

MENTAL RETARDATION

Grants

FISCAL YEAR 1970

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



DISCRIMINATION PROHIBITED – Title VI of the Civil Rights Act of 1964 states: "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." Therefore, the programs of financial assistance for the handicapped, like every program or activity receiving financial assistance from the Department of Health, Education, and Welfare, must be operated in compliance with this law.

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Community and Field Services*

The Secretary's Committee on Mental Retardation

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INTRODUCTION

This publication lists the Mental Retardation Project Grants awarded by the Department of Health, Education, and Welfare which had budget periods beginning in fiscal year 1970 (July 1, 1969 – June 30, 1970). It is arranged in two parts: Part I includes a listing of the construction and training grants, while Part II contains a listing of research and demonstration grants.

There are two research and demonstration grant indexes – a subject index and a state index. The subject index classifies the project grant by the narrative abstract statement furnished by the funding agency. The subject in the index is followed by a number assigned to the project grants which will enable a reader to easily locate his area of interest.

A system of classification devised by the Research Subcommittee of the Secretary's Committee on Mental Retardation has been used in arranging the research and demonstration grants in Part II in a systematized manner.

The classification system used for the research and demonstration grants is as follows:

1. Etiology
2. Epidemiology
3. Pathophysiology
4. Diagnosis and/or Evaluation
5. Prevention
6. Amelioration
 - a. Education
 - b. Vocational Rehabilitation
 - c. Medical Treatment
7. Other

In deriving the classification system, the Subcommittee on Research first agreed upon functional definitions for the terms used in the classification system. The definitions are as follows:

1. Etiology includes all factors which cause mental retardation. These may be specific disease entities, trauma, poisonings, or similar factors. All research directly and uniquely related to a single disease agent is included.
2. Epidemiology includes those studies which relate to epidemiology of mental retardation, but not any of the specific diseases. Specific disease entities which might be etiologic agents of mental retardation have their epidemiology studies included under that disease alone.
3. Pathophysiology intends to consider all changes and events which are related to mental retardation and are independent of etiology. It is possible that some of the projects included here apply to several different diseases.
4. Diagnosis and/or Evaluation includes those projects which are related to the evaluation of brain function and the mentally retarded state, rather than a specific disease entity which might cause mental retardation. Diagnostic procedures which are specific for a disease entity are included under studies of that disease under "Etiology."
5. Prevention includes those projects aimed at the prevention of a disease which might possibly result in mental retardation. The disease may be prevented by elimination of some vector or etiological agent.

6. Amelioration includes those projects relating to the training, education, and rehabilitation of the retarded. These projects would have the effect of helping the individuals who are mentally retarded pursue a better life, or help them adjust better to their situation.
7. Other includes those projects which do not appear to clearly fall within the six previous classifications.

An abstract describing the purpose of the research or demonstration project grant is included. Additional information concerning the grants may be secured from the grantee or the agency awarding the grant.

EXPLANATION OF FORMAT

A code precedes the title of the grant followed by the name and address of the grantee in both parts of this publication. The dates indicate the budget period for which funds were made available. Indication is made as to whether the budget period shown represents an initial, continuation, or renewal grant.

Just after the amount of the award are capital letters. These capital letters identify the agency making the award as follows:

HSMHA: Health Services and Mental Health Administration

CHS: Community Health Services

P: Partnership for Health 314(e) program

HFPCS: Health Facilities Planning and Construction Service

MCHS: Maternal and Child Health Service

NIMH: National Institute of Mental Health

NIH: National Institutes of Health

NICHHD: National Institute of Child Health and Human Development

NINDS: National Institute of Neurological Diseases and Stroke

OE: Office of Education

OSPU: Office of Surplus Property Utilization

SRS: Social and Rehabilitation Service

ORD: Office of Research and Demonstration

RSA: Rehabilitation Services Administration

DMR: Division of Mental Retardation

DRF: Division of Rehabilitation Facilities

CSA: Community Services Administration

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CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

ALABAMA

TRAINING

- 01B004 A PROGRAM FOR THE TRAINING OF CLINICAL PSYCHOLOGISTS IN THE FIELD OF MENTAL RETARDATION, UNIVERSITY OF ALABAMA, BIRMINGHAM
6/1/70-5/31/71, CONTINUATION, \$71,522. SRS-DMR
- 01B006 A PROPOSAL TO ESTABLISH A TRAINING PROGRAM FOR ADMINISTRATORS AND PROGRAM DIRECTORS OF MENTAL RETARDATION FACILITIES, UNIVERSITY OF ALABAMA, BIRMINGHAM
7/1/70-6/30/71, INITIAL, \$67,750. SRS-DMR
- 01B010 CENTER FOR DEVELOPMENTAL AND LEARNING DISORDERS UNIVERSITY OF ALABAMA, BIRMINGHAM
1/1/70-12/31/70, CONTINUATION, \$651,635. HSMHA-MCHS
- 01B015 CYTOGENETIC STUDIES IN MENTAL RETARDATION AND BIRTH DEFECTS UNIVERSITY OF ALABAMA, BIRMINGHAM
7/1/69-6/30/70, CONTINUATION, \$42,732. HSMHA-MCHS
- 01B021 EXPERIMENTAL PSYCHOLOGY, UNIVERSITY OF ALABAMA, BIRMINGHAM, ALABAMA,
7/70-6/71, CONTINUATION, \$46,327. NICHD
- 01B025 INTENSIVE INDIVIDUAL TRAINING UNIT, PARTLOW STATE SCHOOL AND HOSPITAL, TUSCALOOSA
6/1/70-5/31/71, CONTINUATION, \$85,454. SRS-DMR
- 01B026 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF ALABAMA, BIRMINGHAM, ALABAMA,
6/1/70-8/31/71, RENEWAL, \$30,000. OE
- 01B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ALABAMA AGRICULTURAL AND MECHANICAL COLLEGE, NORMAL
6/1/70-8/31/71, RENEWAL, \$14,600. OE
- 01B031 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, TROY STATE UNIVERSITY, TROY, ALABAMA,
6/1/70-8/31/71, INITIAL, \$15,000. OE
- 01B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN AUBURN UNIVERSITY, AUBURN
6/1/70-8/31/71, RENEWAL, \$25,200. OE
- 01B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, MONTGOMERY
6/1/70-8/31/71, RENEWAL, \$73,197. OE
- 01B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TUSKEGEE INSTITUTE, TUSKEGEE
6/1/70-8/31/71, RENEWAL, \$17,700. OE
- 01B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ALABAMA, BIRMINGHAM
FY 1969, RENEWAL, \$39,300. OE
- 01B064 REGIONAL TRAINING CENTER IN MENTAL RETARDATION, UNIVERSITY OF ALABAMA, BIRMINGHAM
6/1/70-5/31/71, CONTINUATION, \$82,288. SRS-DMR

CONSTRUCTION

- 01C005 COMMUNITY FACILITIES CONSTRUCTION, LURLEEN B. WALLACE MR HOSPITAL, DECATUR
6/12/69, INITIAL, \$94,700. SRS-DMR

- 01C025 COMMUNITY FACILITIES CONSTRUCTION, MOBILE DEVELOPMENTAL CENTER (YOUNG ADULT VOCATIONAL TRAINING CENTER), MOBILE 3/27/70, INITIAL, \$181,693. HSMHA-HFPCS

OTHER

- 01D002 DIAGNOSTIC AND GUIDANCE CENTER, CHILDREN'S CENTER OF MONTGOMERY STATE DEPARTMENT OF PUBLIC WELFARE, MONTGOMERY
7/1/69-6/30/70, CONTINUATION, \$64,400. HSMHA-MCHS
- 01D003 DIAGNOSTIC SERVICE FOR MENTALLY RETARDED CHILDREN, UNIVERSITY OF ALABAMA, BIRMINGHAM STATE DEPARTMENT OF PUBLIC HEALTH, MONTGOMERY
1/1/70-12/31/70, CONTINUATION, \$54,140. HSMHA-MCHS
- 01D010 MR INITIAL STAFFING, AID FOR RETARDED CHILDREN ASSOC., OF JEFFERSON COUNTY, BIRMINGHAM
9/1/70-8/31/71, CONTINUATION, \$64,358. SRS-DMR
- 01D015 MR INITIAL STAFFING, AID FOR RETARDED CHILDREN ASSOC., INC. OF MADISON COUNTY, HUNTSVILLE
9/1/70-8/31/71, CONTINUATION, \$29,736. SRS-DMR
- 01D022 MR INITIAL STAFFING LURLEEN B. WALLACE DEVELOPMENTAL CENTER, DECATUR, ALABAMA
9/1/70-8/31/71, INITIAL, \$165,028. SRS-DMR
- 01D025 MR INITIAL STAFFING, MARSHALL COUNTY ASSOCIATION FOR RETARDED CHILDREN, INC., ARAB
8/1/70-7/31/71, CONTINUATION, \$18,440. SRS-DMR
- 01D027 MR INITIAL STAFFING, MORGAN-LAWRENCE LIMESTONE UNIT OF THE ALABAMA ARC, DECATUR
8/1/70-7/31/71, INITIAL, \$27,048. SRS-DMR
- 01D030 MR INITIAL STAFFING, MORGAN-LAWRENCE LIMESTONE UNIT OF THE ALA. ARC, DECATUR
8/1/70-7/31/71, CONTINUATION, \$13,837. SRS-DMR
- 01D035 MR INITIAL STAFFING, REHABILITATION CENTER FOR THE CRIPPLED, HUNTSVILLE
7/1/70-6/30/71, CONTINUATION, \$15,408. SRS-DMR
- 01D040 THE ADOLESCENT DEVELOPMENT PROJECT, SPASTIC AID OF ALABAMA, INC., BIRMINGHAM
6/1/70-6/14/71, INITIAL, \$19,414. SRS-DMR
- 01D045 STUDENT WORK EXPERIENCE AND TRAINING, UNIVERSITY OF ALABAMA, BIRMINGHAM
6/15/70-6/14/71, INITIAL, \$11,288. SRS-DMR

ALASKA

TRAINING

- 02B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, JUNEAU
6/1/70-8/31/71, RENEWAL, \$10,100. OE

OTHER

- 02D010 CHILD STUDY CENTER, ANCHORAGE STATE DEPARTMENT OF HEALTH AND WELFARE, JUNEAU
7/1/69-6/30/70, CONTINUATION, \$50,000. HSMHA-MCHS
- 02D020 MR INITIAL STAFFING, ANCHORAGE RETARDED CHILDREN ASSOCIATION
7/1/70-6/30/71, INITIAL, \$29,100. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

ARIZONA

TRAINING

- 04B005 INSERVICE TRAINING PROGRAM FOR ATTENDANT PERSONNEL MR ARIZONA CHILDREN'S COLONY, COOLIDGE
7/1/70-6/30/71, CONTINUATION, \$23,759. SRS-DMR
- 04B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ARIZONA STATE UNIVERSITY, TEMPE
6/1/70-8/31/71, RENEWAL, \$43,900. OE
- 04B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHERN ARIZONA UNIVERSITY, FLAGSTAFF
6/1/70-8/31/71, RENEWAL, \$28,000. OE
- 04B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, PHOENIX
6/1/70-8/31/71, RENEWAL, \$26,250. OE
- 04B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ARIZONA, TUCSON
6/1/70-8/31/71, RENEWAL, \$41,400. OE

OTHER

- 04D005 A DEVELOPMENTAL PROGRAM FOR THE SEVERELY RETARDED, ARIZONA CHILDREN'S COLONY, COOLIDGE
2/1/70-1/31/71, CONTINUATION, \$89,610. SRS-DMR
- 04D009 ADVENTURE '69 IN '70, ARIZONA ASSOCIATION FOR RETARDED CHILDREN, PHOENIX
6/25/70-7/31/70, INITIAL, \$4,350. SRS-DMR
- 04D020 CHILD DEVELOPMENTAL CENTER, MARICOPA COUNTY STATE DEPARTMENT OF HEALTH, PHOENIX
7/1/69-6/30/70, CONTINUATION, \$181,636. HSMHA-MCHS
- 04D025 CHILDREN'S EVALUATION CENTER, SOUTHERN ARIZONA, PIMA COUNTY STATE DEPARTMENT OF HEALTH, PHOENIX
7/1/69-6/30/70, CONTINUATION, \$109,984. HSMHA-MCHS
- 04D036 MR INITIAL STAFFING, COCONINO COUNTY ARC, FLAGSTAFF
7/1/70-6/30/71, INITIAL, \$10,857. SRS-DMR
- 04D038 MR INITIAL STAFFING, GREENLEE COUNTY ARC, MORENO
9/1/70-8/31/71, INITIAL, \$19,517. SRS-DMR
- 04D040 MR INITIAL STAFFING, DOUGLAS ASSOCIATION FOR RETARDED CHILDREN, DOUGLAS
9/1/70-8/31/71, CONTINUATION, \$3,307. SRS-DMR
- 04D041 INITIAL STAFFING, GILA COUNTY ASSOCIATION FOR RETARDED CHILDREN, GLOBE
9/1/70-8/31/71, INITIAL, \$15,900. SRS-DMR
- 04D042 MR INITIAL STAFFING, GRAHAM COUNTY ASSOCIATION FOR RETARDED CHILDREN, THATCHER
9/1/70-8/31/71, INITIAL, \$4,631. SRS-DMR
- 04D043 INITIAL STAFFING, HANDICAPPED CHILDREN'S DEVELOPMENT CENTER, PRESCOTT
7/1/70-6/30/71, INITIAL, \$6,016. SRS-DMR
- 04D047 MR INITIAL STAFFING, PINAL COUNTY ACCOMMODATION SCHOOLS, FLORENCE
9/1/70-8/31/71, INITIAL, \$7,795. SRS-DMR
- 04D049 MR INITIAL STAFFING, PINAL COUNTY SPECIAL EDUCATION PROGRAM, FLORENCE
9/1/70-8/31/71, INITIAL, \$18,315. SRS-DMR
- 04D051 MR INITIAL STAFFING, ST. MICHAELS ASSOCIATION FOR SPECIAL EDUCATION, INC., ST. MICHAELS
9/1/70-8/31/71, INITIAL, \$67,019. SRS-DMR
- 04D053 MR INITIAL STAFFING, THE SALVATION ARMY, SOUTHWEST DIVISION, A CALIFORNIA CORPORATION
9/1/70-8/31/71, INITIAL, \$32,670. SRS-DMR
- 04D055 MR INITIAL STAFFING, SANTA CRUZ COUNTY ASSOC. FOR MENTALLY RETARDED CHILDREN, INC., NOGALES
9/1/70-8/31/71, CONTINUATION, \$13,929. SRS-DMR

- 04D065 MR INITIAL STAFFING, VALLEY OF THE SUN SCHOOL, PHOENIX
9/1/70-8/31/71, CONTINUATION, \$24,612. SRS-DMR
- 04D070 MR INITIAL STAFFING, YUMA COUNTY ASSOCIATION FOR RETARDATE, INC., YUMA
8/1/70-7/31/71, CONTINUATION, \$6,904. SRS-DMR
- 04D072 PROJECT DEVELOPMENT MESA ASSOCIATION FOR RETARDED CHILDREN, MESA
6/15/70-6/14/71, INITIAL, \$4,455. SRS-RSA
- 04D080 STUDENT WORK EXPERIENCE AND TRAINING, ARIZONA CHILDREN'S COLONY, COOLIDGE
6/25/70-10/31/70, INITIAL, \$9,017. SRS-DMR
- 04D085 STUDENT WORK EXPERIENCE AND TRAINING, SANTA CRUZ ASSOCIATION FOR RETARDED CHILDREN, NOGALES
6/25/70-8/15/70, INITIAL, \$1,056. SRS-DMR

ARKANSAS

TRAINING

- 05B005 INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR ARKANSAS CHILDREN'S COLONY, CONWAY
7/1/70-6/30/71, RENEWAL, \$22,500. SRS-DMR
- 05B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE COLLEGE OF ARKANSAS, CONWAY, ARKANSAS
6/1/70-8/31/71, RENEWAL, \$47,300. OE
- 05B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ARKANSAS STATE UNIVERSITY, STATE UNIVERSITY, ARKANSAS
6/1/70-8/31/71, RENEWAL, \$23,000. OE
- 05B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, LITTLE ROCK
6/1/70-8/31/71, RENEWAL, \$68,950. OE
- 05B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ARKANSAS, FAYETTEVILLE
6/1/70-8/31/71, RENEWAL, \$8,700. OE

CONSTRUCTION

- 05C002 COMMUNITY FACILITIES CONSTRUCTION, NORTH HILL EXCEPTIONAL CHILDREN'S SCHOOL, NORTH LITTLE ROCK
5/22/70, INITIAL, \$56,083. SRS-DMR.
- 05C005 COMMUNITY FACILITIES CONSTRUCTION, TEXARKANA SPECIAL EDUCATION KINDERGARTEN, TEXARKANA
6/30/70, INITIAL, \$71,144. SRS-DMR

OTHER

- 05D005 CHILD DEVELOPMENT CENTER, LITTLE ROCK STATE BOARD OF HEALTH, LITTLE ROCK
7/1/69-6/30/70, CONTINUATION, \$68,142. HSMHA-MCHS
- 05D010 FACILITY IMPROVEMENT GRANT ABILITIES UNLIMITED, INC., HOT SPRINGS
5/1/70-4/30/71, CONTINUATION, \$6,088. SRS-RSA
- 05D015 FACILITY IMPROVEMENT GRANT ABILITIES UNLIMITED, INC., MAGNOLIA
6/1/70-5/31/71, CONTINUATION, \$5,674. SRS-RSA
- 05D026 PROGRAM AND STAFF DEVELOPMENT FOR COMMUNITY DAY SERVICE CENTERS, CONWAY
6/15/70-6/14/71, INITIAL, \$19,933. SRS-DMR
- 05D030 TRAINING FOR THE PROFOUND RETARDATE, ARKANSAS CHILDREN'S COLONY, CONWAY
5/1/70-12/31/70, INITIAL, \$6,496. SRS-DMR
- 05D035 MR INITIAL STAFFING, ARKANSAS SOCIETY FOR CRIPPLED CHILDREN, PINE BLUFF
9/1/70-8/31/71, CONTINUATION, \$11,745. SRS-DMR
- 05D037 MR INITIAL STAFFING, ARKANSAS SOCIETY FOR CRIPPLED CHILDREN, PINE BLUFF
7/1/70-6/30/71, INITIAL, \$21,000. SRS-DMR
- 05D040 MR INITIAL STAFFING, BOST SCHOOL FOR LIMITED CHILDREN, INC., FORT SMITH
9/1/70-8/31/71, CONTINUATION, \$10,946. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 05D045 MR INITIAL STAFFING, HOT SPRING COUNTY ASSOCIATION FOR RETARDED CHILDREN, MALVERN 7/1/70-6/30/71, INITIAL, \$21,540. SRS-DMR
- 05D050 MR INITIAL STAFFING, UNITED CEREBRAL PALSY OF CENTRAL ARKANSAS, LITTLE ROCK, 7/1/70-6/30/71, INITIAL, \$34,518. SRS-DMR

CALIFORNIA

TRAINING

- 06B005 CONTINUING EDUCATION-MENTAL RETARDATION UNIVERSITY OF CALIFORNIA, LOS ANGELES, 7/1/70-6/30/71 CONTINUATION, \$40,860. NIMH
- 06B010 CYTOGENETIC LAB IN A CHILD DEVELOPMENT AND MENTAL RETARDATION CENTER LOS ANGELES COUNTY GENERAL HOSPITAL, LOS ANGELES 7/1/69-6/30/70, CONTINUATION, \$75,118. HSMHA-MCHS
- 06B015 CYTOGENETIC UNIT CHILDREN'S HOSPITAL OF LOS ANGELES, LOS ANGELES 7/1/69-6/30/70, CONTINUATION, \$138,756. HSMHA-MCHS
- 06B020 FIELD INSTRUCTION OF REHABILITATION COUNSELING CALIFORNIA STATE COLLEGE, LOS ANGELES 9/1/69-8/31/70, CONTINUATION, \$47,957. SRS-RSA
- 06B025 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS SAN DIEGO STATE COLLEGE, SAN DIEGO 6/15/70-6/14/71, CONTINUATION, \$12,438. SRS-RSA
- 06B030 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF CALIFORNIA, BERKELEY 9/1/69-8/31/70, CONTINUATION, \$39,979. SRS-RSA
- 06B035 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF CALIFORNIA, LOS ANGELES 7/1/69-8/31/70, CONTINUATION, \$42,098. SRS-RSA
- 06B040 GRADUATE PEDODONTIC TRAINING - HANDICAPPED CHILDREN UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES 7/1/69-6/30/70, CONTINUATION, \$72,478. HSMHA-MCHS
- 06B045 INSERVICE TRAINING PRIMARILY FOR NURSING STAFF MR SONOMA STATE HOSPITAL, ELDRIDGE 7/1/69-6/30/70, RENEWAL, \$23,635. SRS-DMR
- 06B047 INSTITUTE ON EARLIER DETECTION AND TREATMENT OF HANDICAPPING CONDITIONS IN CHILDHOOD, UNIVERSITY OF CALIFORNIA, BERKELEY 7/1/69-6/30/70, INITIAL, \$20,000. HSMHA-MCHS
- 06B048 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT- UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA, 6/1/70-8/31/71, RENEWAL, \$25,000. OE
- 06B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CALIFORNIA STATE COLLEGE AT FULLERTON, FULLERTON FY 1969, RENEWAL, \$48,300. OE
- 06B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CALIFORNIA STATE COLLEGE AT LONG BEACH, LONG BEACH FY 1969, RENEWAL, \$35,800. OE
- 06B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CALIFORNIA STATE COLLEGE AT LOS ANGELES, LOS ANGELES 6/1/70-8/31/71, RENEWAL, \$75,400. OE
- 06B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN FRESNO STATE COLLEGE, FRESNO 6/1/70-8/31/71, RENEWAL, \$21,200. OE
- 06B075 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SAN DIEGO STATE COLLEGE, SAN DIEGO 6/1/70-8/31/71, RENEWAL, \$33,000. OE
- 06B080 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SAN FRANCISCO STATE COLLEGE, SAN FRANCISCO 6/1/70-8/31/71, RENEWAL, \$105,500. OE
- 06B085 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SAN JOSE STATE COLLEGE, SAN JOSE 6/1/70-8/31/71, RENEWAL, \$51,700. OE
- 06B090 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SONOMA STATE COLLEGE, SONOMA 6/1/70-8/31/71, RENEWAL, \$11,500. OE
- 06B100 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES 6/1/70-8/31/71, RENEWAL, \$45,600. OE
- 06B105 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE EDUCATION AGENCY, SACRAMENTO 6/1/70-8/31/71, RENEWAL, \$56,972. OE
- 06B110 PSYCHIATRY-MENTAL RETARDATION UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, 7/1/70-6/30/71 CONTINUATION, \$113,310. NIMH
- 06B111 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, SACRAMENTO STATE COLLEGE, SACRAMENTO, CALIFORNIA, 6/1/70-8/31/71, INITIAL \$21,200. OE
- 06B112 REHABILITATION TRAINING CENTER IN MENTAL RETARDATION, CALIFORNIA STATE COLLEGE AT LOS ANGELES FOUNDATION, LOS ANGELES 9/1/70-8/31/71, INITIAL, \$54,000. SRS-DMR
- 06B113 RESEARCH TRAINING IN MENTAL RETARDATION, UCLA, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA, 7/70-6/71, INITIAL, \$132,525. NICHD
- 06B114 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, SAN FERNANDO VALLEY STATE COLLEGE, NORTHRIDGE, CALIFORNIA, 6/1/70-8/31/71, INITIAL, \$8,700. OE
- 06B115 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, UNIVERSITY OF SAN DIEGO, SAN DIEGO, CALIFORNIA, 6/1/70-8/31/71, INITIAL, \$21,500. OE
- 06B116 SUMMER WORK STUDY PROGRAM IN MENTAL RETARDATION, STATE OF CALIFORNIA, SACRAMENTO 6/1/70-5/31/72, CONTINUATION, \$30,297. SRS-DMR
- 06B120 TRAINING SERVICES GRANT COMMUNITY REHABILITATION INDUSTRIES, LONG BEACH 6/25/69-6/24/70, RENEWAL, \$161,500. SRS-RSA
- 06B125 TRAINING OF STAFF IN AN INDUSTRIAL THERAPY APPROACH MR PACIFIC STATE HOSPITAL, POMONA 7/1/70-6/30/71, CONTINUATION, \$23,749. SRS-DMR
- 06B130 TRAINING PROGRAM FOR METABOLIC DISORDERS CHILDREN'S HOSPITAL OF LOS ANGELES, LOS ANGELES 7/1/69-6/30/70, CONTINUATION, \$215,880. HSMHA-MCHS
- 06B135 TRAINING PROGRAM FOR RETARDED BLIND AND DEAF CHILDREN, SONOMA STATE HOSPITAL, ELDRIDGE 12/1/68-11/30/69, RENEWAL, \$94,473. SRS-DMR
- 06B145 TRAINING PROGRAM IN MENTAL RETARDATION UNIVERSITY OF CALIFORNIA, BERKELEY 7/1/68-6/30/69, RENEWAL, \$129,617 SRS-CB
- 06B150 UNIVERSITY-AFFILIATED TRAINING - MULTIHANDICAPPED CHILDREN CHILDREN'S HOSPITAL OF LOS ANGELES, LOS ANGELES 7/1/69-6/30/70, CONTINUATION, \$466,736. HSMHA-MCHS
- 06B155 WORKSHOPS IN MENTAL RETARDATION PROGRAM: AREA BOARDS TRAINING, CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH, BERKELEY 6/25/70-12/31/70, INITIAL, \$10,000. SRS-DMR
- 06B156 WORKSHOP ON EXTENSION OF SERVICES FOR THE MENTALLY RETARDED IN RURAL AREAS, UNIVERSITY OF CALIFORNIA, BERKELEY 7/1/69-6/30/70, INITIAL, \$8,478. HSMHA-MCHS

CONSTRUCTION

- 06C005 COMMUNITY FACILITIES CONSTRUCTION, DEVELOPMENT CENTERS FOR HANDICAPPED MINORS, GILROY 7/1/69, INITIAL, \$98,607. SRS-DMR
- 06C010 COMMUNITY FACILITIES CONSTRUCTION, MARTIN LUTHER KING GENERAL HOSPITAL-MR PROGRAM, LOS ANGELES

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

6/29/70, INITIAL, \$359,600. SRS-DMR
06C015 COMMUNITY FACILITIES CONSTRUCTION, STOCKTON
DEVELOPMENTAL CENTER, STOCKTON
12/12/69, INITIAL, \$291,627. SRS-DMR

OTHER

06D005 AN ADMISSION-RELEASE PROGRAM FOR SEVERELY
RETARDED, PACIFIC STATE HOSPITAL, POMONA
2/1/70-1/31/71, CONTINUATION, \$93,223. SRS-DMR
06D007 CHILD DIAGNOSTIC AND EVALUATION CLINIC FOR
FUNCTIONAL RETARDATION, CONTRA COSTA
COUNTY COMMUNITY MENTAL HEALTH SERVICES,
MARTINEZ
6/25/70-5/31/71, INITIAL, \$60,632. SRS-DMR
06D010 COLLABORATIVE STUDY OF TREATED PKU CHILDREN
CHILDREN'S HOSPITAL OF LOS ANGELES, LOS
ANGELES
7/1/69-6/30/70, CONTINUATION, \$153,559. HSMHA-MCHS
06D020 DAWN CENTER PRE-NURSERY PROGRAM ASSOCIATION
FOR RETARDED CHILDREN OF WASHINGTON
TOWNSHIP, FREMONT
6/25/70-5/31/71, INITIAL, \$23,456. SRS-DMR
06D045 MENTAL RETARDATION DIAGNOSTIC FIELD CLINICS,
CHILDREN'S HOSPITAL OF LOS ANGELES, LOS
ANGELES STATE DEPARTMENT OF PUBLIC HEALTH,
BERKELEY
7/1/69-6/30/70, CONTINUATION, \$103,512. HSMHA-MCHS
06D050 MENTALLY RETARDED PREVIOUSLY
INSTITUTIONALIZED INTEGRATED INTO
COMMUNITY RECREATION RECREATION CENTER
FOR THE HANDICAPPED, INC., SAN FRANCISCO
6/1/70-5/31/71, CONTINUATION, \$39,203. CHS-P
06D052 STUDENT WORK EXPERIENCE AND TRAINING,
CAMARILLO STATE HOSPITAL, CAMARILLO
6/25/70-5/31/71, INITIAL, \$9,504. SRS-DMR
06D055 MR INITIAL STAFFING, CHRISTIAN WELFARE SOCIETY,
SAN FRANCISCO
8/1/69-7/31/70, INITIAL, \$34,830. SRS-DMR
06D056 MR INITIAL STAFFING, DEWITT STATE SCHOOL-
HOSPITAL, AUBURN
6/25/70-9/30/70, INITIAL, \$8,460. SRS-DMR
06D060 MR INITIAL STAFFING, DUBNOFF SCHOOL FOR
EDUCATION THERAPY, INC., NORTH HOLLYWOOD
7/1/70-6/30/71, CONTINUATION, \$23,733. SRS-DMR
06D065 MR INITIAL STAFFING, EAST BAY ASSOC. FOR
RETARDED CHILDREN, INC., SAN LEANDRO,
7/1/70-6/30/71, CONTINUATION, \$53,929. SRS-DMR
06D070 MR INITIAL STAFFING, FRESNO ASSOCIATION FOR THE
MENTALLY RETARDED, FRESNO
10/1/69-9/30/70, INITIAL, \$63,825. SRS-DMR
06D075 MR INITIAL STAFFING, GOOD SHEPHERD LUTHERAN
HOME, TERRA BELLA
7/1/70-6/30/71, INITIAL, \$36,596. SRS-DMR
06D077 MR INITIAL STAFFING, INTERCOMMUNITY
EXCEPTIONAL CHILDREN'S HOME, LONG BEACH
9/1/70-8/31/71, INITIAL, \$40,372. SRS-DMR
06D080 MR INITIAL STAFFING, LAS TRAMPAS SCHOOL, INC.,
LAFAYETTE
9/1/69-8/31/70, INITIAL, \$101,877. SRS-DMR
06D085 MR INITIAL STAFFING, LUTHERAN ASSOC. FOR
RETARDED CHILDREN, INC., LAKESIDE
7/1/70-6/30/71, CONTINUATION, \$62,365. SRS-DMR
06D090 MR INITIAL STAFFING, MARIN AID TO RETARDED
CHILDREN, SAN RAFAEL
7/1/70-6/30/71, CONTINUATION, \$6,650. SRS-DMR
06D092 MR INITIAL STAFFING, NAPA COUNCIL FOR RETARDED
CHILDREN, INC., NAPA
8/1/70-7/31/71, INITIAL, \$20,625. SRS-DMR
06D095 MR INITIAL STAFFING, RECREATION CENTER FOR THE
HANDICAPPED, SAN FRANCISCO
7/1/70-6/30/71, CONTINUATION, \$23,367. SRS-DMR
06D100 MR INITIAL STAFFING, REGIONAL CENTER OF LOS
ANGELES, LOS ANGELES
7/1/70-6/30/71, CONTINUATION, \$7,648. SRS-DMR
06D105 MR INITIAL STAFFING, SAN DIEGO ASSOC. FOR
RETARDED CHILDREN, SAN DIEGO
12/1/69-11/30/70, INITIAL, \$43,050. SRS-DMR
06D110 MR INITIAL STAFFING, SAN FERNANDO VALLEY ASSOC.
FOR RETARDED CHILDREN, SEPULVEDA

9/1/69-8/31/70, INITIAL, \$15,770. SRS-DMR
06D115 NORTHERN CALIFORNIA REGIONAL CHILD
DEVELOPMENT CENTER, CHILDREN'S HOSPITAL OF
EAST BAY, OAKLAND STATE DEPARTMENT OF
PUBLIC HEALTH, BERKELEY
7/1/69-6/30/70, CONTINUATION, \$134,442. HSMHA-MCHS
06D117 PROJECT FOR EXCEPTIONAL CHILDREN, MISSION
NEIGHBORHOOD HEALTH CENTER, SAN FRANCISCO
6/25/70-5/31/71, INITIAL, \$24,310. SRS-DMR
06D118 PROJECT DEVELOPMENT FOUNDATION FOR
RETARDED CHILDREN OF THE DESERT, PALM
DESERT
6/15/70-6/14/71, INITIAL, \$4,356. SRS-RSA
06D122 SOCIAL DEVELOPMENT CENTER, SAN FRANCISCO AID
TO RETARDED CHILDREN, SAN FRANCISCO
1/1/70-12/31/70, CONTINUATION, \$60,507. SRS-DMR
06D125 STANDARDIZATION PROCEDURES IN PKU UNIVERSITY
OF SOUTHERN CALIFORNIA, LOS ANGELES
7/1/69-6/30/70, CONTINUATION, \$38,308. HSMHA-MCHS
06D127 STUDENT WORK EXPERIENCE AND TRAINING, SAN
JOAQUIN COUNTY MENTAL HEALTH SERVICE
MENTAL RETARDATION CENTER, STOCKTON
6/25/70-9/30/70, INITIAL, \$5,304. SRS-DMR
06D128 STUDENT WORK EXPERIENCE AND TRAINING, THE
CHILDREN'S HEALTH COUNCIL, PALO ALTO,
CALIFORNIA
6/25/70-8/31/70, INITIAL, \$1,344. SRS-DMR
06D130 STUDIES AND SERVICES IN DETECTING HERITABLE
DISEASES OF THE NEWBORN, BERKELEY STATE
DEPARTMENT OF PUBLIC HEALTH, BERKELEY
7/1/69-6/30/70, CONTINUATION, \$109,353. HSMHA-MCHS
06D132 MR INITIAL STAFFING, THE STANISLAUS ASSOCIATION
FOR RETARDED CHILDREN, INC., MODESTO
9/1/70-8/31/71, INITIAL, \$31,928. SRS-DMR
06D135 TOTAL CARE OF THE MULTIPLY HANDICAPPED CHILD,
PORTERVILLE STATE HOSPITAL, PORTERVILLE
6/1/70-5/31/71, CONTINUATION, \$66,839. SRS-DMR

COLORADO

TRAINING

08B002 HOSPITAL INSERVICE TRAINING, MR CENTER,
COLORADO DEPARTMENT OF INSTITUTIONS, PUEBLO
9/1/70-8/31/71, INITIAL, \$22,266. SRS-DMR
08B003 INSERVICE TRAINING, MR. STATE HOME AND TRAINING
SCHOOL, WHEAT RIDGE
7/1/70-6/30/71, INITIAL, \$21,381. SRS-DMR
08B005 A MULTIDISCIPLINARY POST GRADUATE TRAINING
PROGRAM IN MENTAL RETARDATION THE
UNIVERSITY OF COLORADO MEDICAL CENTER,
DENVER
FY 1969, RENEWAL, \$177,372. SRS-P
08B010 ENRICHED TRAINING PROGRAM WITH TOTAL STAFF
INVOLVEMENT MR STATE HOME AND TRAINING
SCHOOL, GRAND JUNCTION
7/1/69-6/30/70, INITIAL, \$24,655. SRS-DMR
08B015 FIELD INSTRUCTION OF SOCIAL WORK UNIVERSITY OF
DENVER, DENVER
6/1/69-5/31/70, RENEWAL, \$49,148. SRS-RSA
08B017 FOLLOW-UP CARE FOR MENTALLY RETARDED YOUNG
ADULTS LARADON HALL SOCIETY DENVER
6/1/70-10/30/70, INITIAL, \$7,011. SRS-DMR
08B020 INSERVICE TRAINING FOR NON-PROFESSIONAL AND
PROFESSIONAL STAFF MR STATE HOME AND
TRAINING SCHOOL, WHEAT RIDGE
7/1/69-6/30/70, INITIAL, \$25,000. SRS-DMR
08B022 INTERDISCIPLINARY GRADUATE PROGRAM IN
DEVELOPMENTAL RETARDATION J.F. KENNEDY
CHILD DEVELOPMENT CENTER, UNIVERSITY OF
COLORADO MEDICAL CENTER, DENVER
6/1/70-10/30/70, INITIAL, \$146,702. SRS-DMR
08B025 LABORATORY TRAINING IN MENTAL RETARDATION
UNIVERSITY OF COLORADO, DENVER
7/1/68-6/30/69, RENEWAL, \$244,615. SRS-CB
08B029 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN LORETTA
HEIGHTS COLLEGE, DENVER, COLORADO,
6/1/70-8/31/71, RENEWAL, \$11,800. OE

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 08B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NORTHERN COLORADO, GREELEY, COLORADO.
6/1/70-8/31/71, RENEWAL, \$116,700. OE
- 08B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, DENVER
6/1/70-8/31/71, RENEWAL, \$13,922. OE
- 08B045 REGIONAL WORKSHOP ON NUTRITION AND FEEDING OF HANDICAPPED CHILDREN, UNIVERSITY OF COLORADO, DENVER
7/1/69-3/31/70, INITIAL, \$5,139. HSMHA-MCHS

CONSTRUCTION

- 08C005 COMMUNITY FACILITIES CONSTRUCTION, ADAMS COUNTY COMMUNITY CENTER FOR RETARDED AND SERIOUSLY HANDICAPPED, COMMERCE CITY
6/26/70, INITIAL, \$80,729. SRS-DMR
- 08C010 COMMUNITY FACILITIES CONSTRUCTION, FOOTHILL-GATEWAY CENTERS, INC., FORT COLLINS
6/26/70, INITIAL, \$116,325. SRS-DMR
- 08C015 COMMUNITY FACILITIES CONSTRUCTION, LORDON HALL SOCIETY FOR EXCEPTIONAL CHILDREN, DENVER
6/26/70, INITIAL, \$34,290. SRS-DMR

OTHER

- 08D005 BEHAVIOR MODIFICATION PROGRAM TO DEVELOP SELF-HELP SKILLS, STATE HOME AND TRAINING SCHOOL, WHEAT RIDGE
6/1/70-5/31/71, CONTINUATION, \$90,647. SRS-DMR
- 08D020 HABILITATION TO PREVENT LONG TERM INSTITUTIONALIZATION, STATE HOME AND TRAINING SCHOOL, GRAND JUNCTION
6/1/70-5/31/71, CONTINUATION, \$89,890. SRS-DMR
- 08D023 JOB TRAINING PROGRAM MENTALLY RETARDED RESIDENTS WITH VOCATIONAL POTENTIAL, MR CENTER, PUEBLO
4/15/70-4/14/71, INITIAL, \$75,680. SRS-DMR
- 08D025 MR INITIAL STAFFING, ADAMS CO. CC FOR THE RETARDED AND SERIOUSLY HANDICAPPED, COMMERCE CITY
9/1/70-8/31/71, CONTINUATION, \$13,930. SRS-DMR
- 08D030 MR INITIAL STAFFING, DENVER BOARD FOR THE MR AND SERIOUSLY HANDICAPPED, INC., DENVER
9/1/70-8/31/71, INITIAL, \$24,750. SRS-DMR
- 08D032 MR INITIAL STAFFING, DEPARTMENT OF HEALTH AND HOSPITALS, DENVER
8/1/70-7/31/71, INITIAL, \$95,040. SRS-DMR
- 08D035 MR INITIAL STAFFING, LARADON HALL SOCIETY FOR EXCEPTIONAL CHILDREN, DENVER
9/1/70-8/31/71, CONTINUATION, \$41,065. SRS-DMR
- 08D040 MR INITIAL STAFFING, LAS ANIMAS CO. CENTER FOR THE HANDICAPPED, INC., TRINIDAD
9/1/70-8/31/71, CONTINUATION, \$4,845. SRS-DMR
- 08D045 PROGRAM FOR PROMOTING MAXIMUM REHABILITATION OF MENTALLY RETARDED CHILDREN IN COLORADO, DENVER STATE DEPARTMENT OF PUBLIC HEALTH, DENVER
7/1/69-6/30/70, CONTINUATION, \$236,000. HSMHA-MCHS
- 08D050 PROGRAM IMPROVEMENT FOR INSTITUTIONALLY DEPRIVED MALES, STATE HOME AND TRAINING SCHOOL, GRAND JUNCTION
6/1/70-5/31/71, CONTINUATION, \$5,054. SRS-DMR
- 08D052 STUDENT WORK EXPERIENCE AND TRAINING, LARADON HALL TRAINING AND RESIDENTIAL CENTER FOR THE RETARDED, DENVER
6/1/70-5/31/71, INITIAL, \$12,506. SRS-DMR
- 08D055 THERAPEUTIC RESIDENTIAL FACILITY FOR MENTALLY RETARDED LARADON HALL SOCIETY, DENVER
7/1/69-7/31/70, CONTINUATION, \$90,386. CHS-P
- 08D056 THERAPEUTIC RESIDENTIAL FACILITY FOR MENTALLY RETARDED YOUNG ADULTS, LARADON HALL SOCIETY, DENVER
8/1/70-6/30/72, CONTINUATION, \$71,053. SRS-DMR
- 08D060 TRAINING SERVICES LARADON HALL SOCIETY, DENVER

6/1/70-5/30/71, INITIAL, \$68,058. SRS-RSA

CONNECTICUT

TRAINING

- 09B004 BIOCHEMICAL, CHROMOSOMAL, AND CLINICAL GENETICS IN MAN, YALE UNIVERSITY, NEW HAVEN, CONNECTICUT,
7/70-6/71, CONTINUATION, \$66,446. NICHD
- 09B005 FIELD INSTRUCTION OF SOCIAL WORK UNIVERSITY OF CONNECTICUT, STORRS
9/1/69-8/31/70, RENEWAL, \$28,418. SRS-RSA
- 09B010 INDIVIDUAL TREATMENT OF RESIDENTS BY INSERVICE STAFF MR MANSFIELD TRAINING SCHOOL, MANSFIELD DEPOT
7/1/70-6/30/71, CONTINUATION, \$22,233. SRS-DMR
- 09B011 INSERVICE TRAINING, MENTAL RETARDATION, SOUTHURY TRAINING SCHOOL, SOUTHURY
7/1/70-6/30/71, CONTINUATION, \$23,751. SRS-DMR
- 09B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTHERN CONNECTICUT STATE COLLEGE, NEW HAVEN
6/1/70-8/31/71, RENEWAL, \$60,700. OE
- 09B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, HARTFORD
6/1/70-8/31/71, RENEWAL, \$10,800. OE
- 09B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ST. JOSEPH COLLEGE, WEST HARTFORD
6/1/70-8/31/71, RENEWAL, \$11,500. OE
- 09B026 PSYCHOLOGY OF RETARDATION, RESEARCH AND TEACHING, UNIVERSITY OF CONNECTICUT, STORRS, CONNECTICUT,
7/70-6/71, CONTINUATION, \$48,420. NICHD
- 09B030 UPGRADE ORIENTATION AND TRAINING FOR COTTAGE AIDES MR SOUTHURY TRAINING SCHOOL, SOUTHURY
7/1/69-6/30/70, RENEWAL, \$24,974. SRS-DMR
- 09B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF CONNECTICUT, STORRS
6/1/70-8/31/71, RENEWAL, \$58,100. OE
- 09B040 SEMINAR AND INTERDISCIPLINARY APPROACH TO PERCEPTUAL MOTOR DYSFUNCTION, CONNECTICUT OCCUPATIONAL THERAPY ASSO., CROMWELL
4/8/70-7/30/70, INITIAL, \$600. SRS-DMR
- 09B045 SPECIAL PROJECTS, TRAINING COOPERATIVE TEACHERS IN SPECIAL EDUCATION, MENTAL RETARDATION, UNIVERSITY OF CONNECTICUT, STORRS, CONNECTICUT,
6/1/70-8/31/71, INITIAL, \$39,246. OE

OTHER

- 09D005 ADVANCED PROGRAM FOR PROFOUNDLY AND SEVERELY RETARDED, SOUTHURY TRAINING SCHOOL, SOUTHURY
6/1/70-5/31/71, CONTINUATION, \$85,403. SRS-DMR
- 09D006 COST OF COMPLETION FOR PROFESSIONAL AND TECHNICAL PERSONNEL, SEASIDE REGIONAL CENTER, WATERFORD, CONNECTICUT 7/1/70-6/30/71,
\$27,914, CONTINUATION, SRS-DMR
- 09D010 FACILITY IMPROVEMENT GRANT GOODWILL INDUSTRIES OF CENTRAL CONNECTICUT, INC., NEW HAVEN
6/30/69-6/29/70, RENEWAL, \$27,569. SRS-RSA
- 09D015 HABILITATION OF RETARDED RESIDENTS TO COMMUNITY LIFE, SEASIDE REGIONAL CENTER, WATERFORD
1/1/70-12/31/70, CONTINUATION, \$85,972. SRS-DMR
- 09D020 INDIVIDUAL PROGRAMMING FOR SEVERELY AND PROFOUNDLY RETARDED, MANSFIELD TRAINING SCHOOL, MANSFIELD DEPOT
6/1/70-5/31/71, CONTINUATION, \$85,994. SRS-DMR
- 09D025 MR INITIAL STAFFING, GREATER HARTFORD ASSOC. FOR RETARDED CHILDREN, INC., HARTFORD

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 9/1/70-8/31/71, CONTINUATION, \$22,568. SRS-DMR
- 09D026 MR INITIAL STAFFING GOVERNOR DEMPSEY REGIONAL CENTER, PUTNAM
7/1/70-6/30/71 INITIAL \$27,990. SRS-DMR
- 09D027 MR INITIAL STAFFING NORTHWEST REGIONAL CENTER TORRINGTON
7/1/70-6/30/71 INITIAL \$18,172. SRS-DMR
- 09D030 MR INITIAL STAFFING, LITCHFIELD CO. ASSOC. FOR RETARDED CHILDREN, INC., TORRINGTON
7/1/70-6/30/71, CONTINUATION, \$9,690. SRS-DMR
- 09D035 MR INITIAL STAFFING, MIDDLETOWN-MERIDEN REGIONAL CENTER, MERIDEN
9/1/70-8/31/71, CONTINUATION, \$19,610. SRS-DMR
- 09D036 MR INITIAL STAFFING WATERBURY REGIONAL CENTER WATERBURY
9/1/70-8/31/71 INITIAL \$21,060 SRS-DMR
- 09D037 MR INITIAL STAFFING NORTH CENTRAL REGIONAL CENTER SOUTH WINDSOR
9/1/70-8/31/71 INITIAL \$32,539. SRS-DMR
- 09D038 MR INITIAL STAFFING BRIDGEPORT REGIONAL CENTER BRIDGEPORT
7/1/70-6/30/71 INITIAL \$84,026. SRS-DMR
- 09D040 MR INITIAL STAFFING, NEW HAVEN REGIONAL CENTER, NEW HAVEN
9/1/70-8/31/71, CONTINUATION, \$16,645. SRS-DMR
- 09D045 MR INITIAL STAFFING, SEASIDE REGIONAL CENTER, WATERFORD
7/1/70-6/30/71, CONTINUATION, \$27,914. SRS-DMR
- 09D050 NEW HAVEN EVALUATION AND COUNSELING PROGRAM FOR DEVELOPMENTAL PROBLEMS IN EARLY CHILDHOOD, NEW HAVEN STATE DEPARTMENT OF HEALTH, HARTFORD
7/1/68-6/30/69, RENEWAL, \$84,361. SRS-CB
- 09D051 REHABILITATION FOR THE SERIOUSLY RETARDED ADULTS MANSFIELD TRAINING SCHOOL, MANSFIELD DEPOT
6/1/70-5/31/71, INITIAL, \$69,023. SRS-DMR
- 09D055 SOCIAL ADJUSTMENT PROGRAM MANSFIELD TRAINING SCHOOL, MANSFIELD DEPOT
7/1/69-8/31/70, CONTINUATION, \$84,943. CHS-P
- 09D056 STUDENT WORK EXPERIENCE AND TRAINING HEALTH DEPARTMENT NEW HAVEN
6/1/70-5/31/71, INITIAL \$3,665. SRS-DMR
- 09D057 STUDENT WORK EXPERIENCE AND TRAINING SEASIDE REGIONAL CENTER WATERFORD
6/1/70-9/30/70, INITIAL, \$4,867. SRS-DMR

