to population and epidemiological studies. Therefore, development of procedures and systems for simultaneous multiple loci assays are specifically encouraged.

Proposals should be submitted on PHS Form 398 to the Division of Research Grants, National Institutes of Health, Westwood Building, Bethesda, MD 20014. All proposals will be subject to the same review and provisions that prevail for unsolicited proposals. These are described in the green sheet which accompanies Form 398 in the NIH Application Kit.

For further information please contact: Dr. Otto A. Bessey, Associate Director for Extramural Programs, National Institute of Environmental Health Sciences, National Institutes of Health, Westwood Building, Room 404, Bethesda, MD 20014. Telephone: (301)496-7483

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