DELAWARE

TRAINING

- 10B005 DEVELOP KNOWLEDGE TECHNIQUES - METHODOLOGY TO PROFESSIONAL STAFF MR HOSPITAL FOR THE MENTALLY RETARDED, GEORGETOWN
7/1/68-6/30/70, RENEWAL, \$24,490. SRS-DMR
- 10B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF DELAWARE, NEWARK
6/1/70-8/31/71, RENEWAL, \$15,900. OE

CONSTRUCTION

- 10C005 NEWARK DAY CARE CENTER NEWARK
6/30/70 INITIAL \$100,000 SRS-DMR

OTHER

- 10D005 MR INITIAL STAFFING, DELAWARE DEPARTMENT OF MENTAL HEALTH, WILMINGTON
10/1/69-9/30/70, INITIAL, \$19,590. SRS-DMR
- 10D010 MR INITIAL STAFFING CHILD DIAGNOSTIC AND DEVELOPMENT CENTER WILMINGTON
9/1/70-8/31/71 INITIAL \$17,269. SRS-DMR
- 10D015 STUDENT WORK EXPERIENCE AND TRAINING DELAWARE STATE HOSPITAL NEW CASTLE
6/1/70-8/31/70, INITIAL \$11,025. SRS-DMR

- 10D020 TRAINING SERVICES GRANT OPPORTUNITY CENTER, INC., WILMINGTON
6/25/70-6/24/71, CONTINUATION, \$130,862. SRS-RSA

DISTRICT OF COLUMBIA

TRAINING

- 11B005 CHROMOSOMAL STUDIES OF CHILDREN WITH CONGENITAL ANOMALIES OR MENTAL RETARDATION CHILDREN'S HOSPITAL OF D.C., WASHINGTON, D.C.
7/1/69-6/30/70, CONTINUATION, \$27,358. HSMHA-MCHS
- 11B010 FIELD INSTRUCTION FOR SOCIAL WORKERS IN MENTAL RETARDATION HOWARD UNIVERSITY, WASHINGTON, D.C.
7/1/69-6/30/70, CONTINUATION, \$95,072. CHS-P
- 11B020 FIELD INSTRUCTION FOR SOCIAL WORKERS IN MENTAL RETARDATION SCHOOL OF SOCIAL WORK HOWARD UNIVERSITY WASHINGTON D.C.
7/1/70-6/30/71 CONTINUATION \$75,371. SRS-DMR
- 11B021 INTER AND INTRA DISCIPLINARY TRAINING IN MENTAL RETARDATION GEORGETOWN UNIVERSITY, WASHINGTON, D.C.
7/1/70-10/31/70, INITIAL, \$67,866. SRS-DMR
- 11B022 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-UNIVERSITY AFFILIATED FACILITY, GEORGETOWN UNIVERSITY, WASHINGTON, D.C.,
6/1/70-8/31/71, RENEWAL, \$25,000. OE
- 11B025 METABOLIC AND CYTOGENETIC LABORATORIES HOWARD UNIVERSITY, WASHINGTON, D.C.
7/1/69-6/30/70, CONTINUATION, \$159,266. HSMHA-MCHS
- 11B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BOARD OF EDUCATION OF THE WASHINGTON, D.C.
6/1/70-8/31/71, RENEWAL, \$18,700. OE
- 11B045 TRAINING IN CHILD DEVELOPMENT HOWARD UNIVERSITY, WASHINGTON, D.C.
7/1/69-6/30/70, CONTINUATION, \$187,246. HSMHA-MCHS

OTHER

- 11D005 CLINIC FOR MENTALLY RETARDED CHILDREN DEPARTMENT OF PUBLIC HEALTH, DISTRICT OF COLUMBIA
7/1/69-6/30/70, CONTINUATION, \$100,065. HSMHA-MCHS
- 11D010 COMPREHENSIVE DAY CARE FOR MODERATELY AND PROFOUNDLY RETARDED ADULTS, JEWISH FOUNDATION FOR RETARDED CHILDREN, WASHINGTON, D.C.,
9/1/69-8/31/71, CONTINUATION, \$91,551. SRS-DMR
- 11D020 FACILITY IMPROVEMENT GRANT DAVIS MEMORIAL GOODWILL INDUSTRIES, D.C.
5/1/70-4/30/71, CONTINUATION, \$11,382. SRS-RSA
- 11D031 MR INITIAL STAFFING HELP FOR RETARDED CHILDREN, INC. D.C.
7/1/70-6/30/71 INITIAL \$18,285. SRS-DMR
- 11D035 STUDENT WORK EXPERIENCE AND TRAINING JEWISH FOUNDATION FOR RETARDED CHILDREN, INC., DISTRICT OF COLUMBIA
6/15/70-6/14/71, INITIAL \$3,922. SRS-DMR
- 11D050 STANDARDS FOR COMMUNITY SERVICES MENTALLY RETARDED AMERICAN ASSOCIATION ON MENTAL DEFICIENCY, WASHINGTON
4/1/70-3/31/71, CONTINUATION, \$42,447. CHS-P
- 11D051 SELF HELP TRAINING DISTRICT TRAINING SCHOOL LAUREL
5/1/70-4/30/71, CONTINUATION, \$89,817. SRS-DMR

FLORIDA

TRAINING

- 12B005 A TRAINING PROGRAM IN THE MANAGEMENT OF PROGRAMS FOR THE MENTALLY RETARDED FLORIDA STATE UNIVERSITY, TALLAHASSEE

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 7/1/69-6/30/70, CONTINUATION, \$82,638. CHS-P
- 12B007 AUDIO-VISUAL AND PSYCHOLOGY CONFERENCES, UNIVERSITY OF MIAMI, CORAL GABLES 6/1/69-5/31/70, INITIAL, \$25,056. HSMHA-MCHS
- 12B010 CHILD DEVELOPMENT CENTER AND TRAINING FACILITY UNIVERSITY OF MIAMI, CORAL GABLES 1/1/69-12/31/69, CONTINUATION, \$790,141. HSMHA-MCHS
- 12B015 COMPREHENSIVE SOCIAL WORK TRAINING IN MENTAL RETARDATION, DEPARTMENT OF SOCIAL WORK, FLORIDA STATE UNIVERSITY, TALLAHASSEE, FLORIDA 12/1/69-11/30/70, CONTINUATION, \$69,853. SRS-DMR
- 12B020 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS UNIVERSITY OF FLORIDA, GAINESVILLE 9/1/69-8/31/70, CONTINUATION, \$32,941. SRS-RSA
- 12B025 INSERVICE TRAINING MENTAL RETARDATION SUNLAND TRAINING CENTER AT MARIANNA, MARIANNA 7/1/70-6/30/71 CONTINUATION \$24,111 SRS-DMR
- 12B029 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT- UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF MIAMI, CORAL GABLES, FLORIDA, 6/1/70-8/31/71, RENEWAL, \$28,000. OE
- 12B030 INSERVICE TRAINING FOR OPTIMAL PERSONNEL EFFECTIVENESS SUNLAND TRAINING CENTER AT MIAMI OPA-LOCKA 1/1/70-12/31/70 INITIAL \$21,816. SRS-DMR
- 12B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN FLORIDA ATLANTIC UNIVERSITY, BOCA RATON FY 1969, RENEWAL, \$11,200. OE
- 12B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN FLORIDA STATE UNIVERSITY, TALLAHASSEE FY 1969, RENEWAL, \$49,500. OE
- 12B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, TALLAHASSEE FY 1969, RENEWAL, \$59,925. OE
- 12B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF FLORIDA, GAINESVILLE FY 1969, RENEWAL, \$60,400. OE
- 12B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MIAMI, CORAL GABLES 6/1/70-8/31/71, RENEWAL, \$87,300. OE
- 12B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF SOUTH FLORIDA, TAMPA FY 1969, RENEWAL, \$60,700. OE
- 12B065 SERVICE LABORATORY FOR BIOCHEMICAL GENETICS UNIVERSITY OF MIAMI, CORAL GABLES 7/1/69-6/30/70, CONTINUATION, \$83,004. HSMHA-MCHS
- 12B070 INSERVICE TRAINING MENTAL RETARDATION SUNLAND TRAINING CENTER AT FORT MYERS, FORT MYERS 7/1/70-6/30/71 INITIAL \$22,852. SRS-DMR
- 12B075 TRAINING SERVICES GRANT PALM BEACH HABILITATION CENTER, LAKE WORTH 6/25/70-6/24/71, CONTINUATION, \$90,076. SRS-RSA
- 12B080 INSERVICE TRAINING MENTAL RETARDATION SUNLAND HOSPITAL AT ORLANDO, ORLANDO 7/1/70-6/30/71 RENEWAL \$18,621. SRS-DMR

CONSTRUCTION

- 12C005 COMMUNITY FACILITIES CONSTRUCTION MC DONALD/TRAINING CENTER FOUNDATION INC. 5/25/70 INITIAL \$219,217. SRS-DMR
- 12C006 COMMUNITY FACILITIES CONSTRUCTION PEDIATRIC CARE CENTER OF BROWARD COUNTY FT LAUDERDALE 10/29/69 INITIAL \$101,625. SRS-DMR
- 12C010 COMMUNITY FACILITIES CONSTRUCTION PINE CASTLE SCHOOL JACKSONVILLE 1/29/70 INITIAL \$22,648. SRS-DMR

OTHER

- 12D005 DEVELOPMENTAL EVALUATION CLINIC, DALE COUNTY STATE BOARD OF HEALTH, JACKSONVILLE 7/1/68-6/30/69, RENEWAL, \$171,255. SRS-CB
- 12D010 MR INITIAL STAFFING SEMINOLE COUNTY ASSOCIATION FOR RETARDED CHILDREN, SANFORD 9/1/70-8/31/71 INITIAL \$7,395. SRS-DMR
- 12D015 INTENSIVE PROGRAMMING FOR OPTIMAL RESIDENT DEVELOPMENT SUNLAND TRAINING CENTER AT MIAMI, OPA LOCKA 5/1/70-4/30/71 CONTINUATION \$93,100. SRS-DMR
- 12D020 MR INITIAL STAFFING, BROWARD CO. ASSOC. FOR RETARDED CHILDREN, FORT LAUDERDALE 7/1/69-6/30/71 CONTINUATION \$55,864. SRS-DMR
- 12D040 MR INITIAL STAFFING, CITRUS CO. ASSOC. FOR RETARDED CHILDREN, INVERNESS 7/1/70-6/30/71 CONTINUATION \$16,322. SRS-DMR
- 12D045 MR INITIAL STAFFING, ESCAMBIA CO. ASSOC. FOR RETARDED CHILDREN, PENSACOLA 7/1/70-6/30/71 CONTINUATION \$11,996. SRS-DMR
- 12D050 MR INITIAL STAFFING UPPER PINELLAS ASSOCIATION FOR RETARDED CHILDREN, CLEARWATER 7/1/70-6/30/71 INITIAL \$10,847. SRS-DMR
- 12D055 MR INITIAL STAFFING, OKEECHOBEE REHABILITATION FACILITY, INC., OKEECHOBEE 7/1/70-6/30/71 CONTINUATION \$15,472. SRS-DMR
- 12D060 MR INITIAL STAFFING, MARION COUNTY ASSOCIATION FOR RETARDED CHILDREN, OCALA 7/1/70-6/30/71 CONTINUATION \$11,118. SRS-DMR
- 12D065 MR INITIAL STAFFING, MORNING STAR SCHOOL, ORLANDO 7/1/70-6/30/71 CONTINUATION \$6,722. SRS-DMR
- 12D066 MR INITIAL STAFFING LEE COUNTY ASSOCIATION FOR RETARDED CHILDREN FORT MYERS 7/1/70-6/30/71 INITIAL \$5,438. SRS-DMR
- 12D067 MR INITIAL STAFFING PINELLAS ASSOCIATION FOR RETARDED CHILDREN ST. PETERSBURG 7/1/70-6/30/71 INITIAL \$14,915. SRS-DMR
- 12D068 MR INITIAL STAFFING EXECUTIVE SECRETARY OF CATHOLIC CHARITIES JACKSONVILLE 9/1/70-8/31/71 INITIAL \$10,600. SRS-DMR
- 12D070 MR INITIAL STAFFING, PINELLAS ASSOCIATION FOR RETARDED CHILDREN, ST. PETERSBURG 9/1/70-8/31/71 CONTINUATION \$20,247. SRS-DMR
- 12D075 MR INITIAL STAFFING, ST. ANDREWS BAY CENTER FOR RETARDED CHILDREN, INC., LYNN HAVEN 7/1/70-6/30/71 CONTINUATION \$2,357. SRS-DMR
- 12D080 MR INITIAL STAFFING EXCEPTIONAL CHILDREN'S SCHOOL AND NURSERY, HOMESTEAD 6/1/70-5/31/71 INITIAL \$42,670. SRS-DMR
- 12D081 MR INITIAL STAFFING PIONEER OCCUPATIONAL CENTER FOR HANDICAPPED, STUART 7/1/70-6/30/71 INITIAL \$24,762. SRS-DMR
- 12D082 MR INITIAL STAFFING ESCAMBIA COUNTY ASSOCIATION FOR RETARDED CHILDREN, PENSACOLA 6/1/70-5/31/71 INITIAL \$14,685. SRS-DMR
- 12D085 TAMPA DIAGNOSTIC AND EVALUATION CLINIC STATE BOARD OF HEALTH, JACKSONVILLE 7/1/69-6/30/70, CONTINUATION, \$75,000. HSMHA-MCHS
- 12D087 TRAINING SERVICES GRANT, PALM BEACH HABILITATION CENTER, LAKE WORTH 6/25/70-6/24/71, CONTINUATION, \$90,074. SRS-RSA
- 12D088 STUDENT WORK EXPERIENCE AND TRAINING DIVISION OF RETARDATION, TALLAHASSEE 6/15/70-8/14/70 INITIAL \$19,214. SRS-DMR
- 12D090 MR INITIAL STAFFING PEDIATRIC CARE CENTER OF BROWARD COUNTY FORT LAUDERDALE 9/1/70-8/31/71 INITIAL \$36,329. SRS-DMR
- 12D091 WORK EXPERIENCE FOR JUVENILE OFFENDERS IN THE HABILITATION OF THE MENTALLY RETARDED, DIVISION OF RETARDATION, TALLAHASSEE 6/25/70-6/30/71 INITIAL \$30,966. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

GEORGIA

TRAINING

- 13B005 INSERVICE TRAINING - A UNIT ASSIGNMENT
APPROACH MR GEORGIA DEPARTMENT OF PUBLIC
HEALTH, ATLANTA
7/1/70-6/30/71 CONTINUATION \$20,150. SRS-DMR
- 13B009 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-
UNIVERSITY AFFILIATED FACILITY, GEORGIA
RETARDATION CENTE, GEORGIA DEPARTMENT OF
PUBLIC HEALTH, ATLANTA, GEORGIA,
6/1/70-8/31/71, RENEWAL, \$30,000. OE
- 13B010 A PROGRAM FOR PREPARING SPEECH PATHOLOGISTS
TO WORK WITH THE MENTALLY RETARDED,
UNIVERSITY OF GEORGIA, ATHENS
7/1/70-6/30/71 CONTINUATION \$31,660. SRS-DMR
- 13B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN GEORGIA
STATE UNIVERSITY, ATLANTA, GEORGIA,
6/1/70-8/31/71, RENEWAL, \$89,100. OE
- 13B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN GEORGIA
SOUTHERN COLLEGE, STATESBORO, GEORGIA,
6/1/70-8/31/71, RENEWAL, \$33,000. OE
- 13B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, ATLANTA
6/1/70-8/31/71, RENEWAL, \$25,525. OE
- 13B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF GEORGIA, ATHENS
6/1/70-8/31/71, RENEWAL, \$73,400. OE
- 13B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN WEST
GEORGIA COLLEGE, CARROLLTON, GEORGIA,
6/1/70-8/31/71, RENEWAL, \$14,600. OE
- 13B046 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN, AUGUSTA
COLLEGE, AUGUSTA, GEORGIA,
6/1/70-8/31/71, INITIAL, \$14,300. OE
- 13B050 SOCIAL WORK FIELD INSTRUCTION AND CURRICULUM
ENRICHMENT IN MENTAL RETARDATION
UNIVERSITY OF GEORGIA, CANDLER HALL, ATHENS
FY 1969, RENEWAL, \$83,169. SRS-P
- 13B051 SOCIAL WORK FIELD INSTRUCTION AND CURRICULUM
ENRICHMENT IN MENTAL RETARDATION
UNIVERSITY OF GEORGIA SCHOOL OF SOCIAL WORK,
ATHENS
7/1/70-6/30/71 CONTINUATION \$85,312. SRS-DMR
- 13B055 SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF
GEORGIA, ATHENS
7/1/69-6/30/70, CONTINUATION, \$42,798. CHS-P
- 13B060 TRAINING FOR NURSING IN NEUROLOGICAL
HANDICAPPING CONDITIONS OF CHILDHOOD EMORY
UNIVERSITY, ATLANTA
7/1/69-6/30/70, CONTINUATION, \$56,358. HSMHA-MCHS

CONSTRUCTION

- 13C005 COMMUNITY FACILITIES CONSTRUCTION, HI-HOPE
TRAINING CENTER FOR MENTAL RETARDATION,
LAWRENCEVILLE,
1/69, INITIAL, \$200,000. SRS-DMR
- 13C010 GRIFFIN AREA CHAPTER FOR RETARDED CHILDREN,
GRIFFIN
6/16/70, INITIAL, \$52,950. SRS-RSA

OTHER

- 13D005 ATLANTA ADULT ACTIVITY CENTER ASSOCIATION
FOR RETARDED CHILDREN, ATLANTA
7/1/69-7/31/70, CONTINUATION, \$65,570. CHS-P
- 13D006 ACTIVITY PROGRAM FOR INSTITUTIONALIZED MULTI-
HANDICAPPED RETARDATE GEORGIA DEPT. OF
PUBLIC HEALTH
6/15/70-6/14/71 INITIAL \$25,177. SRS-DMR

- 13D010 COMPREHENSIVE EVALUATION CLINIC FOR
MENTALLY RETARDED CHILDREN, DEKALB
DISTRICT 036, STATE DEPART OF PUBLIC HEALTH,
ATLANTA
7/1/69-6/30/70, CONTINUATION, \$90,950. HSMHA-MCHS
- 13D015 COMPREHENSIVE EVALUATION CLINIC FOR
MENTALLY RETARDED CHILDREN, CATHAM STATE
DEPARTMENT OF PUBLIC HEALTH, ATLANTA
7/1/69-6/30/70, CONTINUATION, \$86,788. HSMHA-MCHS
- 13D020 COMPREHENSIVE EVALUATION FOR MENTALLY
RETARDED CHILDREN, MUSCOGEE STATE
DEPARTMENT OF PUBLIC HEALTH, ATLANTA
7/1/69-6/30/70, CONTINUATION, \$53,321. HSMHA-MCHS
- 13D025 MR INITIAL STAFFING, ATLANTA ASSOCIATION FOR
RETARDED CHILDREN, ATLANTA
7/1/70-6/30/71 CONTINUATION \$8,371. SRS-DMR
- 13D027 INITIAL STAFFING, GRIFFIN AREA CHAPTER FOR
RETARDED CHILDREN, GRIFFIN
12/1/70-2/29/72, INITIAL, \$44,142. SRS-RSA
- 13D030 MR INITIAL STAFFING, DEKALB-ROCKDALE HEALTH
DISTRICT, DECATUR
9/1/70-8/31/71 CONTINUATION \$71,558. SRS-DMR
- 13D036 MR INITIAL STAFFING GEORGIA ASSOCIATION FOR
RETARDED CHILDREN, COLUMBUS
9/1/70-8/31/71 INITIAL \$107,250. SRS-DMR
- 13D037 MR INITIAL STAFFING ELBERT COUNTY BOARD OF
HEALTH, ELBERTON
8/1/70-7/31/71 INITIAL \$17,265. SRS-DMR
- 13D038 MR INITIAL STAFFING BOARD OF COMMISSIONERS OF
FULTON COUNTY, ATLANTA
8/1/70-7/31/71 INITIAL \$153,931. SRS-DMR
- 13D040 MULTIDISCIPLINARY APPROACH TO THE DISTURBED
RETARDATE, GEORGIA DEPARTMENT OF PUBLIC
HEALTH, ATLANTA
6/1/70-5/31/71 CONTINUATION \$95,971. SRS-DMR
- 13D043 PROJECT DEVELOPMENT, LAGRANGE ASSOCIATION
FOR RETARDED CHILDREN, LAGRANGE
9/1/69-8/31/70, INITIAL, \$4,500. SRS-RSA
- 13D044 STUDENT WORK EXPERIENCE AND TRAINING GEORGIA
DEPARTMENT OF PUBLIC HEALTH, ATLANTA
6/15/70-6/14/71 INITIAL \$12,120. SRS-DMR
- 13D045 PROJECT RESCUE ATLANTA ASSOCIATION FOR
RETARDED CHILDREN, ATLANTA
FY 1969, INITIAL, \$56,665. SRS-P

GUAM

TRAINING

- 14B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
DEPARTMENT OF EDUCATION, AGANA
FY 1969, RENEWAL, \$29,550. OE

HAWAII

TRAINING

- 15B010 FIELD WORK INSTRUCTION IN MEDICAL SOCIAL WORK
UNIVERSITY OF HAWAII, HONOLULU
5/1/70-4/30/71, CONTINUATION, \$27,226. SRS-RSA
- 15B011 INSERVICE TRAINING-MENTAL RETARDATION
WAIMANO TRAINING SCHOOL AND HOSPITAL
7/1/70-6/30/71 CONTINUATION \$23,104. SRS-DMR
- 15B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF HAWAII, HONOLULU
6/1/70-8/31/71, RENEWAL, \$17,400. OE
- 15B021 TRAINING GRANT IN MENTAL RETARDATION
UNIVERSITY OF HAWAII, HONOLULU
7/1/70-6/30/71 INITIAL \$27,202. SRS-DMR

CONSTRUCTION

- 15C005 COMMUNITY FACILITIES CONSTRUCTION, BRANTLEY
CENTER, HANOKAA
10/68, INITIAL, \$81,052. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

15C010 COMMUNITY FACILITIES CONSTRUCTION, J. WALTER CAMERON CENTER, WAILUKU
4/15/69, INITIAL, \$55,600. SRS-DMR

OTHER

- 15D005 DAY ACTIVITY PROGRAM BIG ISLAND ASSOCIATION TO HELP RETARDED CHILDREN, HILO
6/1/70-5/31/71 CONTINUATION \$24,842. SRS-DMR
- 15D010 EVALUATION CLINICS FOR MENTALLY RETARDED CHILDREN, HONOLULU STATE DEPARTMENT OF HEALTH, HONOLULU
7/1/68-6/30/69, RENEWAL, \$139,998. SRS-CB
- 15D014 STUDENT WORK EXPERIENCE AND TRAINING HAWAII ASSOCIATION TO HELP RETARDED CHILDREN
6/25/70-8/31/70 INITIAL \$8,000. SRS-DMR
- 15D015 HABILITATION OF SEVERELY RETARDED HYPERACTIVE MALES, WAIMANO TRAINING SCHOOL AND HOSPITAL, PEARL CITY
6/1/70-5/31/71 CONTINUATION \$47,500. SRS-DMR
- 15D020 INTENSIVE PROGRAM FOR COMMUNITY PLACEMENT, WAIMANO TRAINING SCHOOL AND HOSPITAL, PEARL CITY
6/1/70-5/31/71 CONTINUATION \$38,087. SRS-DMR
- 15D025 MR INITIAL STAFFING GOODWILL INDUSTRIES OF HONOLULU INC. HONOLULU
7/1/70-6/30/71 INITIAL \$5,568. SRS-DMR
- 15D026 MR INITIAL STAFFING BRANTLEY CENTER INC. HONOKAA
9/1/70-8/31/71 INITIAL \$8,775. SRS-DMR
- 15D030 MR INITIAL STAFFING SPECIAL EDUCATION CENTER OF OAHU
7/1/70-6/30/71 INITIAL \$6,815. SRS-DMR
- 15D035 MR INITIAL STAFFING, MAUI ASSOC. TO HELP RETARDED CHILDREN, INC., KAHULUI
9/1/70-8/31/71 CONTINUATION \$10,317. SRS-DMR
- 15D040 MR INITIAL STAFFING REHABILITATION UNLIMITED KAUAI, KAPAA
7/1/70-6/30/71 \$8,910. SRS-DMR

IDAHO

TRAINING

- 16B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE BOARD OF EDUCATION, BOISE
6/1/70-8/31/71, RENEWAL, \$10,100. OE
- 16B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF IDAHO, MOSCOW
6/1/70-8/31/71, RENEWAL, \$20,500. OE
- 16B025 TRAINING FOR ATTENDANT, NURSE, AND AIDE PERSONNEL MR IDAHO STATE SCHOOL AND HOSPITAL, NAMPA
7/1/70-6/30/71 CONSTRUCTION \$23,104. SRS-DMR

CONSTRUCTION

- 16C005 COMMUNITY FACILITIES CONSTRUCTION PANHANDLE HEALTH CENTER, COEUR D'ALENE
6/3/70 INITIAL \$119,600. SRS-DMR

OTHER

- 16D005 COMMUNITY MENTAL RETARDATION PROGRAM AND GENETICS LABORATORY, BOISE STATE DEPARTMENT OF HEALTH, BOISE
7/1/68-6/30/69, RENEWAL, \$97,900. SRS-CB
- 16D010 HOME LIVING TRAINING PROGRAM GOAL-HABILITATION, IDAHO STATE SCHOOL AND HOSPITAL, NAMPA
2/1/70-1/31/71 CONTINUATION \$95,000. SRS-DMR
- 16D011 MR INITIAL STAFF IDAHO DEPT. OF HEALTH, BOISE
7/1/70-6/30/71 INITIAL \$28,869. SRS-DMR
- 16D012 MR INITIAL STAFFING IDAHO DEPT. OF HEALTH, BOISE
9/1/70-8/31/71 INITIAL \$30,684. SRS-DMR

- 16D015 MR INITIAL STAFFING, IDAHO DEPARTMENT OF HEALTH, BOISE
9/1/70-8/31/71 CONTINUATION \$18472. SRS-DMR
- 16D020 PROJECT DEVELOPMENT, CHILD DEVELOPMENT CENTER, TWIN FALLS
6/15/70-6/14/71, INITIAL, \$6,500. SRS-RSA

ILLINOIS

TRAINING

- 17B003 DELIVERY OF SOCIAL WORK SERVICES IN PEDIATRIC HOSPITALS TO MULTIPLY HANDICAPPED CHILDREN AND THEIR FAMILIES, CHILDREN'S MERCY HOSPITAL, CHICAGO
6/1/69-5/31/70, INITIAL, \$11,880. HSMHA-MCHS
- 17B015 FIELD INSTRUCTION IN RECREATION FOR RETARDED SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE
4/15/70-6/30/70, CONTINUATION, \$8,942. SRS-RSA
- 17B020 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE
9/1/69-8/31/70, CONTINUATION, \$29,335. SRS-RSA
- 17B021 HUMAN BIOCHEMICAL GENETICS, CHILDREN MEMORIAL HOSPITAL, CHICAGO, ILLINOIS,
7/70-6/71, CONTINUATION, \$33,539. NICHD
- 17B025 MENTAL HEALTH CAREER DEVELOPMENT PROGRAM MR A.L. BOWEN CHILDRENS CENTER, HARRISBURG
7/1/70-6/30/71 CONTINUATION \$23,747. SRS-DMR
- 17B026 NORMAL AND RETARDED DEVELOPMENT, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS,
7/70-6/71, CONTINUATION, \$88,756. NICHD
- 17B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CHICAGO STATE COLLEGE, CHICAGO
6/1/70-8/31/71, RENEWAL, \$17,400. OE
- 17B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ILLINOIS STATE UNIVERSITY, NORMAL
6/1/70-8/31/71, RENEWAL, \$82,200. OE
- 17B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHERN ILLINOIS UNIVERSITY, DEKALB
6/1/70-8/31/71, RENEWAL, \$58,200. OE
- 17B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OFFICE OF THE SUPERINTENDENT OF PUBLIC INSTRUCTION, SPRINGFIELD
6/1/70-8/31/71, RENEWAL, \$54,000. OE
- 17B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE
6/1/70-8/31/71, RENEWAL, \$35,800. OE
- 17B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTHERN ILLINOIS UNIVERSITY, EDWARDSVILLE
6/1/70-8/31/71, RENEWAL, \$11,800. OE
- 17B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ILLINOIS, URBANA
6/1/70-8/31/71, RENEWAL, \$88,600. OE
- 17B070 SPECIAL PROJECTS. A PROGRAM TO PREPARE CORPS MEMBERS TO TEACH DISADVANTAGED EDUCABLE MENTALLY HANDICAPPED CHILDREN IN THE INNER CITY ELEMENTARY SCHOOLS OF CHICAGO, THE CHICAGO CONSORTIUM, CHICAGO, ILLINOIS, 6/1/70-8/31/71, INITIAL, \$100,000. OE

CONSTRUCTION

- 17C005 COMMUNITY FACILITIES CONSTRUCTION DR. SIDNEY KLEIN MATERNITY HOSPITAL AND KONSTADER CHILDRENS CENTER, ILLINOIS
6/25/70 INITIAL \$102,771. SRS-DMR
- 17C010 COMMUNITY FACILITIES CONSTRUCTION YOUNG MENS JEWISH COUNCIL SPECIAL SERVICE CENTER, ILLINOIS
6/25/70 INITIAL \$169,087. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

17C015 COMMUNITY FACILITIES CONSTRUCTION IROQUOIS
FRIENDSHIP HOUSE, WATSEKA
6/16/70 INITIAL \$241,188. SRS-DMR

OTHER

17D005 CHILD DEVELOPMENT CLINIC, CHILDREN'S MEMORIAL
HOSPITAL, CHICAGO STATE DEPARTMENT OF PUBLIC
HEALTH, SPRINGFIELD
7/1/69-6/30/70, CONTINUATION, \$50,000. HSMHA-MCHS

17D010 COTTAGE PROGRAMMING FOR THE PROFOUNDLY AND
SEVERELY RETARDED, DIXON STATE SCHOOL,
DIXON
6/1/70-5/31/71 CONTINUATION \$60,100. SRS-DMR

17D012 DEMONSTRATION OF NEW PATHWAYS FOR SERVICES
TO THE HOMEBOUND MENTALLY RETARDED
CHILDREN, CHICAGO
6/1/70-5/31/71 CONTINUATION \$84,550. SRS-DMR

17D013 FACILITY IMPROVEMENT, CHICAGO SCHOOL FOR
RETARDED CHILDREN, CHICAGO
3/1/70-2/28/71, INITIAL, \$14,875. SRS-RSA

17D014 FACILITY IMPROVEMENT, KENNEDY JOB TRAINING
CENTER, PALOS
6/29/70-9/30/71, INITIAL, \$11,691. SRS-RSA

17D015 EVALUATION AND THERAPEUTIC CENTER FOR
MULTIPLE HANDICAPPED CHILDREN, MICHAEL
REESE HOSPITAL, CHICAGO UNIVERSITY OF ILLINOIS,
CHICAGO
7/1/69-6/30/70, CONTINUATION, \$90,000. HSMHA-MCHS

17D017 FACILITY IMPROVEMENT, AURORA ASSOCIATION FOR
THE MENTALLY RETARDED, AURORA
5/15/70-5/14/71, INITIAL, \$23,000. SRS-RSA

17D020 FACILITY IMPROVEMENT GRANT CHICAGO
ASSOCIATION FOR RETARDED CHILDREN, CHICAGO
4/1/70-3/31/71, CONTINUATION, \$54,326. SRS-RSA

17D022 INITIAL STAFFING, JEWISH VOCATIONAL SERVICE OF
CHICAGO, CHICAGO
9/1/69-11/30/70, INITIAL, \$67,323. SRS-RSA

17D025 INTENSIVE TRAINING FOR SEVERELY RETARDED
CHILDREN, WARREN G. MURRAY CHILDREN'S
CENTER, CENTRALIA
1/1/70-12/31/70 CONTINUATION \$94,373. SRS-DMR

17D035 MR INITIAL STAFFING, CHAMPAIGN CO. ASSOC. FOR
THE MENTALLY RETARDED, CHAMPAIGN
9/1/70-8/31/71 CONTINUATION \$7,803. SRS-DMR

17D036 MR INITIAL STAFFING CHICAGO ASSOCIATION FOR
RETARDED CHILDREN, CHICAGO
7/1/70-6/30/71 INITIAL \$34,650. SRS-DMR

17D040 MR INITIAL STAFFING, CHICAGO BOARD OF HEALTH,
CHICAGO
7/1/70-6/30/71 CONTINUATION \$27,617. SRS-DMR

17D045 MR INITIAL STAFFING, CLEARBROOK CENTER FOR THE
RETARDED, ROLLING MEADOWS
7/1/70-6/30/71 CONTINUATION \$56,747. SRS-DMR

17D050 MR INITIAL STAFFING, COLES COUNTY ASSOCIATION
FOR THE RETARDED, MATTOON
9/1/70-8/31/71 CONTINUATION \$11,628. SRS-DMR

17D051 MR INITIAL STAFFING COLES COUNTY ASSOCIATION
FOR THE RETARDED, CHARLESTON
7/1/70-6/30/71 INITIAL \$62,250. SRS-DMR

17D055 MR INITIAL STAFFING, COMMUNITY MENTAL HEALTH
BOARD OF MACON COUNTY, DECATUR
7/1/70-6/30/71 CONTINUATION \$25,618. SRS-DMR

17D065 MR INITIAL STAFFING, JACKSON CO. WORK ACTIVITY
CENTER FOR THE MR, MURPHYSBORO
7/1/70-6/30/71 CONTINUATION \$8,165. SRS-DMR

17D075 MR INITIAL STAFFING, LUTHERAN WELFARE SERVICES
OF ILLINOIS, CHICAGO
7/1/70-6/30/71 CONTINUATION \$32,558. SRS-DMR

17D080 MR INITIAL STAFFING, MICHAEL REESE HOSPITAL,
CHICAGO
9/1/70-8/31/71 CONTINUATION \$28,209. SRS-DMR

17D085 MR INITIAL STAFFING, PEORIA ASSOCIATION FOR
RETARDED CHILDREN, INC., PEORIA
7/1/70-6/30/71 CONTINUATION \$42,968. SRS-DMR

17D090 MR INITIAL STAFFING, PEORIA PROGRAM SERVICES,
CHAPTER, UCP OF NORTHWESTERN ILLINOIS, PEORIA
7/1/70-6/30/71 CONTINUATION \$15,020. SRS-DMR

17D091 MR INITIAL STAFFING UNITED CEREBRAL PALSY OF
NORTHEASTERN ILLINOIS, DECATUR
7/1/70-6/30/71 CONTINUATION \$19,127. SRS-DMR

17D092 MR INITIAL STAFFING UNITED CEREBRAL PALSY OF
SOUTHERN ILL., GREENVILLE
7/1/70-6/30/71 INITIAL \$19,127. SRS-DMR

17D093 MR INITIAL STAFFING UNITED CEREBRAL PALSY OF
LAND OF LINCOLN, SPRINGFIELD
7/1/70-6/30/71 INITIAL \$19,127. SRS-DMR

17D094 MR INITIAL STAFFING UNITED CEREBRAL PALSY OF
SOUTHERN ILLINOIS, GREENVILLE
7/1/70-6/30/71 INITIAL \$19,127. SRS-DMR

17D096 MR INITIAL STAFFING UNITED PARENTS FOR
EXCEPTIONAL CHILDREN, KANKAKEE
7/1/70-6/30/71 INITIAL \$13,627. SRS-DMR

17D100 MR INITIAL STAFFING, WARREN ACHIEVEMENT
SCHOOL FOR HANDICAPPED CHILDREN, MONMOUTH
9/1/70-8/31/71 CONTINUATION \$18,296. SRS-DMR

17D110 PREVENTIVE INTERVENTION FOR RETARDED
CHILDREN, ILLINOIS STATE PEDIATRIC INSTITUTE,
CHICAGO
3/1/70-2/28/71 CONTINUATION \$25,307. SRS-DMR

17D113 PROJECT DEVELOPMENT, BI-STATE METROPOLITAN
PLANNING COMMISSION, ROCK ISLAND
6/29/70-6/28/71, INITIAL, \$10,000. SRS-RSA

17D114 PROJECT DEVELOPMENT, DANVILLE JUNIOR COLLEGE,
DANVILLE
3/1/70-2/28/71, INITIAL, \$7,435. SRS-RSA

17D115 STIMULATION BY INTENSIVE PHYSICAL AND ACTIVITY
THERAPY, WILLIAM W. FOX CHILDREN'S CENTER,
DWIGHT
6/1/70-5/31/71 CONTINUATION \$92,150. SRS-DMR

17D116 STUDENT WORK EXPERIENCE AND TRAINING CHICAGO
ASSOCIATION FOR RETARDED CHILDREN, CHICAGO
6/1/70-8/31/70 CONTINUATION \$28,512. SRS-DMR

INDIANA

TRAINING

18B001 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-
UNIVERSITY AFFILIATED FACILITY, INDIANA
UNIVERSITY, BLOOMINGTON, INDIANA,
6/1/70-8/31/71, RENEWAL, \$25,000. OE

18B002 MENTAL RETARDATION TRAINING, INDIANA
UNIVERSITY MEDICAL CENTER, INDIANAPOLIS
7/1/69-6/30/70, INITIAL, \$201,378. HSMHA-MCHS

18B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN BALL
STATE UNIVERSITY, MUNCIE
6/1/70-8/31/71, RENEWAL, \$30,500. OE

18B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN INDIANA
STATE UNIVERSITY, TERRE HAUTE
6/1/70-8/31/71, RENEWAL, \$36,100. OE

18B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN INDIANA
UNIVERSITY, BLOOMINGTON
6/1/70-8/31/71, RENEWAL, \$110,900. OE

18B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF PUBLIC INSTRUCTION,
INDIANAPOLIS
6/1/70-8/31/71, RENEWAL, \$51,250. OE

18B035 TRAINING IN BASIC AND ADVANCED PSYCHIATRIC
NURSING FOR AIDES MR MUSCATATUCK STATE
HOSPITAL AND TRAINING CENTER, BUTLERVILLE
7/1/70-6/30/71 CONTINUATION \$14,204. SRS-DMR

CONSTRUCTION

18C005 COMMUNITY FACILITIES CONSTRUCTION STONE BELT
CENTER, BLOOMINGTON
8/19/69 \$206,233. INITIAL SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

OTHER

- 18D001 STUDENT WORK EXPERIENCE AND TRAINING, COUNCIL FOR RETARDED OF ST. JOSEPH COUNTY, SOUTH BEND
6/1/70-8/31/70 INITIAL \$11,880. SRS-DMR
- 18D002 FACILITY IMPROVEMENT, SOUTHERN INDIANA RETARDATION, INC., TELL CITY
4/1/70-3/31/71, INITIAL, \$22,500. SRS-RSA
- 18D003 FACILITY IMPROVEMENT, WABASH CENTER FOR THE MENTALLY RETARDED, LAFAYETTE
4/15/70-4/14/71, INITIAL, \$27,331. SRS-RSA
- 18D010 FUNCTIONAL TRAINING PROGRAM, FORT WAYNE STATE HOSPITAL AND TRAINING CENTER, FORT WAYNE
9/1/69-8/31/70 CONTINUATION \$79,273. SRS-DMR
- 18D015 MR INITIAL STAFFING ALLEN COUNTY ASSOC. FOR RETARDED, FORT WAYNE
9/1/70-8/31/71 INITIAL \$32,643. SRS-DMR
- 18D018 MR INITIAL STAFFING CHILD ADULT RETARDATION SERVICES, ROCKVILLE
9/1/70-8/31/71 INITIAL \$33,396. SRS-DMR
- 18D019 MR INITIAL STAFFING COUNCIL FOR RETARDED OF ST. JOSEPH COUNTY, SOUTH BEND
9/1/70-8/31/71 INITIAL \$37,143. SRS-DMR
- 18D020 MR INITIAL STAFFING COUNCIL FOR THE RETARDED OF CLARK COUNTY, JEFFERSONVILLE
9/1/70-8/31/71 INITIAL \$15,750. SRS-DMR
- 18D021 MR INITIAL STAFFING ELKHART COUNTY ASSOC. FOR RETARDED, ELKHART
7/1/70-6/30/71 INITIAL \$9,469. SRS-DMR
- 18D022 MR INITIAL STAFFING COMMUNITY SHELTERED WORKSHOP OF STEUBEN COUNTY INC, PLEASANT LAKE
9/1/70-8/31/71 INITIAL \$7312. SRS-DMR
- 18D025 MR INITIAL STAFFING, COUNCIL FOR RETARDED OF ST. JOSEPH CO., INC., SOUTH BEND
9/1/70-8/31/71 CONTINUATION \$14,596. SRS-DMR
- 18D026 MR INITIAL STAFFING HARRISON COUNTY ASSOC. FOR RETARDED CHILDREN, PALMYRA
7/1/70-6/30/71 INITIAL \$10,690. SRS-DMR
- 18D027 MR INITIAL STAFFING INDIANA UNIVERSITY FOUNDATION, BLOOMINGTON
7/1/70-6/30/71 INITIAL \$111,282. SRS-DMR
- 18D031 MR INITIAL STAFFING STONE BELT COUNCIL FOR RETARDED CHILDREN, BLOOMINGTON
7/1/70-6/30/71 INITIAL \$13,241. SRS-DMR
- 18D046 MR INITIAL STAFFING WABASH CENTER FOR MENTALLY RETARDED, LAFAYETTE
7/1/70-6/30/71 INITIAL \$14,327. SRS-DMR
- 18D035 MR INITIAL STAFFING, MARION CO. ASSOC. FOR RETARDED CHILDREN, INC., INDIANAPOLIS
1/1/70-12/31/70, INITIAL, \$42,300, SRS-DMR
- 18D040 MR INITIAL STAFFING, MARSHALL STARKE DEVELOPMENT CENTER, PLYMOUTH
9/1/69-8/31/70, INITIAL, \$12,375, SRS-DMR
- 18D045 MR INITIAL STAFFING, PARENTS COUNCIL FOR HAND. AND RET. CHILD. OF LAPORTE CO., MICH. CITY
7/1/69-6/30/70, INITIAL, \$4,806, SRS-DMR
- 18D050 MR INITIAL STAFFING, WAYNE CO. COUNCIL FOR RETARDED CHILDREN, INC., RICHMOND
9/1/69-8/31/70, INITIAL, \$28,575, SRS-DMR
- 18D055 NEW HORIZONS REHABILITATION AURORA
2/1/69-1/31/70, INITIAL, \$4,500. SRS RSA
- 18D060 PARKE COUNTY ASSOCIATION FOR PARENTS AND FRIENDS OF RETARDED CHILDREN ROCKVILLE
3/1/69-2/28/70, INITIAL, \$4,500. SRS RSA
- 18D065 SELF-CARE DEVELOPMENT AND VOCATIONAL HABILITATION NEW CASTLE STATE HOSPITAL, NEW CASTLE
9/1/68-8/31/69, RENEWAL, \$30,156, SRS-DMR

IOWA

TRAINING

- 19B005 CLINICAL TRAINING FOR SPEECH AND HEARING SERVICES UNIVERSITY OF IOWA, IOWA CITY
7/1/69-6/30/70, CONTINUATION, \$25,091. HSMHA-MCHS
- 19B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN DRAKE UNIVERSITY, DES MOINES
FY 1969, RENEWAL, \$17,700. OE
- 19B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, DES MOINES
FY 1969, RENEWAL, \$25,500. OE
- 19B016 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, UNIVERSITY OF NORTHERN IOWA, CEDAR FALLS, IOWA,
6/1/70-8/31/70, INITIAL, \$14,300. OE
- 19B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE UNIVERSITY OF IOWA, IOWA CITY
FY 1969, RENEWAL, \$85,200. OE
- 19B025 TRAINING FOR ATTENDANT LEVEL PERSONNEL MR GLENWOOD STATE SCHOOL, GLENWOOD
7/1/70-6/30/71 CONTINUATION \$22,431. SRS-DMR

CONSTRUCTION

- 19C005 COMMUNITY FACILITIES CONSTRUCTION SLINKER DEVELOPMENT CENTER, DES MOINES
6/23/71 INITIAL \$362,106. SRS-DMR

OTHER

- 19D004 STUDENT WORK EXPERIENCE AND TRAINING DEPT. OF SOCIAL SERVICES BUREAU OF MENTAL RETARDATION, DES MOINES
6/1/70-8/31/70 INITIAL \$7,575. SRS-DMR
- 19D010 CLINICAL RESEARCH IN MENTAL RETARDATION, GENETICS STUDIES UNIVERSITY OF IOWA, IOWA CITY
7/1/69-6/30/70, CONTINUATION, \$57,050. HSMHA-MCHS
- 19D015 CLINICAL RESEARCH IN SPEECH AND LANGUAGE SKILLS OF RETARDED CHILDREN UNIVERSITY OF IOWA, IOWA CITY
7/1/69-6/30/70, CONTINUATION, \$42,000. HSMHA-MCHS
- 19D020 CLINICAL RESEARCH, STUDY AND CARE PROGRAM FOR PATIENTS WITH PHENYLKETONURIA UNIVERSITY OF IOWA, IOWA CITY
7/1/69-6/30/70, CONTINUATION, \$9,050. HSMHA-MCHS
- 19D025 FACILITY IMPROVEMENT, SOCIETY OF HOPE HAVEN SCHOOL FOR HANDICAPPED CHILDREN, ROCK VALLEY
6/1/70-5/31/71, INITIAL, \$27,331. SRS-RSA
- 19D030 FIELD CLINIC SERVICES FOR MENTALLY RETARDED PATIENTS UNIVERSITY OF IOWA, IOWA CITY
7/1/69-6/30/70, CONTINUATION, \$110,285. HSMHA-MCHS
- 19D035 FOLLOW-UP CARE OF HIGH RISK PATIENTS FOR IDENTIFICATION AND PREVENTION OF MENTAL RETARDATION
7/1/69-6/30/70, CONTINUATION, \$74,500. HSMHA-MCHS
7/1/68-6/30/69, RENEWAL, \$73,688. SRS-CB
- 19D040 INTERAGENCY CASE INFORMATION SERVICE DEPARTMENT OF SOCIAL SERVICES, DES MOINES
1/1/70-12/31/70, CONTINUATION, \$39,394. CHS-P
- 19D045 MR INITIAL STAFFING DIVISION OF REHABILITATION, EDUCATION, AND SERVICES, DES MOINES
7/1/70-6/30/71 INITIAL \$15,048. SRS-DMR
- 19D050 MR INITIAL STAFFING, EXCEPTIONAL PERSONS, INC., WATERLOO
7/1/70-6/30/71 CONTINUATION \$44,859. SRS-DMR
- 19D055 TRAINER-EVALUATORS FOR LOW FUNCTIONAL RETARDATES, GLENWOOD STATE HOSPITAL AND SCHOOL, GLENWOOD
6/1/70-5/31/71 CONTINUATION \$77,795. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 19D060 MR INITIAL STAFFING, MARSHALL COUNTY BOARD OF EDUCATION, MARSHALLTOWN
7/1/70-6/30/71 CONTINUATION \$9,690. SRS-DMR
- 19D061 MR INITIAL STAFFING MARSHALL COUNTY BOARD OF EDUCATION, MARSHALLTOWN
8/1/70-7/31/71 INITIAL \$38,177. SRS-DMR
- 19D065 MR INITIAL STAFFING, POLK CO. ASSOC. FOR RETARDED CHILDREN, DES MOINES
7/1/70-6/30/71 CONTINUATION \$12,113. SRS-DMR
- 19D066 MR INITIAL STAFFING POTTAWATTAMIE COUNTY BOARD OF EDUCATION, COUNCIL BLUFFS 8/1/70-7/31/71 INITIAL \$24,750. SRS-DMR
- 19D067 MR INITIAL STAFFING TINY TOT COMPREHENSIVE CHILD CARE, DES MOINES
7/1/70-6/30/71 INITIAL \$20,850. SRS-DMR

KANSAS

TRAINING

- 20B005 ACREAGE AND BUILDINGS AT SCHILLING AIR FORCE BASE, SALINA, KANSAS, CONVEYED TO STATE OF KANSAS, RETRANSFERRED TO CENTER FOR REHABILITATION TRAINING FACILITY FOR MENTALLY AND PHYSICALLY HANDICAPPED.
10/4/69, INITIAL, \$173,712. OGPU
- 20B010 CHILDREN'S REHABILITATION UNIT UNIVERSITY OF KANSAS, KANSAS CITY
7/1/68-6/30/69, RENEWAL, \$254,100. SRS-CB
- 20B011 ADULT EDUCATION METHODS APPLIED TO INSERVICE TRAINING KANSAS NEUROLOGICAL INSTITUTE, TOPEKA
6/1/70-5/31/71 INITIAL \$22,442. SRS-DMR
- 20B012 MENTAL RETARDATION, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS,
7/70-6/71, CONTINUATION, \$155,579. NICHD
- 20B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN FORT HAYS KANSAS STATE COLLEGE, HAYS
FY 1969, RENEWAL, \$20,200. OE
- 20B016 DEVELOPMENTAL AND CHILD PSYCHOLOGY, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS,
7/70-6/71, CONTINUATION, \$46,539. NICHD
- 20B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN KANSAS STATE TEACHER'S COLLEGE, EMPORIA
6/1/70-8/31/71, RENEWAL, \$52,600. OE
- 20B021 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT- UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF KANSAS, LAWRENCE, KANSAS,
6/1/70-8/31/71, RENEWAL, \$21,000. OE
- 20B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, TOPEKA
6/1/70-8/31/71, RENEWAL, \$19,332. OE
- 20B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF KANSAS, LAWRENCE
6/1/70-8/31/71, RENEWAL, \$57,100. OE
- 20B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WICHITA STATE UNIVERSITY, WICHITA
6/1/70-8/31/71, RENEWAL, \$12,000. OE
- 20B036 STUDENT WORK EXPERIENCE AND TRAINING NORTON STATE HOSPITAL, NORTON
6/1/70-5/31/71 INITIAL \$5,320. SRS-DMR
- 20B040 TRAINING CARE OF ADULT RETARDATES MR WINFIELD STATE HOSPITAL AND TRAINING CENTER, WINFIELD
7/1/69-6/30/70, RENEWAL, \$16,906. SRS-DMR
- 20B045 TRAINING CHARGE AIDES, REGISTERED NURSES AND PSYCHIATRIC AIDES MR KANSAS NEUROLOGICAL INSTITUTE, TOPEKA
7/1/69-6/30/70, RENEWAL, \$15,318. SRS-DMR
- 20B046 MENTAL RETARDATION HOSPITAL AND TRAINING CENTER WINFIELD STATE HOSPITAL AND TRAINING CENTER, WINFIELD
7/1/70-6/30/71 INITIAL \$24,236. SRS-DMR

CONSTRUCTION

- 20C020 WORKSHOPS IN SPEECH, HEARING AND LANGUAGE OF THE MENTALLY RETARDED, UNIVERSITY OF KANSAS, KANSAS CITY 7/1/69-6/30/70, INITIAL, \$30,500. HSMHA-MCHS

OTHER

- 20D005 COMMUNITY ACTIVITY PROGRAM FOR MENTALLY RETARDED ADULTS BUTLER COUNTY COUNCIL FOR SPECIAL SERVICES, EL DORADO
6/1/70-5/31/71 CONTINUATION \$15,337. SRS-DMR
- 20D010 COMMUNITY TRANSITIONAL ADJUSTMENT PROGRAM FOR MR. PARSONS STATE HOSPITAL AND TRAINING CENTER, PARSON
2/1/70-1/31/71 CONTINUATION \$43,170. SRS-DMR
- 20D020 DEVELOPMENT OF TEACHING MATERIAL IN MENTAL RETARDATION PARSONS STATE HOSPITAL AND TRAINING CENTER, PARSONS
5/1/69-4/30/70, RENEWAL, \$60,000. SRS-RSA
- 20D025 INTENSIVE DISCHARGE TRAINING PROGRAM FOR YOUNG ADULTS NORTON STATE HOSPITAL, NORTON
1/1/70-12/31/70 INITIAL \$100,000. SRS-DMR
- 20D030 INTENSIVE TRAINING OF INSTITUTIONALIZED MENTALLY RETARDED GIRLS UNIVERSITY OF KANSAS BUREAU OF CHILD RESEARCH, LAWRENCE
7/1/69-8/31/70, CONTINUATION, \$105,601. CHS-P
- 20D035 INTENSIVE TRAINING UNIT, M/R MULTI-HANDICAPPED WSH AND TC, WINFIELD STATE HOSPITAL AND TRAINING CENTER, WINFIELD
9/1/69-8/31/70 CONTINUATION \$71,558. SRS-DMR
- 20D036 STUDENT WORK EXPERIENCE AND TRAINING NORTON STATE HOSPITAL, NORTON
6/1/70-5/31/71 INITIAL \$5,320. SRS-DMR
- 20D037 TRAINING THE ADULT RETARDED FOR COMMUNITY LIVING KANSAS CITY ASSOCIATION FOR RETARDED CHILDREN, MISSION
6/1/70-5/31/71 INITIAL \$30,285. SRS-DMR
- 20D038 MR INITIAL STAFFING KANSAS ELKS TRAINING CENTER FOR RETARDED, WICHITA
7/1/70-6/30/71 INITIAL \$28,819. SRS-DMR
- 20D039 MR INITIAL STAFFING KANSAS CITY ASSOCIATION FOR RETARDED CHILDREN, MISSION
7/1/70-6/30/71 INITIAL \$34,980. SRS-DMR
- 20D040 MR INITIAL STAFFING, LAKEMARY CENTER, INC., PAOLA
9/1/70-8/31/71 CONTINUATION \$85,272. SRS-DMR
- 20D041 MR INITIAL STAFFING LAKEMARY CENTER, PAOLA
9/1/70-8/31/71 INITIAL \$11,340. SRS-DMR
- 20D045 MR INITIAL STAFFING, WICHITA-SEDGWICK CO. ASSOC. FOR RETARDED CHILDREN, INC., WICHITA
7/1/70-6/30/71 CONTINUATION \$43,423. SRS-DMR
- 20D046 PRE-LINGUISTIC LANGUAGE AND LEARNING PROGRAM FOR MENTALLY RETARDED CHILD, WINFIELD STATE HOSPITAL AND TRAINING CENTER, WINFIELD
6/25/70-5/31/71 INITIAL \$30,123. SRS-DMR
- 20D050 TRAINING SERVICES GRANT, VOCATIONAL REHABILITATION UNIT, TOPEKA
6/15/70-6/14/71, CONTINUATION, \$69,320. SRS-RSA

KENTUCKY

TRAINING

- 21B003 CHILD WITH MULTIPLY HANDICAPPING CONDITIONS: EFFECTIVE NURSE-CHILD COMMUNICATIONS, UNIVERSITY OF LOUISVILLE, LOUISVILLE
7/1/69-3/31/70, INITIAL, \$2,000. HSMHA-MCHS
- 21B005 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF LOUISVILLE, LOUISVILLE
6/1/70-5/31/71, CONTINUATION, \$24,397. SRS-RSA
- 21B006 INTER-DEPARTMENTAL STAFF DEVELOPMENT TRAINING OUTWOOD HOSPITAL AND SCHOOL
5/1/70-4/30/71 INITIAL \$24,300. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 21B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BRESCIA COLLEGE, OWENSBORO
6/1/70-8/31/71, RENEWAL, \$11,800. OE
- 21B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MURRAY STATE UNIVERSITY, MURRAY
6/1/70-8/31/71, RENEWAL, \$14,000. OE
- 21B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, FRANKFORT
6/1/70-8/31/71, RENEWAL, \$48,000. OE
- 21B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF KENTUCKY, LEXINGTON
6/1/70-8/31/71, RENEWAL, \$60,100. OE
- 21B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF LOUISVILLE, LOUISVILLE
6/1/70-8/31/71, RENEWAL, \$35,500. OE
- 21B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BELLARMINE-URSULINE COLLEGE, LOUISVILLE, KENTUCKY,
6/1/70-8/31/71, RENEWAL, \$14,600. OE
- 21B038 THE ROLE OF THE NURSE IN CARING FOR CHILDREN WITH MULTIPLE HANDICAPS, UNIVERSITY OF KENTUCKY, LEXINGTON
7/1/69-12/31/69, INITIAL, \$3,500. HSMHA-MCHS
- 21B040 TRAINING FOR SUPERVISORY STAFF AND ATTENDANT PERSONNEL MR FRANKFORT STATE HOSPITAL AND SCHOOL, FRANKFORT
7/1/70-6/30/71 CONTINUATION \$24,300. SRS-DMR

CONSTRUCTION

- 21C005 CHILD EVALUATION CENTER, UNIVERSITY OF LOUISVILLE STATE DEPARTMENT OF HEALTH, FRANKFORT
7/1/69-6/30/70, CONTINUATION, \$197,500. HSMHA-MCHS

OTHER

- 21D005 ADULT ACTIVITY PROGRAM FOR MODERATELY AND SEVERELY RETARDED IOTH REGION MENTAL HEALTH AND MENTAL RETARDATION BOARD, PRESTONBURG
6/25/70-5/31/71 INITIAL \$35,295. SRS-DMR
- 21D006 EXPERIENCE CENTERS FOR MODERATE AND SEVERE RETARDS OUTWOOD HOSPITAL AND SCHOOL, DAWSON SPRINGS
1/1/70-12/31/70 INITIAL \$62,974. SRS-DMR
- 21D010 INTENSIVE TEAM APPROACH TO PROBLEM SOLVING FRANKFORT STATE HOSPITAL AND SCHOOL, FRANKFORT
1/1/70-12/31/70 INITIAL \$90,000. SRS-DMR
- 21D015 MR INITIAL STAFFING, BLUE GRASS ASSOCIATION FOR MENTAL RETARDATION, INC., LEXINGTON
9/1/70-8/31/71 CONTINUATION \$18,505. SRS-DMR
- 21D016 MR INITIAL STAFFING COMPREHEND, INC., MAYSVILLE
7/1/70-6/30/71 INITIAL \$9,000. SRS-DMR
- 21D017 MR INITIAL STAFFING CAVE RUN REGIONAL MH-MR BOARD, MOREHEAD
9/1/70-8/31/71 INITIAL \$9,000. SRS-DMR
- 21D020 MR INITIAL STAFFING GREEN RIVER REGIONAL MH-MR BOARD, OWENSBORO
7/1/70-6/30/71 INITIAL \$59,850. SRS-DMR
- 21D029 MR INITIAL STAFFING NORTHERN KENTUCKY MH-MR BOARD, COVINGTON
7/1/70-6/30/71 INITIAL \$56,625. SRS-DMR
- 21D030 MR INITIAL STAFFING, KENTON CAMPBELL ASSOC. FOR THE MENTALLY RETARDED, INC., NEWPORT
9/1/70-8/31/71 CONTINUATION \$21,125. SRS-DMR
- 21D031 MR INITIAL STAFFING NINETEENTH REGIONAL MH-MR BOARD, ASHLAND
7/1/70-6/30/71 INITIAL \$24,750. SRS-DMR
- 21D032 MR INITIAL STAFFING NORTH CENTRAL REGIONAL MH-MR BOARD, ELIZABETHTOWN
7/1/70-6/30/71 INITIAL \$18,478. SRS-DMR

- 21D033 MR INITIAL STAFFING MAMMOTH CAVE MH-MR BOARD, GLASGOW
8/1/70-7/31/71 INITIAL \$15,750. SRS-DMR
- 21D034 MR INITIAL STAFFING REGION V MH-MR BOARD, BOWLING GREEN
8/1/70-7/31/71 INITIAL \$7,500. SRS-DMR
- 21D035 MR INITIAL STAFFING PENNYROYAL REGIONAL MH-MR BOARD, HOPKINSVILLE
7/1/70-6/30/71 INITIAL \$19,275. SRS-DMR
- 21D036 MR INITIAL STAFFING REGION 20 MH-MR BOARD, PRESTONBURG
7/1/70-6/30/71 INITIAL \$23,500. SRS-DMR
- 21D037 MR INITIAL STAFFING REGION 12 LAKE CUMBERLAND MH-MR BOARD, SOMERSET
7/1/70-6/30/71 INITIAL \$18,750. SRS-DMR
- 21D038 MR INITIAL STAFFING SOUTHERN BLUEGRASS MH-MR BOARD, DANVILLE
7/1/70-6/30/71 INITIAL \$12,750. SRS-DMR
- 21D040 PROGRAM PLANNING IN HOME ECONOMICS FOR EDUCABLES, OUTWOOD HOSPITAL AND SCHOOL, DAWSON SPRINGS
1/1/70-12/31/70 CONTINUATION \$26,007. SRS-DMR
- 21D045 TRAINING SERVICES GRANT, OPPORTUNITY WORKSHOP OF LEXINGTON, INC., LEXINGTON
6/15/70-6/14/71, CONTINUATION, \$63,936. SRS-RSA

LOUISIANA

TRAINING

- 22B005 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS LOUISIANA STATE UNIVERSITY, BATON ROUGE
9/1/68-8/31/69, RENEWAL, \$21,014. SRS-RSA
- 22B010 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS TULANE UNIVERSITY, NEW ORLEANS
9/1/68-8/31/69, RENEWAL, \$29,375. SRS-RSA
- 22B015 INSERVICE TRAINING PROGRAM FOR COTTAGE PARENTS MR RUSTON STATE SCHOOL, RUSTON
7/1/70-6/30/71 CONTINUATION \$22,469. SRS-DMR
- 22B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GRAMBLING COLLEGE, GRAMBLING
6/1/70-8/31/71, RENEWAL, \$17,700. OE
- 22B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN LOUISIANA POLYTECHNIC INSTITUTE, RUSTON
6/1/70-8/31/71, RENEWAL, \$15,000. OE
- 22B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN LOUISIANA STATE UNIVERSITY AND A. AND M. COLLEGE, BATON ROUGE
6/1/70-8/31/71, RENEWAL, \$37,100. OE
- 22B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN LOUISIANA STATE UNIVERSITY, NEW ORLEANS
6/1/70-8/31/71, RENEWAL, \$37,100. OE
- 22B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTHERN UNIVERSITY AND A & M COLLEGE, BATON ROUGE, LOUISIANA,
6/1/70-8/31/71, RENEWAL, \$14,600. OE
- 22B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, BATON ROUGE
6/1/70-8/31/71, RENEWAL, \$66,654. OE
- 22B055 STAFF DEVELOPMENT THROUGH ADMINISTRATIVE AND SUPERVISORY TRAINING BELLE CHASSE STATE SCHOOL, BELLE CHASSE
7/1/70-6/30/71 CONTINUATION \$17,698. SRS-DMR
- 22B060 TRAINING ATTENDANT PSYCHIATRIC AIDES AND NURSING AIDE PERSONNEL MR PINECREST STATE SCHOOL, PINEVILLE
7/1/70-6/30/71 CONTINUATION \$23,750. SRS-DMR

CONSTRUCTION

- 22C002 COMMUNITY FACILITIES CONSTRUCTION, BELLE CHASSE STATE SCHOOL, BELLE CHASSE

- 4/13/70, INITIAL, \$640,000. HSMHA-HFPCS
- 22C005 COMMUNITY FACILITIES CONSTRUCTION BATON ROUGE ASSOC. FOR RETARDED, BATON ROUGE 6/30/70 \$150,000. INITIAL SRS-DMR
- 22C010 COMMUNITY FACILITIES CONSTRUCTION HOLY ANGEL SCHOOL, SHREVEPORT 6/30/70 INITIAL \$374,721. SRS-DMR

OTHER

- 22D002 STUDENT WORK EXPERIENCE AND TRAINING BELLE CHASSE STATE SCHOOL, BELLE CHASSE 6/1/70-8/31/70 INITIAL \$4,352. SRS-DMR
- 22D003 STUDENT WORK EXPERIENCE AND TRAINING PINECREST STATE SCHOOL, PINEVILLE 6/1/70-8/31/70 INITIAL \$4,672. SRS-DMR
- 22D015 MR INITIAL STAFFING, PINECREST STATE SCHOOL, PINEVILLE 9/1/70-8/31/71 CONTINUATION \$18,306. SRS-DMR
- 22D020 REWARD TRAINING AND BEHAVIOR SHAPING, PINECREST STATE SCHOOL, PINEVILLE 2/1/70-1/31/71 CONTINUATION \$88,876. SRS-DMR
- 22D021 MR INITIAL STAFFING TOTAL COMMUNITY ACTION, NEW ORLEANS 1/1/70-8/31/71 INITIAL \$62,538. SRS-DMR

MAINE**TRAINING**

- 23B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN FARMINGTON STATE TEACHER'S COLLEGE, FARMINGTON 6/1/70-8/31/71, RENEWAL, \$19,600. OE
- 23B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, AUGUSTA 6/1/70-8/31/71, RENEWAL, \$26,000. OE
- 23B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MAINE, ORONO 6/1/70-8/31/71, RENEWAL, \$29,600. OE
- 23B020 TRAINING PROGRAM FOR NURSING SERVICE PERSONNEL MR PINELAND HOSPITAL AND TRAINING CENTER, POWNAL 7/1/70-6/30/71 CONTINUATION \$20,310. SRS-DMR

OTHER

- 23D002 MR INITIAL STAFFING ABILITIES AND GOODWILL, PORTLAND 7/1/70-6/30/71 CONTINUATION \$8,746. SRS-DMR
- 23D005 DIAGNOSTIC AND EVALUATION CLINIC FOR MENTALLY RETARDED CHILDREN, WATERVILLE STATE DEPARTMENT OF HEALTH AND WELFARE, AUGUSTA 7/1/69-6/30/70, CONTINUATION, \$40,000. HSMHA-MCHS
- 23D009 MR INITIAL STAFFING DEPARTMENT OF MENTAL HEALTH AND CORRECTIONS, AUGUSTA 7/1/70-6/30/71 INITIAL \$17,837. SRS-DMR
- 23D010 MR INITIAL STAFFING, EASTERN MAINE FRIENDS OF RETARDED CHILDREN, INC., BREWER 7/1/70-6/30/71 CONTINUATION \$5,504. SRS-DMR
- 23D011 MR INITIAL STAFFING EASTERN MAINE FRIENDS OF RETARDED CHILDREN, BREWER 7/1/70-6/30/71 INITIAL \$11,160. SRS-DMR
- 23D015 MR INITIAL STAFFING, GREATER WATERVILLE ASSOC. FOR RETARDED CHILDREN, INC., WATERVILLE 7/1/70-6/30/71 CONTINUATION \$10,264. SRS-DMR
- 23D021 SOCIAL REHABILITATION OF THE SEVERELY AND TRAINABLE RETARDED PINELAND HOSPITAL AND TRAINING CENTER, POWNAL 6/1/70-5/31/71 INITIAL \$89,815. SRS-DMR

MARYLAND**TRAINING**

- 24B012 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-UNIVERSITY AFFILIATED FACILITY, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND 6/1/70-8/31/71, RENEWAL, \$30,000. OE
- 24B015 MULTI-DISCIPLINE PROGRAM FOR CARE OF MENTALLY RETARDED MR HENRYTON STATE HOSPITAL, HENRYTON 7/1/70-8/31/71 CONTINUATION \$19,924. SRS-DMR
- 24B017 NATIONAL CONFERENCE ON SOCIAL WORK EDUCATION, JOHNS HOPKINS UNIVERSITY, BALTIMORE 7/1/69-6/30/70, INITIAL, \$11,335. HSMHA-MCHS
- 24B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN COPPIN STATE COLLEGE, BALTIMORE FY 1969, RENEWAL, \$56,300. OE
- 24B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, BALTIMORE 6/1/70-8/31/71, RENEWAL, \$15,660. OE
- 24B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MARYLAND, COLLEGE PARK 6/1/70-8/31/71, RENEWAL, \$73,000. OE
- 24B037 STUDY OF SCREENING TESTS FOR CHILDHOOD LEAD POISONING, JOHNS HOPKINS UNIVERSITY, BALTIMORE 6/1/69-5/31/70, INITIAL, \$71,957. HSMHA-MCHS
- 24B045 UNIVERSITY-AFFILIATED TRAINING PROGRAM IN MENTAL RETARDATION JOHNS HOPKINS UNIVERSITY, BALTIMORE 7/1/69-6/30/70, CONTINUATION, \$2,056,430. HSMHA-MCHS

CONSTRUCTION

- 24C010 MT. SINAI HOSPITAL GENETICS COUNSELING CLINIC STATE DEPARTMENT OF HEALTH, BALTIMORE 7/1/69-6/30/70, CONTINUATION, \$46,600. HSMHA-MCHS

OTHER

- 24D005 FACILITY IMPROVEMENT, BALTIMORE ASSOCIATION FOR RETARDED CHILDREN, BALTIMORE 1/1/70-12/31/70, CONTINUATION, \$11,353
- 24D010 FACILITY IMPROVEMENT, CHESAPEAKE REHABILITATION CENTER, INC. EASTON 6/29/70-6/28/71, INITIAL, \$12,704. SRS-RSA
- 24D017 INITIAL STAFFING, JEANNE BUSSARD TRAINING WORKSHOP, FREDERICK 6/29/70-9/28/71, INITIAL, \$70,268. SRS-RSA
- 24D020 MR INITIAL STAFFING, ANNE ARUNDEL CO. DAY CARE CTR. FOR RETARDED CHILDREN, INC., ANNAPOLIS 7/1/70-6/30/71 CONTINUATION \$23,524. SRS-DMR
- 24D024 MR INITIAL STAFFING BALTIMORE ASSOC. FOR RETARDED CHILDREN, BALTIMORE 9/1/70-8/31/71 INITIAL \$27,145. SRS-DMR
- 24D025 MR INITIAL STAFFING, CHESTERWYKE DAY CARE ACTIVITIES CENTER, INC., STEVENSVILLE 9/1/70-8/31/71 CONTINUATION \$7,025. SRS-DMR
- 24D026 MR INITIAL STAFFING MELWOOD AGRICULTURAL TRAINING CENTER, UPPER MARLBORO 7/1/70-6/30/71 INITIAL \$31,350. SRS-DMR
- 24D027 MR INITIAL STAFFING NORTHERN MARYLAND SOCIETY FOR AID OF RETARDED CHILDREN, BEL AIR 9/1/70-8/31/71 INITIAL \$38,437. SRS-DMR
- 24D028 MR INITIAL STAFFING SCHOOL OF THE CHIMES, BALTIMORE 9/1/70-8/31/71 INITIAL \$28,692. SRS-DMR
- 24D030 FACILITY IMPROVEMENT, NORTHERN MARYLAND SOCIETY FOR THE AID OF RETARDED CHILDREN, BEL AIR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 6/25/70-6/24/71, CONTINUATION, \$7,296. SRS-RSA
- 24D034 PRE-COMMUNITY ADJUSTMENT PROGRAM FOR ADULT
RETARDATEES HENRYTON STATE HOSPITAL,
HENRYTON
6/25/70-5/31/71 INITIAL \$87,361. SRS-DMR
- 24D036 STUDENT WORK EXPERIENCE AND TRAINING
ROSEWOOD STATE SCHOOL, OWINGS MILLS
6/15/70-9/14/70 INITIAL \$11,846. SRS-DMR
- 24D037 STUDENT WORK EXPERIENCE AND TRAINING D.C.
CHILDREN'S CENTER, LAUREL
6/15/70-9/30/70 INITIAL \$11,020. SRS-DMR

MASSACHUSETTS

TRAINING

- 25B005 A TRAINING PROGRAM FOR PHYSICAL THERAPY AIDES
MR HATHORNE STATE SCHOOL, HATHORNE
7/1/70-6/30/71 CONTINUATION \$9,898. SRS-DMR
- 25B020 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
BOSTON COLLEGE, BOSTON
9/1/69-8/31/70, RENEWAL, \$39,381. SRS-RSA
- 25B021 FROM CUSTODIAL ROUTINE TO THE ATTAINMENT OF
SIGNIFICANT HABILITATION, BELCHERTOWN
BELCHERTOWN STATE SCHOOL
7/1/70-6/30/71 INITIAL \$22,865. SRS-DMR
- 25B040 GRADUATE PROGRAM IN OCCUPATIONAL THERAPY
BOSTON UNIVERSITY, BOSTON
10/1/69-9/30/70, CONTINUATION, \$42,410. HSMHA-MCHS
- 25B041 HOSPITAL INSERVICE TRAINING MENTAL
RETARDATION WALTER E. FERNALD SCHOOL,
WAVERLEY
1/1/70-12/31/70 INITIAL \$22,500. SRS-DMR
- 25B050 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-
UNIVERSITY AFFILIATED FACILITY, HOWARD
UNIVERSITY, CHILDREN'S HOSPITAL MEDICAL
CENTER, BOSTON, MASSACHUSETTS
6/1/70-8/31/71, RENEWAL, \$25,000. OE
- 25B055 MANPOWER DEVELOPMENT-OFFICE OF RETARDATION
FOR MASS. EXECUTIVE OFFICE FOR ADMIN. AND
FINANCE, BOSTON
1/1/70-12/31/70 CONTINUATION \$73,257. SRS-DMR
- 25B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN BOSTON
UNIVERSITY, BOSTON
6/1/70-8/31/71, RENEWAL, \$119,000. OE
- 25B075 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN BOSTON
COLLEGE, CHESTNUT HILL
6/1/70-8/31/71, RENEWAL, \$63,200. OE
- 25B085 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
NORTHEASTERN UNIVERSITY, BOSTON
6/1/70-8/31/71, RENEWAL, \$21,200. OE
- 25B090 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
FITCHBURG STATE COLLEGE, FITCHBURG,
MASSACHUSETTS
6/1/70-8/31/71, RENEWAL, \$37,600. OE
- 25B095 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, BOSTON
6/1/70-8/31/71, RENEWAL, \$29,100. OE
- 25B105 PSYCHIATRY-MENTAL RETARDATION WALTER E.
FERNALD STATE SCHOOL, WALTHAM,
7/1/70-6/30/71 RENEWAL, \$49,976. NIMH
- 25B106 RESEARCH IN MENTAL RETARDATION, BRANDEIS
UNIVERSITY, WALTHAM, MASSACHUSETTS,
7/70-6/71, CONTINUATION, \$106,314. NICHD
- 25B110 TRAINING IN EPILEPSY CHILDREN'S HOSPITAL
MEDICAL CENTER, BOSTON
7/1/69-6/30/70, CONTINUATION, \$63,668. HSMHA-MCHS
- 25B115 TRAINING IN MENTAL RETARDATION
MASSACHUSETTS GENERAL HOSPITAL, BOSTON
7/1/69-6/30/70, CONTINUATION, \$573,712. HSMHA-MCHS
- 25B116 TRAINING IN BEHAVIOR MODIFICATIONS FOR
RETARDED CHILDREN BEHAVIORAL EDUCATION
PROJECTS, BOSTON
7/1/70-6/30/71 INITIAL \$30,040. SRS-DMR

CONSTRUCTION

- 25C005 COMMUNITY FACILITIES CONSTRUCTION ST. COLETTA
DAY SCHOOL, BRAINTREE 6/30/70 INITIAL \$263,504.
SRS-DMR

OTHER

- 25D005 A CHILD EXPERIENCE ENRICHMENT PROGRAM, PAUL A
DEVER STATE SCHOOL, TAUNTON
12/1/69-11/30/70 CONTINUATION \$94,773. SRS-DMR
- 25D010 AN IMPROVED PROGRAM FOR HABILITATION OF THE
RETARDED, BELCHERTOWN STATE SCHOOL,
BELCHERTOWN
1/1/70-12/31/70 CONTINUATION \$52,512. SRS-DMR
- 25D020 CHILDREN'S DEVELOPMENTAL CLINIC, CAMBRIDGE
STATE DEPARTMENT OF PUBLIC HEALTH, BOSTON
7/1/68-6/30/69, RENEWAL, \$135,608 SRS-CB
- 25D025 EXPANDED SCREENING STUDY FOR GALACTOSEMIA
AND OTHER METABOLIC DISORDERS, BOSTON STATE
DEPARTMENT OF PUBLIC HEALTH, BOSTON
7/1/69-6/30/70, CONTINUATION, \$159,320. HSMHA-MCHS
- 25D028 FACILITY IMPROVEMENT, MORGAN MEMORIAL, INC.,
BOSTON
8/5/70-8/4/71, INITIAL, \$20,000. SRS-RSA
- 25D030 FACILITY IMPROVEMENT, SUNSHINE VILLAGE,
CHICOPEE FALLS
6/29/70-6/28/71, INITIAL, \$32,051. SRS-RSA
- 25D040 MR INITIAL STAFFING SELF-HELP, INC, BROCKTON
9/1/70-8/31/71 INITIAL \$56,062. SRS-DMR
- 25D045 MR INITIAL STAFFING SOUTH MIDDLESEX ASSOC. FOR
RETARDED CHILDREN, FRAMINGHAM
7/1/70-6/30/71 INITIAL \$5,764. SRS-DMR
- 25D060 PKU COLLABORATIVE STUDY NEW ENGLAND
DEACONESS HOSPITAL, BOSTON
7/1/69-6/30/70, CONTINUATION, \$36,009. HSMHA-MCHS
- 25D062 TRAINING SERVICES GRANT, SPRINGFIELD GOODWILL
INDUSTRIES, SPRINGFIELD
6/25/70-6/24/71, CONTINUATION, \$150,451. SRS-RSA
- 25D063 STUDENT WORK EXPERIENCE AND TRAINING
BEHAVIORAL EDUCATION PROJECTS, BOSTON
6/1/70-5/31/71 INITIAL \$2,500. SRS-DMR
- 25D065 TRAINING SEVERELY RETARDED ADULTS FROM THE
BACK WARDS, WALTER E FERNALD STATE SCHOOL,
WAVERLEY
9/1/69-8/31/70 CONTINUATION \$57,083. SRS-DMR
- 25D070 TRAINING THE UNTRAINABLE, WRENTHAM STATE
SCHOOL, WRENTHAM
9/1/69-8/31/70 CONTINUATION \$64,013. SRS-DMR

MICHIGAN

TRAINING

- 26B001 APPRAISAL CENTER FOR MULTIPLE HANDICAPPED
CHILDREN, CHILDREN'S HOSPITAL, DETROIT STATE
DEPARTMENT OF PUBLIC HEALTH, LANSING
7/1/69-6/30/70, CONTINUATION, \$100,200. HSMHA-MCHS
- 26B003 CONFERENCE ON THE ROLE OF MCH AND CC
PROGRAMS IN EVOLVING SYSTEMS OF HEALTH CARE
FOR MOTHERS, CHILDREN AND THE MENTALLY AND
PHYSICALLY HANDICAPPED, UNIVERSITY OF
MICHIGAN, ANN ARBOR
7/1/69-6/30/70, INITIAL, \$17,000. HSMHA-MCHS
- 26B005 CONTINUING EDUCATION FOR JUDGES ON MENTAL
RETARDATION UNIVERSITY OF MICHIGAN, ANN
ARBOR
9/1/70-6/30/71 INITIAL \$10,000. SRS-DMR
- 26B006 FIELD INSTRUCTION OF REHABILITATION COUNSELING
STUDENTS MICHIGAN STATE UNIVERSITY, EAST
LANSING
9/1/69-8/31/70, RENEWAL, \$65,464. SRS-RSA
- 26B007 FIELD INSTRUCTION OF SPEECH PATHOLOGY AND
AUDIOLOGY MICHIGAN STATE UNIVERSITY, EAST
LANSING
9/1/69-8/31/70, RENEWAL, \$27,874. SRS-RSA
- 26B008 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
UNIVERSITY OF MICHIGAN, ANN ARBOR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 9/1/68-8/31/69, RENEWAL, \$79,282. SRS-RSA
- 26B009 GRADUATE PROGRAM FOR PHYSICIANS IN THE FIELD OF MENTAL RETARDATION AND ASSOCIATED CONDITIONS UNIVERSITY OF MICHIGAN, ANN ARBOR 7/1/69-6/30/70, CONTINUATION, \$60,685. HSMHA-MCHS
- 26B010 IN-SERVICE TRAINING SYSTEM FOR RESIDENTIAL CARE PERSONNEL MICHIGAN DEPT. OF MENTAL HEALTH, LANSING 9/1/70-8/31/71 INITIAL \$60,264. SRS-DMR
- 26B011 MENTAL RETARDATION TRAINING UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN 7/1/69-6/30/70, CONTINUATION, \$184,501. HSMHA-MCHS
- 26B012 MENTAL STUDY UNIT, UNIVERSITY OF MICHIGAN, ANN ARBOR STATE DEPARTMENT OF PUBLIC HEALTH, LANSING 7/1/69-6/30/70, CONTINUATION, \$100,000. HSMHA-MCHS
- 26B013 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT- UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, 6/1/70-8/31/71, RENEWAL, \$25,000. OE
- 26B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CENTRAL MICHIGAN UNIVERSITY, MT. PLEASANT 6/1/70-8/31/71, RENEWAL, \$23,300. OE
- 26B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN EASTERN MICHIGAN UNIVERSITY, YPSILANTI 6/1/70-8/31/71, RENEWAL, \$71,600. OE
- 26B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MICHIGAN STATE UNIVERSITY, EAST LANSING 6/1/70-8/31/71, RENEWAL, \$54,500. OE
- 26B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHERN MICHIGAN UNIVERSITY, MARQUETTE 6/1/70-8/31/71, RENEWAL, \$11,500. OE
- 26B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, LANSING 6/1/70-8/31/71, RENEWAL, \$57,847. OE
- 26B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MICHIGAN, ANN ARBOR 6/1/70-8/31/71, RENEWAL, \$72,200. OE
- 26B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WAYNE STATE UNIVERSITY, DETROIT 6/1/70-8/31/71, RENEWAL, \$33,900. OE
- 26B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WESTERN MICHIGAN UNIVERSITY, KALAMAZOO 6/1/70-8/31/71, RENEWAL, \$49,200. OE

CONSTRUCTION

- 26C005 COMMUNITY FACILITIES CONSTRUCTION MACOMB REGIONAL RETARDATION CENTER, MT. CLEMENS 6/29/70 INITIAL \$759,129. SRS-DMR
- 26C010 COMMUNITY FACILITIES CONSTRUCTION NEWAY CENTER FOR THE HANDICAPPED, NEWAYGO 6/25/70 INITIAL \$150,000. SRS-DMR
- 26C015 COMMUNITY FACILITIES CONSTRUCTION MACOMB TRAINABLE CENTER, UTICA 6/29/70 INITIAL \$400,000. SRS-DMR

OTHER

- 26D004 BEHAVIOR ANALYSIS AND THERAPY WARD PLYMOUTH STATE HOME AND TRAINING SCHOOL, NORTHVILLE 6/1/70-5/31/71 INITIAL \$92,528. SRS-DMR
- 26D005 COMPREHENSIVE PROGRAMMING FOR THE SEVERELY RETARDED, FORT CUSTER STATE HOME, AUGUSTA 3/1/70-2/28/71 CONTINUATION \$99,962. SRS-DMR
- 26D011 ESTABLISHMENT OF AN EXTENDED SHELTERED WORKSHOP LANSING SCHOOL DISTRICT, LANSING 6/1/70-5/31/71 INITIAL \$50,595. SRS-DMR
- 26D015 HABIT TRAINING OF THE SEVERELY RETARDED, MOUNT PLEASANT STATE HOME AND TRAINING SCHOOL, MOUNT PLEASANT

- 6/1/70-5/31/71 CONTINUATION \$90,893. SRS-DMR
- 26D020 MR INITIAL STAFFING GENESSEE COUNTY COMMUNITY HEALTH SERVICES BOARD, FLINT 9/1/70-8/31/71 INITIAL \$279,750. SRS-DMR
- 26D025 MR INITIAL STAFFING, PLYMOUTH STATE HOME AND TRAINING SCHOOL, NORTHVILLE 7/1/70-6/30/71 CONTINUATION \$91,481. SRS-DMR
- 26D030 PATIENT PROGRESS BY EVALUATION AND PHYSICAL THERAPY, CARO STATE HOSPITAL FOR EPILEPTICS, CARO 1/1/70-12/31/70 CONTINUATION \$48,874. SRS-DMR

MINNESOTA

TRAINING

- 27B004 CHILD DEVELOPMENT TECHNICIAN TRAINING PROGRAM ST. MARY'S JUNIOR COLLEGE, MINNEAPOLIS 7/1/70-6/30/71 INITIAL \$47,152. SRS-DMR
- 27B005 CHILD DEVELOPMENT TECHNICIAN TRAINING PROGRAM ST. MARY'S JUNIOR COLLEGE, MINNEAPOLIS 7/1/69-6/30/70, CONTINUATION, \$43,094. CHS-P
- 27B006 HOSPITAL STAFF DEVELOPMENT BRAINERD STATE HOSPITAL, BRAINERD 7/1/70-6/30/71 INITIAL \$22,492. SRS-DMR
- 27B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ST. CLOUD STATE COLLEGE, ST. CLOUD, MINNESOTA, 6/1/70-8/31/71, RENEWAL, \$11,500. OE
- 27B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MANKATO STATE COLLEGE, MANKATO 6/1/70-8/31/71, RENEWAL, \$28,000. OE
- 27B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, ST. PAUL 6/1/70-8/31/71, RENEWAL, \$34,150. OE
- 27B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MINNESOTA, MINNEAPOLIS 6/1/70-8/31/71, RENEWAL, \$80,600. OE

CONSTRUCTION

- 27C005 COMMUNITY FACILITIES CONSTRUCTION THE RANGE CENTER, CHISHOLM 7/31/69 INITIAL \$114,000. SRS-DMR

OTHER

- 27D005 CHILD DEVELOPMENT CENTER, FERGUS FALLS STATE DEPARTMENT OF HEALTH, MINNEAPOLIS 7/1/69-6/30/70, CONTINUATION, \$68,689. HSMHA-MCHS
- 27D010 CHILD STUDY CENTER, OWATONNA STATE DEPARTMENT OF HEALTH, MINNEAPOLIS 7/1/69-6/30/70, CONTINUATION, \$60,000. HSMHA-MCHS
- 27D015 CLINICAL-LABORATORY STUDY MENTALLY RETARDED-CHILDREN SAINT PAUL RAMSEY HOSPITAL, SAINT PAUL 1/1/70-12/31/70, CONTINUATION, \$24,073. CHS-P
- 27D020 COORDINATION AND DEVELOPMENT OF DAY ACTIVITY CENTERS AND TRAINING PROGRAM FOR HENNEPIN COUNTY MINNESOTA ASSOCIATION FOR RETARDED CHILDREN, MINNEAPOLIS 5/1/70-4/30/71, CONTINUATION, \$33,930. CHS-P
- 27D025 GROUP DAY CARE FOR RETARDED IN RURAL COMMUNITY MC LEOD COUNTY DAY ACTIVITY CENTER, GLENCOE 6/1/70-5/31/71 CONTINUATION \$28,304. SRS-DMR
- 27D030 MAXIMIZING ROTATION AND GAINS IN MENTAL RETARDATION HABIT TRAINING, BRAINERD STATE HOSPITAL, BRAINERD 6/1/70-5/31/71 CONTINUATION \$90,618. SRS-DMR
- 27D035 MR INITIAL STAFFING, DULUTH MENTAL HYGIENE CLINIC, INC., DULUTH 7/1/70-6/30/71 CONTINUATION \$14,854. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 27D036 MR INITIAL STAFFING DULUTH SHELTERED WORKSHOP, DULUTH
7/1/70-6/30/71 INITIAL \$29,700. SRS-DMR
- 27D037 MR INITIAL STAFFING LUTHERAN DEACONESS HOME AND HOSPITAL, MINN.
7/1/70-6/30/71 INITIAL \$82,167. SRS-DMR
- 27D040 MR INITIAL STAFFING MINNEAPOLIS ASSOC. FOR RETARDED CHILDREN, MINNEAPOLIS
7/1/70-6/30/71 INITIAL \$10,826. SRS-DMR
- 27D045 MR INITIAL STAFFING, MINNEAPOLIS ASSOC. FOR RETARDED CHILDREN, MINNEAPOLIS
9/1/70-8/31/71 CONTINUATION \$9,375. SRS-DMR
- 27D050 MR INITIAL STAFFING, MOUNT OLIVET ROLLING ACRES, EXCELSIOR
7/1/70-6/30/71 CONTINUATION \$42,394. SRS-DMR
- 27D065 RETRAINING PROFOUNDLY RETARDED DISTURBED ADULTS, FARIBAULT STATE SCHOOL AND HOSPITAL, FARIBAULT
6/1/70-5/31/71 CONTINUATION \$78,495. SRS-DMR
- 27D070 TRAINING SERVICES GRANT, OPPORTUNITY WORKSHOP, INC., MINNEAPOLIS
1/1/70-12/31/70, CONTINUATION, \$136,260. SRS-RSA

MISSISSIPPI

TRAINING

- 28B005 BASIC TRAINING IN MENTAL RETARDATION AS AN ASPECT OF GRADUATE TRAINING IN PSYCHOLOGY UNIVERSITY OF MISSISSIPPI, JACKSON
10/1/69-1/31/70, CONTINUATION, \$5,370. CHS-P
- 28B006 BASIC TRAINING IN MENTAL RETARDATION AS AN ASPECT OF GRADUATE TRAINING IN PSYCHOLOGY UNIVERSITY OF MISSISSIPPI
10/1/69-9/30/70 SUPPLEMENT \$19,105. SRS-DMR
- 28B010 CHILD DEVELOPMENT CLINIC UNIVERSITY OF MISSISSIPPI, JACKSON
7/1/69-6/30/70, CONTINUATION, \$122,854. HSMHA-MCHS
- 28B015 CHROMOSOME ANALYSIS IN MENTAL RETARDATION UNIVERSITY OF MISSISSIPPI, JACKSON
7/1/69-6/30/70, CONTINUATION, \$25,135. HSMHA-MCHS
- 28B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, UNIVERSITY OF SOUTHERN MISSISSIPPI, HATTIESBURG, MISSISSIPPI.
6/1/70-8/31/70, INITIAL, \$11,500. OE
- 28B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN JACKSON STATE COLLEGE, JACKSON
6/1/70-8/31/71, RENEWAL, \$20,800. OE
- 28B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MISSISSIPPI STATE UNIVERSITY, STATE COLLEGE, MISSISSIPPI.
6/1/70-8/31/71, RENEWAL, \$33,000. OE
- 28B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, JACKSON
6/1/70-8/31/71, RENEWAL, \$34,300. OE
- 28B040 MEDICAL STUDENT MANAGEMENT AND DIAGNOSTIC TRAINING EXPERIENCE--CHILD DEVELOPMENT CLINIC UNIVERSITY OF MISSISSIPPI, JACKSON
6/1/70-5/31/71 CONTINUATION \$6,464. SRS-DMR

CONSTRUCTION

- 28C010 REGIONAL CHILD DEVELOPMENT CLINIC, TUPELO STATE BOARD OF HEALTH, JACKSON
7/1/69-6/30/70, CONTINUATION, \$70,133. HSMHA-MCHS

OTHER

- 28D005 MR INITIAL STAFFING HARRISON COUNTY SCHOOL BOARD, GULFPORT
7/1/70-6/30/71 INITIAL \$72,650. SRS-DMR
- 28D010 STUDENT WORK EXPERIENCE AND TRAINING UNIVERSITY OF MISSISSIPPI, UNIVERSITY
6/15/70-8/31/70 INITIAL \$5,509. SRS-DMR

MISSOURI

TRAINING

- 29B004 BEHAVIOR MODIFICATION FOR TRAINING PSYCHIATRIC AIDES HIGGINSVILLE STATE SCHOOL AND HOSPITAL, HIGGINSVILLE
9/1/70-8/31/71 INITIAL \$20,769. SRS-DMR
- 29B005 CHILD DEVELOPMENT CENTER, ST. LOUIS UNIVERSITY STATE DEPARTMENT OF PUBLIC HEALTH AND WELFARE, JEFFERSON CITY
7/1/69-6/30/70, CONTINUATION, \$180,030. HSMHA-MCHS
- 29B010 CHILD DEVELOPMENT CLINIC UNIVERSITY OF MISSOURI, KANSAS CITY
7/1/69-6/30/70, CONTINUATION, \$104,907. HSMHA-MCHS
- 29B015 MULTIPLE HANDICAP CLINIC UNIVERSITY OF MISSOURI, COLUMBIA
7/1/69-6/30/70, CONTINUATION, \$156,399. HSMHA-MCHS
- 29B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CENTRAL MISSOURI STATE COLLEGE, WARRENSBURG
6/1/70-8/31/71, RENEWAL, \$19,300. OE
- 29B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHEAST MISSOURI STATE COLLEGE, KIRKSVILLE
6/1/70-8/31/71, RENEWAL, \$14,600. OE
- 29B035 TRAINING VARIOUS LEVELS OF SUPERVISORY PERSONNEL AND AIDES MR ST. LOUIS STATE SCHOOL-HOSPITAL, ST. LOUIS
7/1/70-6/30/71 CONTINUATION \$23,674. SRS-DMR
- 29B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ST. LOUIS UNIVERSITY, ST. LOUIS
6/1/70-8/31/71, RENEWAL, \$17,700. OE
- 29B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, JEFFERSON CITY
6/1/70-8/31/71, RENEWAL, \$68,336. OE
- 29B046 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, FONTBONNE COLLEGE, ST. LOUIS, MISSOURI,
6/1/70-8/31/71, INITIAL, \$8,700. OE
- 29B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MISSOURI, COLUMBIA
6/1/70-8/31/71, RENEWAL, \$64,600. OE
- 29B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MISSOURI, ST. LOUIS
6/1/70-8/31/71, RENEWAL, \$14,600. OE
- 29B056 STAFF TRAINING FOR SERVICES TO THE DISADVANTAGED MENTALLY RETARDED VIOLATOR UNIVERSITY OF MISSOURI, ST. LOUIS
7/1/70-6/30/71 INITIAL \$54,583. SRS-DMR

CONSTRUCTION

- 29C005 COMMUNITY FACILITIES CONSTRUCTION NORTHEAST MISSOURI SHELTERED WORKSHOP, HANNIBAL
6/22/70 INITIAL \$62,953. SRS-DMR
- 29C010 COMMUNITY FACILITIES CONSTRUCTION RUTH JENSEN VILLAGE FACILITIES, MISSOURI
6/23/70 INITIAL \$91,189. SRS-DMR

OTHER

- 29D010 DIAGNOSTIC LABORATORY FOR MENTAL RETARDATION CURATORS UNIVERSITY OF MISSOURI, COLUMBIA
9/1/69-8/31/70, CONTINUATION, \$9,630. CHS-P
- 29D015 INTENSIVE PROGRAM FOR SEVERELY AND PROFOUNDLY RETARDED, ST. LOUIS STATE SCHOOL AND HOSPITAL, ST. LOUIS
6/1/70-5/31/71 CONTINUATION \$68,928. SRS-DMR
- 29D020 MR INITIAL STAFFING, CHILDRENS MERCY HOSPITAL, KANSAS CITY
7/1/70-6/30/71 CONTINUATION \$50,761. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 29D021 MR INITIAL STAFFING JEWISH FOUNDATION FOR RETARDED CHILDREN OF GREATER ST. LOUIS, ST. LOUIS
6/1/70-5/31/71 INITIAL \$27,900. SRS-DMR
- 29D022 MR INITIAL STAFFING KANSAS CITY REGIONAL DIAGNOSTIC CLINIC, KANSAS CITY
9/1/70-8/31/71 INITIAL \$128,340. SRS-DMR
- 29D023 MR INITIAL STAFFING HARRY S. TRUMANS NEUROLOGICAL CENTER, KANSAS CITY
7/1/70-6/30/71 INITIAL \$24,327. SRS-DMR
- 29D025 MR INITIAL STAFFING, REHABILITATION INSTITUTE, INC., KANSAS CITY
7/1/70-6/30/71 CONTINUATION \$39,705. SRS-DMR
- 29D030 MR INITIAL STAFFING WOODHAVEN LEARNING CENTER, COLUMBIA
7/1/70-6/30/71 INITIAL \$29,288. SRS-DMR
- 29D036 RETARDATE TRAINING IN BASIC SKILLS HIGGINSVILLE STATE SCHOOL AND HOSPITAL, HIGGINSVILLE
6/25/70-5/31/71 INITIAL \$84,863. SRS-DMR
- 29D037 SIKESTON-DELMO MENTAL RETARDATION PROJECT DIVISION OF MENTAL HEALTH, JEFFERSON CITY
6/1/70-5/31/71 INITIAL \$49,384. SRS-DMR
- 29D038 STUDENT WORK EXPERIENCE AND TRAINING CURATORS OF THE UNIVERSITY OF MISSOURI, COLUMBIA
6/1/70-5/31/71 INITIAL \$4,492. SRS-DMR
- 29D039 STUDENT WORK EXPERIENCE AND TRAINING MARSHALL STATE SCHOOL AND HOSPITAL, MARSHALL
6/1/70-5/31/73 INITIAL \$26,331. SRS-DMR
- 29D040 TREATMENT UNIT FOR THE PHYSICALLY HANDICAPPED RETARDED, MARSHALL STATE SCHOOL AND HOSPITAL, MARSHALL
6/1/70-5/31/71 CONTINUATION \$95,860. SRS-DMR

MONTANA

TRAINING

- 30B010 A UNIT TEAM TRAINING PROGRAM MR BOULDER RIVER SCHOOL AND HOSPITAL, BOULDER
7/1/70-6/30/71 CONTINUATION \$20,133. SRS-DMR
- 30B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN EASTERN MONTANA COLLEGE, COLLEGE OF EDUCATION, BILLINGS, MONTANA
6/1/70-8/31/71, RENEWAL, \$26,100. OE
- 30B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, HELENA
6/1/70-8/31/71, RENEWAL, \$30,000. OE

CONSTRUCTION

- 30C005 COMMUNITY FACILITIES CONSTRUCTION BUTTE SHELTERED WORKSHOP, BUTTE
6/4/70 INITIAL \$15,889. SRS-DMR

OTHER

- 30D005 INITIAL STAFFING, BUTTE SHELTERED WORKSHOP, BUTTE
6/30/70-6/29/71, CONTINUATION, \$15,480. SRS-RSA
- 30D010 DEVELOPMENT OF A COTTAGE UNIT TEAM PROGRAM, BOULDER RIVER SCHOOL AND HOSPITAL, BOULDER
2/1/70-1/31/71 CONTINUATION \$85,090. SRS-DMR
- 30D015 ESTABLISH CLINIC FOR DIAGNOSIS AND EVALUATION OF RETARDED MONTANA STATE DEPARTMENT OF HEALTH, HELENA
FY 1969, RENEWAL, \$64,840. SRS-P
- 30D020 ESTABLISH REGIONAL INFORMATION REFERRAL CENTER IN GRANT FACILITY FOR HANDICAPPED CHILDREN MONTANA STATE DEPARTMENT OF HEALTH, HELENA
7/1/69-6/30/70, CONTINUATION, \$55,575. CHS-P

- 30D021 TO RENEW A CLINIC IN MISSOULA FOR MENTALLY RETARDED MONTANA STATE DEPT. OF HEALTH, HELENA
12/1/69-11/30/70 CONTINUATION \$47,387. SRS-DMR
- 30D030 MR INITIAL STAFFING DEPARTMENT OF INSTITUTIONS, HELENA
6/1/70-5/31/71 INITIAL \$5,410. SRS-DMR

NEBRASKA

TRAINING

- 31B003 MENTAL RETARDATION UNIVERSITY OF NEBRASKA, OMAHA, NEBRASKA,
7/70-6/71, CONTINUATION, \$18,078. NICHD
- 31B004 HOSPITAL STAFF DEVELOPMENT BEATRICE STATE HOME, BEATRICE
1/1/70-12/31/70 INITIAL \$22,410. SRS-DMR
- 31B005 A MENTAL RETARDATION EVALUATION AND COUNSELING CLINIC UNIVERSITY OF NEBRASKA, LINCOLN-OMAHA
7/1/69-6/30/70, CONTINUATION, \$161,121. HSMHA-MCHS
- 31B006 LEADERSHIP TRAINING FOR CITIZENS ADVOCACY SERVICES UNIVERSITY OF NEBRASKA, LINCOLN
8/1/70-4/30/71 INITIAL \$10,000. SRS-DMR
- 31B007 CARE OF THE RETARDED AND HANDICAPPED CHILD, UNIVERSITY OF NEBRASKA, OMAHA
7/1/69-6/30/70, INITIAL, \$12,176. HSMHA-MCHS
- 31B008 NATIONAL CONFERENCE ON MATERNAL AND INFANT CARE PROJECTS, UNIVERSITY OF NEBRASKA, OMAHA
7/1/69-6/30/70, INITIAL, \$21,535. HSMHA-MCHS
- 31B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NEBRASKA, OMAHA, NEBRASKA,
6/1/70-8/31/71, RENEWAL, \$19,300. OE
- 31B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, LINCOLN
6/1/70-8/31/71, RENEWAL, \$26,491. OE
- 31B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NEBRASKA, LINCOLN
6/1/70-8/31/71, RENEWAL, \$21,800. OE

CONSTRUCTION

- 31C005 COMMUNITY FACILITIES CONSTRUCTION MARTIN LUTHER HOME AND SCHOOL, BEATRICE
6/22/70 INITIAL \$171,500. SRS-DMR

OTHER

- 31D004 A BEHAVIOR MODIFICATION PROGRAM FOR RETARDED CHILDREN BEATRICE STATE HOME, BEATRICE
1/1/70-12/31/70 INITIAL \$60,978. SRS-DMR
- 31D005 TRAINING SERVICES GRANT, GOODWILL INDUSTRIES OF OMAHA, OMAHA
6/25/70-6/24/71, CONTINUATION, \$155,822. SRS-RSA
- 31D010 MR INITIAL STAFFING GREATER OMAHA ASSOC. FOR RETARDED CHILDREN, OMAHA
7/1/70-6/30/71 INITIAL \$51,798. SRS-DMR
- 31D015 MR INITIAL STAFFING BOARD OF REGENTS OF UNIVERSITY OF NEBRASKA, LINCOLN
7/1/70-6/30/71 INITIAL \$45,616. SRS-DMR
- 31D020 TO RENEW A CLINIC IN MISSOULA FOR THE MENTALLY RETARDED, MONTANA STATE DEPARTMENT OF HEALTH, HELENA, MONTANA,
12/1/69-11/30/70, CONTINUATION, \$47,387. SRS-DMR

NEVADA

TRAINING

- 32B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- EDUCATION OF HANDICAPPED CHILDREN,
UNIVERSITY OF NEVADA, LAS VEGAS, NEVADA,
6/1/70-8/31/71, INITIAL, \$28,600. OE
- 32B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, CARSON CITY
6/1/70-8/31/71, RENEWAL, \$30,300. OE
- 32B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF NEVADA, RENO
6/1/70-8/31/71, RENEWAL, \$22,400. OE
- 32C005 COMMUNITY FACILITIES CONSTRUCTION VARIETY
SCHOOL FOR MULTIPLY HANDICAPPED, LAS VEGAS
6/26/70 INITIAL \$130,866. SRS-DMR

OTHER

- 32D005 DIAGNOSTIC, PREVENTIVE, AND THERAPEUTIC
SERVICE FOR PRE-SCHOOL CHILDREN WITH
DEVELOPMENTAL RETARDATION, RENO AND LAS
VEGAS STATE DEPARTMENT OF HEALTH AND
WELFARE, CARSON CITY
7/1/69-6/30/70, CONTINUATION, \$65,000. HSMHA-MCHS
- 32D006 STUDENT WORK EXPERIENCE AND TRAINING ORMSBY
ASSOCIATION FOR RETARDED CHILDREN, CARSON
CITY
6/25/70-9/31/70 INITIAL \$1,732. SRS-DMR

NEW HAMPSHIRE

TRAINING

- 33B005 LEBANON REGIONAL TRAINING CENTER, LEBANON
7/20/68-7/19/69, INITIAL, \$3,975. SRS RSA
- 33B006 REGIONAL MENTAL RETARDATION TRAINING
PROGRAM NEW ENGLAND CENTER FOR CONTINUING
EDUCATION, DURHAM
7/1/70-6/30/71 INITIAL \$37,800. SRS-DMR
- 33B007 REGIONAL MENTAL RETARDATION TRAINING
CONFERENCE NEW ENGLAND CENTER FOR
CONTINUING EDUCATION, DURHAM
7/1/70-12/31/70 INITIAL \$9,400. SRS-DMR
- 33B010 ORIENTATION AND TRAINING COURSES FOR NURSING
ATTENDANTS MR LACONIA STATE SCHOOL,
LACONIA
7/1/70-6/30/71 CONTINUATION \$18,750. SRS-DMR
- 33B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN BOARD OF
EDUCATION, CONCORD
6/1/70-8/31/71, RENEWAL, \$8,400. OE
- 33B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN KEENE
STATE COLLEGE, KEENE
6/1/70-8/31/71, RENEWAL, \$11,800. OE

OTHER

- 33D005 MR INITIAL STAFFING MANCHESTER ASSOCIATION FOR
RETARDED CHILDREN, MANCHESTER
7/1/70-6/30/71 INITIAL \$34,710. SRS-DMR
- 33D010 MR INITIAL STAFFING, THE NEW HOPE CENTER, KEENE
7/1/70-6/30/71 CONTINUATION \$5,451. SRS-DMR
- 33D011 DEVELOPING A SPECIALIZED ROLE IN A STATE SYSTEM
LACONIA STATE SCHOOL AND TRAINING CENTER,
LACONIA
5/1/70-4/30/71 INITIAL \$100,000. SRS-DMR
- 33D012 COORDINATED RURAL SERVICES FOR THE RETARDED
NORTH COUNTY COMMUNITY SERVICES, BERLIN
6/25/70-9/30/71 INITIAL \$51,001. SRS-DMR
- 33D015 NORTH COUNTY CENTER FOR EXCEPTIONAL
CHILDREN NORTH COUNTY COMMUNITY SERVICES,
INC., BERLIN
7/1/69-7/31/70, CONTINUATION, \$26,763. CHS-P
- 33D016 NORTH COUNTY CENTER FOR EXCEPTIONAL
CHILDREN, BERLIN
8/1/70-6/30/71 CONTINUATION \$12,015. SRS-DMR

- 33D020 PERSONAL DEVELOPMENT AND DAY CARE CENTER
MANCHESTER ASSOCIATION FOR RETARDED
CHILDREN, MANCHESTER
7/1/69-6/30/70, CONTINUATION, \$30,867. CHS-P
- 33D025 THE NEW HOPE CENTER CHESHIRE COUNTY
ASSOCIATION FOR RETARDED CHILDREN, KEENE
7/1/69-7/31/70, CONTINUATION, \$10,833. CHS-P

NEW JERSEY

TRAINING

- 34B010 CONTINUE IMPROVEMENT OF TRAINING FOR COTTAGE
LIFE PERSONNEL MR STATE COLONY AT WOODBINE,
WOODBINE
7/1/70-6/30/71 CONTINUATION \$13,387. SRS-DMR
- 34B011 CONFERENCE ON POVERTY AND MENTAL
RETARDATION NEW JERSEY ASSOCIATION FOR
RETARDED CHILDREN, NEW BRUNSWICK
5/15/70-9/30/70 INITIAL \$4,000. SRS-DMR
- 34B015 DEVELOP TRAINING FOR ATTENDANT PERSONNEL MR
NORTH JERSEY TRAINING SCHOOL, TOTOWA
7/1/70-6/30/71 CONTINUATION, \$18,302. SRS-DMR
- 34B020 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
RUTGERS, THE STATE UNIVERSITY, NEW BRUNSWICK
9/1/69-8/31/70, CONTINUATION, \$77,797. SRS-RSA
- 34B025 INSERVICE TRAINING FOR ATTENDANTS AND
PROFESSIONAL STAFF MR VINELAND STATE SCHOOL,
VINELAND
7/1/70-6/30/71 CONTINUATION \$24,165. SRS-DMR
- 34B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
GLASSBORO STATE COLLEGE, GLASSBORO
6/1/70-8/31/71, RENEWAL, \$44,200. OE
- 34B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN JERSEY
CITY STATE COLLEGE, JERSEY CITY
6/1/70-8/31/71, RENEWAL, \$8,700. OE
- 34B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN NEWARK
STATE COLLEGE, UNION
6/1/70-8/31/71, RENEWAL, \$17,400. OE
- 34B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
PATTERSON STATE COLLEGE, WAYNE
6/1/70-8/31/71, INITIAL, \$17,700. OE
- 34B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN RUTGERS,
THE STATE UNIVERSITY OF NEW JERSEY, NEW
BRUNSWICK
6/1/70-8/31/71, INITIAL, \$26,500. OE
- 34B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, TRENTON
6/1/70-8/31/71, RENEWAL, \$31,500. OE
- 34B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN TRENTON
STATE COLLEGE, TRENTON
6/1/70-8/31/71, RENEWAL, \$24,300. OE
- 34B065 TEAM ORIENTED TRAINING MR E.R. JOHNSTONE
TRAINING AND RESEARCH CENTER, BORDENTOWN
7/1/70-6/30/71 CONTINUATION, \$22,703. SRS-DMR
- 34B070 TRAINED COTTAGE LIFE EMPLOYEES WITH ADEQUATE
KNOWLEDGE AND SKILLS MR STATE COLONY AT
NEW LISBON, NEW LISBON
7/1/70-6/30/71 CONTINUATION \$13,331. SRS-DMR
- 34B075 TRAINING PROGRAM FOR ATTENDANT PERSONNEL,
MR WOODBRIDGE STATE SCHOOL, WOODBRIDGE
7/1/69-6/30/70, RENEWAL, \$24,721. SRS-DMR

CONSTRUCTION

- 34C005 COMMUNITY FACILITIES CONSTRUCTION MORRIS
COUNTY DAY CARE CENTER, GRAYSTONE PARK
6/30/70 INITIAL \$250,000. SRS-DMR
- 34C010 COMMUNITY FACILITIES CONSTRUCTION ATLANTIC
COUNTY DAY CARE CENTER, ATLANTIC CITY
6/30/70 INITIAL \$175,148. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 34C015 COMMUNITY FACILITIES CONSTRUCTION MONMOUTH DAY CARE CENTER, NEW SHREWSBURY
6/12/70 INITIAL \$193,694. SRS-DMR
- 34C020 COMMUNITY FACILITIES CONSTRUCTION GLOUCESTER COUNTY DAY CARE CENTER, GLASSBORO
6/17/70 INITIAL \$137,086. SRS-DMR

OTHER

- 34D003 MR INITIAL STAFFING ARCHWAY SCHOOL, ATCO
7/1/70-6/30/71 INITIAL \$17,325. SRS-DMR
- 34D004 MR INITIAL STAFFING BERGEN-PASSAIC UNIT FOR RETARDED CHILDREN, PALISADES PARK
9/1/70-8/31/71 INITIAL \$6,375. SRS-DMR
- 34D005 CONCENTRATED DORMITORY SERVICES, E R JOHNSTONE TRAINING AND RESEARCH CENTER, BORDENTOWN
1/1/70-12/31/70 CONTINUATION \$77,436. SRS-DMR
- 34D006 MR INITIAL STAFFING DEPT. OF SPECIAL EDUCATION, PATERSON
7/1/70-6/30/71 INITIAL \$7,200. SRS-DMR
- 34D007 MR INITIAL STAFFING NJ ASSOCIATION FOR RETARDED CHILDREN, CAPE MAY COURT HOUSE
7/1/70-6/30/71 INITIAL \$6,600. SRS-DMR
- 34D010 EVALUATION-CONSULTATION SERVICE MENTAL RETARDATION NEWARK STATE COLLEGE CHILD STUDY CENTER, UNION
9/1/69-8/31/70, CONTINUATION, \$70,795. CHS-P
- 34D025 AN INDEPENDENT LIVING ORIENTED ACTIVITIES PROGRAM FOR THE MENTALLY RETARDED, DIVISION OF MENTAL RETARDATION, DEPARTMENT OF INSTITUTIONS AND AGENCIES, STATE OF NEW JERSEY, TRENTON, NEW JERSEY
9/1/69-8/31/70, CONTINUATION, \$112,961. SRS-DMR
- 34D030 MAXIMAL STIMULATION AND CARE FOR SEVERELY RETARDED, VINELAND STATE SCHOOL, VINELAND
9/1/69-8/31/70 CONTINUATION \$26,282. SRS-DMR
- 34D035 MR INITIAL STAFFING, EASTER SEAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS, HACKENSACK
8/1/70-7/31/71 CONTINUATION \$6,566. SRS-DMR
- 34D036 MR INITIAL STAFFING HUNTERDON OCCUPATIONAL TRAINING CENTER, CLINTON
7/1/70-6/30/71 INITIAL \$17,635. SRS-DMR
- 34D040 MR INITIAL STAFFING MOUNT CARMEL GUILD, NEWARK
7/1/70-6/30/71 INITIAL \$64,875. SRS-DMR
- 34D045 MR INITIAL STAFFING, MT. CARMEL GUILD ALHAMBRA PAVILION DAY CARE CENTER, NEWARK
7/1/70-6/30/71 CONTINUATION \$130,095. SRS-DMR
- 34D046 MR INITIAL STAFFING DIVISION OF MENTAL RETARDATION, TRENTON
9/1/70-8/31/71 INITIAL \$9,444. SRS-DMR
- 34D047 MR INITIAL STAFFING DIVISION OF MENTAL RETARDATION, TRENTON
9/1/70-8/31/71 INITIAL \$18,794. SRS-DMR
- 34D048 MR INITIAL STAFFING DIVISION OF MENTAL RETARDATION, TRENTON
9/1/70-8/31/71 INITIAL \$9,444. SRS-DMR
- 34D049 MR INITIAL STAFFING NJ ASSOCIATION FOR RETARDED CHILDREN, KENILWORTH
8/1/70-7/31/71 INITIAL \$9,421. SRS-DMR
- 34D060 MR INITIAL STAFFING, NJ ARC, ESSEX UNIT, EAST ORANGE
9/1/70-8/31/71 CONTINUATION \$11,322. SRS-DMR
- 34D065 MR INITIAL STAFFING, NJ ASSOCIATION FOR RETARDED CHILDREN, INC., KENILWORTH
8/1/70-7/31/71 CONTINUATION \$11,572. SRS-DMR
- 34D066 MR INITIAL STAFFING NJ ASSOCIATION FOR RETARDED CHILDREN, KENILWORTH
8/1/70-7/31/71 INITIAL \$22,090. SRS-DMR
- 34D067 MR INITIAL STAFFING NORTH JERSEY COMMUNITY UNION, NEWARK
6/1/70-5/31/71 INITIAL \$13,707. SRS-DMR
- 34D070 MR INITIAL STAFFING, OCCUPATIONAL TRAINING CENTER, MOUNT HOLLY
9/1/70-8/31/71 CONTINUATION \$4542. SRS-DMR
- 34D071 MR INITIAL STAFFING OCCUPATIONAL TRAINING CENTER, MOUNT HOLLY
9/1/70-8/31/71 INITIAL \$1,380. SRS-DMR

- 34D075 COMMUNITY LIVING IN A RESIDENTIAL INSTITUTION STATE COLONY AT NEW LISBON, LISBON
6/25/70-5/31/71 INITIAL \$73,148. SRS-DMR
- 34D100 PHYSICAL HABILITATION FOR THE SEVERELY RETARDED, WOODBRIDGE STATE SCHOOL, WOODBRIDGE
1/1/70-12/31/70 CONTINUATION \$92,094. SRS-DMR
- 34D105 SELF HELP SKILLS TAUGHT THRU ART MUSIC INNOVATIONS, VINELAND STATE SCHOOL, VINELAND
6/1/70-5/31/71 CONTINUATION \$43,692. SRS-DMR
- 34D106 STUDENT WORK EXPERIENCE AND TRAINING WOODBRIDGE STATE SCHOOL, WOODBRIDGE
6/15/70-8/31/70 INITIAL \$10,212. SRS-DMR
- 34D107 STUDENT WORK EXPERIENCE AND TRAINING E.R. JOHNSTONE TRAINING AND RESEARCH CENTER, BORDENTOWN
6/1/70-9/30/70 INITIAL \$1,871. SRS-DMR
- 34D110 INVESTIGATION OF BEHAVIOR AND DEVELOPMENT OF BEHAVIOR MODIFICATION PROGRAM FOR DELINQUENT MALE RETARDED ADOLESCENTS AND YOUNG ADULTS, E.R. JOHNSTONE TRAINING AND RESEARCH CENTER, BORDENTOWN, N.J.
6/1/70-5/31/71, INITIAL, \$68,497. SRS-DMR

NEW MEXICO

TRAINING

- 35B005 INSERVICE TRAINING PROGRAM FOR ATTENDANT PERSONNEL MR LOS LUNAS HOSPITAL AND TRAINING SCHOOL, LOS LUNAS
7/1/69-6/30/70, INITIAL, \$18,030. SRS-DMR
- 35B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN EASTERN NEW MEXICO UNIVERSITY, PORTALES
6/1/70-8/31/71, RENEWAL, \$41,700. OE
- 35B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, SANTA FE
6/1/70-8/31/71, RENEWAL, \$34,018. OE
- 35B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NEW MEXICO, ALBUQUERQUE
6/1/70-8/31/71, RENEWAL, \$41,700. OE
- 35B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO,
6/1/70-8/31/71, INITIAL, \$15,000. OE

CONSTRUCTION

- 35C005 COMMUNITY FACILITIES CONSTRUCTION CASA ANGELICA, ALBUQUERQUE
6/30/70 INITIAL \$60,000. SRS-DMR
- 35C010 COMMUNITY FACILITIES CONSTRUCTION CASA LINDA PRIVATE SCHOOL, ALBUQUERQUE
6/1/70 INITIAL \$36,000. SRS-DMR
- 35C015 COMMUNITY FACILITIES CONSTRUCTION ALBUQUERQUE BOARD OF EDUCATION, ALBUQUERQUE
6/19/70 INITIAL \$105,000. SRS-DMR
- 35C020 COMMUNITY FACILITIES CONSTRUCTION ZIA SCHOOL, INC., ALAMOGARDO
6/1/70 INITIAL \$60,000. SRS-DMR
- 35C025 COMMUNITY FACILITIES CONSTRUCTION FORT STANTON HOSPITAL, FORT STANTON
6/19/70 INITIAL \$7,696. SRS-DMR

OTHER

- 35D005 CHILD DEVELOPMENT CENTER, SANTE FE STATE DEPARTMENT OF PUBLIC HEALTH, SANTE FE
7/1/69-6/30/70, CONTINUATION, \$105,894. HSMHA-MCHS
- 35D010 CHILD STUDY CENTER, ALBUQUERQUE STATE DEPARTMENT OF PUBLIC HEALTH, SANTE FE
7/1/69-6/30/70, CONTINUATION, \$63,106. HSMHA-MCHS

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

35D015 MR INITIAL STAFFING, BERNALILLO COUNTY MENTAL HEALTH CENTER, ALBUQUERQUE
7/1/70-6/30/71 CONTINUATION \$36,146. SRS-DMR

35D020 MR INITIAL STAFFING, CASA LINDA PRIVATE SCHOOL, INC., ALBUQUERQUE
8/1/70-7/31/71 CONTINUATION \$19,102. SRS-DMR

35D021 MR INITIAL STAFFING CHAVES COUNTY ASSOCIATION FOR RETARDED CHILDREN, ROSWELL
9/1/70-8/31/71 INITIAL \$18,648. SRS-DMR

35D022 MR INITIAL STAFFING ESPERANZA PARA NUESTROS NIÑOS, ALBUQUERQUE
9/1/70-8/31/71 INITIAL \$10,673. SRS-DMR

35D023 MR INITIAL STAFFING FOUNDATION OF THE KNIGHTS TEMPLAR, ALCALDE
9/1/70-8/31/71 INITIAL \$15,743. SRS-DMR

35D024 MR INITIAL STAFFING SPECIAL EDUCATION CENTER, ALBUQUERQUE
9/1/70-8/31/71 INITIAL \$7,935. SRS-DMR

35D025 STUDENT WORK EXPERIENCE AND TRAINING FORT STANTON HOSPITAL, FORT STANTON
6/1/70-8/31/70 INITIAL \$3,500. SRS-DMR

35D026 STUDENT WORK EXPERIENCE AND TRAINING DEPT. OF HOSPITALS AND INSTITUTIONS
6/1/70-8/31/70 INITIAL \$3,500. SRS-DMR

NEW YORK

TRAINING

36B005 A COMMUNITY CENTER DEMONSTRATION AND TRAINING PROGRAM FOR MENTALLY RETARDED CHILDREN AND YOUTH IN THE BRONX RIVER NEIGHBORHOOD CENTER HUNTER COLLEGE SCHOOL OF SOCIAL WORK, NEW YORK
7/1/69-6/30/70, RENEWAL, \$13,617. SRS-CSA

36B010 A PLAN TO AID DEVELOPMENT IN DEPENDENT CHILDREN, WEST SENECA STATE SCHOOL, WEST SENECA
6/1/69-5/31/70, RENEWAL, \$99,992. SRS-DMR

36B015 CENTER FOR SHORT-TERM TRAINING IN MENTAL RETARDATION TEACHERS COLLEGE, COLUMBIA UNIVERSITY, NEW YORK
9/1/69-8/31/70, CONTINUATION, \$68,949. SRS-RSA

36B020 DIAGNOSTIC AND COUNSELING STUDY CENTER FOR RETARDED CHILDREN, BUFFALO STATE DEPARTMENT OF HEALTH, ALBANY
7/1/69-6/30/70, CONTINUATION, \$142,600. HSMHA-MCHS

36B021 EPIDEMIOLOGY OF MENTAL RETARDATION, COLUMBIA UNIVERSITY, NEW YORK, N.Y.,
7/70-6/71, INITIAL, \$63,892. NICH

36B025 FACILITY FOR TREATMENT OF METABOLIC DISEASES NEW YORK UNIVERSITY MEDICAL CENTER, NEW YORK
4/1/70-3/31/71, CONTINUATION, \$156,600. HSMHA-MCHS

36B050 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS STATE UNIVERSITY OF NEW YORK, BUFFALO
9/1/69-8/31/70, CONTINUATION, \$79,076. SRS-RSA

36B055 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS NEW YORK UNIVERSITY, NEW YORK
9/1/69-8/31/70, CONTINUATION, \$35,439. SRS-RSA

36B060 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS SYRACUSE UNIVERSITY, SYRACUSE
6/1/70-5/31/71, CONTINUATION, \$36,279. SRS-RSA

36B062 FIFTH NATIONAL CONFERENCE FOR NURSES IN MENTAL RETARDATION, NEW YORK MEDICAL COLLEGE, NEW YORK
7/1/69-6/30/70, INITIAL, \$7,000. HSMHA-MCHS

36B065 HUMAN GENETICS PROGRAM STATE UNIVERSITY OF NEW YORK, BUFFALO
7/1/69-6/30/70, CONTINUATION, \$195,623. HSMHA-MCHS

36B070 INSERVICE EDUCATION FOR DIRECT PATIENT CARE RESPONSIBILITIES CRAIG COLONY SCHOOL AND HOSPITAL, SONYEA
7/1/69-6/30/70, RENEWAL, \$23,299. SRS-DMR

36B075 INTENSIVE HABILITATION AND MOTIVATION PROGRAM, CRAIG COLONY SCHOOL AND HOSPITAL, SONYEA
6/1/69-5/31/70, RENEWAL, \$83,127. SRS-DMR

36B080 INTERDISCIPLINARY TRAINING IN MENTAL RETARDATION NEW YORK MEDICAL COLLEGE, NEW YORK
7/1/69-6/30/70, CONTINUATION, \$726,912. HSMHA-MCHS

36B085 MENTAL RETARDATION DENTAL TRAINING PROJECT LONG ISLAND JEWISH HOSPITAL, NEW HYDE PARK, L.I.
9/1/69-8/31/70, CONTINUATION, \$11,629. CHS-P

36B090 MULTIPLE TEST PROCEDURE FOR INBORN ERRORS OF METABOLISM STATE UNIVERSITY OF NEW YORK, BUFFALO
7/1/69-6/30/70, CONTINUATION, \$156,286. HSMHA-MCHS

36B095 PEDIATRIC AUDIOLOGY TRAINING NEW YORK UNIVERSITY MEDICAL CENTER, NEW YORK
4/1/70-3/31/71, CONTINUATION, \$30,879. HSMHA-MCHS

36B100 PHYSICAL THERAPIST PARTICIPATION IN A MENTAL RETARDATION PROGRAM ITHACA COLLEGE, ITHACA
7/1/70-6/30/71 CONTINUATION, \$11,264. SRS-DMR

36B105 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN FORDHAM UNIVERSITY, NEW YORK
6/1/70-8/31/71, INITIAL, \$26,500. OE

36B110 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN HOFSTRA UNIVERSITY, HEMPSTEAD, LONG ISLAND
6/1/70-8/31/71, RENEWAL, \$31,800. OE

36B115 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MARYMOUNT MANHATTAN COLLEGE, NEW YORK
6/1/70-8/31/71, RENEWAL, \$17,700. OE

36B120 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NEW YORK UNIVERSITY, NEW YORK
6/1/70-8/31/71, RENEWAL, \$45,600. OE

36B125 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE EDUCATION DEPARTMENT, ALBANY
6/1/70-8/31/71, RENEWAL, \$60,375. OE

36B130 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE UNIVERSITY COLLEGE AT BUFFALO, BUFFALO
6/1/70-8/31/71, RENEWAL, \$94,600. OE

36B135 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE UNIVERSITY COLLEGE AT GENESEO, GENESEO
6/1/70-8/31/71, RENEWAL, \$50,400. OE

36B140 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SYRACUSE UNIVERSITY, SYRACUSE
6/1/70-8/31/71, RENEWAL, \$61,500. OE

36B145 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TEACHERS COLLEGE, COLUMBIA UNIVERSITY, NEW YORK, NEW YORK
6/1/70-8/31/71, RENEWAL, \$89,100. OE

36B155 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED YESHIVA UNIVERSITY, NEW YORK
FY 1969, RENEWAL, \$102,900. OE

36B156 PRE-SCHOOL RETARDATE TRAINING FOR COMPREHENSIVE PROGRAMMING IN DISADVANTAGE COMMUNITIES NEW YORK MEDICAL CENTER, FLOWER AND FIFTH AVENUE HOSPITAL MENTAL RETARDATION CENTER, NEW YORK
5/15/70-10/31/70 INITIAL, \$6,000. SRS-DMR

36B157 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, D'YOUVILLE COLLEGE, BUFFALO, NEW YORK,
6/1/70-8/31/71, INITIAL, \$8,400. OE

36B158 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, MOUNT ST. MARY COLLEGE COLLEGE, NEWBURGH, NEW YORK,
6/1/70-8/31/71, INITIAL, \$8,700. OE

36B160 PROMOTING COMMUNITY LIVING WITH RECREATION ACTIVITIES, ROME STATE SCHOOL, ROME
9/1/68-8/31/69, RENEWAL, \$62,518. SRS-DMR

36B165 PSYCHIATRY-MENTAL RETARDATION LETCHWORTH VILLAGE, N.Y. STATE DEPT. OF MENTAL HYGIENE, THIELLS,
7/1/70-6/30/71 CONTINUATION, \$38,499. NIMH

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

36B170 REHABILITATION CENTER, CHILDREN'S HOSPITAL OF BUFFALO AND CRIPPLED CHILDREN'S GUILD, BUFFALO
7/1/69-6/30/70, CONTINUATION, \$157,710. HSMHA-MCHS
7/1/68-6/30/69, RENEWAL, \$157,710. SRS-CB

36B175 RESIDENTIAL UNIT CARE PLAN FOR RETARDED CHILDREN NEWARK STATE SCHOOL, NEWARK
6/1/69-5/31/70, RENEWAL, \$92,531. SRS-DMR

36B180 SOCIAL WORK TRAINING AND THE DEVELOPMENT OF COMMUNITY HEALTH SERVICES FOR THE MENTALLY RETARDED RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK-SCHOOL OF SOCIAL WELFARE, ALBANY
7/1/70-6/30/71 CONTINUATION, \$38,750. SRS-DMR

36B185 TEACHING PROGRAM IN MENTAL RETARDATION UNIVERSITY OF ROCHESTER, ROCHESTER
7/1/70-6/30/71 CONTINUATION, \$65,746. SRS-DMR

36B190 TODDLER TRAINING AND STIMULATION FOR MAXIMUM POTENTIAL WILLOWBROOK STATE SCHOOL, STATEN ISLAND
9/1/68-8/31/69, RENEWAL, \$83,342. SRS-DMR

36B195 TRAINING ATTENDANTS IN CHILD DEVELOPMENT MR NEWARK STATE SCHOOL, NEWARK
7/1/69-6/30/70, RENEWAL, \$13,472. SRS-DMR

36B200 TRAINING IN THE CARE OF HANDICAPPED CHILDREN ALBERT EINSTEIN MEDICAL COLLEGE, BRONX
7/1/69-6/30/70, CONTINUATION, \$179,962. HSMHA-MCHS

36B215 TRAINING TO INCREASE ATTENDANT EFFECTIVENESS TO PATIENT CARE MR ROME STATE SCHOOL, ROME
7/1/70-6/30/71 RENEWAL, \$22,761. SRS-DMR

36B220 5.03 ACRES LAND AT FAA INTERNATIONAL FLIGHT SERVICE TRANSMITTER STATION, ISLIP-FOR CONSTRUCTION OF A TRAINING CENTER FOR MENTALLY AND PHYSICALLY HANDICAPPED, SKILLS UNLIMITED, INC.
12/5/68 INITIAL, \$25,200. OSPU

CONSTRUCTION

36C005 COMMUNITY FACILITIES CONSTRUCTION BROOKLYN SCHOOL FOR SPECIAL CHILDREN, BROOKLYN
6/26/70 INITIAL \$100,000. SRS-DMR

36C010 COMMUNITY FACILITIES CONSTRUCTION SCHENECTADY COUNTY COMMUNITY MENTAL RETARDATION SERVICE FACILITY, SCHENECTADY
6/24/70 INITIAL \$200,000. SRS-DMR

36C015 COMMUNITY FACILITIES CONSTRUCTION NIAGARA COUNTY COMPREHENSIVE COMMUNITY MENTAL RETARDATION CENTER, NIAGARA FALLS
6/25/70 INITIAL \$200,000. SRS-DMR

36C020 COMMUNITY FACILITIES CONSTRUCTION SCHOHARIE COUNTY ARC TRAINING CENTER, SCHOHARIE
6/25/70 INITIAL \$100,000. SRS-DMR

36C025 COMMUNITY FACILITIES CONSTRUCTION ORANGE COUNTY COMMUNITY MENTAL RETARDATION CENTER, MIDDLETOWN
6/30/70 INITIAL \$225,000. SRS-DMR

36C030 COMMUNITY FACILITIES CONSTRUCTION BROOME-TIOGA MENTAL RETARDATION CENTER, DICKISON
6/23/70 INITIAL \$333,333. SRS-DMR

36C035 COMMUNITY FACILITIES CONSTRUCTION MR CENTER OF THE ENLARGED CITY SCHOOL DISTRICT OF CITY OF AMSTERDAM, AMSTERDAM
6/12/70 INITIAL \$210,000. SRS-DMR

OTHER

36D005 COORDINATION OF NEW YORK CITY MENTAL RETARDATION PROGRAMS MEDICAL AND HEALTH RESEARCH ASSOCIATION OF NEW YORK CITY, INC., NEW YORK
6/1/69-5/31/70, CONTINUATION, \$56,635. CHS-P

36D006 FACILITY IMPROVEMENT, NEW YORK STATE ASSOCIATION FOR RETARDED CHILDREN, ITHACA
6/29/70-6/28/71, INITIAL, \$17,600. SRS-RSA

36D007 INITIAL STAFFING, NEW YORK STATE ASSOCIATION FOR RETARDED CHILDREN (JEFFERSON COUNTY CHAPTER) WATERTOWN
8/1/69-7/31/70, INITIAL, \$32,039. SRS-RSA

36D008 INITIAL STAFFING, THE WORKSHOP, INC., MENANDS
6/10/70-6/9/71, INITIAL, \$56,265. SRS-RSA

36D009 INTENSIVE HABILITATION AND MOTIVATION PROGRAM CRAIG COLONY SCHOOL AND HOSPITAL, SONYEA
6/1/70-5/31/71 CONTINUATION \$55,444. SRS-DMR

36D010 MR INITIAL STAFFING ASSOCIATION FOR THE HELP OF RETARDED CHILDREN, NYC
7/1/70-6/30/71 INITIAL \$51,563. SRS-DMR

36D015 MR INITIAL STAFFING CATTARAUGUS COUNTY CHAPTER ASSOC. FOR RETARDED CHILDREN ST. BONAVENTURE 7/1/70-6/30/71 INITIAL \$64,948. SRS-DMR

36D020 MR INITIAL STAFFING, HUNTS POINT MULTI-SERVICE CENTER CORPORATION, BRONX
7/1/70-6/30/71 CONTINUATION \$62,655. SRS-DMR

36D021 MR INITIAL STAFFING KAREN HORNEY CLINIC, INC. NYC
7/1/70-6/30/71 INITIAL \$38,550. SRS-DMR

36D022 MR INITIAL STAFFING NY STATE ASSOC. FOR RETARDED CHILDREN, BROOKVILLE
9/1/70-8/31/71 INITIAL \$66,450. SRS-DMR

36D025 MR INITIAL STAFFING, NY ARC, JEFFERSON COUNTY CHAPTER, INC., WATERTOWN
9/1/70-8/31/71 CONTINUATION \$80,096. SRS-DMR

36D035 MR INITIAL STAFFING, NY MEDICAL COLLEGE, FLOWER AND 5TH AVE. HOSPITALS, NEW YORK CITY
7/1/70-6/30/71 CONTINUATION \$84,239. SRS-DMR

36D040 MR INITIAL STAFFING RESEARCH FOUNDATION OF STATE OF NY, ALBANY
7/1/70-6/30/71 INITIAL \$128,652. SRS-DMR

36D041 MR INITIAL STAFFING ONONDAGA COUNTY CHAPTER NY STATE ASSOCIATION FOR RETARDED CHILDREN, SYRACUSE
7/1/70-6/30/71 INITIAL \$146,130. SRS-DMR

36D045 MR INITIAL STAFFING, SHIELD OF DAVID, INC., BRONX
9/1/70-8/31/71 CONTINUATION \$71,500. SRS-DMR

36D046 MR INITIAL STAFFING UNITED CEREBRAL PALSY OF NEW YORK CITY, NEW YORK
7/1/70-6/30/71 INITIAL \$33,426. SRS-DMR

36D047 RESIDENTIAL UNIT CARE PLAN FOR RETARDED CHILDREN NEWARK STATE SCHOOL, NEWARK
6/1/70-5/31/71 CONTINUATION \$87,152. SRS-DMR

36D050 PARENT EDUCATION IN CHILD REARING PRACTICES FOR MENTALLY RETARDED CHILDREN ASSOCIATED YM-YWHAS OF GREATER NEW YORK, NEW YORK
7/1/69-6/30/70, CONTINUATION, \$49,632. CHS-P

36D051 PROMOTING COMMUNITY LIVING WITH RECREATION ACTIVITIES ROME STATE SCHOOL, ROME
9/1/69-8/31/70 CONTINUATION \$39,953. SRS-DMR

36D055 SATELLITE DAY CENTERS FOR RETARDED ADULTS ASSOCIATION FOR HELP OF RETARDED CHILDREN, NEW YORK
3/1/69-6/30/70, CONTINUATION, \$118,450. CHS-P

36D056 STUDENT WORK EXPERIENCE AND TRAINING NEW YORK MEDICAL COLLEGE, NEW YORK
6/1/70-5/31/71 INITIAL \$3,500. SRS-DMR

36D057 STUDENT WORK EXPERIENCE AND TRAINING SPECIAL EDUCATION ADVISORY COMMITTEE ON MENTAL RETARDATION, NEW YORK
6/15/70-8/14/71 INITIAL \$2,250. SRS-DMR

36D058 STUDENT WORK EXPERIENCE AND TRAINING WILLOWBROOK STATE SCHOOL, STATEN ISLAND
6/1/70-8/31/70 INITIAL \$8,250. SRS-DMR

36D059 STUDENT WORK EXPERIENCE AND TRAINING NEWARK STATE SCHOOL, NEWARK
6/1/70-5/31/71 INITIAL, \$5,250. SRS-DMR

36D060 TRAINING SERVICES GRANT, FEDERATION OF THE HANDICAPPED, NEW YORK
6/25/70-6/24/71, CONTINUATION, \$237,684. SRS-RSA

36D061 TODDLER TRAINING AND STIMULATION FOR MAXIMUM POTENTIAL WILLOWBROOK STATE SCHOOL, STATEN ISLAND
9/1/69-8/31/70 CONTINUATION \$97,679. SRS-DMR

36D065 COMMUNITY PSYCHO-EDUCATIONAL PROGRAM FOR THE MENTALLY RETARDED, NEW YORK MEDICAL COLLEGE, NEW YORK, NEW YORK
6/15/70-5/31/71, INITIAL, \$37,530. SRS-DMR

36D070 TRAINING SERVICES GRANT, DOWNSTATE MEDICAL CENTER, BROOKLYN, NEW YORK
6/25/70-6/24/71, CONTINUATION, \$172,646. SRS-RSA

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 36D075 PRESCHOOL EDUCATION PROGRAM FOR INNER CITY RETARDED CHILDREN ROCHESTER CITY SCHOOL DISTRICT, PROJECT UNIQUE, ROCHESTER, N.Y.
6/15/70-6/14/71, INITIAL, \$25,000. SRS-DMR
- 36D080 PARENT TRAINING IN RESIDENTIAL PROGRAMMING, NATIONAL ASSOCIATION FOR RETARDED CHILDREN, NEW YORK, NEW YORK.
6/25/70-5/31/71, INITIAL \$35,065. SRS-DMR
- 36D085 DEVELOPMENT OF WORK ORIENTED PROGRAMS FOR MULTIPLY AND SEVERELY HANDICAPPED TEENAGERS AND ADULTS, UNITED CEREBRAL PALSY ASSOCIATION, INC., NEW YORK, NEW YORK.
6/25/70-5/31/71, INITIAL, \$25,025. SRS-DMR
- 36D090 A SERVICE APPROACH TOWARD THE IMPROVEMENT OF PROGRAMS FOR INDIVIDUALS WITH NEURO-MOTOR AND SENSORY HANDICAPS IN ADDITION TO MENTAL RETARDATION, UNITED CEREBRAL PALSY ASSOCIATION, INC., NEW YORK, N.Y.
6/25/70-5/31/71, INITIAL, \$25,725. SRS-DMR

NORTH CAROLINA

TRAINING

- 37B005 AUTOMATED DETECTION IN NEUROMETABOLIC DISEASES UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL.
7/1/69-6/30/70, CONTINUATION, \$100,525. HSMHA-MCHS
- 37B006 BI-REGIONAL SHORT TERM TRAINING GRANT STAFF DEVELOPMENT IN MENTAL RETARDATION UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL.
9/1/70-8/31/71 INITIAL, \$69,935. SRS-DMR
- 37B010 CENTER FOR SHORT-TERM TRAINING IN MENTAL RETARDATION UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL.
3/1/70-2/28/71, RENEWAL, \$96,777. SRS-RSA
- 37B015 DEVELOPMENTAL EVALUATION CLINIC UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL.
7/1/69-6/30/70, CONTINUATION, \$526,531. HSMHA-MCHS
- 37B020 DEVELOPMENTAL EVALUATION CLINIC, BOWMAN GRAY SCHOOL OF MEDICINE, WINSTON-SALEM STATE BOARD OF HEALTH, RALEIGH.
7/1/69-6/30/70, CONTINUATION, \$129,434. HSMHA-MCHS
- 37B025 INSERVICE TRAINING CONTINUANCE FOR COTTAGE PARENTS MR WESTERN CAROLINA CENTER, MORGANTON.
7/1/70-6/30/71 CONTINUATION, \$22,666. SRS-DMR
- 37B030 INSERVICE TRAINING FOR COTTAGE LIFE PERSONNEL MR MURDOCH CENTER, BUTNER.
7/1/70-6/30/71 CONTINUATION, \$22,253. SRS-DMR
- 37B031 MENTAL RETARDATION, DUKE UNIVERSITY, DURHAM, NORTH CAROLINA.
7/70-6/71, CONTINUATION, \$35,986. NICHD
- 37B032 NURSING INNOVATION IN CHILD CARE, UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL.
7/1/69-6/30/70, INITIAL, \$5,075. HSMHA-MCHS
- 37B033 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT- UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, NORTH CAROLINA.
6/1/70-8/31/71, RENEWAL, \$30,000. OE
- 37B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN APPALACHIAN STATE UNIVERSITY, BOONE, NORTH CAROLINA.
6/1/70-8/31/71, RENEWAL, \$14,300. OE
- 37B036 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, NORTH CAROLINA CENTRAL UNIVERSITY, DURHAM, NORTH CAROLINA.
6/1/70-8/31/71, INITIAL, \$21,200. OE
- 37B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN EAST CAROLINA COLLEGE, GREENVILLE UNIVERSITY, NORTH CAROLINA.
6/1/70-8/31/71, RENEWAL, \$33,900. OE
- 37B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, RALEIGH.
6/1/70-8/31/71, RENEWAL, \$48,700. OE

- 37B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL.
6/1/70-8/31/71, RENEWAL, \$54,500. OE
- 37B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WESTERN CAROLINA COLLEGE, CULLOWHEE UNIVERSITY, NORTH CAROLINA.
6/1/70-8/31/71, RENEWAL, \$17,000. OE
- 37B059 ROLE OF THE PHYSICAL THERAPIST IN PEDIATRIC PROGRAMS, UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL.
7/1/69-6/30/70, INITIAL, \$25,000. HSMHA-MCHS

CONSTRUCTION

- 37C005 COMMUNITY FACILITIES CONSTRUCTION SHELTERED WORKSHOP AND VOCATIONAL TRAINING CENTER, RALEIGH.
6/19/70 INITIAL \$236,989. SRS-DMR
- 37C010 COMMUNITY FACILITIES CONSTRUCTION MECKLENBURG CENTER FOR HUMAN DEVELOPMENT, CHARLOTTE.
6/16/70 INITIAL \$115,967. SRS-DMR

OTHER

- 37D004 EXPANDED SOCIAL CASEWORK TO RESIDENTS CASWELL CENTER, KINSTON.
6/1/70-5/31/71 INITIAL \$82,719. SRS-DMR
- 37D005 COMPREHENSIVE DAY CARE PROGRAM FOR MENTALLY RETARDED DAY CARE CENTER- RETARDED, FAYETTEVILLE.
7/1/69-6/30/70, CONTINUATION, \$55,357. CHS-P
- 37D010 TRANSITION-BUFFER UNIT FOR MENTALLY RETARDED WESTERN CAROLINA CENTER, MORGANTON.
1/1/70-12/31/70 CONTINUATION \$24,820. SRS-DMR
- 37D015 MITIGATION OF MENTAL RETARDATION THROUGH EARLY CARE AND MANAGEMENT OF CEREBRAL PALSY INFANTS THE NORTH CAROLINA CEREBRAL PALSY HOSPITAL, DURHAM.
7/1/69-12/31/70, CONTINUATION, \$43,864. CHS-P
- 37D034 MR INITIAL STAFFING DEVELOPMENT EVALUATION CLINIC AND ACTIVITY CENTER, GREENVILLE.
7/1/70-6/30/71 INITIAL \$14,148. SRS-DMR
- 37D035 MR INITIAL STAFFING, DEVELOPMENT EVAL. CLINIC AND DAY CARE ACTIVITY CENTER, GREENVILLE.
7/1/70-6/30/71 CONTINUATION \$26,042. SRS-DMR
- 37D036 MR INITIAL STAFFING EDGEcombe RETARDED CENTER, TARBORO.
9/1/70-8/31/71 INITIAL \$8,700. SRS-DMR
- 37D037 MR INITIAL STAFFING FAMILY SERVICES INC., WINSTON-SALEM.
7/1/70-6/30/71 INITIAL \$32,000. SRS-DMR
- 37D040 MR INITIAL STAFFING FARMVILLE CHILD DEVELOPMENT CENTER, FARMVILLE.
7/1/70-6/30/71 INITIAL \$8,960. SRS-DMR
- 37D045 MR INITIAL STAFFING, GREENSBORO SHELTERED WORKSHOP, INC., GREENSBORO.
7/1/70-6/30/71 CONTINUATION \$13,796. SRS-DMR
- 37D046 MR INITIAL STAFFING HELPING HAND DAY CARE CENTER FOR RETARDED, HENDERSONVILLE.
7/1/70-6/30/71 INITIAL \$2,727. SRS-DMR
- 37D050 MR INITIAL STAFFING, HIGH POINT KINDERGARTEN FOR THE HANDICAPPED, HIGH POINT.
8/1/70-7/31/71 CONTINUATION \$16,170. SRS-DMR
- 37D051 MR INITIAL STAFFING HIGH POINT SHELTERED WORKSHOP, HIGH POINT.
7/1/70-6/30/71 INITIAL \$35,983. SRS-DMR
- 37D052 MR INITIAL STAFFING IREDELL COUNTY DAY CARE CENTER FOR HANDICAPPED CHILDREN, STATESVILLE.
9/1/70-8/31/71 INITIAL \$12,534. SRS-DMR
- 37D055 MR INITIAL STAFFING JOHNSTON COUNTY DAY CARE CENTER, GREENVILLE.
7/1/70-6/30/71 INITIAL \$13,620. SRS-DMR
- 37D056 MR INITIAL STAFFING MARS HILL HANDI-SCHOOL, MARS HILL.
9/1/70-8/31/71 INITIAL \$14,287. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 37D060 MR INITIAL STAFFING, MECKLENBURG COUNTY, CHARLOTTE
7/1/70-6/30/71 CONTINUATION \$129,364. SRS-DMR
- 37D061 MR INITIAL STAFFING LEE COUNTY CHILDRENS CENTER, SANFORD
7/1/70-6/30/71 INITIAL \$32,395. SRS-DMR
- 37D063 MR INITIAL STAFFING ROCKINGHAM COUNTY COUNCIL ON MENTAL RETARDATION, REIDSVILLE
7/1/70-6/30/71 INITIAL \$28,160. SRS-DMR
- 37D065 MR INITIAL STAFFING, VOCATIONAL TRADES OF ALAMANCE, INC., BURLINGTON
9/1/70-8/31/71 CONTINUATION \$9,266. SRS-DMR
- 37D066 MR INITIAL STAFFING RUTHERFORD COUNTY DAY CARE CENTER, RUTHERFORDTON
7/1/70-6/30/71 INITIAL \$23,806. SRS-DMR
- 37D075 THE REHABILITATION OF ANTISOCIAL RETARDATES, MURDOCH CENTER, BUTNER
2/1/70-1/31/70 CONTINUATION \$48,501. SRS-DMR
- 37D080 CAMP SERVICES FOR EDUCABLE MENTALLY RETARDED YOUTHS, NORTH CAROLINA DEPARTMENT OF JUVENILE CORRECTIONS, RALEIGH, NORTH CAROLINA
6/25/70-9/30/70, INITIAL, \$14,910. SRS-DMR
- 37D085 STUDENT WORK EXPERIENCE AND TRAINING, CASWELL CENTER DEPARTMENT OF SOCIAL SERVICES, KINSTON, NORTH CAROLINA
6/1/70-5/31/71, INITIAL, \$2,939. SRS-DMR
- 37D090 STUDENT WORK EXPERIENCE AND TRAINING, BOWMAN GRAY SCHOOL OF MEDICINE, DEVELOPMENTAL EVALUATION CLINIC, DEPARTMENT OF PEDIATRICS, WINSTON-SALEM, NORTH CAROLINA
6/1/70-5/31/71, INITIAL, \$3,300. SRS-DMR

NORTH DAKOTA

TRAINING

- 38B005 INSERVICE TRAINING IN BASIC NURSING CARE MR GRAFTON STATE SCHOOL, GRAFTON
7/1/70-6/30/71 CONTINUATION, \$11,702. SRS-DMR
- 38B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MINOT STATE COLLEGE, MINOT
6/1/70-8/31/71, RENEWAL, \$28,900. OE
- 38B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, BISMARCK
6/1/70-8/31/71, RENEWAL, \$29,300. OE

CONSTRUCTION

- 38C005 COMMUNITY FACILITIES CONSTRUCTION VALLEY CITY JUNIOR-SENIOR HIGH SCHOOL, VALLEY CITY
6/22/70 INITIAL \$22,727. SRS-DMR

OTHER

- 38D005 EVALUATION CENTER FOR EXCEPTIONAL CHILDREN, UNIVERSITY OF NORTH DAKOTA MEDICAL CENTER, GRAND FORKS STATE DEPARTMENT OF HEALTH, BISMARCK
7/1/69-6/30/70, CONTINUATION, \$99,009. HSMHA-MCHS
- 38D007 FACILITY IMPROVEMENT, VOCATIONAL TRAINING CENTER, FARGO PUBLIC SCHOOL SYSTEM, FARGO
6/1/70-5/31/71, INITIAL, \$39,600. SRS-RSA
- 38D015 MR INITIAL STAFFING MINOT SCHOOL FOR MENTALLY HANDICAPPED, MINOT
7/1/70-6/30/71 INITIAL \$9,983. SRS-DMR

OHIO

TRAINING

- 39B005 CLINICAL PSYCHOLOGY TRAINING IN A

- MULTIDISCIPLINARY SETTING UNIVERSITY OF CINCINNATI, CINCINNATI
7/1/69-6/30/70, CONTINUATION, \$78,501. HSMHA-MCHS
- 39B010 MENTAL RETARDATION TRAINING OHIO STATE UNIVERSITY, COLUMBUS
7/1/69-6/30/70, CONTINUATION, \$471,099. HSMHA-MCHS
- 39B011 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-UNIVERSITY AFFILIATED FACILITY, OHIO STATE UNIVERSITY, COLUMBUS, OHIO
6/1/70-8/31/71, RENEWAL, \$25,000. OE
- 39B012 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF CINCINNATI, CINCINNATI, OHIO
6/1/70-8/31/71, RENEWAL, \$22,500. OE
- 39B015 MENTAL RETARDATION TRAINING PROGRAM CORE GROUP THE OHIO STATE UNIVERSITY, COLUMBUS
8/1/70-7/31/71 CONTINUATION, \$58,207. SRS-DMR
- 39B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN
6/1/70-8/31/71, RENEWAL, \$42,000. OE
- 39B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN KENT STATE UNIVERSITY, KENT
6/1/70-8/31/71, RENEWAL, \$52,600. OE
- 39B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OHIO STATE UNIVERSITY, COLUMBUS
6/1/70-8/31/71, RENEWAL, \$81,800. OE
- 39B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OHIO UNIVERSITY, ATHENS
6/1/70-8/31/71, RENEWAL, \$29,900. OE
- 39B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, COLUMBUS
6/1/70-8/31/71, RENEWAL, \$65,250. OE
- 39B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF CINCINNATI, CINCINNATI
6/1/70-8/31/71, RENEWAL, \$83,529. OE
- 39B055 TRAINEESHIP IN MENTAL RETARDATION FOR VINCENT LUSTIG OHIO STATE UNIVERSITY, COLUMBUS
FY 1969, INITIAL, \$5,085. SRS-P
- 39B060 TRAINING IN THE COMPREHENSIVE CARE OF HANDICAPPED CHILDREN CASE WESTERN RESERVE UNIVERSITY, CLEVELAND
7/1/69-6/30/70, CONTINUATION, \$91,195. HSMHA-MCHS
- 39B065 DEVELOPMENT OF SELF-HELP AND SOCIAL SKILLS IN INSTITUTIONALIZED SEVERELY AND PROFOUNDLY MENTALLY RETARDED PERSONS COLUMBUS STATE INSTITUTE, COLUMBUS
7/1/70-6/30/71 CONTINUATION, \$22,359. SRS-DMR
- 39B070 TRAINING PROGRAM FOR DOCTORAL STUDENTS IN PSYCHOLOGY OHIO STATE UNIVERSITY, COLUMBUS
10/1/68-6/30/69, RENEWAL, \$40,118. SRS-CB
- 39B075 TRAINING PROGRAM IN MENTAL RETARDATION CASE WESTERN RESERVE UNIVERSITY, CLEVELAND
7/1/69-6/30/70, CONTINUATION, \$41,071. HSMHA-MCHS
- 39B080 TRAINING SERVICES GRANT GOODWILL INDUSTRIES OF CENTRAL OHIO, COLUMBUS 6/25/70-6/24/71, CONTINUATION, \$145,750. SRS-RSA
- 39B085 TREATMENT OF METABOLIC DISORDERS REQUIRING LONG. A CLINICAL TEAM APPROACH. CHILDREN'S HOSPITAL, CINCINNATI
7/1/69-6/30/70, CONTINUATION, \$53,050. HSMHA-MCHS
- 39B090 UNIVERSITY-AFFILIATED PROGRAM FOR THE MENTALLY RETARDED UNIVERSITY OF CINCINNATI, CINCINNATI
7/1/69-6/30/70, CONTINUATION, \$683,590. HSMHA-MCHS

CONSTRUCTION

- 39C005 COMMUNITY FACILITIES CONSTRUCTION WOOD COUNTY RETARDED CHILDRENS PROGRAM, BOWLING GREEN
6/25/70 INITIAL \$243,500. SRS-DMR
- 39C010 COMMUNITY FACILITIES CONSTRUCTION DEVELOPMENTAL CENTER, CLEVELAND
6/22/70 INITIAL \$249,939. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

OTHER

- 39D005 DEVELOPMENT OF SELF-HELP SOCIAL SKILLS, COLUMBUS STATE SCHOOL, COLUMBUS
6/1/70-5/31/71 CONTINUATION \$90,092. SRS-DMR
- 39D010 MR INITIAL STAFFING ATHENS CO. BOARD OF MENTAL RETARDATION, ATHENS
9/1/70-8/31/71 INITIAL \$14,297. SRS-DMR
- 39D020 MR INITIAL STAFFING, BOARD OF CO. COMMISSIONERS-MONTGOMERY CO. BD. OF MR. DAYTON
9/1/69-8/31/70, INITIAL, \$20,369. SRS-DMR
- 39D025 MR INITIAL STAFFING CLARK CO. BOARD OF MENTAL RETARDATION, SPRINGFIELD
9/1/70-8/31/71 INITIAL \$109,957. SRS-DMR
- 39D030 MR INITIAL STAFFING, COLUMBIANA CO. BOARD OF MENTAL RETARDATION, LISBON
9/1/70-8/31/71 CONTINUATION \$11,263. SRS-DMR
- 39D035 MR INITIAL STAFFING CUYAHOGA CO. BOARD OF M-R, CLEVELAND
9/1/70-8/31/71 INITIAL \$49,827. SRS-DMR
- 39D039 MR INITIAL STAFFING DEPARTMENT OF MENTAL RETARDATION, CLEVELAND
9/1/70-8/31/71 INITIAL \$17,927. SRS-DMR
- 39D040 MR INITIAL STAFFING, DEPT. OF MENTAL RETARDATION, DIOCESE OF CLEVELAND, CLEVELAND
9/1/70-8/31/71 CONTINUATION \$31,584. SRS-DMR
- 39D045 MR INITIAL STAFFING, FRANKLIN CO. BOARD OF MENTAL RETARDATION, COLUMBUS
7/1/70-6/30/71 CONTINUATION \$58,714. SRS-DMR
- 39D046 MR INITIAL STAFFING GALLIA COUNTY BOARD OF MENTAL RETARDATION, GALLIPOLIS
7/1/70-6/30/71 INITIAL \$13,499. SRS-DMR
- 39D047 MR INITIAL STAFFING HATTIE LARHAM FOUNDATION INC., MANTOA
7/1/70-6/30/71 INITIAL \$45,990. SRS-DMR
- 39D048 MR INITIAL STAFFING HOCKING CO. BOARD OF MENTAL RETARDATION, LOGAN
7/1/70-6/30/71 INITIAL \$6,054. SRS-DMR
- 39D049 MR INITIAL STAFFING JACKSON CO. BOARD OF MENTAL RETARDATION, JACKSON
8/1/70-7/31/71 INITIAL \$10,024. SRS-DMR
- 39D050 MR INITIAL STAFFING, HELP FOR RETARDED CHILDREN, INC., EAST CLEVELAND
7/1/70-6/30/71 CONTINUATION \$33,303. SRS-DMR
- 39D051 MR INITIAL STAFFING HELP FOR RETARDED CHILDREN, INC., EAST CLEVELAND
7/1/70-6/30/71 INITIAL \$3,432. SRS-DMR
- 39D054 MR INITIAL STAFFING LAKE CO. BOARD OF MENTAL RETARDATION, MENTOR
7/1/70-6/30/71 INITIAL \$20,063. SRS-DMR
- 39D055 MR INITIAL STAFFING LAWRENCE CO. BOARD OF MENTAL RETARDATION, IRONTON
9/1/70-8/31/71 INITIAL \$10,773. SRS-DMR
- 39D056 MR INITIAL STAFFING LICKING CO. BOARD OF MENTAL RETARDATION, NEWARK
9/1/70-8/31/71 INITIAL \$41,156. SRS-DMR
- 39D060 MR INITIAL STAFFING, LUCAS COUNTY BOARD OF MENTAL RETARDATION, TOLEDO
9/1/70-8/31/71 CONTINUATION \$51,418. SRS-DMR
- 39D061 MR INITIAL STAFFING MONTGOMERY COUNTY BOARD OF MENTAL RETARDATION, KETTERING
9/1/70-8/31/71 CONTINUATION \$16,447. SRS-DMR
- 39D062 MR INITIAL STAFFING QUADCO, INC., STRYKER
7/1/70-6/30/71 INITIAL \$34,573. SRS-DMR
- 39D063 MR INITIAL STAFFING MAHONING CO. M-H AND M-R BOARD, YOUNGSTOWN
7/1/70-6/30/71 INITIAL \$61,710. SRS-DMR
- 39D064 MR INITIAL STAFFING JOHANNA GRASSELLI REHAB. AND ED. CENTER, EUCLID
7/1/70-6/30/71 INITIAL \$24,374. SRS-DMR
- 39D065 MR INITIAL STAFFING, RESIDENT HOME FOR THE MR OF HAMILTON CO. INC., CINCINNATI
9/1/70-8/31/71 CONTINUATION \$9,084. SRS-DMR
- 39D066 MR INITIAL STAFFING WOOD CO. BOARD OF RETARDED PERSONS
9/1/70-8/31/71 INITIAL \$13,860. SRS-DMR
- 39D067 MR INITIAL STAFFING STARK CO. BOARD OF MENTAL RETARDATION, CANTON
9/1/70-8/31/71 INITIAL \$45,491. SRS-DMR

- 39D068 TRAINING SERVICES GRANT, GOODWILL INDUSTRIES, OF CENTRAL OHIO, COLUMBUS
6/25/70-6/24/71, CONTINUATION, \$145,750. SRS-RSA
- 39D075 STUDENT WORK EXPERIENCE AND TRAINING, FRANKLIN COUNTY PROGRAM FOR THE MENTALLY RETARDED, COLUMBUS, OHIO,
6/1/70-5/31/71, INITIAL, \$14,400. SRS-DMR
- 39D080 STUDENT WORK EXPERIENCE AND TRAINING, OHIO VALLEY MENTAL RETARDATION EVALUATION UNIT, ATHEN, OHIO,
6/1/70-5/31/71, INITIAL, \$3,325. SRS-DMR
- 39D085 STUDENT WORK EXPERIENCE AND TRAINING, MUSKINGUM COUNTY BOARD OF MENTAL RETARDATION, ZANESVILLE, OHIO,
6/15/70-6/14/71, INITIAL, \$2,968. SRS-DMR
- 39D090 STUDENT WORK EXPERIENCE AND TRAINING, CUYOHOGA COUNTY BOARD OF MENTAL RETARDATION, CLEVELAND, OHIO,
6/15/70-9/14/70, INITIAL, \$13,598. SRS-DMR
- 39D095 STUDENT WORK EXPERIENCE AND TRAINING, RESIDENT HOME FOR THE MENTALLY RETARDED, CINCINNATI, OHIO,
6/1/70-5/31/71, INITIAL, \$5,507. SRS-DMR
- 39D100 STUDENT WORK EXPERIENCE AND TRAINING, LUCAS COUNTY MENTAL RETARDATION BOARD, TOLEDO, OHIO,
6/15/70-6/14/71, INITIAL, \$10,296. SRS-DMR
- 39D105 A CASE MANAGEMENT PROGRAM FOR THE MENTALLY RETARDED IN THE MODEL CITY OF DAYTON, OHIO AND MONTGOMERY COUNTY, DEPARTMENT OF MENTAL HYGIENE AND CORRECTIONS, DIVISION OF MENTAL RETARDATION, COLUMBUS, OHIO
6/15/70-6/14/71, INITIAL, \$134,567. SRS-DMR

OKLAHOMA

TRAINING

- 40B005 DEVELOPING TRAINERS OF THE SEVERELY RETARDED MR ENID STATE SCHOOL, OKLAHOMA CITY
7/1/70-6/30/71 CONTINUATION, \$23,750. SRS-DMR
- 40B010 FIELD INSTRUCTION OF PHYSICAL THERAPY STUDENTS UNIVERSITY OF OKLAHOMA MEDICAL CENTER, OKLAHOMA CITY
9/1/69-8/31/70, CONTINUATION, \$25,343. SRS-RSA
- 40B015 FORMAL TRAINING FOR PATIENT CARE PERSONNEL, MR PAULS VALLEY STATE SCHOOL, PAULS VALLEY
7/1/70-6/30/71 RENEWAL, \$22,500. SRS-DMR
- 40B016 NURSING HOME PERSONNEL TRAINING OKLAHOMA DEPARTMENT OF PUBLIC WELFARE, OKLAHOMA CITY
7/1/70-6/30/71 INITIAL, \$7,110. SRS-DMR
- 40B020 TRAINING THE ATTENDANT AS A TRAINER HISSOM MEMORIAL CENTER, SAND SPRINGS
7/1/70-6/30/71 INITIAL, \$22,500. SRS-DMR
- 40B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CENTRAL STATE COLLEGE, EDMOND
6/1/70-8/31/71, RENEWAL, \$63,200. OE
- 40B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, OKLAHOMA CITY
6/1/70-8/31/71, RENEWAL, \$72,600. OE
- 40B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF TULSA, TULSA
6/1/70-8/31/71, RENEWAL, \$28,300. OE
- 40B040 TRAINING FOR PROFESSIONAL AND NON-PROFESSIONAL PERSONNEL MR HISSOM MEMORIAL CENTER, SAND SPRINGS
7/1/69-6/30/70, RENEWAL, \$22,026. SRS-DMR

CONSTRUCTION

- 40C005 COMMUNITY FACILITIES CONSTRUCTION GATEWAY FOUNDATION, INC., BROKEN ARROW
6/30/70 INITIAL \$100,000. SRS-DMR
- 40C010 COMMUNITY FACILITIES CONSTRUCTION SAPULKA SCHOOL FOR THE HANDICAPPED, SAPULKA

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

5/4/70 INITIAL \$24,645. SRS-DMR

OTHER

- 40D005 CHILD STUDY CLINIC, TULSA CHILDREN'S MEDICAL CENTER STATE DEPARTMENT OF HEALTH, OKLAHOMA CITY
7/1/69-6/30/70, CONTINUATION, \$104,070. HSMHA-MCHS
- 40D010 FACILITY IMPROVEMENT GRANT CHICKASHA OPPORTUNITY WORKSHOP AND TRAINING CENTER, CHICKASHA
5/1/70-4/30/71, CONTINUATION, \$8,862. SRS-RSA
- 40D015 MR INITIAL STAFFING, CASADY SCHOOL, OKLAHOMA CITY
9/1/70-8/31/71 CONTINUATION \$13,632. SRS-DMR
- 40D020 MR INITIAL STAFFING, CHILDREN'S MEDICAL CENTER, TULSA
9/1/70-8/31/71 CONTINUATION \$24,851. SRS-DMR
- 40D021 MR INITIAL STAFFING KAY CO. COUNCIL FOR RETARDED CHILDREN, PONCA CITY
9/1/70-8/31/71 INITIAL \$12,028. SRS-DMR
- 40D025 HABILITATING PROFOUND RETARDS FOR COMMUNITY LIVING ENID STATE SCHOOL, ENID
9/1/69-8/31/70 INITIAL \$99,987. SRS-DMR
- 40D030 STUDENT WORK EXPERIENCE AND TRAINING, ENID STATE SCHOOL, OKLAHOMA DEPARTMENT OF PUBLIC WELFARE, OKLAHOMA CITY, OKLAHOMA,
6/1/70-8/31/70, INITIAL, \$3,000. SRS-DMR

OREGON

TRAINING

- 41B005 CLINICAL INSTRUCTION: INSTITUTIONAL RESIDENTIAL UNITS MR FAIRVIEW HOSPITAL AND TRAINING CENTER, SALEM
7/1/70-6/30/71 CONTINUATION, \$23,736. SRS-DMR
- 41B010 FIELD INSTRUCTION OF REHABILITATION STUDENTS UNIVERSITY OF OREGON, EUGENE
9/1/69-8/31/70, CONTINUATION, \$20,044. SRS-RSA
- 41B015 INSERVICE TRAINING FOR ALL INSTITUTION EMPLOYEES MR COLUMBIA PARK HOSPITAL AND TRAINING CENTER, THE DALLES
7/1/69-6/30/70, RENEWAL, \$24,347. SRS-DMR
- 41B016 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT- UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF OREGON, EUGENE, OREGON,
6/1/70-8/31/71, RENEWAL, \$25,000. OE
- 41B020 MATERNAL AND CHILD HEALTH SERVICES TRAINING PORTLAND STATE COLLEGE, PORTLAND
7/1/69-6/30/70, CONTINUATION, \$45,230. HSMHA-MCHS
- 41B025 MENTAL RETARDATION TRAINING UNIVERSITY OF OREGON, PORTLAND
7/1/69-6/30/70, CONTINUATION, \$554,280. HSMHA-MCHS
- 41B027 NURSING TRAINING UNDER CONTINUING EDUCATION, PORTLAND STATE COLLEGE, PORTLAND
7/1/69-6/30/70, INITIAL, \$12,342. HSMHA-MCHS
- 41B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OREGON COLLEGE OF EDUCATION, MONMOUTH
6/1/70-8/31/71, RENEWAL, \$38,600. OE
- 41B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN PORTLAND STATE UNIVERSITY, PORTLAND, OREGON,
6/1/70-8/31/71, RENEWAL, \$51,700. OE
- 41B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, SALEM
6/1/70-8/31/71, RENEWAL, \$7,893. OE
- 41B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF OREGON, EUGENE
6/1/70-8/31/71, RENEWAL, \$90,000. OE
- 41B055 REHABILITATION RESEARCH AND TRAINING CENTER UNIVERSITY OF OREGON, EUGENE
3/1/69-2/28/70, RENEWAL, \$266,234. SRS-ORDT

CONSTRUCTION

- 41C005 COMMUNITY FACILITIES CONTRUCTION GOOD SHEPHERD LUTHERAN HOME, CORNELIUS
6/29/70 INITIAL \$376,347. SRS-DMR

OTHER

- 41D004 A SERVICE AND DEMONSTRATION PROJECT FOR THE MANAGEMENT OF CHILDREN WITH PHYSICAL HANDICAPS AND MENTAL RETARDATION, UNIVERSITY OF OREGON, EUGENE
7/1/69-6/30/70, INITIAL, \$75,000. HSMHA-MCHS
- 41D005 STUDENT WORK EXPERIENCE AND TRAINING, FAIRVIEW HOSPITAL AND TRAINING CENTER, SALEM OREGON,
6/25/70-5/31/71, INITIAL, \$6,462. SRS-DMR
- 41D025 GENETICS STUDY, PORTLAND UNIVERSITY OF OREGON MEDICAL SCHOOL, PORTLAND
7/1/69-6/30/70, CONTINUATION, \$95,161. HSMHA-MCHS
- 41D030 METABOLIC DISORDER SCREENING, PORTLAND STATE BOARD OF HEALTH, PORTLAND
7/1/69-6/30/70, CONTINUATION, \$30,477. HSMHA-MCHS
- 41D045 MR INITIAL STAFFING, CLACKAMAS CHALLENGE CENTER, INC., MILWAUKIE
9/1/70-8/31/71 CONTINUATION \$6,694. SRS-DMR
- 41D050 MR INITIAL STAFFING GOODWILL INDUSTRIES OF OREGON, PORTLAND
7/1/70-6/30/71 INITIAL \$37,598. SRS-DMR
- 41D060 MR INITIAL STAFFING POLK ASSOC. FOR RETARDED CHILDREN, DALLAS
9/1/70-8/31/71 INITIAL \$11,110. SRS-DMR

PENNSYLVANIA

TRAINING

- 42B004 PEDIATRIC RESEARCH, CHILDRENS HOSPITAL OF PAIDADELPHIA, PHILADELPHIA, PENNSYLVANIA,
7/70-6/71, CONTINUATION, \$67,356. NICHD
- 42B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BLOOMSBURG STATE COLLEGE, BLOOMSBURG
6/1/70-8/31/71, RENEWAL, \$31,400. OE
- 42B006 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, CALIFORNIA STATE COLLEGE, CALIFORNIA, PENNSYLVANIA,
6/1/70-8/31/71, RENEWAL, \$53,200. OE
- 42B007 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED INDIANA UNIVERSITY OF PENNSYLVANIA, INDIANA, PENNSYLVANIA
6/1/70-8/31/71, RENEWAL, \$46,400. OE
- 42B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CLARION STATE COLLEGE, CLARION
6/1/70-8/31/71, RENEWAL, \$17,400. OE
- 42B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN DUQUESNE UNIVERSITY, PITTSBURGH
6/1/70-8/31/71, RENEWAL, \$25,200. OE
- 42B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN EDINBORO STATE COLLEGE, EDINBORO
6/1/70-8/31/71, RENEWAL, \$17,700. OE
- 42B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN LOCK HAVEN STATE COLLEGE, LOCK HAVEN
6/1/70-8/31/71, RENEWAL, \$11,800. OE
- 42B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MANSFIELD STATE COLLEGE, MANSFIELD
6/1/70-8/31/71, RENEWAL, \$18,000. OE
- 42B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MILLERSVILLE STATE COLLEGE, MILLERSVILLE
6/1/70-8/31/71, RENEWAL, \$39,200. OE

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 42B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK
6/1/70-8/31/71, RENEWAL, \$82,700. OE
- 42B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SLIPPERY ROCK STATE COLLEGE, SLIPPERY ROCK
6/1/70-8/31/71, RENEWAL, \$64,100. OE
- 42B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, HARRISBURG
6/1/70-8/31/71, RENEWAL, \$54,000. OE
- 42B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TEMPLE UNIVERSITY, PHILADELPHIA
6/1/70-8/31/71, RENEWAL, \$56,200. OE
- 42B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF PITTSBURGH, PITTSBURGH, PENNSYLVANIA
6/1/70-8/31/71, RENEWAL, \$37,100. OE
- 42B070 DEVELOP ATTENDANT LEADERS FOR INSTITUTIONS MR PENNHURST STATE SCHOOL AND HOSPITAL, SPRING CITY
7/1/69-6/30/70, RENEWAL, \$18,607. SRS-DMR
- 42B075 DEVELOP INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR EBENBURG STATE SCHOOL AND HOSPITAL, EBENBURG
7/1/70-6/30/71 CONTINUATION, \$23,275. SRS-DMR
- 42B080 DEVELOPMENTAL CLINIC, PITTSBURGH, CHILDREN'S HOSPITAL & STATE DEPARTMENT OF HEALTH, HARRISBURG
7/1/69-6/30/70, CONTINUATION, \$217,304. HSMHA-MCHS
- 42B085 INSERVICE TRAINING FOR ATTENDANTS AND NURSING PERSONNEL MR LAURELTON STATE SCHOOL AND HOSPITAL, LAURELTON
7/1/70-6/30/71 CONTINUATION, \$15,071. SRS-DMR
- 42B090 INSERVICE TRAINING FOR CHILD CARE WORKERS MR WESTERN STATE SCHOOL AND HOSPITAL, CANONSBURG
7/1/69-6/30/70, RENEWAL, \$5,985. SRS-DMR
- 42B095 INSERVICE TRAINING FOR ENTIRE STAFF MR THE CRESSON STATE SCHOOL AND HOSPITAL, CRESSON
7/1/70-6/30/71 CONTINUATION, \$15,158. SRS-DMR
- 42B100 INTERNSHIPS FOR REHABILITATION COUNSELING AND PSYCHOLOGY STUDENTS THE DEVEREUX FOUNDATION, DEVON
9/1/69-8/31/70, CONTINUATION, \$125,650. SRS-RSA
- 42B105 PERSONNEL TRAINING FOR HANDICAPPED CHILDREN ST. CHRISTOPHER'S HOSPITAL, PHILADELPHIA
7/1/69-6/30/70, CONTINUATION, \$349,393. HSMHA-MCHS
- 42B107 PRACTICE APPROACHES IN REDUCING RISK IN CHILD HEALTH, UNIVERSITY OF PITTSBURGH, PENNSYLVANIA
7/1/69-6/30/70, INITIAL, \$9,414. HSMHA-MCHS
- 42B110 PROVISION OF COMPREHENSIVE CARE TO CHILDREN WITH HANDICAPPING, PHYSICAL, AND/OR MENTAL DEFICITS. CHILDREN'S HOSPITAL OF PHILADELPHIA STATE DEPARTMENT OF HEALTH, HARRISBURG
7/1/69-6/30/70, CONTINUATION, \$218,484. HSMHA-MCHS
- 42B115 SOCIAL WORK FELLOWSHIPS IN MENTAL RETARDATION BRYN MAWR COLLEGE, BRYN MAWR
7/1/69-6/30/70, CONTINUATION, \$20,065. HSMHA-MCHS
- 42B120 TRAINING GRANT IN SUPPORT OF A CASEWORK UNIT IN MENTAL RETARDATION UNIVERSITY OF PITTSBURGH, PITTSBURGH
7/1/70-6/30/71 CONTINUATION, \$40,522. SRS-DMR

CONSTRUCTION

- 42C005 COMMUNITY FACILITIES CONSTRUCTION THE BURNLEY WORKSHOP OF THE POCONOS, EAST SHODSBURG
6/1/70 INITIAL \$150,570. SRS-DMR
- 42C010 COMMUNITY FACILITIES CONSTRUCTION LARK WORKSHOP FOR THE HANDICAPPED, NEW CASTLE
6/10/70 INITIAL \$150,570. SRS-DMR

- 42C015 COMMUNITY FACILITIES CONSTRUCTION BETHEL PARK CENTER, BETHEL PARK
6/9/70 INITIAL \$28,011. SRS-DMR

OTHER

- 42D010 IMPROVING SELF-CONCEPT IN UNDIFFERENTIATED RETARDS, HAMBURG STATE SCHOOL AND HOSPITAL, HAMBURG
6/1/70-5/31/71 CONTINUATION \$82,222. SRS-DMR
- 42D015 BEHAVIOR MODIFICATION UNIT LAURELTON STATE SCHOOL AND HOSPITAL, LAURELTON
6/1/70-5/31/71 INITIAL \$86,822. SRS-DMR
- 42D020 MR INITIAL STAFFING, ASSOCIATION FOR RETARDED CHILDREN, BALDRICH
7/1/69-6/30/70, INITIAL, \$77,915. SRS-DMR
- 42D034 MR INITIAL STAFFING FUTURES INC., BRADFORD
7/1/70-6/30/71 INITIAL \$50,137. SRS-DMR
- 42D035 MR INITIAL STAFFING, EXCEPTIONAL CHILDREN'S DAY CARE CENTER, ST. MARY'S
7/1/69-6/30/70, INITIAL, \$6,367. SRS-DMR
- 42D036 MR INITIAL STAFFING RETARDED CHILDRENS DAY CARE CENTER, ST. MARY'S
7/1/70-6/30/71 CONTINUATION \$5,141. SRS-DMR
- 42D040 MR INITIAL STAFFING HORIZON HOME, INC. PITTSBURGH
9/1/70-8/31/71 INITIAL \$64,350. SRS-DMR
- 42D041 MR INITIAL STAFFING LAUREL HOUSE ASSOC., UNIONTOWN
7/1/70-6/30/71 INITIAL \$55,500. SRS-DMR
- 42D045 MR INITIAL STAFFING, KENSINGTON DISPENSARY, INC., PHILADELPHIA
7/1/69-6/30/70, INITIAL, \$10,170. SRS-DMR
- 42D046 MR INITIAL STAFFING KEN-CREST CENTER FOR EXCEPTIONAL PERSONS, MONT CLARE
9/1/70-8/31/71 CONTINUATION \$8,213. SRS-DMR
- 42D047 MR INITIAL STAFFING LEHIGH VALLEY ASSOCIATION FOR RETARDED CHILDREN, BETHLEHEM
7/1/70-6/30/71 INITIAL \$30,738. SRS-DMR
- 42D055 MR INITIAL STAFFING, PHILADELPHIA ASSN. FOR RETARDED CHILDREN, PHILADELPHIA
7/1/70-6/30/71 CONTINUATION \$39,955. SRS-DMR
- 42D056 MR INITIAL STAFFING RONALD BRUCE NIPON ASSOC., PHILADELPHIA
7/1/70-6/30/71 INITIAL \$24,339. SRS-DMR
- 42D060 MR INITIAL STAFFING, ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN, PHILADELPHIA
9/1/70-8/31/71 CONTINUATION \$24,090. SRS-DMR
- 42D061 MR INITIAL STAFFING ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN, PHILADELPHIA
7/1/70-6/30/71 INITIAL \$44,575. SRS-DMR
- 42D062 MR INITIAL STAFFING ST PETERS CHILD DEVELOPMENT CENTERS, PITTSBURGH
7/1/70-6/30/71 INITIAL \$55,659. SRS-DMR
- 42D065 MR INITIAL STAFFING TEMPLE UNIVERSITY HEALTH SCIENCES CENTER, PHILADELPHIA
7/1/70-6/30/71 INITIAL \$110,964. SRS-DMR
- 42D075 MR INITIAL STAFFING, WASHINGTON CO. CHAPTER PA. ASSN. FOR R.C., INC., WASHINGTON
9/1/70-8/31/71 CONTINUATION \$6,885. SRS-DMR
- 42D076 MR INITIAL STAFFING WEST PHILADELPHIA CORPORATION, PHILADELPHIA 9/1/70-8/31/71 CONTINUATION \$84,646. SRS-DMR
- 42D080 STUDENT WORK EXPERIENCE AND TRAINING, LAURELTON STATE SCHOOL AND HOSPITAL, LAURELTON, PENNSYLVANIA
6/1/70-8/31/70, INITIAL, \$11,510. SRS-DMR
- 42D085 TRAINING SERVICES GRANT, ELWYN INSTITUTE-REHABILITATION CENTER, ELWYN
3/15/70-3/14/71, CONTINUATION, \$210,020. SRS-RSA
- 42D086 STUDENT WORK EXPERIENCE AND TRAINING, PENNHURST STATE SCHOOL AND HOSPITAL, SPRING CITY, PENNSYLVANIA
6/1/70-8/31/70, INITIAL, \$12,288. SRS-DMR
- 42D090 STUDENT WORK EXPERIENCE AND TRAINING, ELWYN INSTITUTE, ELWYN, PENNSYLVANIA
6/15/70-8/31/70, INITIAL, \$5,250. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 42D095 USTUDENT WORK EXPERIENCE AND TRAINING, CONTRIBUTORS OF THE PENNSYLVANIA HOSPITAL, PHILADELPHIA, 6/1/70-9/30/70, INITIAL, \$4,118. SRS-DMR
- 42D100 STUDENT WORK EXPERIENCE AND TRAINING, ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN, PHILADELPHIA, PENNSYLVANIA, 6/1/70-12/31/70, INITIAL, \$6,678. SRS-DMR

PUERTO RICO

TRAINING

- 43B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN DEPARTMENT OF EDUCATION, HATO REY, SAN JUAN 6/1/70-8/31/71, RENEWAL, \$5,300. OE
- 43B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF PUERTO RICO, RIO PIEDRAS, SAN JUAN 6/1/70-8/31/71, RENEWAL, \$29,800. OE
- 43B055 THE ROLE OF THE NURSE IN THE CARE OF THE MENTALLY RETARDED CHILD, UNIVERSITY OF PUERTO RICO, SAN JUAN 7/1/69-6/30/70, INITIAL, \$3,398. HSMHA-MCHS

OTHER

- 43D005 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF PUERTO RICO, RIO PIEDRAS, SAN JUAN 6/1/70-6/14/71, CONTINUATION, \$31,309. SRS-RSA
- 43D042 MR INITIAL STAFFING ASOCIACION PRO-NINOS MENTALMENTE ANORMALES, TRUJILLO ALTO 7/1/70-6/30/71 INITIAL \$81,763. SRS-DMR
- 43D044 MR INITIAL STAFFING ASSOCIATION FOR RETARDED CHILDREN, HATO REY 7/1/70-6/30/71 CONTINUATION \$62,916. SRS-DMR
- 43D045 MR INITIAL STAFFING, INSTITUTO PSICOPEDAGOGICO DE PUERTO RICO, SAN JUAN 8/1/70-7/31/71 CONTINUATION \$103,923. SRS-DMR
- 43D046 MR INITIAL STAFFING ESCUELA ESPECIAL NILMAR INC., SAN JUAN 7/1/70-6/30/71 INITIAL \$3,525. SRS-DMR
- 43D050 STUDENT WORK EXPERIENCE AND TRAINING, INSTITUTO PSICOPEDAGOGICO DE PUERTO RICO, SAN JUAN, PUERTO RICO, 6/1/70-5/31/71, INITIAL, \$4,230. SRS-DMR

RHODE ISLAND

TRAINING

- 44B005 EMPLOY STAFF TO TRAIN ATTENDANTS IN COOPERATION WITH UNIV. OF R. I. DR. JOSEPH H. LADD SCHOOL, NORTH KINGSTOWN 7/1/70-6/30/71 CONTINUATION, \$23,471. SRS-DMR
- 44B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN RHODE ISLAND COLLEGE, PROVIDENCE 6/1/70-8/31/71, RENEWAL, \$49,800. OE
- 44B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN RHODE ISLAND DEPARTMENT OF EDUCATION, PROVIDENCE 6/1/70-8/31/71, RENEWAL, \$15,250. OE

CONSTRUCTION

- 44C005 COMMUNITY FACILITIES CONSTRUCTION, J.A. TRUDEAU MEMORIAL CENTER, WARWICK 7/1/69-6/30/70 \$290,183. HSMHA-MCHS
- 44C010 COMMUNITY FACILITIES CONSTRUCTION CRANSTON CENTER FOR MENTALLY RETARDED, CRANSTON 6/30/70 INITIAL \$226,929. SRS-DMR

OTHER

- 44D004 A CHILD DEVELOPMENT RESIDENTIAL PROGRAM DR. JOSEPH H. LADD SCHOOL, NORTH KINGSTOWN 6/1/70-5/31/71 INITIAL \$79,159. SRS-DMR
- 44D005 CHILD DEVELOPMENT CENTER, RHODE ISLAND HOSPITAL, PROVIDENCE STATE DEPARTMENT OF HEALTH, PROVIDENCE 7/1/69-6/30/70, CONTINUATION, \$290,183. HSMHA-MCHS
- 44D010 DENTAL CARE PROGRAM FOR RETARDED CHILDREN, SAMUELS DENTAL CLINIC FOR CHILDREN, PROVIDENCE STATE DEPARTMENT OF HEALTH, PROVIDENCE 7/1/69-6/30/70, CONTINUATION, \$53,500. HSMHA-MCHS
- 44D015 MR INITIAL STAFFING CRANSTON CHAPTER FOR RETARDED CHILDREN, CRANSTON 7/1/70-6/30/71 INITIAL \$23,925. SRS-DMR
- 44D020 REGIONAL DAY CARE CENTER DEMONSTRATION PROJECT RHODE ISLAND DEPARTMENT OF HEALTH, PROVIDENCE 5/1/70-4/30/71, CONTINUATION, \$74,000. CHS-P
- 44D025 STUDENT WORK EXPERIENCE AND TRAINING, DR. JOSEPH H. LADD SCHOOL, NORTH KINGSTOWN, RHODE ISLAND, 6/1/70-5/31/71, INITIAL, \$6,055. SRS-DMR

SOUTH CAROLINA

TRAINING

- 45B015 INSERVICE TRAINING FOR STAFF ON COTTAGE LIFE MIDLANDS CENTER, COLUMBIA 7/1/70-6/30/71 CONTINUATION, \$23,797. SRS-DMR
- 45B020 INSERVICE TRAINING FOR PATIENT CARE PERSONNEL MR SOUTH CAROLINA RETARDED CHILDREN'S HABILITATION CENTER, LADSON 7/1/70-6/30/71 RENEWAL, \$22,512. SRS-DMR
- 45B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN COLUMBIA COLLEGE, COLUMBIA 6/1/70-8/31/71, RENEWAL, \$11,200. OE
- 45B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTH CAROLINA STATE COLLEGE, ORANGEBURG 6/1/70-8/31/71, RENEWAL, \$17,400. OE
- 45B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, COLUMBIA 6/1/70-8/31/71, RENEWAL, \$12,900. OE
- 45B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WINTHROP COLLEGE, ROCK HILL 6/1/70-8/31/71, RENEWAL, \$11,800. OE
- 45B055 UNIVERSITY TRAINING IN MENTAL RETARDATION, UNIVERSITY OF SOUTH CAROLINA, COLUMBIA 9/1/69-8/31/70, CONTINUATION, \$39,778. CHS-P
- 45B060 WORKSHOP ON YOUTHFUL OFFENDER IDENTIFIED AS MENTALLY RETARDED SOUTH CAROLINA DEPARTMENT OF MENTAL RETARDATION, COLUMBIA 6/1/70-7/31/70 INITIAL, \$10,000. SRS-DMR

OTHER

- 45D005 A DEVELOPMENTAL ACTIVITIES PROGRAM FOR THE MR AT PINELAND STATE TRAINING SCHOOL AND HOSPITAL, COLUMBIA 3/1/70-2/28/71 CONTINUATION \$94,388. SRS-DMR
- 45D010 CHILD EVALUATION CLINIC, COLUMBIA STATE BOARD OF HEALTH, COLUMBIA 7/1/69-6/30/70, CONTINUATION, \$30,000. HSMHA-MCHS
- 45D015 DEVELOPMENTAL TEAM FOR SEVERELY-PROFOUNDLY RETARDED, SOUTH CAROLINA RETARDED CHILDREN'S HABILITATION, LADSON 7/1/70-6/30/71 CONTINUATION \$51,248. SRS-DMR
- 45D019 MR INITIAL STAFFING CHARLESTON REHAB WORKSHOP FOR HANDICAPPED, CHARLESTON 7/1/70-6/30/71 INITIAL \$12,525. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 45D020 MR INITIAL STAFFING MIDLANDS ASSOCIATION FOR RETARDED CHILDREN, COLUMBIA
7/1/70-6/30/71 INITIAL \$21,750. SRS-DMR
- 45D025 MR INITIAL STAFFING S.C. DEPT. OF JUVENILE CORRECTIONS, COLUMBIA
7/1/70-6/30/71 INITIAL \$18,003. SRS-DMR
- 45D035 SOCIALIZATION, HABILITATION, INTENSIFICATION PROGRAM, WHITTEN VILLAGE, CLINTON
6/1/70-5/31/71 CONTINUATION \$64,849. SRS-DMR
- 45D037 TRAINING SERVICES GRANT, SOUTH CAROLINA VOCATIONAL REHABILITATION AGENCY, COLUMBIA
6/25/70-6/24/71, CONTINUATION, \$92,821. SRS-RSA
- 45D045 STUDENT WORK EXPERIENCE AND TRAINING, SOUTH CAROLINA DEPARTMENT OF MENTAL RETARDATION, COLUMBIA, SOUTH CAROLINA,
6/15/70-12/31/70, INITIAL, \$8,569. SRS-DMR
- 45D050 STATEWIDE DEVELOPMENT COMMUNITY SERVICES TO THE MENTALLY RETARDED SOUTH CAROLINA DEPARTMENT OF MENTAL RETARDATION, COLUMBIA, S.C.,
6/1/70-5/31/71, INITIAL, \$17,210. SRS-DMR
- 45D055 A COORDINATED INTER-STATE AND INTER-AGENCY APPROACH TO MENTAL RETARDATION SERVICE DEVELOPMENT IMPLEMENTATION AND ASSESSMENT, NATIONAL ASSOCIATION OF COORDINATORS OF STATE PROGRAMS FOR THE MENTALLY RETARDED, COLUMBIA, SOUTH CAROLINA
6/25/70-5/31/71, INITIAL, \$54,664. SRS-DMR

SOUTH DAKOTA

TRAINING

- 46B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN AUGUSTANA COLLEGE, SIOUX FALLS
6/1/70-8/31/71, RENEWAL, \$17,700. OE
- 46B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BLACK HILLS STATE COLLEGE, SIOUX FALLS, SOUTH DAKOTA,
6/1/70-8/31/71, RENEWAL, \$17,700. OE
- 46B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, PIERRE
6/1/70-8/31/71, RENEWAL, \$16,100. OE
- 46B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF SOUTH DAKOTA, VERMILION
6/1/70-8/31/71, RENEWAL, \$25,800. OE

OTHER

- 46D005 FACILITY IMPROVEMENT GRANT BLACK HILLS WORKSHOP SCHOOL, RAPID CITY
6/25/70-6/24/71, CONTINUATION, \$25,340. SRS-RSA
- 46D010 MR INITIAL STAFFING, SIOUX VOCATIONAL SCHOOL FOR THE HANDICAPPED, SIOUX FALLS
7/1/70-6/30/71 CONTINUATION \$12,597. SRS-DMR

TENNESSEE

TRAINING

- 47B005 CHILD DEVELOPMENT CENTER UNIVERSITY OF TENNESSEE, MEMPHIS
7/1/69-6/30/70, CONTINUATION, \$835,484. HSMHA-MCHS
- 47B010 DIAGNOSTIC AND TRAINING LABORATORY IN MENTAL RETARDATION MEHARRY MEDICAL COLLEGE, NASHVILLE
1/1/70-12/31/70, CONTINUATION, \$114,718. HSMHA-MCHS
- 47B015 GENETICS LABORATORY UNIVERSITY OF TENNESSEE, MEMPHIS
7/1/68-6/30/69, RENEWAL, \$58,982. SRS-CB
- 47B020 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF TENNESSEE, MEMPHIS, TENNESSEE,

- 6/1/70-8/31/71, RENEWAL, \$30,000. OE
- 47B025 MENTAL RETARDATION TRAINING FOR GRADUATE PSYCHOLOGY STUDENTS MEMPHIS STATE UNIVERSITY, MEMPHIS
9/1/70-8/31/71 CONTINUATION, \$63,630. SRS-DMR
- 47B035 IMPROVE TRAINING FOR ATTENDANT PERSONNEL MR CLOVER BOTTOM HOSPITAL AND SCHOOL, DONELSON
7/1/70-6/30/71 CONTINUATION, \$23,520. SRS-DMR
- 47B040 ADVANCED INSERVICE AND REFRESHER TRAINING GREENE VALLEY HOSPITAL AND SCHOOL, GREENEVILLE
7/1/70-6/30/71 INITIAL, \$24,295. SRS-DMR
- 47B045 INSERVICE TRAINING - INITIAL COMPREHENSIVE PROGRAM MR ARLINGTON HOSPITAL AND SCHOOL, ARLINGTON
7/1/70-6/30/71 CONTINUATION, \$17,605. SRS-DMR
- 47B050 POSTGRADUATE TRAINING IN CHILDREN'S DENTISTRY UNIVERSITY OF TENNESSEE, MEMPHIS
7/1/69-6/30/70, CONTINUATION, \$109,982. HSMHA-MCHS
- 47B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GEORGE PEABODY COLLEGE FOR TEACHERS, NASHVILLE, TENNESSEE,
6/1/70-8/31/71, RENEWAL, \$68,900. OE
- 47B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MEMPHIS STATE UNIVERSITY, MEMPHIS
6/1/70-8/31/71, RENEWAL, \$23,000. OE
- 47B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, NASHVILLE
6/1/70-8/31/71, RENEWAL, \$71,600. OE
- 47B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF TENNESSEE, KNOXVILLE
6/1/70-8/31/71, RENEWAL, \$11,800. OE
- 47B076 RESEARCH BEHAVIORAL SCIENTISTS IN MENTAL RETARDATION, GEORGE PEABODY COLLEGE FOR TEACHERS, NASHVILLE, TENNESSEE,
7/70-6/71, CONTINUATION, \$98,866. NICHD
- 47B077 SPECIAL PROJECTS, TEAM TEACHING PRACTICUM FOR TEACHER PREPARATION IN MULTIPLE HANDICAPS, GEORGE PEABODY COLLEGE, NASHVILLE, TENNESSEE,
6/1/70-8/31/71, CONTINUING, \$98,540. OE
- 47B080 TECHNICAL PROFICIENCY AND EXPANDED SERVICES IN CHROMOSOME ANALYSIS VANDERBILT UNIVERSITY, NASHVILLE
7/1/69-6/30/70, CONTINUATION, \$37,179. HSMHA-MCHS
- 47B085 TRAINING IN MENTAL RETARDATION FOR A BACCALAUREATE NURSING UNIVERSITY OF TENNESSEE, MEMPHIS
1/1/70-12/31/71 CONTINUATION, \$18,800. SRS-DMR
- 47B090 TRAINING UNIT FOR MENTALLY RETARDED CHILDREN IN A NEIGHBORHOOD COMMUNITY CENTER UNIVERSITY OF TENNESSEE SCHOOL OF SOCIAL WORK, NASHVILLE
7/1/69-6/30/70, RENEWAL, \$17,958. SRS-CSA

CONSTRUCTION

- 47C005 COMMUNITY FACILITIES CONSTRUCTION DAWN OF HOPE DEVELOPMENTAL CENTER, INC., JOHNSON CITY
6/30/70 INITIAL \$111,283. SRS-DMR
- 47C010 COMMUNITY FACILITIES CONSTRUCTION SUNSHINE CENTER FOR THE HANDICAPPED, KNOXVILLE
6/30/70 INITIAL \$12,000. SRS-DMR
- 47C015 COMMUNITY FACILITIES CONSTRUCTION SPECIAL EDUCATION DEMONSTRATION CENTER FOR MENTALLY RETARDED, GREENEVILLE
6/30/70 INITIAL \$156,125. SRS-DMR

OTHER

- 47D005 COMMUNITY DAY CARE CENTER PROGRAM METROPOLITAN HEALTH DEPARTMENT, NASHVILLE
7/1/69-7/31/70, CONTINUATION, \$113,491. CHS-P

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

47D006 COMMUNITY DAY CARE CENTER PROGRAM,
METROPOLITAN HEALTH DEPARTMENT, NASHVILLE,
TENNESSEE,
8/1/70-7/31/71, CONTINUATION, \$81,452. SRS-DMR

47D020 INTENSIVE TRAINING IN BASIC SELF-CARE AND SOCIAL
SKILLS, CLOVER BOTTOM HOSPITAL AND SCHOOL,
DONELSON
9/1/69-8/31/70 CONTINUATION \$82,907. SRS-DMR

47D026 MR INITIAL STAFFING COMMUNITY CARE CENTERS OF
N. NASHVILLE, NASHVILLE
7/1/70-6/30/71 CONTINUATION \$32,016. SRS-DMR

47D030 MR INITIAL STAFFING, CORDELL HULL ECONOMIC
OPPORTUNITY CORP., LAFAYETTE
7/1/70-6/30/71 CONTINUATION \$107,968. SRS-DMR

47D033 MR INITIAL STAFFING, DAWN OF HOPE DEVELOPMENT
CENTER, INC., JOHNSON CITY
7/1/70-6/30/71 CONTINUATION \$25,113. SRS-DMR

47D038 MR INITIAL STAFFING EMORY VALLEY SCHOOL OF
ANDERSON CO., OAK RIDGE
7/1/70-6/30/71 INITIAL \$8,913. SRS-DMR

47D039 MR INITIAL STAFFING GREENE VALLEY HOSPITAL AND
SCHOOL, GREENEVILLE
7/1/70-6/30/71 INITIAL \$18,414. SRS-DMR

47D040 MR INITIAL STAFFING, DE KALB COUNTY BOARD OF
EDUCATION, SMITHVILLE
7/1/70-6/30/71 CONTINUATION \$31,311. SRS-DMR

47D041 MR INITIAL STAFFING GREENE VALLEY HOSPITAL AND
SCHOOL, GREENEVILLE
7/1/70-6/30/71 INITIAL \$21,632. SRS-DMR

47D042 MR INITIAL STAFFING HARDEMAN CO. ASSOCIATION
FOR RETARDED CHILDREN, TOONE
7/1/70-6/30/71 INITIAL \$15,570. SRS-DMR

47D045 MR INITIAL STAFFING, JACKSON DAY CARE CENTER,
JACKSON
7/1/70-6/30/71 CONTINUATION \$17,485. SRS-DMR

47D046 MR INITIAL STAFFING MEMPHIS-SHELBY CO.
ASSOCIATION FOR RETARDED CHILDREN, MEMPHIS
7/1/70-6/30/71 INITIAL \$24,687. SRS-DMR

47D047 MR INITIAL STAFFING MEMORIAL RESEARCH CENTER
AND HOSPITAL, KNOXVILLE
7/1/70-6/30/71 INITIAL \$14,700. SRS-DMR

47D048 MR INITIAL STAFFING ORANGE GROVE CENTER FOR
RETARDED, CHATTANOOGA
7/1/70-6/30/71 INITIAL \$25,377. SRS-DMR

47D050 MR INITIAL STAFFING, ORANGE GROVE CENTER FOR
THE RETARDED, INC., CHATTANOOGA
8/1/70-7/31/71 CONTINUATION \$32,704. SRS-DMR

47D051 MR INITIAL STAFFING SHELTERED OCCUPATIONAL
SHOP, MEMPHIS
7/1/70-6/30/71 INITIAL \$23,880. SRS-DMR

47D055 MR INITIAL STAFFING, ST. PAUL'S LUTHERAN CHURCH
DAY CARE CENTER, NASHVILLE
7/1/69-6/30/70, INITIAL, \$39,649. SRS-DMR

47D056 MR INITIAL STAFFING SUNSHINE CENTER FOR
HANDICAPPED, KNOXVILLE
7/1/70-6/30/71 INITIAL \$52,028. SRS-DMR

47D060 MR INITIAL STAFFING, TEAM EVALUATION CENTER,
INC., CHATTANOOGA
7/1/70-6/30/71 CONTINUATION \$10,284. SRS-DMR

47D061 MR INITIAL STAFFING WILSON CO. VOCATIONAL
CENTER, LEBANON
7/1/70-6/30/71 INITIAL \$17,780. SRS-DMR

47D070 TRAINING FOR OLDER SEVERELY AND PROFOUNDLY
RETARDED, GREENE VALLEY HOSPITAL AND
SCHOOL, NASHVILLE
2/1/70-1/31/71 CONTINUATION \$76,256. SRS-DMR

47D075 TEAM EVALUATION CENTER FOR THE MULTIPLE
HANDICAPPED STATE DEPARTMENT OF PUBLIC
HEALTH, NASHVILLE
7/1/69-6/30/70, CONTINUATION, \$86,925. HSMHA-MCHS

47D080 STUDENT WORK EXPERIENCE AND TRAINING,
TUSCULUM COLLEGE, GREENEVILLE, TENNESSEE,
6/15/70-6/14/71, INITIAL, \$11,760. SRS-DMR

47D085 PROPOSED SERVICE GRANT FOR MULTI-HANDICAPPED
OF WILSON HALL, GREENE VALLEY HOSPITAL AND
SCHOOL, GREENEVILLE, TENNESSEE,
6/15/70-6/14/71, INITIAL, \$23,232. SRS-DMR

47D090 DAY TRAINING FOR MULTI-HANDICAPPED SEVERELY
RETARDED CHILDREN, CHILD DEVELOPMENT

CENTER, UNIVERSITY OF TENNESSEE MEDICAL
UNITS, MEMPHIS, TENNESSEE,
6/15/70-6/14/71, INITIAL, \$21,511. SRS-DMR

TEXAS

TRAINING

48B005 ACADEMIC PEDIATRICS UNIVERSITY OF TEXAS, ...
GALVESTON
7/69-6/70, FY 1969, INITIAL, \$45,144. NICH

48B010 DIAGNOSTIC AND EVALUATION CENTER FOR
MENTALLY RETARDED CHILDREN UNIVERSITY OF
TEXAS, DALLAS
7/1/69-6/30/70, CONTINUATION, \$163,465. HSMHA-MCHS

48B015 EDUCATION PROGRAM FOR ALL RESIDENTIAL
COUNSELORS MR RICHMOND STATE SCHOOL,
RICHMOND
9/1/70-8/31/71 RENEWAL, \$23,178. SRS-DMR

48B020 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
UNIVERSITY OF TEXAS, AUSTIN
9/1/69-8/31/70, CONTINUATION, \$25,489. SRS-RSA

48B025 GRADUATE SOCIAL WORK STUDENT TRAINING
PROJECT IN MENTAL RETARDATION WORDEN
SCHOOL OF SOCIAL SERVICE, OUR LADY OF THE
LAKE COLLEGE, SAN ANTONIO
7/1/70-6/30/71 CONTINUATION, \$48,495. SRS-DMR

48B030 IMPROVE INSERVICE TRAINING PROGRAM OF
INSTITUTION MR DENTON STATE SCHOOL, DENTON
7/1/70-6/30/71 INITIAL, \$24,469. SRS-DMR

48B035 INSERVICE TRAINING FOR ALL LEVELS OF ATTENDANT
PERSONNEL MR ABILENE STATE SCHOOL, ABILENE
7/1/70-6/30/71 CONTINUATION, \$23,750. SRS-DMR

48B040 INSERVICE TRAINING FOR ALL STAFF PERSONNEL MR
MEXIA STATE SCHOOL, MEXIA
7/1/68-7/31/70, RENEWAL, \$24,673. SRS-DMR

48B045 INSERVICE TRAINING MATERIALS DEVELOPMENT
PROJECT MR AUSTIN STATE SCHOOL, AUSTIN
7/1/70-6/30/71 CONTINUATION, \$19,899. SRS-DMR

48B046 INSERVICE TRAINING MENTAL RETARDATION SAN
ANGELO CENTER, SAN ANGELO
9/1/70-8/31/71 INITIAL, \$21,523. SRS-DMR

48B050 INSERVICE TRAINING PROGRAM FOR ATTENDANT
PERSONNEL MR TRAVIS STATE SCHOOL, AUSTIN
7/1/70-6/30/71 CONTINUATION, \$23,137. SRS-DMR

48B051 INSERVICE TRAINING PROGRAM LUBBOCK STATE
SCHOOL, LUBBOCK
9/1/70-8/31/71 INITIAL, \$21,573. SRS-DMR

48B055 MENTAL EVALUATION CLINIC BAYLOR UNIVERSITY,
HOUSTON
7/1/69-6/30/70, CONTINUATION, \$324,939. HSMHA-MCHS

48B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN EAST
TEXAS STATE UNIVERSITY, COMMERCE
6/1/70-8/31/71, RENEWAL, \$17,400. OE

48B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
INCARNATE WORD COLLEGE, SAN ANTONIO
6/1/70-8/31/71, RENEWAL, \$17,400. OE

48B075 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN LAMAR
STATE COLLEGE OF TECHNOLOGY, BEAUMONT
6/1/70-8/31/71, RENEWAL, \$11,200. OE

48B080 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
MIDWESTERN UNIVERSITY, WICHITA FALLS
6/1/70-8/31/71, RENEWAL, \$15,000. OE

48B085 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN PRAIRIE
VIEW A.E.M., PRAIRIE VIEW
6/1/70-8/31/71, RENEWAL, \$15,000. OE

48B090 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
SOUTHWEST TEXAS STATE UNIVERSITY, SAN
MARCOS, TEXAS,
6/1/70-8/31/71, RENEWAL, \$14,000. OE

48B100 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN TEXAS
TECHNOLOGY UNIVERSITY, LUBBOCK, TEXAS

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 6/1/70-8/31/71, RENEWAL, \$36,700. OE
- 48B105 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TEXAS WOMAN'S UNIVERSITY, DENTON, TEXAS, 6/1/70-8/31/71, RENEWAL, \$33,000. OE
- 48B110 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF HOUSTON, HOUSTON 6/1/70-8/31/71, RENEWAL, \$59,600. OE
- 48B115 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF TEXAS, AUSTIN 6/1/70-8/31/71, RENEWAL, \$99,000. OE
- 48B120 REHABILITATION RESEARCH AND TRAINING CENTER UNIVERSITY OF TEXAS, AUSTIN 5/1/69-4/30/70, RENEWAL, \$134,052. SRS-ORDT
- 48B125 THE RELATION OF GENETIC STUDIES TO CHILDREN WITH MENTAL RETARDATION UNIVERSITY OF TEXAS, GALVESTON 7/1/68-6/30/69, RENEWAL, \$78,277 SRS-CB
- 48B130 THE TRAINING OF GRADUATE STUDENTS OF PEDODONTICS IN THE CARE OF HANDICAPPED CHILDREN BAYLOR UNIVERSITY, DALLAS 7/1/69-6/30/70, CONTINUATION, \$46,727. HSMHA-MCHS
- 48B135 TRAINING IN COMPREHENSIVE HEALTH SERVICES FOR CHILDREN UNIVERSITY OF TEXAS, DALLAS 7/1/69-6/30/70, CONTINUATION, \$89,584. HSMHA-MCHS
- 48B140 TRAINING IN INTERDISCIPLINARY COMPREHENSIVE CHILD HEALTH SERVICES FOR THE HANDICAPPED UNIVERSITY OF TEXAS, GALVESTON 7/1/69-6/30/70, CONTINUATION, \$153,147. HSMHA-MCHS
- 48B145 TRAINING OF ATTENDANT AND SUPERVISORY PERSONNEL MR LUFKIN STATE SCHOOL, LUFKIN 7/1/70-6/30/71 RENEWAL, \$20,296. SRS-DMR
- 48B150 WORKSHOP ON ROLE AND RESPONSIBILITY OF THE COUNTY JUDGE IN PROMOTING AND SUPPORTING LOCAL LEVEL PROGRAMS AND SERVICES FOR MENTALLY RETARDED TEXAS DEPARTMENT OF MENTAL HEALTH AND MENTAL RETARDATION, AUSTIN 7/1/70-6/30/71 INITIAL, \$40,739. SRS-DMR
- 48B155 HUMAN RIGHTS FOR THE MENTALLY RETARDED SCHOOL OF ALLIED HEALTH PROFESSIONS OF UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL SCHOOL AT DALLAS DEPARTMENT OF REHABILITATION SCIENCE, DALLAS 7/1/70-6/30/71 INITIAL, \$20,000. SRS-DMR

CONSTRUCTION

- 48C005 COMMUNITY FACILITIES CONSTRUCTION HARRIS COUNTY CENTER FOR THE RETARDED, HOUSTON 6/30/70 INITIAL \$126,472. SRS-DMR
- 48C010 COMMUNITY FACILITIES CONSTRUCTION DALLAS COUNTY MENTAL HEALTH & MENTAL RETARDATION CENTER, DALLAS 6/30/70 INITIAL \$75,000. SRS-DMR
- 48C015 COMMUNITY FACILITIES CONSTRUCTION STUDENT ACTIVITY CENTER-MEXIA STATE SCHOOL, MEXIA 6/30/70 INITIAL \$175,870. SRS-DMR
- 48C020 COMMUNITY FACILITIES CONSTRUCTION MARBRIDGE RANCH, AUSTIN 6/5/70 INITIAL \$218,400. SRS-DMR
- 48C025 COMMUNITY FACILITIES CONSTRUCTION CHILD DEVELOPMENT CENTER-SAN ANTONIO ASSOCIATION FOR RETARDED CHILDREN 1/29/70 INITIAL \$56,109. SRS-DMR
- 48C030 COMMUNITY FACILITIES CONSTRUCTION SPECIAL CARE SCHOOL, FARMERS BRAND 12/26/69 INITIAL \$305,306. SRS-DMR

OTHER

- 48D005 CHILD DEVELOPMENT AND TRAINING SERVICE, DENTON STATE SCHOOL, DENTON 6/1/70-5/31/71 CONTINUATION \$93,262. SRS-DMR
- 48D010 COMMUNITY APPROACH IN MANAGEMENT OF DENTAL DISEASE RETARDED HARRIS COUNTY CENTER FOR RETARDED, HOUSTON 7/1/69-7/31/70, CONTINUATION, \$60,215. CHS-P

- 48D016 CRIMINAL JUSTICE AND MENTALLY RETARDED OFFENDERS MEXIA STATE SCHOOL, MEXIA 6/25/70-5/31/71 INITIAL \$113,000. SRS-DMR
- 48D025 DEVELOP INFORMATION-EDUCATION AND REFERRAL SERVICE FOR STATE TEXAS DEPARTMENT OF MENTAL HEALTH-RETARDATION, AUSTIN 9/1/69-8/31/70, CONTINUATION, \$85,540. CHS-P
- 48D030 DEVELOPMENTAL RECREATION PROGRAM FOR MENTAL RETARDATES, ABILENE STATE SCHOOL, ABILENE, TEXAS 5/1/70-4/30/71, CONTINUATION, \$70,673. SRS-DMR
- 48D054 MR INITIAL STAFFING CHILD STUDY CENTER, FORT WORTH 9/1/70-8/31/71 INITIAL \$84,398. SRS-DMR
- 48D055 MR INITIAL STAFFING, BAYTOWN OPPORTUNITY CENTER, BAYTOWN 9/1/70-8/31/71 CONTINUATION \$13,299. SRS-DMR
- 48D056 MR INITIAL STAFFING COMMUNITY SHELTERED WORKSHOP, FORT WORTH 7/1/70-6/30/71 INITIAL \$29,144. SRS-DMR
- 48D060 MR INITIAL STAFFING DALLAS CO. MH-MR CENTER, DALLAS 9/1/70-8/31/71 INITIAL \$61,703. SRS-DMR
- 48D066 MR INITIAL STAFFING GOODWILL INDUSTRIES OF SAN ANTONIO, SAN ANTONIO 7/1/70-6/30/71 INITIAL \$21,375. SRS-DMR
- 48D067 MR INITIAL STAFFING GREGG CO. ASSOCIATION FOR RETARDED CHILDREN, LONGVIEW 9/1/70-8/31/71 INITIAL \$10,017. SRS-DMR
- 48D085 MR INITIAL STAFFING HUNT CO. OPPORTUNITY CENTER, GREENVILLE 9/1/70-8/31/71 INITIAL \$13,613. SRS-DMR
- 48D086 MR INITIAL STAFF INDIVIDUAL DEVELOPMENT CENTER, WICHITA FALLS 7/1/70-6/30/71 INITIAL \$27,720. SRS-DMR
- 48D089 MR INITIAL STAFFING MH-MR CENTER, AUSTIN-TRAVIS CO., AUSTIN 9/1/70-8/31/71 INITIAL \$28,133. SRS-DMR
- 48D090 MR INITIAL STAFFING, M.H. MR CENTER/AUSTIN-TRAVIS COUNTY, AUSTIN 9/1/70-8/31/71 CONTINUATION \$134,920. SRS-DMR
- 48D091 MR INITIAL STAFFING MH-MR CENTER FOR GREATER WEST TEXAS, SAN ANGELO 9/1/70-8/31/71 INITIAL \$6,846. SRS-DMR
- 48D092 MR INITIAL STAFFING MH-MR CENTER OF HIDALGO CO., EDINBURG 9/1/70-8/31/71 INITIAL \$73,206. SRS-DMR
- 48D095 MR INITIAL STAFFING MARBRIDGE FOUNDATION FOR RETARDED CHILDREN, AUSTIN 8/1/70-7/31/71 INITIAL \$58,162. SRS-DMR
- 48D100 MR INITIAL STAFFING MIDLAND COMMUNITY CENTER FOR MH-MR, MIDLAND 9/1/70-8/31/71 INITIAL \$47,863. SRS-DMR
- 48D105 MR INITIAL STAFFING SAN ANTONIO ASSOCIATION FOR RETARDED, SAN ANTONIO 9/1/70-8/31/71 INITIAL \$24,570. SRS-DMR
- 48D115 MR INITIAL STAFFING, ST. ANTHONY'S SPECIAL EDUCATION SCHOOL, SAN ANTONIO 8/1/70-7/31/71 CONTINUATION \$26,527. SRS-DMR
- 48D125 PHYSICAL DEVELOPMENT PROGRAM FOR MENTAL RETARDATES ABILENE STATE SCHOOL, ABILENE 9/1/69-8/31/70 CONTINUATION \$48,009. SRS-DMR
- 48D130 PHYSICAL DEVELOPMENT PROGRAM SEMI-AMBULANT RETARDED, RICHMOND STATE SCHOOL, RICHMOND 6/1/70-5/31/71 CONTINUATION \$73,995. SRS-DMR
- 48D135 REHABILITATION OF INTRACTABLE DEFECTIVE DELINQUENTS, MEXIA STATE SCHOOL, MEXIA 6/15/70-6/14/71 CONTINUATION \$84,064. SRS-DMR
- 48D140 RESIDENT TRAINING PROJECT, LUFKIN STATE SCHOOL, LUFKIN 12/1/69-11/30/70 CONTINUATION \$100,000. SRS-DMR
- 48D145 SOCIAL DEVELOPMENT PROGRAM FOR MENTAL RETARDATES, ABILENE STATE SCHOOL, ABILENE 9/1/69-8/31/70 CONTINUATION \$51,052. SRS-DMR
- 48D160 STUDENT WORK EXPERIENCE AND TRAINING, TEXAS DEPARTMENT OF MENTAL HEALTH AND MENTAL RETARDATION, ABILENE, TEXAS, 6/1/70-8/31/70, INITIAL, \$4,700. SRS-DMR
- 48D165 STUDENT WORK EXPERIENCE AND TRAINING, AUSTIN STATE SCHOOL, AUSTIN, TEXAS 6/1/70-8/31/70, INITIAL, \$4,800. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 48D170 STUDENT WORK EXPERIENCE AND TRAINING, BEXAR COUNTY BOARD OF TRUSTEES FOR MENTAL HEALTH AND MENTAL RETARDATION SERVICES, SAN ANTONIO, TEXAS, 6/1/70-8/31/70, INITIAL, \$3,068. SRS-DMR
- 48D175 STUDENT WORK EXPERIENCE AND TRAINING, LUBBOCK STATE SCHOOL, LUBBOCK, TEXAS, 6/1/70-8/31/70, INITIAL, \$3,102. SRS-DMR
- 48D180 STUDENT WORK EXPERIENCE AND TRAINING, MENTAL HEALTH-MENTAL RETARDATION CENTER, AUSTIN, TEXAS, 6/1/70-8/31/70, INITIAL, \$3,168. SRS-DMR
- 48D185 STUDENT WORK EXPERIENCE AND TRAINING, MEXIA STATE SCHOOL, MEXIA, TEXAS, 6/1/70-8/31/70, INITIAL, \$4,800. SRS-DMR
- 48D190 STUDENT WORK EXPERIENCE AND TRAINING, SAN ANGELO CENTER, CARLSBAD, TEXAS, 6/1/70-8/31/70, INITIAL, \$2,965. SRS-DMR
- 48D195 STUDENT WORK EXPERIENCE AND TRAINING, TRAVIS STATE SCHOOL, AUSTIN, TEXAS, 6/1/70-12/31/70, INITIAL, \$4,700. SRS-DMR
- 48D200 STUDENT WORK EXPERIENCE AND TRAINING, DALLAS COUNTY MENTAL HEALTH AND MENTAL RETARDATION CENTER, DALLAS, TEXAS, 6/15/70-8/31/70, INITIAL, \$1,976. SRS-DMR
- 48D205 SPECIAL PROJECT TO DEVELOP MENTAL RETARDATION LIAISON SERVICES IN A MULTI-COUNTY AREA CONTAINING POPULATION WITH A HIGH INCIDENCE OF SPANISH SURNAMES, TEXAS DEPARTMENT OF MENTAL HEALTH AND MENTAL RETARDATION, AUSTIN, TEXAS, 6/15/70-6/14/71, INITIAL \$13,631. SRS-DMR
- 48D210 EXTENDED LIVING AND WORKSHOP TRAINING PROGRAM FOR THE SEVERELY RETARDED, TEXAS REHABILITATION COMMISSION, DIVISION OF VOCATIONAL REHABILITATION, AUSTIN, TEXAS, 6/15/70-6/14/73, INITIAL, \$37,800. SRS-DMR

UTAH

TRAINING

- 49B005 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF UTAH, SALT LAKE CITY, 9/1/69-8/31/70, CONTINUATION, \$26,052. SRS-RSA
- 49B010 INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR UTAH STATE TRAINING SCHOOL, AMERICAN FORK, 7/1/70-6/30/71 CONTINUATION, \$23,465. SRS-DMR
- 49B011 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT-UNIVERSITY AFFILIATED FACILITY, UTAH STATE UNIVERSITY, LOGAN, UTAH, 0/1/70-8/31/71, RENEWAL, \$22,500. OE
- 49B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BRIGHAM YOUNG UNIVERSITY, PROVO, 6/1/70-8/31/71, RENEWAL, \$30,500. OE
- 49B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OFFICE OF THE STATE SUPERINTENDENT OF PUBLIC INSTRUCTION, SALT LAKE CITY, 6/1/70-8/31/71, RENEWAL, \$11,300. OE
- 49B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF UTAH, SALT LAKE CITY, 6/1/70-8/31/71, RENEWAL, \$73,500. OE
- 49B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UTAH STATE UNIVERSITY OF AGRICULTURE APPLIED SCIENCES, LOGAN, 6/1/70-8/31/71, RENEWAL, \$30,500. OE

CONSTRUCTION

- 49C005 COMMUNITY FACILITIES UNIVERSITY-AFFILIATED FACILITIES FOR MENTAL RETARDATION-UTAH STATE UNIVERSITY FOR AGRICULTURE AND APPLIED SCIENCE, LOGAN, 10/29/70 INITIAL \$50,000. SRS-DMR

- 49C010 COMMUNITY FACILITIES CONSTRUCTION DAVIS COUNTY SCHOOL DISTRICT, FARMINGTON, 6/29/70 INITIAL \$156,650. SRS-DMR

OTHER

- 49D005 INTENSIVE HABIT-TRAINING CENTER, UTAH STATE TRAINING SCHOOL, AMERICAN FORK, 3/1/70-2/28/71 CONTINUATION \$94,449. SRS-DMR
- 49D015 MR INITIAL STAFFING, HOLLADAY CHILDREN'S CENTER, INC., SALT LAKE CITY, 9/1/70-8/31/71 CONTINUATION \$7,589. SRS-DMR
- 49D016 MR INITIAL STAFFING PROUD CITY SCHOOLS, PROVO, 7/1/70-6/30/71 CONTINUATION \$7,683. SRS-DMR
- 49D017 MR INITIAL STAFFING UTAH STATE TRAINING SCHOOL, AMERICAN FORK, 7/1/70-6/30/71 INITIAL \$43,897. SRS-DMR
- 49D020 MR INITIAL STAFFING, UTAH VALLEY CARE AND TRAINING CENTER, PROVO, 7/1/69-6/30/70, INITIAL, \$9,315. SRS-DMR
- 49D025 PROJECT DEVELOPMENT, SALT LAKE CITY SCHOOL DISTRICT, SALT LAKE CITY, 6/15/70-6/14/71, INITIAL, \$6,500. SRS-RSA

VERMONT

TRAINING

- 50B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, MONTPELIER, 6/1/70-8/31/71, RENEWAL, \$23,352. OE
- 50B010 STAFF DEVELOPMENT TRAINING PROGRAM MR BRANDON TRAINING SCHOOL, BRANDON, 7/1/70-6/30/71 CONTINUATION, \$1,294. SRS-DMR

OTHER

- 50D005 MR INITIAL STAFFING FAMILY AND CHILD GUIDANCE SERVICE, BELLOWS FALLS, 9/1/70-8/31/71 INITIAL \$36,037. SRS-DMR
- 50D010 MR INITIAL STAFFING, RUTLAND MENTAL HEALTH SERVICE, INC., RUTLAND, 9/1/70-8/31/71 CONTINUATION \$9,600. SRS-DMR
- 50D020 TERMINAL EMPLOYMENT IN A RESIDENTIAL SHELTERED WORKSHOP, BRANDON TRAINING SCHOOL, BRANDON, 6/1/69-5/31/70, RENEWAL, \$19,675. SRS-DMR
- 50D025 VOLUNTEER SERVICES PROJECT, BRANDON TRAINING SCHOOL, BRANDON, 6/1/70-5/31/71 CONTINUATION \$24,802. SRS-DMR

VIRGINIA

TRAINING

- 51B005 EXPAND NURSING SERVICE STAFF DEVELOPMENT PROGRAM MR LYNCHBURG TRAINING SCHOOL AND HOSPITAL, LYNCHBURG, 7/1/69-6/30/70, RENEWAL, \$15,565. SRS-DMR
- 51B010 INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR PETERSBURG TRAINING SCHOOL, PETERSBURG, 7/1/69-6/30/70, INITIAL, \$25,000. SRS-DMR
- 51B011 INSERVICE TRAINING MENTAL RETARDATION LYNCHBURG TRAINING SCHOOL AND HOSPITAL, LYNCHBURG, 7/1/70-6/30/71 INITIAL, \$22,497. SRS-DMR
- 51B012 NURSING IN MENTAL RETARDATION, MEDICAL COLLEGE OF VIRGINIA, RICHMOND, 7/1/69-6/30/70, INITIAL, \$2,640. HSMHA-MCHS
- 51B015 MENTAL RETARDATION, UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA, VIRGINIA COMMONWEALTH UNIVERSITY, RICHMOND, 7/70-6/71, CONTINUATION, \$23,867. NICHD

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 51B020 CONFERENCE OF RETARDATES REPRESENTING RESIDENTS OF INSTITUTIONS FOR RETARDATES AND WORKERS IN SHELTERED WORKSHOPS LYNCHBURG TRAINING SCHOOL AND HOSPITAL, LYNCHBURG 9/1/70-5/31/71 INITIAL \$8,904. SRS-DMR
- 51B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, MADISON COLLEGE, HARRISONBURG, VIRGINIA, 6/1/70-8/31/71, INITIAL, \$11,800. OE
- 51B030 SPECIAL PROJECTS, COOPERATIVE UNIVERSITY, SCHOOL DIVISION PLANNING TO DEVELOP A SPECIAL EDUCATION PRACTICUM LABORATORY IN A RURAL SETTING, VIRGINIA COMMONWEALTH UNIVERSITY, RICHMOND, VIRGINIA, 6/1/70-8/31/71, CONTINUING, \$110,000. OE
- 51B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, COLLEGE OF WILLIAM AND MARY, WILLIAMSBURG, VIRGINIA, 6/1/70-8/31/71, RENEWAL, \$10,600. OE
- 51B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, OLD DOMINION UNIVERSITY, NORFOLK, VIRGINIA, 6/1/70-8/31/71, RENEWAL, \$30,800. OE
- 51B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, RADFORD COLLEGE, RADFORD, VIRGINIA, 6/1/70-8/31/71, RENEWAL, \$11,200. OE
- 51B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, STATE BOARD OF EDUCATION, RICHMOND, VIRGINIA, 6/1/70-8/31/71, RENEWAL, \$41,300. OE
- 51B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA, 6/1/70-8/31/71, RENEWAL, \$65,029. OE
- 51B075 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, VIRGINIA COMMONWEALTH UNIVERSITY, RICHMOND, VIRGINIA, 6/1/70-8/31/71, RENEWAL, \$42,000. OE
- 51B080 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, NORFOLK STATE COLLEGE, NORFOLK, VIRGINIA, 6/1/70-8/31/71, RENEWAL, \$23,600. OE
- 51B085 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, VIRGINIA STATE COLLEGE, PETERSBURG, VIRGINIA, 6/1/70-8/31/71, RENEWAL, \$20,500. OE

OTHER

- 51D005 CHILD EVALUATION CLINIC, NORFOLK STATE DEPARTMENT OF HEALTH, RICHMOND 7/1/69-6/30/70, CONTINUATION, \$38,677. HSMHA-MCHS
- 51D010 CHILDREN'S MULTIPLE HANDICAPPED DIAGNOSTIC AND TREATMENT EVALUATION CENTER, UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE STATE DEPARTMENT OF HEALTH, RICHMOND 7/1/69-6/30/70, CONTINUATION, \$212,000. HSMHA-MCHS
- 51D015 CONSULTATION AND EVALUATION CLINIC, RICHMOND STATE DEPARTMENT OF HEALTH, RICHMOND 7/1/69-6/30/70, CONTINUATION, \$112,470. HSMHA-MCHS
- 51D020 CONSULTATION AND EVALUATION CLINIC, ROANOKE STATE DEPARTMENT OF HEALTH, RICHMOND 7/1/69-6/30/70, CONTINUATION, \$15,259. HSMHA-MCHS
- 51D030 A DEMONSTRATION DAYTIME DEVELOPMENT CENTER PROJECT FOR A SUBURBAN COMMUNITY, FAIRFAX COUNTY HEALTH DEPARTMENT, FAIRFAX, VIRGINIA, 8/1/69-7/31/70, CONTINUATION, \$30,724. SRS-DMR
- 51D035 FACILITY IMPROVEMENT GRANT SHELTERED WORKSHOP OF LYNCHBURG, INC., LYNCHBURG 11/1/70-12/31/71, CONTINUATION, \$3,200. SRS-RSA
- 51D040 HIP TOTAL ACTIVITY PROGRAM LYNCHBURG TRAINING SCHOOL AND HOSPITAL, LYNCHBURG 6/25/70-5/31/71 INITIAL \$89,707. SRS-DMR
- 51D042 FACILITY IMPROVEMENT, VALLEY WORKSHOP, WAYNESBORO 6/15/70-6/14/71, INITIAL, \$21,095. SRS-RSA

- 51D050 MENTAL RETARDATION CHILDREN'S CLINIC, ARLINGTON STATE DEPARTMENT OF HEALTH, RICHMOND 7/1/69-6/30/70, CONTINUATION, \$28,769. HSMHA-MCHS
- 51D051 MR INITIAL STAFFING CHARLOTTESVILLE AND ALBEMARLE ASSOCIATION FOR RETARDED CHILDREN, CHARLOTTESVILLE 7/1/70-6/30/71 INITIAL \$5,658. SRS-DMR
- 51D054 MR INITIAL STAFFING HOPE HOUSE FOUNDATION, NORFOLK 7/1/70-6/30/71 INITIAL \$8,737. SRS-DMR
- 51D055 MR INITIAL STAFFING, PENINSULA ASSN. FOR RETARDED CHILDREN, HAMPTON 9/1/70-8/31/71 CONTINUATION \$24,785. SRS-DMR
- 51D060 PROJECT DEVELOPMENT, NEW RIVER VALLEY ASSOCIATION FOR RETARDED CHILDREN, RADFORD 6/29/70-6/28/71, INITIAL, \$2,700. SRS-RSA
- 51D061 MR INITIAL STAFFING SHELTERED ENTERPRISES OF ALEXANDRIA, ALEXANDRIA 7/1/70-6/30/71 INITIAL \$7,275. SRS-DMR
- 51D062 MR INITIAL STAFFING TIDEWATER VOCATIONAL CENTER, NORFOLK 7/1/70-6/30/71 INITIAL \$43,016. SRS-DMR
- 51D063 MR INITIAL STAFFING TIDEWATER REHABILITATION INSTITUTE, NORFOLK 9/1/70-8/31/71 INITIAL \$31,370. SRS-DMR
- 51D064 A MILIEU FOR INTRA FAMILY RELATIONSHIPS FOR MENTALLY RETARDED ADULTS, NORTHERN VIRGINIA ASSOCIATION FOR RETARDED CHILDREN, ARLINGTON 12/1/69-2/28/70, INITIAL, \$5,330. CHS-P
- 51D070 STUDENT WORK EXPERIENCE AND TRAINING, CENTRAL STATE HOSPITAL, PETERSBURG, VIRGINIA, 6/1/70-5/31/71, INITIAL, \$13,710. SRS-DMR
- 51D075 STUDENT WORK EXPERIENCE AND TRAINING, SHELTERED ENTERPRISES OF ALEXANDRIA, INC., ALEXANDRIA, VIRGINIA, 6/15/70-6/14/71, INITIAL, \$560. SRS-DMR
- 51D080 A MILIEU FOR THE DEVELOPMENT OF MEANINGFUL INTER-PERSONAL AND INTRA-FAMILY RELATIONSHIPS FOR THE MENTALLY RETARDED CHILD, NORTHERN VIRGINIA ASSOCIATION FOR RETARDED CHILDREN, ARLINGTON, VIRGINIA 12/1/69-11/30/70, CONTINUATION, \$15,670. SRS-DMR
- 51D085 DAY CARE CENTER FOR MENTALLY RETARDED CHILDREN AND ADULTS, TIDEWATER ASSOCIATION FOR RETARDED CHILDREN, NORFOLK, VIRGINIA, 6/25/70-6/30/71, INITIAL, \$66,747. SRS-DMR

VIRGIN ISLANDS

TRAINING

- 52B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN VIRGIN ISLANDS DEPARTMENT OF EDUCATION, CHARLOTTE AMALIE 6/1/70-8/31/71, RENEWAL, \$5,300. OE

WASHINGTON

TRAINING

- 53B003 ANNUAL MR WORKSHOP FOR STATE OF WASHINGTON, UNIVERSITY OF WASHINGTON, SEATTLE 7/1/69-6/30/70, INITIAL, \$7,500. HSMHA-MCHS
- 53B005 COMPREHENSIVE TRAINING IN MENTAL RETARDATION AND CHILD DEVELOPMENT UNIVERSITY OF WASHINGTON, SEATTLE 7/1/69-6/30/70, CONTINUATION, \$752,870. HSMHA-MCHS
- 53B010 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF WASHINGTON, SEATTLE 6/1/70-5/31/71, CONTINUATION, \$28,107. SRS-RSA
- 53B015 INSERVICE TRAINING FOR ATTENDANT COUNSELORS AND OTHER STAFF MR RAINIER SCHOOL, BUCKLEY 7/1/68-6/30/70, RENEWAL, \$17,012 SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 53B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CENTRAL WASHINGTON STATE COLLEGE, ELLENSBURG 6/1/70-8/31/71, RENEWAL, \$55,100. OE
- 53B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, OLYMPIA 6/1/70-8/31/71, RENEWAL, \$15,400. OE
- 53B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF WASHINGTON, SEATTLE 6/1/70-8/31/71, RENEWAL, \$45,600. OE
- 53B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WESTERN WASHINGTON STATE UNIVERSITY, BILLINGHAM, WASHINGTON, 6/1/70-8/31/71, RENEWAL, \$11,500. OE
- 53B040 TRAINING FOR ATTENDANT AND PROFESSIONAL STAFF MR YAKIMA VALLEY SCHOOL, SELAH 7/1/70-6/30/71 CONTINUATION, \$21,779. SRS-DMR
- 53B045 TRAINING FOR NURSING IN MENTAL RETARDATION UNIVERSITY OF WASHINGTON, SEATTLE 7/1/69-6/30/70, CONTINUATION, \$90,861. HSMHA-MCHS
- 53B050 TRAINING PRIMARILY FOR ATTENDANT PERSONNEL MR FIRCREST SCHOOL, SEATTLE 7/1/69-6/30/70, RENEWAL, \$25,000. SRS-DMR
- 53B055 TRAINING FOR SUPERVISORY AND ATTENDANT PERSONNEL MR LAKELAND VILLAGE, MEDICAL LAKE 7/1/69-6/30/70, RENEWAL, \$20,227. SRS-DMR
- 53B060 WORKSHOP ON NUTRITION: UNIVERSITY AFFILIATED FACILITIES, UNIVERSITY OF WASHINGTON, SEATTLE 7/1/69-6/30/70, INITIAL, \$19,405. HSMHA-MCHS
- 53B065 INSERVICE TRAINING MENTAL RETARDATION LAKELAND VILLAGE, MEDICAL LAKE 7/1/70-6/30/71 INITIAL, \$24,300. SRS-DMR
- 53B070 TRAINING FOR TRANSITION TO SIX BED MODULE UNITS FIRCREST SCHOOL, SEATTLE 7/1/70-6/30/71 INITIAL, \$22,502. SRS-DMR
- 53B075 INSERVICE TRAINING AND STAFF DEVELOPMENT RAINIER SCHOOL, BUCKLEY 7/1/70-6/30/71 INITIAL, \$22,500. SRS-DMR
- CONSTRUCTION**
- 53C005 COMMUNITY FACILITIES CONSTRUCTION CHELAN COUNTY WARC GROUP HOME, EAST WENTACHEE 6/25/70 INITIAL \$68,400. SRS-DMR
- 53C010 COMMUNITY FACILITIES CONSTRUCTION PARKVIEW HOME FOR EXCEPTIONAL CHILDREN, SEATTLE 6/29/70 INITIAL \$80,496. SRS-DMR
- 53C015 COMMUNITY FACILITIES CONSTRUCTION FIRCREST STATE SCHOOL ACTIVITY CENTER, SEATTLE 6/26/70 INITIAL \$465,904. SRS-DMR
- OTHER**
- 53D005 A VOCATIONAL TRAINING PROGRAM FOR MENTALLY RETARDED, LAKELAND VILLAGE, MEDICAL LAKE 6/1/70-5/31/71 CONTINUATION \$71,931. SRS-DMR
- 53D006 ADAPTING INSTITUTION SERVICES TO SIX-BED UNITS FIRCREST SCHOOL, SEATTLE 6/25/70-5/31/71 INITIAL \$96,588. SRS-DMR
- 53D010 AN OPERANT CONDITIONING EDUCATION AND TRAINING UNIT, RAINIER SCHOOL, BUCKLEY 6/1/70-5/31/71 CONTINUATION \$94,933. SRS-MDM
- 53D015 CLINIC FOR CHILD STUDY, UNIVERSITY OF WASHINGTON, SEATTLE STATE DEPARTMENT OF HEALTH, OLYMPIA 7/1/69-6/30/70, CONTINUATION, \$116,961. HSMHA-MCHS
- 53D016 COGNITIVE SHELLS FOR MULTIPLY HANDICAPPED RETARDATES YAKIMA VALLEY SCHOOL, SELAH 6/25/70-5/31/71 INITIAL \$89,895. SRS-DMR
- 53D035 FACILITY IMPROVEMENT GRANT OLYMPIC PENINSULA ENTERPRISES, INC., BREMERSON 5/1/70-4/30/71, CONTINUATION, \$13,420. SRS-RSA
- 53D045 MR INITIAL STAFFING CHILDRENS ORTHOPEDIC HOSPITAL AND MEDICAL CENTER, SEATTLE 7/1/70-6/30/71 INITIAL \$12,424. SRS-DMR
- 53D049 MR INITIAL STAFFING FAMILY COUNSELING SERVICE, SPOKANE 9/1/69-8/31/70 INITIAL \$9,562. SRS-DMR
- 53D050 MR INITIAL STAFFING, FIRCREST SCHOOL, SEATTLE 9/1/70-8/31/71 CONTINUATION \$5,162. SRS-DMR
- 53D055 MR INITIAL STAFFING, HILLTOP NEIGHBORHOOD IMPROVEMENT COUNCIL, INC., TACOMA 9/1/70-8/31/71 CONTINUATION \$35,489. SRS-DMR
- 53D060 MR INITIAL STAFFING KITTITAS CO. DEVELOPMENT CENTER, ELLENSBURG 7/1/70-6/30/71 INITIAL \$21,300. SRS-DMR
- 53D065 MR INITIAL STAFFING, LILLIE RICE ACTIVITY CENTER, WALLA WALLA 9/1/70-8/31/71 CONTINUATION \$21,276. SRS-DMR
- 53D070 MR INITIAL STAFFING, LOWER PUGET SOUND DEVELOPMENT CENTER, INC., OLYMPIA 9/1/70-8/31/71 CONTINUATION \$6,558. SRS-DMR
- 53D075 MR INITIAL STAFFING, NORTHWEST CENTER FOR RETARDED, SEATTLE 9/1/70-8/31/71 CONTINUATION \$7,420. SRS-DMR
- 53D076 MR INITIAL STAFFING PARKVIEW HOMES FOR EXCEPTIONAL CHILDREN, SEATTLE 7/1/70-6/30/71 INITIAL \$18,471. SRS-DMR
- 53D077 MR INITIAL STAFFING PROGRESS CENTER INC., LONGVIEW 9/1/70-8/31/71 INITIAL \$12,853. SRS-DMR
- 53D080 MR INITIAL STAFFING SEATTLE PARKS AND RECREATION DEPT. SEATTLE 7/1/70-6/30/71 INITIAL \$11,361. SRS-DMR
- 53D081 MR INITIAL STAFFING SPASTIC CHILDRENS CLINIC AND PRESCHOOL, SEATTLE 7/1/70-6/30/71 INITIAL \$20,500. SRS-DMR
- 53D082 MR INITIAL STAFFING WASHINGTON ASSOC. FOR RETARDED CHILDREN, SPOKANE 7/1/70-6/30/71 INITIAL \$17,610. SRS-DMR
- 53D083 MR INITIAL STAFFING SOUTH KING CO. ACTIVITY CENTER, KENT 7/1/70-6/30/71 INITIAL \$35,390. SRS-DMR
- 53D085 MR INITIAL STAFFING THE ANTONIA SCHOOL FOR SPECIAL CHILDREN, SPOKANE, WASHINGTON 9/1/70-8/31/71 INITIAL \$43,290. SRS-DMR
- 53D090 MR INITIAL STAFFING, TACOMA GUILDS FOR RETARDED CHILDREN, TACOMA 9/1/70-8/31/71 CONTINUATION \$8,460. SRS-DMR
- 53D095 MR INITIAL STAFFING, TACOMA PIERCE CO. CHAPTER, WASH. ASSN. FOR RETARDED CHILDREN, TACOMA 9/1/70-8/31/71 CONTINUATION \$8,275. SRS-DMR
- 53D096 MR INITIAL STAFFING UNIVERSITY OF PUGET SOUND, TACOMA 8/1/70-7/31/71 INITIAL \$32,800. SRS-DMR
- 53D097 MR INITIAL STAFFING UNITED CEREBRAL PALSY OCCUPATIONAL TRAINING CENTER, KENNEWICK 7/1/70-6/30/71 INITIAL \$17,325. SRS-DMR
- 53D110 MR INITIAL STAFFING, WHATCOM ASSN. OF TRAINING CENTERS, INC., BELLINGHAM 9/1/70-8/31/71 CONTINUATION \$7,331. SRS-DMR
- 53D120 STUDENT WORK EXPERIENCE AND TRAINING, SPOKANE COUNTY CHAPTER WASHINGTON ASSOCIATION FOR RETARDED CHILDREN, SPOKANE, WASHINGTON, 6/25/70-5/31/70, INITIAL, \$2,400. SRS-DMR
- 53D125 STUDENT WORK EXPERIENCE AND TRAINING, SKAGIT PRESCHOOL FOR RETARDED CHILDREN, BURLINGTON, WASHINGTON 6/25/70-12/31/70, INITIAL, \$1,440. SRS-DMR
- 53D130 STUDENT WORK EXPERIENCE AND TRAINING, WASHINGTON ASSOCIATION FOR RETARDED CHILDREN, WEWATCHEE, WASHINGTON, 6/25/70-8/31/70, INITIAL, \$5,800. SRS-DMR
- 53D135 FORESTRY PREVOCATIONAL TRAINING FOR RETARDED YOUTHS AGE 13-17, WASHINGTON ASSOCIATION FOR RETARDED CHILDREN, WENATCHEE, WASHINGTON, 6/25/70-8/31/70, INITIAL, \$8,350. SRS-DMR

WEST VIRGINIA**TRAINING**

- 54B005 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS WEST VIRGINIA UNIVERSITY, MORGANTOWN
9/1/69-8/31/70, CONTINUATION, \$53,928. SRS-RSA
- 54B010 INSERVICE TRAINING FOR AIDES AND SUPERVISORS MR COLIN ANDERSON CENTER, ST. MARY'S
7/1/68-12/31/69, RENEWAL, \$22,198. SRS-DMR
- 54B011 MENTAL RETARDATION INSERVICE TRAINING COLIN ANDERSON CENTER, ST. MARY'S
3/1/70-2/28/71 INITIAL, \$22,500. SRS-DMR
- 54B015 MENTAL RETARDATION CLINIC FOR SERVICE AND TRAINING, MORGANTOWN STATE DEPARTMENT OF HEALTH, CHARLESTON
7/1/69-6/30/70, CONTINUATION, \$115,000. HSMHA-MCHS
- 54B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MARSHALL UNIVERSITY, HUNTINGTON
6/1/70-8/31/71, RENEWAL, \$20,500. OE
- 54B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, CHARLESTON
6/1/70-8/31/71, RENEWAL, \$42,500. OE
- 54B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WEST VIRGINIA UNIVERSITY, MORGANTOWN
6/1/70-8/31/71, RENEWAL, \$39,200. OE
- 54B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN, WEST VIRGINIA UNIVERSITY, NITRU, WEST VIRGINIA,
6/1/70-8/31/71, INITIAL, \$15,900. OE

OTHER

- 54D005 COMMUNITY TRANSITIONAL ADJUSTMENT PROGRAM FOR MENTALLY RETARDED, COLIN ANDERSON CENTER, ST. MARY'S
1/1/70-12/31/70 CONTINUATION \$38,640. SRS-DMR
- 54D010 CONSULTATION AND EVALUATION CLINIC FOR MENTALLY RETARDED CHILDREN, CHARLESTON STATE DEPARTMENT OF HEALTH, CHARLESTON
7/1/69-6/30/70, CONTINUATION, \$84,505. HSMHA-MCHS
- 54D015 FACILITY IMPROVEMENT GRANT MERCER COUNTY OPPORTUNITY WORKSHOP FOR THE HANDICAPPED, INC., BLUEFIELD
3/1/70-2/28/71, CONTINUATION, \$14,350. SRS-RSA
- 54D017 FACILITY IMPROVEMENT, WYOMING COUNTY SHELTERED WORKSHOP, INC. MABEN
6/15/70-6/14/71, INITIAL, \$18,829. SRS-RSA
- 54D020 MR INITIAL STAFFING, GREEN ACRES REGIONAL CENTER, INC., LESAGE
7/1/70-6/30/71 CONTINUATION \$31,395. SRS-DMR
- 54D021 MR INITIAL STAFFING SOUTHERN WEST VIRGINIA HEALTH COUNCIL, BLUEFIELD
7/1/70-6/30/71 INITIAL \$120,878. SRS-DMR
- 54D030 STUDENT WORK EXPERIENCE AND TRAINING, COLIN ANDERSON CENTER, ST. MARY'S, WEST VIRGINIA,
5/15/70-8/14/70, INITIAL, \$10,962. SRS-DMR

WISCONSIN**TRAINING**

- 55B005 CHILDREN'S DEVELOPMENT CENTER UNIVERSITY OF WISCONSIN, MADISON
7/1/69-6/30/70, CONTINUATION, \$66,320. HSMHA-MCHS
- 55B006 DEVELOPMENTAL PSYCHOLOGY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN,
7/70-6/71, CONTINUATION, \$90,271. NICHD
- 55B010 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS UNIVERSITY OF WISCONSIN, MADISON
9/1/69-8/31/70, CONTINUATION, \$37,578. SRS-RSA

- 55B015 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF WISCONSIN, MADISON
9/1/69-8/31/70, CONTINUATION, \$36,635. SRS-RSA
- 55B020 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF WISCONSIN, MADISON
9/1/69-8/31/70, CONTINUATION, \$28,633. SRS-RSA
- 55B025 INSERVICE TRAINING OF ATTENDANT AND SUPERVISORY PERSONNEL MR CENTRAL WISCONSIN COLONY AND TRAINING SCHOOL, MADISON
7/1/70-6/30/71 CONTINUATION, \$18,332. SRS-DMR
- 55B030 INTERDISCIPLINARY TRAINING-SPECIAL PROJECT- UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN,
6/1/70-8/31/71, RENEWAL, \$21,000. OE
- 55B035 PLANNED TRAINING AND EVALUATION OF INSTITUTION PERSONNEL MR SOUTHERN WISCONSIN COLONY AND TRAINING SCHOOL, UNION GROVE
7/1/70-6/30/71 CONTINUATION, \$4,690. SRS-DMR
- 55B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, MADISON
6/1/70-8/31/71, RENEWAL, \$25,908. OE
- 55B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF WISCONSIN, MADISON
6/1/70-8/31/71, RENEWAL, \$79,700. OE
- 55B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF WISCONSIN, MILWAUKEE
6/1/70-8/31/71, RENEWAL, \$68,800. OE
- 55B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WISCONSIN STATE UNIVERSITY, EAU CLAIRE
6/1/70-8/31/71, RENEWAL, \$36,400. OE
- 55B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WISCONSIN STATE UNIVERSITY, OSHKOSH, WISCONSIN,
6/1/70-8/31/71, RENEWAL, \$11,500. OE
- 55B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WISCONSIN STATE UNIVERSITY, WHITEWATER
6/1/70-8/31/71, RENEWAL, \$45,100. OE
- 55B070 REHABILITATION RESEARCH AND TRAINING CENTER UNIVERSITY OF WISCONSIN, MADISON
4/1/69-3/31/70, RENEWAL, \$400,000. SRS-ORDT
- 55B075 REHABILITATION RESEARCH AND TRAINING CENTER IN MENTAL RETARDATION UNIVERSITY OF WISCONSIN, MADISON
9/1/69-8/31/70, CONTINUATION, \$71,522. SRS-RSA
- 55B080 STAFF EDUCATION AND SUPERVISORY DEVELOPMENT MR NORTHERN WISCONSIN COLONY AND TRAINING SCHOOL, CHIPPEWA FALLS
7/1/70-6/30/71 CONTINUATION, \$25,000. SRS-DMR
- 55B090 TRAINING UNIT IN MENTAL RETARDATION IN DODGE COUNTY WELFARE DEPARTMENT UNIVERSITY OF WISCONSIN SCHOOL OF SOCIAL WORK, MADISON
7/1/69-6/30/70, RENEWAL, \$15,444. SRS-CSA
- 55B095 UNIVERSITY AFFILIATED FACILITY, UNIVERSITY OF WISCONSIN, MADISON
1/1/70-6/30/70, INITIAL, \$131,395. HSMHA-MCHS

CONSTRUCTION**OTHER**

- 55D005 A VOCATIONAL AND SOCIAL ADJUSTMENT TRAINING PROGRAM NORTHERN WISCONSIN COLONY AND TRAINING SCHOOL, CHIPPEWA FALLS
6/1/70-5/31/71 INITIAL \$100,000. SRS-DMR
- 55D010 AN ENRICHMENT PROGRAM TO REDUCE PHYSICAL RESTRAINT, SOUTHERN WISCONSIN COLONY AND TRAINING SCHOOL, UNION GROVE
2/1/70-1/31/71 CONTINUATION \$35,775. SRS-DMR
- 55D015 COMMUNITY SERVICE DEMONSTRATION PROJECT FOR MENTALLY RETARDED RURAL AREA STATE OF WISCONSIN DEPARTMENT OF HEALTH AND SOCIAL SERVICE, MADISON
9/1/69-6/30/70, CONTINUATION, \$35,526. CHS-P

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1970

- 55D016 MOTIVATING FAMILIES OF MULTI-HANDICAPPED
RETARDATE CENTRAL WISCONSIN COLONY AND
TRAINING SCHOOL, MADISON
9/1/69-8/31/70 INITIAL \$26,257. SRS-DMR
- 55D017 USING A WORKSHOP TO NORMALIZE SEVERELY
RETARDED ADULTS CENTRAL WISCONSIN COLONY
AND TRAINING SCHOOL, MADISON
5/1/70-4/30/71 INITIAL \$73,743. SRS-DMR
- 55D020 FACILITY IMPROVEMENT, MARATHON COUNTY
WORKSHOP FOR THE HANDICAPPED, WAUSAU
12/1/69-11/30/70, INITIAL, \$20,687. SRS-RSA
- 55D030 MR INITIAL STAFFING, BROWN CO. ASSN. FOR
RETARDED CHILDREN, INC., GREEN BAY
7/1/70-6/30/71 CONTINUATION \$55,233. SRS-DMR
- 55D035 MR INITIAL STAFFING MANITOWOC COUNTY BOARD,
MANITOWOC
8/1/70-7/31/71 INITIAL \$147,300. SRS-DMR
- 55D040 MR INITIAL STAFFING UNITED CEREBRAL PALSY OF
KENOSHA, KENOSHA
7/1/70-6/30/71 INITIAL \$22,958. SRS-DMR
- 55D045 MR INITIAL STAFFING, WALWORTH COUNTY,
ELKHORN
9/1/70-8/31/71 CONTINUATION \$41,272. SRS-DMR
- 55D046 MR INITIAL STAFFING WALWORTH CO. HANDICAPPED
CHILDRENS EDUCATION BOARD, ELKHORN
9/1/70-8/31/71 INITIAL \$16,500. SRS-DMR

WYOMING

TRAINING

- 56B005 INSERVICE TRAINING PROGRAM FOR WARD AIDES MR
WYOMING STATE TRAINING SCHOOL, LANDER
7/1/70-6/30/71 CONTINUATION, \$13,767. SRS-DMR

- 56B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, CHEYENNE
6/1/70-8/31/71, RENEWAL, \$43,500. OE
- 56B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF WYOMING, LARAMIE
6/1/70-8/31/71, RENEWAL, \$11,500. OE
- 56B020 WORKSHOP FOR DAY CENTER PERSONNEL MENTAL
HEALTH AND MENTAL RETARDATION SERVICES,
CHEYENNE
7/1/70-6/30/71 INITIAL, \$1,932. SRS-DMR

CONSTRUCTION

- 56C005 COMMUNITY FACILITIES CONSTRUCTION WYOMING
STATE TRAINING SCHOOL, LANDER
6/19/70 INITIAL \$100,000. SRS-DMR

OTHER

- 56D005 CHILD DEVELOPMENT CENTER, CHEYENNE STATE
DEPARTMENT OF PUBLIC HEALTH, CHEYENNE
7/1/69-6/30/70, CONTINUATION, \$51,539. HSMHA-MCHS
- 56D015 MR INITIAL STAFFING, NATRONA CO. HIGH SCH. DIST.
AND SCH. DIST. NO. 2, CASPER
9/1/70-8/31/71 CONTINUATION \$11,083. SRS-DMR
- 56D016 MR INITIAL STAFFING NATRONA CO. HIGH SCH. DIST.
AND SCH. DIST. NO. 2, CASPAR
9/1/70-8/31/71 INITIAL \$11,380. SRS-DMR
- 56D020 SENSORY STIMULATION IN TRAINING THE
PROFOUNDLY RETARDED CHILDREN, WYOMING
STATE TRAINING SCHOOL, LANDER CHILDREN
4/1/70-3/31/71 CONTINUATION \$85,865. SRS-DMR

RESEARCH AND DEMONSTRATION GRANTS, 1970

ETIOLOGY

- A015 ABO ERYTHROBLASTOSIS** HD-3972-12, ROSENFELD, ROBERT E., MT. SINAI SCHOOL OF MEDICINE, NEW YORK, 4/70-3/71, CONTINUATION \$95,649, NICHD
- THE AIMS OF THIS RESEARCH ARE 1) TO DEFINE THE IMMUNOCHEMICAL PARAMETERS UNDERLYING THE DEVELOPMENT OF ERYTHROBLASTOSIS, AND 2) TO DESIGN NEW QUANTITATIVE PRENATAL TESTS WITH WHICH TO ESTIMATE ACCURATELY THE SEVERITY OF ANTICIPATED DISEASE.

- A020 ABNORMAL DEVELOPMENT OF THE NERVOUS SYSTEM,** NS-6188-05, LANGMAN, JAN, UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE CHARLOTTESVILLE, VIRGINIA, UNIVERSITY 9/69-8/70, CONTINUATION, \$42,087, NINDS

THIS RESEARCH PROPOSES TO DETERMINE WHETHER VITAMIN A IN VITRO INHIBITS CELL DIVISION, WHAT IS THE PRECISE LOCALIZATION OF VITAMIN A IN THE CELL, AND WHETHER VITAMIN A INFLUENCES THE NORMAL DIFFERENTIATION OF THE NEUROBLASTS OR WHETHER IT INTERFERES WITH CELL PROLIFERATION. ALSO TO BE EXAMINED IS WHETHER LABELED CELLS PENETRATE INTO THE CENTRAL NERVOUS SYSTEM OF THE UNLABELED EMBRYO AND WHETHER NEUROBLASTS ARE CHARACTERIZED BY A SPECIFIC PROTEIN.

- A025 ALTERATION OF NEONATAL BRAIN BY MATERNAL NUTRITION,** NS 8723-02, (PRECEDED BY HD-NB 4053) ZAMENHOF, STEPHEN, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF., 2/70-1/71, CONTINUATION, \$14,879, NINDS

INVESTIGATING MALNUTRITION FACTORS WHICH INFLUENCE THE DNA IN THE BRAIN (REFLECTED BY THE NUMBER OF BRAIN CELLS) AND RELATIONSHIPS BETWEEN ALTERATIONS IN BRAIN CELL NUMBER AND BEHAVIOR PARAMETERS. PROTEIN DEPRIVATION BEFORE AND AFTER BIRTH MAY RESULT IN MENTAL IMPAIRMENT IN CHILDREN.

- A030 ALTERING BILIRUBIN METABOLISM AND KERNICTERUS BY DRUGS,** NS 4925-07, SPRATT, JAMES L., STATE UNIVERSITY OF IOWA, IOWA CITY, IOWA, 9/69-8/70, CONTINUATION, \$20,621, NINDS

THIS RESEARCH CONCERNS ATTEMPTS TO CAUSE STIMULATION OF BILIRUBIN CONJUGATION BY GLUCURONYL TRANSFERASE. THE STUDIES WILL BE PERFORMED WITH NEWBORN ANIMALS AND BOTH IN VIVO AND IN VITRO TECHNIQUES WILL BE UTILIZED.

- A035 AMINO ACID REQUIREMENTS OF PREMATURE INFANTS;** (1) HD-02760-03S1, (2) HD-02760-04; SNYDERMAN, SELMA E.; NEW YORK UNIVERSITY; NEW YORK, NEW YORK; (1) 1/70-3/70, (2) 4/70-3/71; (1) CONTINUATION, (2) RENEWAL; (1) \$16,395, (2) \$66,263; NICHD

THE PURPOSE OF THIS STUDY IS TO DETERMINE WHICH AMINO ACIDS ARE ESSENTIAL FOR PREMATURE INFANTS AND IN WHAT AMOUNTS. THE PLAN IS TO PROVIDE A BASAL DIET WITH NITROGEN IN THE FORM OF 18 L-AMINO ACIDS IN RATIOS FOUND IN HUMAN MILK. THE NON-ESSENTIAL AMINO ACIDS WILL BE WITHDRAWN ONE BY ONE FROM THE SYNTHETIC AMINO ACID MIXTURE AND CHANGES WHICH CAN BE DETECTED AS A RESULT OF THE DELETION WILL BE DETERMINED FROM GROWTH RATE, NITROGEN RETENTION, AND BLOOD AMINO ACID LEVELS.

- A040 BACTERIURIA IN THE PREMATURE INFANT;** HD-03382-03; HODGMAN, JOAN E.; LOS ANGELES COUNTY DEPT OF HOSP.; LOS ANGELES, CALIFORNIA; 4/70 - 3/71; CONTINUATION; \$47,757, NICHD.

THIS RESEARCH PROPOSES TO DEVELOP REPRODUCIBLE METHODS FOR THE DETECTION OF SIGNIFICANT BACTERIURIA AND STANDARDS OF INTERPRETATION THAT CAN BE APPLIED TO PREMATURE INFANTS.

- A045 BEHAVIOR IN THE PROGENY OF UNDERFED MOTHERS;** HD-2984-04; CHOW, BACON F.; JOHNS HOPKINS UNIVERSITY; BALTIMORE, MARYLAND; 6/70 - 5/71; CONTINUATION; \$23,744; NICHD.

THIS RESEARCH CONCERNS MALE PROGENY OF MOTHER RATS RESTRICTED TO 50% OF THEIR NORMAL FOOD INTAKE DURING PREGNANCY AND LACTATION. THEIR PERFORMANCE IN COMPARISON WITH NORMAL PROGENY WILL BE EVALUATED BY ACTIVITY IN A WHEEL CAGE, RUNNING PATTERNS IN A FIELD BOX, CONDITIONED EMOTIONAL RESPONSES, MAZE RUNNING AND AVOIDANCE-ESCAPE RESPONSES.

- A046 BILIRUBIN METABOLISM DURING THE PERINATAL PERIOD;** HD-03148-03; THALER, M. MICHAEL; UNIVERSITY OF CALIFORNIA; SAN FRANCISCO, CALIFORNIA; 6/70 - 5/71; RENEWAL \$64,334; NICHD.

THIS RESEARCH WILL INVESTIGATE DEVELOPMENTAL CHANGES IN THE PROCESSES OF CONJUGATION AND BILIARY EXCRETION OF BILE PIGMENT BEFORE AND AFTER BIRTH.

- A047 BIOCHEMICAL AND ANIMAL STUDIES IN MENTAL RETARDATION;** (1) HD00341-09S1, (2) HD-00341-10, WAISMAN, HARRY AARON; UNIVERSITY OF WISCONSIN; MADISON, WISCONSIN; (1) 5/70-1/70, (2) 6/70-5/71; RENEWAL; (1) \$50,044, (2) \$119,609; NICHD.

THIS RESEARCH CONCERNS MAPPING OF IN VIVO BRAIN PROTEIN SYNTHESIS BY DEACELLULOSE CHROMATOGRAPHY OF ONE CYTOPLASMIC AND TWO PARTICULATE FRACTIONS FOR 3-DAY OLD AND 10-DAY OLD RATS. DATA FROM THIS STUDY WILL PROVIDE A BASELINE WITH WHICH TO COMPARE PROTEIN SYNTHESIS IN BRAIN PREPARED FROM HORMONE TREATED RATS.

- A048 BIOCHEMICAL AND BIOLOGICAL PROBLEMS OF MENTAL RETARDATION;** HD-05061-01; POPJAK, GEORGE J.; UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA; 6/70-5/71; INITIAL; \$79,109; NICHD

OF THE TWO PROJECTS INVOLVED IN THIS RESEARCH THE FIRST IS CONCERNED WITH THE MORPHOLOGICAL AND BIOCHEMICAL DEVELOPMENT OF THE HUMAN CENTRAL NERVOUS SYSTEM. AN ATTEMPT WILL BE MADE TO CORRELATE THE DEVELOPMENT OF SUBCELLULAR STRUCTURES AND THE BIOCHEMICAL DEVELOPMENT OF ENZYME SYSTEMS DIRECTLY RELATED TO CNS FUNCTIONING. THE SECOND PROJECT IS DIRECTED TOWARD THE DEVELOPMENT OF A MODEL OF PHENYLKETONURIA IN ANIMALS AND THE TREATMENT OF PHENYLKETONURIC INFANTS BY 'COLONIZATION' OF THEIR LIVER WITH NORMAL LIVER CELLS.

- A049 BIOCHEMICAL EVENTS PRECEDING BIRTH DEFECTS;** HD-04269-01A1; CHEPENIK, KENNETH P.; WAKE FOREST UNIVERSITY; WINSTON-SALEM, NORTH CAROLINA; 6/70-5/71; INITIAL; \$20,165; NICHD

THE GOAL OF THIS PROJECT IS TO EXAMINE EMBRYONIC METABOLISM AS IT IS AFFECTED IN A TERATOGENIC SITUATION. THE SPECIFIC AIMS ARE (1) TO DETERMINE THE BIOCHEMICAL BASIS FOR THE ALTERATIONS IN LEVELS OF HIGH ENERGY PHOSPHATE COMPOUNDS IN TERATOGEN-TREATED RAT EMBRYOS, (2) TO BEGIN TO RELATE THE ALTERED SEQUENCES OF MOLECULAR ENZYMIC ONTOGENY FOUND WITH ELECTROPHORETIC ANALYSIS OF ABNORMAL EMBRYOS TO DISTURBANCES IN METABOLISM OF THESE EMBRYOS, (3) TO DETERMINE WHETHER OR NOT THE TERATOGEN-INDUCED ALTERATIONS IN ATP, ADP AND AMP ARE A GENERAL OR ORGAN SPECIFIC PHENOMENON IN THE ABNORMALLY DEVELOPING RAT EMBRYO AND (4) TO CREATE A FORMAT FOR COMPARATIVE STUDIES OF THE MECHANISM OF ACTION OF VARIOUS TERATOGENS.

- A050 SYNTHESIS AND METABOLISM OF GALACTOLIPIDS,** NS 1575-13 BURTON, ROBERT M., WASHINGTON UNIVERSITY SCHOOL OF MEDICINE, ST. LOUIS, MO., 4/70-3/71, CONTINUATION, \$28,940, NINDS

THIS RESEARCH WILL STUDY METABOLIC PATHWAYS CONCERNING GALACTOLIPIDS THROUGH THE ISOLATION AND CHARACTERIZATION OF INDIVIDUAL ENZYME ACTIVITIES.

- A051 BIOSYNTHESIS AND UTILIZATION OF CERAMIDE BY BRAIN** NS-9094-01 MORELL, PIERRE, YESHIVA UNIVERSITY, NEW YORK, N.Y. 1/70-12/70, INITIAL, \$29,505, NINDS

RESEARCH ON THE BIOSYNTHETIC PATHWAYS INVOLVED IN THE FORMATION AND UTILIZATION OF CERAMIDE BY BRAIN

RESEARCH AND DEMONSTRATION GRANTS, 1970

- PREPARATIONS FOR RELATIONSHIPS BETWEEN SPINGOLIPID BIOSYNTHESIS AND BRAIN STRUCTURE AND HOW THEY ARE ALTERED BY INBORN ERRORS OF METABOLISM.
- A052 BIOSYNTHESIS OF PULMONARY SURFACE ACTIVE LIPIDS; HD-02354-04; MORGAN, THOMAS E. JR.; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 9/69-8/70; RENEWAL; \$24,373; NICHD.**
- THIS RESEARCH PROPOSES TO ISOLATE AND CHARACTERIZE THE ENZYME, TO STUDY THE PARAMETERS INFLUENCING ITS ACTIVITY, TO RELATE ITS ACTIVITY TO SURFACTANT LEVELS AND TO INVESTIGATE THE INFLUENCE OF GESTATIONAL AGE, ACIDOSIS, HYPOXIA, TEMPERATURE AND RELATED FACTORS ON ITS ACTIVITY IN VITRO AND IN VIVO.
- A053 BLOOD AND URINE AMINO ACIDS DURING GROWTH; HD-01202-11; ARMSTRONG, MARVIN D.; FELLS RESEARCH INSTITUTE, YELLOW SPRINGS, OHIO; 12/69-11/70; CONTINUATION; \$31,184; NICHD**
- THIS RESEARCH AIMS AT PROVIDING DATA ON THE FASTING LEVELS OF FREE AMINO ACIDS IN THE BLOOD AND RENAL CLEARANCE OF THE AMINO ACIDS IN A NUMBER OF CHILDREN THROUGHOUT THEIR GROWTH AND DEVELOPMENT. CORRESPONDING DATA IS BEING OBTAINED FROM PARENTS AND SIBLINGS OF THESE SUBJECTS, WHO ARE BEING FOLLOWED LONGITUDINALLY. THE DATA IS BEING EXAMINED FOR GENETICALLY DETERMINED PATTERNS IN THE BLOOD LEVELS OR RENAL CLEARANCE OF THE AMINO ACIDS, FOR CHANGES WHICH MAY OCCUR IN THESE PARAMETERS AT VARIOUS STAGES OF GROWTH AND DEVELOPMENT, AND FOR CORRELATION WITH PHYSICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL ATTRIBUTES OF THE SUBJECTS.
- A060 BRAIN LIPIDS IN DIFFUSE DEMYELINATIVE DISEASES NS-2672-10 AND -11, MOSER, HUGO W., MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASS., 6/69-5/70 CONTINUATION, \$36,659, NS-2672-11, 6/70-5/71 CONTINUATION, \$35,885. NINDS**
- THIS RESEARCH WILL STUDY THE TURNOVER OF SULFATED POLYSACCHARIDES, STEROID SULPHATES AND SULFATIDES IN PATIENTS WITH METACHROMATIC LEUKODYSTROPHY, AND IN INDIVIDUALS WITH OTHER TYPES OF RETARDATION. DISORDERS OF AMINO ACID METABOLISM WILL ALSO BE STUDIED.
- A065 BRAIN METABOLISM AND SYSTEMIC DISEASE, NS-8528-02 FORMERLY NS-1365, BESSMAN, SAMUEL P., UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, 8/69-7/70, RENEWAL, \$38,963. NINDS**
- OBJECTIVES OF THIS STUDY ARE TO DEVELOP CHEMICAL INFORMATION CONCERNING THE RELATION OF METABOLIC CHANGES OCCURRING IN THE ORGANISM TO ALTERATIONS IN BRAIN METABOLISM LEADING TO UNCONSCIOUSNESS. STUDIES WILL BE MADE ON DISEASES SUCH AS HEREDITARY AMINO ACIDS ABNORMALITIES, DIABETIC AND HEPATIC COMA.
- A075 CARBAMYL PHOSPHATE SYNTHESIS IN BRAIN, NS-7663-02 AND -02S1, OLSON, ERIK J., MEHARRY MEDICAL COLLEGE SCHOOL OF MEDICINE, NASHVILLE, TENN., NS-7663-02 1/69-8/70, CONTINUATION, \$2,658 AND NS-7663-02S1, CONTINUATION, \$492. NINDS**
- RESEARCH ON FACTORS AND BIOLOGICAL COMPOUNDS WHICH INFLUENCE THE FORMATION AND UTILIZATION OF CARBAMYL PHOSPHATE IN THE BRAIN WITH SPECIAL EMPHASIS ON THE POSSIBLE ROLES OF N-ACETYL-L-GLUTAMIC ACID, N-ACETYL-L-ASPARTIC ACID, AND N-ACETYL-L-ASPARTYL-L-GLUTAMATE IN ARGINOSUCCINURIA (TYPE OF MENTAL RETARDATION).
- A080 CARBOHYDRATE METABOLISM IN NEONATE, HD-3959-02, CORNBATH, MARVIN, UNIVERSITY OF MARYLAND, BALTIMORE, MARYLAND, 1/70-12/70 RENEWAL, \$55,994. NICHD**
- THE OBJECTIVE OF THIS RESEARCH IS TO DETERMINE THOSE FACTORS THAT INFLUENCE THE PERINATAL ADJUSTMENT RELATED TO GLUCOSE HOMEOSTASIS. THESE HORMONES, SUBSTRATES, AND ENZYMES THAT HAVE IMPLICATIONS IN THE MAINTENANCE OF NORMOGLYCEMIA WILL BE STUDIED TO DETERMINE THE MULTIPLE CAUSES OF HYPOGLYCEMIA AND THE RESULTANT SEQUELAE IN THE NEONATE.
- A085 CARBOHYDRATE METABOLISM IN THE NEWBORN, HD-3290-07, SCHWARTZ, ROBERT, CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, 9/69-8/70, CONTINUATION, \$23,854. NICHD**
- THIS PROJECT INCLUDES STUDIES OF THE PHYSIOLOGICAL DIFFERENCES BETWEEN NORMAL MATURE INFANTS, IMMATURE INFANTS (PRE-TERM), AND DYSMATURE INFANTS (LOW BIRTH WEIGHT FOR GESTATION). AS WELL AS INFANTS OF DIABETIC MOTHERS. THE INVESTIGATORS ARE ULTIMATELY INTERESTED IN THE CORRELATION OF ALTERED PHYSIOLOGY AND BIOCHEMISTRY IN THE PERINATAL PERIOD WITH GROWTH AND EMOTIONAL AND INTELLECTUAL DEVELOPMENT.
- A090 CATECHOLAMINE METABOLITE EXCRETION IN NEONATAL STRESS; HD-01116-05; YOUNG, REUBEN B.; VIRGINIA COMMONWEALTH UNIVERSITY; RICHMOND, VIRGINIA; 5/70-11/71; CONTINUATION; \$15,955; NICHD**
- THIS RESEARCH IS CONCERNED WITH THE CAPACITY OF INFANTS TO MAINTAIN AN ADEQUATE SECRETION OF CATECHOLAMINES DURING ACUTE AND PROLONGED STRESS ASSOCIATED WITH HYPERCAPNEA, ACIDOSIS, RECURRENT HYPOGLYCEMIA AND SEPTICEMIA. THE INVESTIGATIONS CONSIST OF TWO TYPES: (1) BLOOD STUDIES - PH, PCO₂ (ARTERIAL), GLUCOSE, PLASMA PRESSOR ACTIVITY (ARTERIAL), BLOOD CULTURES, AND SERUM ELECTROLYTES FOR THE FIRST FIVE DAYS OF LIFE; AND (2) URINE STUDIES - DAILY URINE COLLECTIONS FOR FIVE DAYS TO MEASURE VANILMANDLIC ACID EXCRETION.
- A091 CHEMICAL INDUCTION OF MICROENCEPHALY NS-8856-01 AND -01S1 HADDAD, RAEF K., N.J. BUREAU OF RES IN NEUROLOGY AND PSYCHIATRY, N.J. NEUROPSYCHIATRIC INSTITUTE, PRINCETON, N.J., 6/69-5/71 INITIAL NS-8856-01 \$47,197 AND NS-8856-01S1 \$6,451. NINDS**
- TRANSPLENTAL INDUCTION OF MICROENCEPHALY WITH INJECTIONS OF (MAM) METHYL AZOXYMETHANOL (GLUCOSIDE FROM THE CYCAD NUT) INTO PREGNANT RABBITS AND CATS. A MICROENCEPHALIC RAT HAS BEEN SHOWN TO HAVE IMPAIRED INTELLECTUAL FUNCTION WITH INFERIOR PERFORMANCE IN A MAZE.
- A092 THE CELL BIOLOGY OF DEVELOPMENTAL ANOMALIES; HD-02080-05; PUCK, THEODORE T.; UNIVERSITY OF COLORADO; DENVER, COLORADO; 6/70-5/71; CONTINUATION; \$133,510; NICHD**
- THIS PROGRAM IS CONCERNED WITH INVESTIGATING CELLULAR ASPECTS OF MAMMALIAN DEVELOPMENTAL PROCESSES ALONG THREE PRINCIPAL LINES: (1) STUDIES ON GENETICS AND GENETIC BIOCHEMISTRY OF MAMMALIAN CELLS, (2) STUDY OF THE DYNAMICS OF CELL REPRODUCTION AND DIFFERENTIATION IN SPECIFIC TISSUES AND THE RELATIONSHIP OF THESE PROCESSES TO SPECIFIC GENE ACTION; AND (3) THE INVESTIGATION OF SPECIFIC HUMAN AND ANIMAL DISEASE SITUATIONS WHERE THE PARAMETER STUDIED IN THE FIRST TWO PARTS OF THIS PROGRAM MAY BE INVOLVED IN THE PATHOLOGICAL PROCESS.
- A093 CENTRAL NERVOUS SYSTEM SEQUELAE OF PREMATURITY; HD-02081-03S1; GOLDMAN, HERBERT I.; LONG ISLAND JEWISH MEDICAL CENTER; NEW HYDE PARK, NEW YORK; 1/70-12/70; CONTINUATION; \$5,207; NICHD.**
- THIS RESEARCH PROPOSES TO DETERMINE WHETHER THERE ARE ANY DIFFERENCES IN THE INCIDENCE AND SEVERITY OF CENTRAL NERVOUS SYSTEM SEQUELAE BETWEEN THE 2 AND 45 PROTEIN DIET GROUPS AND TO STUDY THE RELATIONSHIP BETWEEN CLINICAL PARAMETERS OBTAINED DURING THE INFANTS STAY IN THE PREMATURE NURSERY AND THE LATER PRESENCE OR ABSENCE OF CENTRAL NERVOUS SYSTEM SEQUELAE.
- A094 CEREBROVASCULAR RESPONSE TO EMBRYONIC OVERGROWTH; HD-04820-01; BURDA-WILSON, DORIS J.; STANFORD UNIVERSITY; STANFORD, CALIFORNIA; 9/69-5/70; CONTINUATION; \$21,788; NICHD**
- THE RESEARCH OBJECTIVES OF THIS PROJECT ARE TO STUDY THE DEVELOPMENTAL INTERRELATIONSHIPS BETWEEN THE EMBRYONIC BRAIN AND ITS VASCULAR SYSTEM. AN ANALYSIS IS BEING MADE OF THE EFFECTS OF MITOSIS, DIFFERENTIATION, AND MIGRATION OF NERVOUS TISSUE ON THE DEVELOPMENT OF CEREBROVASCULAR ELEMENTS. RECIPROCAL EFFECTS OF THE VASCULAR SYSTEM ON THE MORPHOGENESIS AND HISTOGENESIS OF THE BRAIN ARE LIKEWISE BEING EXPLORED. THESE INFLUENCES WILL BE DETERMINED DURING NORMAL AND ABNORMAL DEVELOPMENT IN CHICK EMBRYOS. A VARIETY OF TECHNIQUES WILL BE EMPLOYED IN THIS PROJECT, INCLUDING RADIOAUTOGRAHY, HISTOCHEMISTRY, AND TISSUE CULTURE.
- A100 CHEMICAL STUDY OF CONGENITAL MENTAL DEFECTS; HD-00198-12; HOLT, L. EMMETT JR.; NEW YORK UNIVERSITY, NEW YORK, NEW YORK; 9/69-8/70; CONTINUATION; \$46,774; NICHD.**
- THIS RESEARCH CONCERNS DIETOTHERAPY AND CLOSE OBSERVATION OF CHILDREN PRESENTLY UNDER TREATMENT FOR MAPLE SYRUP URINE DISEASE. THE FORMATION OF AL-LOISOLEUCINE AFTER A LOAD OF ISOLEUCINE WILL BE INVESTIGATED AS A POSSIBLE MEANS OF DIFFERENTIATING THE HETEROZYGOUS CARRIER OF THE DISEASE FROM THE NORMAL.
- A105 COMPARATIVE STUDIES IN PERINATAL TOXICOLOGY; HD-03867-01A1; YEARY, ROGER A.; OHIO STATE UNIVERSITY, COLUMBUS, OHIO; 10/69-9/70; INITIAL, \$19,596; NICHD**

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THIS PROPOSED RESEARCH IS DESIGNED TO INVESTIGATE THE TOXICOLOGICAL SIGNIFICANCE OF DEFICIENT URIDINE DIPHOSPHATE GLUCURONYLTRANSFERASE ACTIVITY IN THE NEWBORN USING AN ANIMAL MODEL, AND TO CONSIDER THE UTILITY OF THIS ANIMAL MODEL FOR EVALUATING THE SAFETY OF DRUGS THAT MAY BE USED DURING THE PERINATAL PERIOD.

- A106 CONGENITAL MALFORMATIONS IN MAMMALS; HD-00502-10; WARKANY, JOSEF; CHILDRENS HOSPITAL RESEARCH FOUNDATION; CINCINNATI, OHIO; 9/96-8/70; CONTINUATION; \$62,538; NICHD.

THIS RESEARCH CONCERNS THE STUDY OF CONGENITAL MALFORMATIONS. EXPERIMENTAL TERATOLOGY IS PRACTICED BY THE USE OF VARIOUS TERATOGENS IN RATS, MICE AND RABBITS. CONGENITAL MALFORMATIONS OF CHILDREN ARE INVESTIGATED BY CLINICAL, ANATOMIC, HISTOLOGIC AND CYTOGENETIC METHODS.

- A109 CYCLIC PHOSPHODIESTERASE OF CENTRAL NERVOUS SYSTEM NS-8059-03 CHEUNG, WAI Y., ST. JUDE CHILDREN'S RESEARCH HOSPITAL, MEMPHIS, TENN. 5/70-4/71, CONTINUATION. \$20,101. NINDS

RESEARCH ON THE MECHANISMS GOVERNING PHOSPHODIESTERASE ACTIVITY BECAUSE IT REGULATES THE LEVEL OF CYCLIC AMP (CYCLIC ADENOSINE MONOPHOSPHATE). GLUCOSE IS A MAJOR ENERGY SOURCE FOR THE CENTRAL NERVOUS SYSTEM, AND THE ENERGY SUPPLY OF THE CNS MAY BE RELATED TO THE LEVEL OF CYCLIC AMP BY AFFECTING GLUCOSE OXIDATION.

- A110 CYSTATHIONINE METABOLISM IN BRAIN, NS-4454-07. BROWN, FOUNTAINE CHRISTINA, UNIVERSITY OF TENNESSEE, MEMPHIS, TENN. 9/69-8/70, RENEWAL \$16,200. NINDS

THIS RESEARCH PROPOSES TO DELVE INTO THE METABOLISM OF SULFUR CONTAINING COMPOUNDS BY BRAIN TISSUE. THE STUDY WILL ENCOMPASS ENZYMES AND CO-FACTORS PERTINENT TO METABOLIC SYNTHESIS AND DEGRADATION OF SULFUR COMPOUNDS, WITH PARTICULAR EMPHASIS ON CYSTATHIONINE, ITS PRECURSORS, AND DERIVATIVES.

- A114 CYTOLOGICAL STUDIES IN HUMAN GENETICS; HD-04134-02; GERMAN, JAMES LAFAYETTE III; COMMUNITY BLOOD COUNCIL GREATER NEW YORK; NEW YORK, 9/69-8/70; RENEWAL; \$51,875; NICHD

HUMAN CELLS OBTAINED FROM NORMAL INDIVIDUALS OR INDIVIDUALS WITH SOME MEDICAL CONDITION WILL BE CULTURED AND EVALUATED GENETICALLY, BIOCHEMICALLY, AND IMMUNOLOGICALLY. CORRELATIONS WILL BE MADE BETWEEN LABORATORY FINDINGS AND MEDICAL RECORDS. AMONG A NUMBER OF SPECIFIC PROJECTS, THE CAUSE OF CHROMOSOMAL BREAKAGE IN BLOOM'S SYNDROME WILL BE INVESTIGATED AND A COMPARISON OF DNA SYNTHESIS IN DIFFERENT CELL TYPES WILL BE MADE.

- A115 CYTOGENESIS OF EMBRYONIC HUMAN CENTRAL NERVOUS SYSTEM, NS-7053-03, SIDMAN, RICHARD L., HARVARD MEDICAL SCHOOL, BOSTON, MASS. 9/69-8/70, CONTINUATION, \$22,569. NINDS

THE PURPOSE OF THIS RESEARCH IS TO ANALYZE NORMAL AND ABNORMAL MECHANISMS OF CELL DEVELOPMENT IN THE EMBRYONIC HUMAN NERVOUS SYSTEM. AUTORADIOGRAPHY AND ELECTRON MICROSCOPY WILL BE USED IN THE ANALYSIS.

- A120 CYTOGENETIC STUDIES IN MENTAL RETARDATION, HD-00339-10, BREG, W. ROY, CONNECTICUT STATE DEPT OF HEALTH, SOUTHBURY, CONNECTICUT, 6/70-5/71, CONTINUATION, \$17,107. NICHD

THIS RESEARCH CONCERNS CHROMOSOMAL STUDIES DONE ON SELECTED CASES OF MENTAL RETARDATION AND, WHEN INDICATED, ON THEIR RELATIVES.

- A125 DETECTION AND STUDY OF INBORN ERRORS, HD-3967-07, GUTHRIE, ROBERT, STATE UNIVERSITY OF NEW YORK, BUFFALO, NEW YORK, 4/70-3/71, CONTINUATION \$48,012. NICHD

THIS PROJECT DEALS WITH THE APPLICATION OF CONCEPTS AND METHODS OF BIOCHEMICAL GENETICS AND BACTERIAL METABOLISM TO THE DETECTION AND STUDY OF CHEMICAL DIFFERENCES IN HUMAN INDIVIDUALS, ESPECIALLY THOSE DIFFERENCES ASSOCIATED WITH MENTAL RETARDATION.

- A130 DEVELOPMENTAL PATHOLOGY; HD-03298-08; BENIRSCHKE, KURT; DARTMOUTH COLLEGE; HANOVER, NEW HAMPSHIRE; 9/69-8/70; INITIAL; \$422,265; NICHD

THIS PROJECT IS CONCERNED WITH THE PATHOPHYSIOLOGY OF MAMMALIAN FETAL DEVELOPMENT. SOME OF THE AREAS WHICH ARE BEING INVESTIGATED ARE EXPERIMENTAL TERATOLOGY; VIROLOGY (TRANSFER TO THE FETUS, CNS

DAMAGE); STERIOD PRODUCTION (FETAL AND PLACENTAL); CYTOGENETICS (REGIONAL CASE STUDIES, COUSELING, ABORTIONS, TWINNING, CHIMERISM, COMPARATIVE MAMMALIAN, HYBRID STERILITY) AND FINE STRUCTURE (PLACENTAL STRUCTURE AND TRANSFER, EMBRYONIC LESIONS, VIRUS DAMAGE AND REGENERATION).

- A135 DEVELOPMENTAL NERVOUS DISORDERS KRABBE'S DISEASE, NS-6756-04. FLETCHER, T.F., UNIVERSITY OF MINNESOTA COLLEGE OF VETERINARY MEDICINE, ST. PAUL, MINNESOTA, 5/70-4/71, RENEWAL \$29,688 NINDS

THIS RESEARCH CONCERNS THE STUDY OF KRABBE TYPE LEUKODYSTROPHY IN THE DOG, INCLUDING THE GENETIC BASIS OF TRANSMISSION, THE FUNCTIONAL STATUS OF THE PATIENT AT DIFFERENT STAGES IN THE PATHOGENESIS OF THE DISEASE, AND THE EFFECT OF DRUGS ON THE COURSE OF THE DISEASE.

- A140 DIRECT AND INDIRECT CALORIMETRY OF NEWBORNS; HD-04487-06; ENGEL, ROLF R.; UNIVERSITY OF MINNESOTA; MINNEAPOLIS, MINNESOTA; 1/70-12/70; INITIAL; \$33,784; NICHD

THIS RESEARCH IS CONCERNED WITH DEVELOPING AND EVALUATING PHYSIOLOGIC METHODS TO ASSIST IN DIAGNOSING, MONITORING AND TREATING SICK NEWBORNS. THE EXPERIMENTAL PROTOCOL WILL INVOLVE INFANTS THAT ARE BREATHING IN A CLOSED RESPIRATORY SYSTEM. RESPIRATORY GAS ANALYSIS IS BEING PERFORMED TO OBTAIN QUANTITATIVE ANSWERS TO QUESTIONS RELATING TO NEONATAL ENERGY METABOLISM, BILIRUBIN METABOLISM, RED CELL DESTRUCTION, AND INTESTINAL FUNCTION.

- A145 EARLY EXPERIENCE-INTELLECTUAL AND ADAPTIVE DEVELOPMENT; HD-03720-03; DAVENPORT, RICHARD K. JR.; EMORY UNIVERSITY, ATLANTA, GEORGIA; 6/70-5/71; CONTINUATION; \$35,933; NICHD

THIS STUDY WILL INVESTIGATE THE INTELLECTUAL AND SOCIAL CONSEQUENCES OF DIFFERENT TYPES OF EARLY ENVIRONMENTS IN CHIMPANZEES.

- A146 EFFECT OF AMINO ACID LEVELS ON PROTEIN BIOSYNTHESIS; HD-03691-03; RUDOLPH, NATHAN; MAIMONIDES MEDICAL CENTER, NEW YORK, NEW YORK; 5/70-4/71; CONTINUATION; \$16,019; NICHD

THIS RESEARCH WILL STUDY THE EFFECT OF HIGH AMINO ACID LEVELS ON THE INCORPORATION INTO PROTEIN OF RADIOACTIVE AMINO ACIDS IN PREPARATIONS FROM LIVER AND BRAIN CELLS OF ANIMALS.

- A147 THE EFFECT OF ASPHYXIA ON FETAL LUNG FLUID; HD-04050-01A1; JOHNSON, JOHN W. C. JR.; JOHNS HOPKINS UNIVERSITY; BALTIMORE, MARYLAND; 6/70-5/71; INITIAL; \$13,452; NICHD

THE OBJECTIVES OF THIS PROJECT ARE AS FOLLOWS: (1) TO DETERMINE THE QUANTITY AND COMPOSITION OF INTRA-ALVEOLAR FLUID IN THE MATURE FETAL LAMB UNDER EXPERIMENTAL CONDITIONS THAT ARE PHYSIOLOGICALLY OPTIMAL, (2) TO DETERMINE THE ALTERATIONS IN QUANTITY AND COMPOSITION OF THIS FLUID THAT MAY OCCUR IN THE FETAL LAMB DURING HYPOXEMIA AND ACIDEMIA AND DURING THE IMMEDIATE RECOVERY FROM HYPOXEMIA AND ACIDEMIA, AND (3) TO DETERMINE IN THE FETAL LAMB THOSE CHANGES IN PULMONARY MECHANICS THAT MAY BE ASSOCIATED WITH ALTERATIONS IN INTRA-ALVEOLAR FLUID INDUCED DURING ASPHYXIA OR THE IMMEDIATE POST-ASPHYXIAL PHASE.

- A148 EFFECT OF EARLY NUTRITION ON GROWTH AND DEVELOPMENT; HD-03326-03; KNITTLE, JEROME L.; MT. SINAI SCHOOL OF MEDICINE, NEW YORK, NEW YORK; 6/70-5/71; CONTINUATION; \$42,243; NICHD

THE MAJOR AIM OF THIS RESEARCH IS TO DETERMINE THE EFFECT OF EARLY NUTRITION ON THE GROWTH AND DEVELOPMENT OF AN ORGANISM. HUMAN STUDIES WILL INCLUDE METABOLIC EVALUATIONS OF ADIPOSE TISSUE FROM SUBJECTS WITH VARIOUS NUTRITIONAL BACKGROUNDS. ANIMAL STUDIES WILL DEAL WITH THE DEVELOPMENT OF THE FAT DEPOT AND THE EFFECT OF EARLY NUTRITIONAL AND HORMONAL FACTORS ON THE SIZE, NUMBER, AND METABOLISM OF ADIPOSE CELLS. IT IS HOPED THAT THE INSIGHT GAINED FROM THE NORMAL GROWTH AND DEVELOPMENT OF ADIPOSE TISSUE WILL LEAD TO MORE EFFECTIVE TREATMENT OF OBESITY AND MALNUTRITION.

- A149 EFFECTS OF VIRUSES ON HUMAN CHROMOSOMES; HD-02774-03S1; EISEN, JAMES D.; UNIVERSITY OF NEBRASKA; OMAHA, NEBRASKA; 7/69-9/69; CONTINUATION, \$648; NICHD

THIS RESEARCH ATTEMPTS TO FURTHER ELUCIDATE THE ROLL OF VIRUSES IN HUMAN MENTAL RETARDATION CONGENITAL MALFORMATIONS AND FETAL OR NEONATAL DEATH BY A SYSTEMATIC STUDY IN VITRO AND IN VIVO OF EFFECTS OF

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- VARIOUS VIRUSES UPON HUMAN CHROMOSOMES AND TO INVESTIGATE IN DEPTH THE IN VIVO EFFECTS ON HUMAN CHROMOSOMES OF THE CYTOMEGALIC INCLUSION DISEASE VIRUS, RECENTLY RECOGNIZED AS IMPORTANT IN THE ETIOLOGY OF THE ABOVE PROBLEMS.
- A150 EFFECTS OF ANOXIA ON BRAIN METABOLISM IN THE NEWBORN, NS-6163-05, THURSTON, JEAN H., WASHINGTON UNIVERSITY MEDICAL SCHOOL ST. LOUIS, MO. 10/69-9/70, CONTINUATION, \$28,412. NINDS**
THIS RESEARCH PROPOSES TO STUDY BIOCHEMICAL EFFECTS OF ANOXIA ON THE BRAIN OF THE NEWBORN FETUS. SUBSTRATES OF KNOWN IMPORTANCE IN BRAIN METABOLISM WILL BE MEASURED AT ZERO TIME AND AFTER VARYING DEGREES OF ANOXIA, WITH THE AIM OF CORRELATING THE FINDINGS WITH FUNCTIONING OF THE BRAIN AS MIGHT RELATE TO SUBSEQUENT DEVELOPMENT.
- A155 EFFECTS OF MALNUTRITION IN EARLY LIFE; (1) HD-02581-06S1, (2) HD02581-10, BARNES, RICHARD H., CORNELL UNIVERSITY, ITHACA, NEW YORK, (1) 7/69-3/70, (2) 4/70-3/71, CONTINUATION, (1) \$911, (2) \$411,832, NICHD.**
THIS RESEARCH PROPOSES TO STUDY THE EFFECTS OF MALNUTRITION IN EARLY LIFE UPON SUBSEQUENT PHYSICAL AND MENTAL DEVELOPMENT IN EXPERIMENTAL ANIMALS (PARTICULARLY RATS AND PIGS).
- A160 EFFECTS OF MATERNAL HYPOXEMIA ON INFANT DEVELOPMENT, HD-4075-02, WHITEMORE, RUTH, YALE UNIVERSITY, NEW HAVEN, CONNECTICUT, 3/70-2/71, CONTINUATION, \$23,149. NICHD**
THE PURPOSE OF THIS RESEARCH IS TO STUDY THE EFFECT OF MATERNAL HYPOXEMIA ON GROWTH AND DEVELOPMENT OF BOTH THE FETUS AND THE OFFSPRING. SOME OF THE OBJECTIVES ARE 1) TO ASCERTAIN THE RELATIONSHIP OF CHRONIC MATERNAL HYPOXEMIA TO FETAL DEVELOPMENT, GESTATIONAL AGE, AND BIRTH WEIGHT, AND 2) TO EVALUATE THE SUBSEQUENT GROWTH AND DEVELOPMENT OF SUCH INFANTS.
- A165 ENERGY SUPPLY DISORDERS AFFECTING THE FETAL-INFANTILE CNS, NS-2275-11, PENTSCHKEW, ANGEL, CENTRAL ANATOMICAL LABORATORY, MARYLAND MEDICAL-LEGAL FOUNDATION, BALTIMORE, MARYLAND, 9/69-8/70, CONTINUATION, \$47,700. NINDS**
THIS RESEARCH PROPOSES FURTHER EXPLORATION OF RECENT EXPERIMENTAL FINDINGS SUGGESTING THAT CHRONIC METABOLIC HYPOXIDOSIS ABOLISHES THE INHERENT SPECIFIC SKILL OF THE CEREBRAL CAPILLARIES TO FUNCTION AS BLOOD-TISSUE BARRIER AND REDUCES THEIR FUNCTIONAL ABILITY TO THAT OF COMMON CAPILLARIES.
- A175 ENZYMIC FORMATION OF BILE PIGMENTS, NS5367-06 LEVIN, EPHRAIM Y., JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE, MARYLAND, 9/69-8/70 CONTINUATION \$20,470. NINDS**
THIS RESEARCH CONCERNS THE MECHANISM OF HEME RING CLEAVAGE IN THE PRESENCE OF VARIOUS REDUCING AGENTS SUCH AS ASCORBIC ACID, THE NATURE OF VERDOHEMOCHROME, THE INTERMEDIATE REACTION PRODUCT, AND THE RELATIONSHIP OF THIS MODELED REACTION TO HEME RING CLEAVAGE IN THE PRESENCE OF LIVER EXTRACTS.
- A180 ENZYME ACTIVITIES IN BRAINS, NS-7360-01 LAMBOOY, JOHN P., UNIVERSITY OF NEBRASKA COLLEGE OF MEDICINE, OMAHA, NEBRASKA, 5/67-4/70 INITIAL, \$17,099. NINDS**
THIS RESEARCH PROPOSES TO STUDY THE RELATIONSHIP BETWEEN THE HALF-LIFE OF THE MITOCHONDRIA OF THE BRAIN AND THE FLAVIN CONTENT OF THE MITOCHONDRIA. THE FLAVIN CONTENT WILL BE EXPRESSED AS THE SUCCINIC DEHYDROGENASE ACTIVITY OF THE BRAINS OF INFANT RATS WHOSE BIOCHEMICALLY FUNCTIONAL FLAVIN WILL DEPEND ON THE COMPOSITION OF THE FLAVIN COMPONENT OF THEIR DIET.
- A181 ERYTHROCYTE METABOLISM IN THE PREMATURE INFANT, HD-01919-05; OSKI, FRANK A.; UNIVERSITY OF PENNSYLVANIA; PHILADELPHIA; PENNSYLVANIA; 6/70-5/71; CONTINUATION; \$22,614; NICHD**
THERE ARE OBSERVATIONS WHICH INDICATE THAT THE RED CELLS OF THE PREMATURE INFANT DEMONSTRATE THE FOLLOWING: ATP AND 2,3 DIPHOSPHOGLYCERATE INSTABILITY, INADEQUATE GLUCOSE CONSUMPTION FOR MEAN CELL AGE, A NORMALLY FUNCTIONING PENTOSE PHOSPHATE PATHWAY, DECREASED CATION TRANSPORT, MARKEDLY INCREASED LEVELS OF GLUCOSE-6-PHOSPHATE AND FRUCTOSE-6-PHOSPHATE, SIGNIFICANTLY DECREASED PHOSPHOFRUCTOKINASE ACTIVITY, INCREASED ENOLASE ACTIVITY, AND A PREDOMINANCE OF A 'FETAL' FORM OF RED CELL HEXOKINASE.
- THE SPECIFIC AIMS OF THIS PROJECT ARE (1) TO DETERMINE IF THESE BIOCHEMICAL DIFFERENCES IN THE NEWBORN REFLECT A MORE GENERALIZED PATTERN OF IMMATURITY, (2) TO DETERMINE IF THEY MAY BE ASSOCIATED WITH THE PRESENCE OF A MOLECULAR SPECIES OF ENZYME UNIQUE TO THIS PERIOD OF LIFE, AND (3) TO CORRELATE SOME OF THESE DIFFERENCES WITH THE CLINICAL COURSE OF THE INFANTS.
- A182 EXPERIMENTAL PKU INDUCED BY ENZYME INHIBITORS, HD-01972-05; MITOMA, CHOZO; STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIFORNIA; 4/70-3/71; CONTINUATION; \$29,562; NICHD.**
THIS RESEARCH PROPOSES TO SYNTHESIZE AND EVALUATE POTENTIAL INHIBITORS OF PHENYLALANINE HYDROXYLASE. SO FAR, THE MOST POTENT INHIBITOR WITH A MINIMUM OF SIDE-EFFECTS HAS BEEN FOUND TO BE ESCULETIN (6,7-DIHYDROXYCOUMARIN). THE ULTIMATE OBJECTIVE IS TO STUDY BRAIN BIOCHEMISTRY AS IT RELATES TO MENTAL RETARDATION AND NEUROLOGICAL PATHOLOGY.
- A185 EXPERIMENTAL MODEL OF PHENYLKETONURIA-LIKE CONDITIONS, NS-6905-03, AND -03S1, LISS, LEOPOLD, OHIO STATE UNIVERSITY, COLUMBUS, OHIO, 2/69-8/70 CONTINUATION, NS-6905-03 \$21,571, NS-6905-03S1 \$216. NINDS**
THIS RESEARCH PROPOSES TO INVESTIGATE THE MECHANISMS WHICH CAUSE MENTAL RETARDATION IN ACCUMULATION DISEASES.
- A186 EXPERIMENT BILIRUBIN ENCEPHALOPATHY AND PHOTOTHERAPY, NS-9064-01, ROSE, ARTHUR L., YESHIVA UNIVERSITY, NEW YORK, N.Y., 1/70-12/70, INITIAL, \$21,652. NINDS**
RESEARCH ON THE EFFECT OF PHOTOTHERAPY ON NEUROLOGICAL SYMPTOMS, CNS LESIONS AND CEREBRAL UPTAKE OF LABELLED BILIRUBIN IN GUIN RATS.
- A190 FACTORS INFLUENCING NEURAL TUBE DIFFERENTIATION NS-6367-05, LYSER, KATHERINE M., CITY UNIVERSITY OF NEW YORK, NEW YORK, N.Y., 12/69-1/70 CONTINUATION, \$14,651. NINDS**
THIS RESEARCH FOCUSES UPON FACTORS CONTROLLING DEVELOPMENT IN THE CHICK EMBRYO SPINAL CORD, BEGINNING AT THE TIME OF INITIAL DIFFERENTIATION OF NEUROBLAST CELLS AND NERVE PROCESSES BEING STUDIED IN ORGAN CULTURE.
- A191 FRACTIONATION OF BRAIN MACROMOLECULES, NS-5023-07, BRUNNGRABER, ERIC G., ILLINOIS STATE PSYCHIATRIC INST. CHICAGO, ILL., 1/70-12/70, CONTINUATION, \$18,376. NINDS**
FRACTIONATION AND ISOLATION OF BRAIN GLYCOPROTEINS TO DETERMINE THEIR ROLE IN THE CNS WITH THE DIFFERENCE IN THE AMOUNT AND CARBOHYDRATE COMPOSITION IN DIFFERENT BRAIN AREAS AND IN VARIOUS PATHOLOGICAL LESIONS (ALZHEIMER'S DISEASE) BEING STUDIED.
- A192 FACTORS INFLUENCING EXPERIMENTAL KERNICTERUS; HD-02015-05; LUCEY, JEROLD F., UNIVERSITY OF VERMONT, BURLINGTON, VERMONT; 2/70-1/71; CONTINUATION; \$28,534. NICHD.**
THIS RESEARCH PROPOSES TO DEVELOP TECHNIQUES THAT MIGHT INCREASE THE RESISTANCE OF HUMAN INFANTS TO HYPERBILIRUBINEMIA BY A STUDY OF COMPARATIVE SUSCEPTIBILITY TO KERNICTERUS OF A FEW NEW BORN ANIMAL SPECIES. ASPHYXIA, ACIDOSIS, HYPOGLYCEMIA, HYPOALBUMINEMIA, HYPOCALCEMIA AND RESPIRATORY DISTRESS WILL BE CONSIDERED.
- A193 FETAL AND NEONATAL DETOXIFICATION MECHANISMS; HD-02800-04; BROWN, AUDREY K.; MEDICAL COLLEGE OF GEORGIA, AUGUSTA, GEORGIA; 10/69-9/70; CONTINUATION; \$23,994; NICHD.**
THIS RESEARCH PROPOSES TO INVESTIGATE FACTORS INFLUENCING EXCRETION OF BILIRUBIN AND TO STUDY THE FUNCTIONS OF EXCRETION OF BILIRUBIN AND THE RATE OF BILE FLOW IN NEWBORN ANIMALS. THE BILE WILL BE ASSESSED FOR BILIRUBIN C-14 AND BSP-35 WHICH WILL BE INFUSED THROUGH THE FEMORAL VEIN.
- A194 FETAL AND NEONATAL PITUITARY-THYROID PHYSIOLOGY; HD-02200-03; SCHINDLER, WILLIAM J.; BAYLOR UNIVERSITY, HOUSTON, TEXAS; 9/69-8/70; CONTINUATION; \$28,259; NICHD.**
THIS STUDY WILL INVESTIGATE THE EFFECTS OF THYROXIN LEVEL DURING FETAL AND NEONATAL PERIODS ON BIOCHEMICAL, BEHAVIORAL, AND PHYSIOLOGICAL DEVELOPMENT.

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- A195 FUNCTIONAL ANALYSIS OF THE HUMAN SKULL, NS-965-15, MOSS, MELVIN L., COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, NEW YORK, N.Y., 4/70-3/71, CONTINUATION \$8,638, NINDS**
THIS RESEARCH PROPOSES TO CONTINUE STUDY OF THE FORM AND STRUCTURE OF THE HUMAN SKULL BY THE PREVIOUSLY ESTABLISHED METHODS OF FUNCTIONAL CRANIAL ANALYSIS, THE ISOLATION OF FUNCTIONAL CRANIAL COMPONENTS, THE IDENTIFICATION OF THEIR RESPECTIVE SKELETAL UNITS AND RELATED FUNCTIONAL MATRICES.
- A196 FRACTIONATION AND QUANTITATION OF THE HUMAN GENE; HD-04569-01; SCHMICKEL, ROY D.; UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN; 11/69-10/70; INITIAL; \$39,577; NICHD**
THIS STUDY IS CONCERNED WITH THE ISOLATION, FRACTIONATION, AND QUANTITATION OF HUMAN GENETIC MATERIAL FOR THE INVESTIGATION OF THE MOLECULAR BASIS OF HUMAN TERATOLOGY. METHODS WILL BE DEVELOPED TO PURIFY AND FRACTIONATE DNA FOR THE ENRICHMENT OF SPECIFIC GENES IN ORDER TO MAKE THE QUANTITATION OF THESE GENES POSSIBLE. CORRELATIONS WILL BE MADE BETWEEN NORMALS AND INDIVIDUALS WITH CHROMOSOMAL ABNORMALITIES. A BASIS WILL BE PROVIDED FOR UNDERSTANDING CHROMOSOMAL DISEASE IN TERMS OF SPECIFIC GENE ALTERATION AND CONTROL.
- A197 FUNCTIONAL ASPECTS OF PULMONARY IMMATUREITY; HD-02644-04; AULD, PETER A. M.; CORNELL UNIVERSITY; NEW YORK, NEW YORK; 6/70-5/71; RENEWAL; \$32,675; NICHD**
THIS RESEARCH PROPOSES TO DEFINE IN PHYSIOLOGIC TERMS THE LIMITS OF PULMONARY FUNCTION IN THE SMALL PREMA-TURE. APPLICATION OF THIS KNOWLEDGE TO THE CLINICAL PROBLEM OF RESPIRATORY INSUFFICIENCY WILL SUGGEST NEW THERAPEUTIC MANEUVERS ANTICIPATED TO IMPROVE MOR-TALITY AND REDUCE PHYSICAL AND MENTAL MORBIDITY IN THIS HIGH RISK GROUP.
- A200 FURTHER INVESTIGATION ON INFANT MALNUTRITION, HD-3741-09, MONCKEBERG, FERNANDO B., UNIVERSITY OF CHILE, SANTIAGO, CHILE, 1/70-12/70, CONTINUATION, \$22,260, NICHD**
THIS PROJECT IS CONCERNED WITH THE PATHOGENIC MECHANISMS OF METABOLIC DISORDERS WHICH RESULT FROM MALNUTRITION, BOTH PROTEIN AND CALORIE, ACQUIRED DURING THE FIRST MONTHS OF LIFE. THESE DISORDERS ARE THOUGHT TO INTERFERE VERY SEVERELY WITH GROWTH, DEVELOPMENT, AND INTELLECTUAL CAPACITY.
- A220 GENETIC AND CYTOGENETIC LABORATORY FOR MR RESEARCH; HD-04807-01; GERALD, PARK S., CHILDRENS HOSPITAL MEDICAL CENTER; BOSTON, MASSACHUSETTS; 1/70-12/70; INITIAL; \$164,586; NICHD**
THIS PROGRAM PROJECT IS CONCERNED WITH A BROAD-BASED ATTEMPT TO DETERMINE THE GENETIC AND CYTOGENETIC EVENTS CONTRIBUTING TO MENTAL RETARDATION. A CENTRAL STUDY WILL INVOLVE THE ASSIGNMENT OF GENES TO SPECIFIC HUMAN CHROMOSOMES. OTHER PROJECTS WILL INCLUDE STUDIES OF GENE EXPRESSION AND REGULATION IN HYBRID CELLS AND CYTOGENETIC STUDIES IN HUMAN ABOR-TUSES.
- A221 HEXOSAMINIDASES IN THE CENTRAL NERVOUS SYSTEM, NS-9041-01, SHUTER, ELI R., ST. LOUIS UNIVERSITY, ST. LOUIS, MISSOURI 1/70-12/70, INITIAL, \$40,685, NINDS.**
THE HEXOSAMINIDASES (GLUCOSAMINIDASE AND GALAC-TOSAMINIDASE) OF THE BRAIN IN TAY-SACHS DISEASE WILL BE SEPARATED AND PURIFIED AND COMPARED WITH THOSE OF NORMAL BRAIN TO DETERMINE WHETHER AN ABNORMALITY OF HEXOSAMINIDASE OCCURS IN THE DISEASE.
- A222 GLIAL AND MYELIN LIPIDS IN DEVELOPING AND MATURE BRAIN; HD-04575-01; MEAD, JAMES F., UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA; 11/69-10/70; INITIAL; \$35,423; NICHD**
THE MAJOR OBJECTIVE OF THIS RESEARCH IS THE CON-TINUANCE OF A STUDY OF GLIAL AND MYELIN LIPIDS IN THE DEVELOPING BRAIN AND IN MULTIPLE SCLEROSIS. PROCEDURES WILL BE DEVELOPED FOR THE PREPARATION OF SUBCELLULAR PARTICLES FROM GLIAL CELLS IN ORDER TO STUDY LIPID COMPOSITION OF GLIAL PLASMA MEMBRANES, NUCLEI, AND MITOCHONDRIA AND TO STUDY A CHAIN ELONGA-TION SYSTEM FOR THE SYNTHESIS OF A LONG CHAIN OF FATTY ACIDS IN GLIAL CELLS. THE ACTIVITY OF THE CHAIN ELONGA-TION SYSTEM WILL BE EXAMINED AT DIFFERENT PERIODS OF BRAIN DEVELOPMENT.
- A225 HEMOSTASIS AND HEMORRHAGIC DISEASE IN CHILDREN; HD-00568-10; SCHULMAN, IRVING; UNIVERSITY OF ILLINOIS; CHICAGO, ILLINOIS; 1/70-12/70; RENEWAL; \$61,233; NICHD**
THE RESEARCH OF OBJECTIVES OF THIS PROJECT ARE (1) TO STUDY THE INTRA-UTERINE AND POST-NATAL CHANGES IN THE BLOOD COAGULATION MECHANISM IN PRIMATE FETUSES, WITH PARTICULAR REFERENCE TO THE EFFECTS OF ASPHYXIA; (2) TO STUDY POST-NATAL CHANGES IN THE COAGULATION MECHANISM IN HUMAN LOW BIRTH-WEIGHT INFANTS WITH PARTICULAR REFERENCE TO THE PATHOGENESIS OF THE RESPIRATORY DISTRESS SYNDROME; (3) TO STUDY THE PHENOMENON OF PLATELET AGGREGATION IN NEWBORNS WITH REFERENCE TO THE EFFECTS OF ANOXIA AND ACIDOSIS, IN INFANTS WITH IRON DEFICIENCY ANEMIA AND IN CHILDREN WITH RECURRENT EPISTAXIS; AND (4) TO STUDY THE INTER-RELATIONSHIPS AMONG BACTEREMIA, SHOCK, AND IN-TRAVASCULAR CLOTTING.
- A226 HERITABILITY OF I.Q. AND ACHIEVEMENT IN FOUR POPULATIONS; HD-04751-01; SCARR, SANDRA W.; UNIVERSITY OF PENNSYLVANIA; PHILADELPHIA, PENNSYLVANIA; 6/70-5/71; INITIAL; \$14,122; NICHD**
THIS IS A ONE YEAR PROJECT WHICH IS TO BE BASED ON PHILADELPHIA PUBLIC SCHOOL RECORDS. THIS DATA WILL BE USED TO ESTIMATE HERITABILITIES FOR GENERAL INTEL-LIGENCE, SPECIAL ABILITIES, AND SCHOLASTIC ACHIEVEMENT IN FOUR POPULATIONS (MIDDLE AND LOWER CLASS NEGRO AND WHITE CHILDREN) FROM KINDERGARTEN THROUGH 12TH GRADE. THE PLAN IS TO USE MONOZYGOTIC-DIZYGOTIC TWIN DIFFERENCES AS THE BASIC FACTOR TO ESTIMATE HERITABI-LITY. THREE DIFFERENT METHODS OF ESTIMATING HERITABI-LITIES WILL BE USED: HOLTZINGERS H, THE ASSORTATIVE MATING TWIN MODEL, AND THE GENERALIZED MODEL.
- A227 HISTOCHEMICAL SURVEY OF ENZYMES IN BEHAVIORAL MUTANTS; HD-0095-14; TASSONI, JOSEPH P., NEW JERSEY COLLEGE OF MEDICINE AND DENTISTRY, JERSEY CITY, NEW JERSEY; 1/70-12/70; CONTINUATION; \$29,236; NICHD**
THE PURPOSE OF THIS PROJECT IS TO STUDY ENZYME ABERRA-TIONS IN THE CENTRAL NERVOUS SYSTEM OF MURINE BEHAVIORAL MUTANTS. THE PRINCIPLE ANIMALS BEING USED ARE THE WABBLER-LETHAL (W/LWL), DYSTONIA MUSCULORUM (D/TD) AND JIMPY (J/P). THESE ANIMALS EXHIBIT NEU-ROMUSCULAR ABNORMALITIES WHICH SIMULATE CERTAIN HUMAN DISORDERS. ENZYME SYSTEMS ARE BEING RELATED TO NORMAL AND ABNORMAL CELLULAR ACTIVITIES AND TO MECHANISMS INVOLVED IN NORMAL AND ABNORMAL GENE ACTIONS.
- A228 HYPOXEMIA, ACIDEMIA AND CAPILLARY PERMEABILITY; HD-02704-04; TAYLOR, PAUL MITCHELL; MAGEE-WOMEN'S HOSPITAL; PITTSBURGH, PENNSYLVANIA; 1/70-12/70; CONTINUATION; \$23,812; NICHD.**
THIS RESEARCH PROPOSES TO DETERMINE THE RELATIVE SUSCEPTIBILITIES OF THE PULMONARY CAPILLARIES OF ADULT AND 2-WEEK-OLD DOGS TO HYPOXEMIA, ACIDEMIA AND HYPOXEMIA PLUS ACIDEMIA. A BACKGROUND FOR THE STUDY OF METHODS OF PREVENTING OR HASTENING RECOVERY FROM INCREASES IN PULMONARY CAPILLARY PERMEABILITY CAUSED BY ACUTE METABOLIC INSULTS IS ANTICIPATED.
- A229 HYPOXIA, METABOLISM, AND NEONATAL THERMOREGULATION; HD-02531-04; BAUM, DAVID; UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON; 10/69-9/70; RENEWAL; \$15,763; NICHD.**
THIS RESEARCH PROPOSES TO ELICIT THE BIOCHEMICAL EF-FECTS OF ACUTE AND CHRONIC HYPOXIA ON THERMOGENESIS IN THE HUMAN INFANT, AND TO EXTRAPOLATE THE FINDINGS FOR USE IN THE MEDICAL CARE OF THE HYPOXEMIC INFANT.
- A231 INBORN ERRORS OF METABOLISM; HD-04526-01; DANCIS, JOSEPH; NEW YORK UNIVERSITY; NEW YORK, NEW YORK; 10/69-9/70; INITIAL; \$17,161; NICHD**
THE SPECIFIC AIM OF THIS STUDY OF METABOLIC ERRORS IS AN ATTEMPT TO IDENTIFY ENZYMATIC DEFECTS IN ORDER TO AID IN DIAGNOSIS AND TREATMENT. BIOPSIES FROM INDIVIDUALS WITH FAMILIAL HYPERLYSINEMIA, X-LINKED HYPERURICOSU-RIA, AND MAPLE SYRUP URINE DISEASE WILL BE OBTAINED FOR BICHEMICAL STUDIES OF ENZYME ACTIVITY. DETERMINATIONS OF THE PATHWAY OF LYSINE DEGRADATION AND VARIOUS MEANS FOR DIAGNOSING HYPERURICOSEMIAS AND GLYCOGEN STORAGE DISEASE WILL BE MADE.
- A250 INTELLECTUAL STIMULATION OF CULTURALLY DEPRIVED INFANTS (MH-9224-05) FURFEY, PAUL H., CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.C. 9/1/69-8/31/70, RENEWAL, \$82,890, NIMH**

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- THIS RESEARCH PROPOSES TO STUDY 2 GROUPS OF CULTURALLY DEPRIVED MALE, NEGRO INFANTS. AT THE AGE OF 14 MONTHS THEY ARE TESTED FOR INTELLIGENCE ON THE BAYLEY SCALES. INFANTS IN 1 GROUP ARE VISITED BY STAFF MEMBERS CALLED TUTORS FOR 1 HOUR A DAY, 5 DAYS A WEEK. THE SECOND GROUP IS NOT VISITED BY TUTORS. AT 21, 27, AND 36 MONTHS, SUBJECTS IN BOTH GROUPS ARE RETESTED TO SEE WHETHER THE TUTORING INFANTS SHOW MORE INTELLECTUAL PROGRESS THAN UNTUTORED.
- A251 INTERMEDIARY METABOLISM IN THE PREMATURE INFANT; (1) HD-00373-13S1, (2) HD-00373-14; LUBCHENCO, LULA O.; UNIVERSITY OF COLORADO; DENVER, COLORADO; (1) 7/69-8/70, (2) 9/69-8/70; CONTINUATION; (1) \$1,319, (2) \$11,764; NICHD.**
- THIS RESEARCH CONCERNS VARIOUS ASPECTS OF INTERMEDIARY METABOLISM IN WELL AND SICK NEWBORN INFANTS WITH EMPHASIS ON GLUCOSE UTILIZATION, INDIVIDUAL FREE FATTY ACID METABOLISM, AMINO ACID METABOLISM, BILIRUBIN METABOLISM IN FETUS AFFECTED WITH ERYTHROBLASTOSIS, AND LONG TERM FOLLOW-UP STUDIES ON PHYSICAL, NEUROLOGICAL AND INTELLECTUAL HANDICAPS IN NEWBORNS WITH SPECIAL METABOLIC PROBLEMS.
- A260 INTRAUTERINE ENVIRONMENTS INJURIOUS TO PRENATAL LIFE; HD-02397-04; EASTERDAY, BERNARD C.; UNIVERSITY OF WISCONSIN; MADISON, WISCONSIN; 4/70-3/71; CONTINUATION; \$45,597; NICHD**
- OF EMBRYONIC AND FETAL DEFECTS IN SWINE CAUSED BY SELECTED VIRUSES. MYXOVIRUSES, HERPES VIRUSES AND ARBOVIRUSES ARE BEING USED, AND THE PATHOGENESIS AND TYPES OF DEFECTS PRODUCED ARE BEING COMPARED. THE RESEARCH CONCERNS (1) THE PRECISE PATHWAY OF INFECTION, (2) THE 'TARGET' CELLS, (3) HOW SUCH CELLS ARE ALTERED, (4) THE FATE OF THE INFECTING AGENT AND (5) THE FATE OF THE INFECTED EMBRYO OR FETUS.
- A270 MATERNAL AND FETAL METABOLISM OF STEROIDS AND DRUGS; HD-3825-02; HEINRICHST, WILLIAM L.; UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON, 12/69-11/70; CONTINUATION, \$14,630. NICHD**
- THE ENZYMIC OXIDATIONS AT SEVERAL POSITIONS IN THE MOLECULE OF STEROID HORMONES, AND DIFFERENT FUNCTIONAL GROUPS OF DRUGS, WILL BE INVESTIGATED IN PREGNANT AND FETAL ANIMALS. ATTEMPTS WILL BE MADE TO INHIBIT OR TO STIMULATE THESE MATERNAL AND FETAL HEPATIC ENZYMES BY TREATMENT OF ANIMALS WITH METABOLIC INHIBITORS OR ENZYME 'INDUCING' AGENTS.
- A271 MATERNAL BEHAVIOR AND INFANT DEVELOPMENT IN MONKEYS; HD-04905-01; KAPLAN, JOEL N.; STANFORD RESEARCH INSTITUTE; MENLO PARK, CALIFORNIA; 5/70-4/71; INITIAL; \$41,056; NICHD**
- THE AIM OF THIS PROJECT IS TO INVESTIGATE MATERNAL BEHAVIOR AND INFANT DEVELOPMENT IN SQUIRREL MONKEYS. SPECIFICALLY, THE FOLLOWING WILL BE EXAMINED: (1) THE EFFECTS OF DIFFERENT PHYSICAL AND SOCIAL REARING CONDITIONS OF PAIRS OF MOTHERS AND INFANTS ON THEIR RELATIONSHIP TO EACH OTHER AND ON THE SUBSEQUENT BEHAVIORS OF INFANTS, (2) SEPARATION AND REUNION OF MOTHERS AND INFANTS AT DIFFERENT POSTNATAL STAGES, (3) EFFECT OF INFANT LOSS AT DIFFERENT POST-NATAL STAGES ON MATERNAL RESPONSIVENESS, (4) PARTIAL SOCIAL ISOLATION OF INFANTS SEPARATED FROM THEIR MOTHERS AT DIFFERENT AGES, AND (5) THE EFFECT OF COMPLETE SOCIAL DEPRIVATION FOR THE FIRST THREE AND SIX MONTHS OF LIFE ON EARLY BEHAVIOR PATTERNS.
- A272 MATURATION OF LIVER FOR THE METABOLISM OF BILIRUBIN; HD-02268-05; ODELL, GERARD B.; JOHNS HOPKINS UNIVERSITY; BALTIMORE, MARYLAND; 5/70-4/71; CONTINUATION; \$27,295; NICHD**
- THIS PROJECT IS A SEARCH FOR AN INTRACELLULAR RECEPTOR-CARRIER SYSTEM FOR BILIRUBIN WHICH WOULD ACCOUNT FOR THE ABILITY OF THE HEPATOCYTES TO TAKE UP AND CONCENTRATE BILIRUBIN FROM EXTRACELLULAR FLUID WHERE BILIRUBIN IS TIGHTLY BOUND TO ALBUMIN. IT IS BELIEVED THAT THIS MATERIAL IS NOT PRESENT IN FETUSES OF PLACENTAL MAMMALS, BUT DEVELOPS AFTER BIRTH. THE PARTICULAR ROLE OF THIS MATERIAL IN MEDIATING THE UPTAKE, CONJUGATION, AND EXCRETION OF BILIRUBIN IS TO BE STUDIED. SIMULTANEOUS STUDIES OF THE PROLONGED EFFECTS OF HYPER-BILIRUBINEMIA ON KIDNEY FUNCTION ARE BEING DONE IN RATS. FINALLY, SINCE ENTEROHEPATIC RECIRCULATION OF PREVIOUSLY EXCRETED BILIRUBIN CAN OCCUR, STUDIES ARE BEING CONDUCTED TO TRAP BILIRUBIN WITHIN THE INTESTINAL TRACT AND THEREBY ENHANCE ITS EXCRETION. BY SUCH MEANS, THE DEGREE OF HYPER-BILIRUBINEMIA IN THE NEONATAL PERIOD MAY BE REDUCED.
- A274 MECHANISM OF BILIRUBIN TOXICITY; HD-03302-06; LABBE, ROBERT F.; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 1/70-12/70; CONTINUATION; \$25,185; NICHD.**
- THIS RESEARCH PROPOSES TO STUDY THE BIOCHEMICAL MECHANISMS OF TOXICITY. THE FACTORS INFLUENCING VULNERABILITY TO BILIRUBIN AND FACTORS AFFECTING ALBUMIN BINDING OF BILIRUBIN.
- A276 MENTAL RETARDATION DEFECT IN HURLER SYNDROME; HD-04331-01; KIHARA, HAYATO; CALIFORNIA STATE DEPARTMENT OF MENTAL HYGIENE; POMONA, CALIFORNIA; 6/70-5/71; INITIAL; \$44,012; NICHD**
- THIS RESEARCH IS DIRECTED TOWARD DEFINING THE BIOCHEMICAL DEFECTS IN THE MUCOPOLYSACCHARIDOSES AT THE ENZYME LEVEL. TISSUE CULTURES FROM SKIN BIOPSIES OF PATIENTS WITH METABOLIC DISORDERS, THEIR PARENTS, AND CONTROL SUBJECTS WILL BE OBTAINED FOR METABOLIC AND ENZYME STUDIES. OTHER SPECIFIC DISORDERS THAT ARE UNDER INVESTIGATION ARE TAY-SACHS DISEASE, HISTIDINEMIA, PHENYLKETONURIA, LOWE'S SYNDROME, AND HYPERLYSINEMIA.
- A280 METABOLIC DISEASES OF THE BRAIN, NS-6938-05, MENKES, JOHN H.; UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF., 4/70-3/71 RENEWAL \$79,985. NINDS**
- THIS RESEARCH PROPOSES TO INVESTIGATE THE INTERRELATION BETWEEN THE METABOLIC DEFECT IN VARIOUS INBORN ERRORS OF METABOLISM AND THE DEVELOPMENT OF NEUROLOGIC ABNORMALITIES.
- A281 METABOLIC DISORDERS AND MENTAL DEFICIENCY; HD-00324-15; BERRY, HELEN K.; CHILDRENS HOSPITAL RESEARCH FOUNDATION, CINCINNATI, OHIO; 6/70-5/71; RENEWAL; \$100,341; NICHD.**
- THIS RESEARCH INVOLVES STUDIES OF CHILDREN WITH HYPERGLYCINURIA USING C14-GLYCINE SHOWING DECREASED CONVERSION OF GLYCINE TO CO2 STUDIES OF PHENYLALANINE METABOLISM IN GUINEA PIGS CONSISTING OF PHENYLALANINE LOADING TESTS ADMINISTERED AT VARIOUS AGES BEGINNING AT BIRTH, FOLLOWED BY ASSAY OF PHENYLALANINE HYDROXYLASE ACTIVITY IN LIVER AND STUDIES OF PATIENTS WITH HURLER'S SYNDROME USING URINE FOR SEPARATION AND IDENTIFICATION OF THE MUCOPOLYSACCHARIDES AND SKIN FIBROBLASTS GROWN IN TISSUE CULTURE.
- A282 METABOLIC STUDIES IN METHYLMALONIC ACIDEMIA; HD-04837-01; MORROW, GRANT III; UNIVERSITY OF PENNSYLVANIA; PHILADELPHIA, PENNSYLVANIA; 1/70-12/70; INITIAL; \$24,166; NICHD**
- THIS RESEARCH INVOLVES A STUDY OF THE KINETICS OF METHYLMALONYL COA (MMA) MUTASE IN THE LIVERS OF FOUR PATIENTS WHO DIED FROM MMA-EMIA IN ORDER TO DELINEATE THE MOLECULAR BASES OF THE DEFECTS IN THE RESPONSIVE AND UNRESPONSIVE VARIANTS. PROCEDURES WILL BE DEVELOPED FOR THE DETECTION OF THE HETEROZYGOTE BY WHITE CELL METABOLISM OF METHYLMALONATE OR BY VALINE OR PROPIONATE LOADING. IN ADDITION, PRENATAL DETECTION OF THE AFFECTED FETUS WILL BE ATTEMPTED BY AMNIOCENTESIS.
- A285 METABOLISM OF GAMMA-HYDROXYBUTYRIC ACID, NS-8447-01 FORMERLY NS-5062, BESSMAN, SAMUEL P., UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CALIF., 9/68-4/70, RENEWAL, \$31,153. NINDS**
- THIS RESEARCH CONCERNS THE METABOLISM OF GAMMA-HYDROXYBUTYRATE AND ITS LACTONE IN ANIMALS AND IN HUMANS. AN ENZYME WHICH HYDROLYZES THE LACTONE HAS BEEN ISOLATED AND PURIFIED TO SOME EXTENT AND ITS PROPERTIES ARE UNDER INVESTIGATION. THIS ENZYME HAS BEEN SHOWN TO REVERSIBLY CATALYZE THE CONVERSION OF GAMMA-HYDROXYBUTYRATE TO ITS LACTONE.
- A290 METABOLISM OF THE SPHINGOLIPIDS AND C24 FATTY ACIDS, NS-2967-10, GATT, S., HEBREW UNIVERSITY-HADASSAH MEDICAL SCHOOL, JERUSALEM, ISRAEL, 6/70-5/71, RENEWAL, \$31,206. NINDS**
- RESEARCH ON MECHANISM OF ACTION OF CERAMIDASE, MECHANISM OF THE DEGRADATION OF SPHINGOSINE BASES TO FATTY ACIDS, THE ENZYMIC DEFECT IN TAY-SACHS DISEASE, BIOSYNTHESIS OF CERAMIDE GLYCOSIDES AND EXTRACTION OF BRAIN PHOSPHOLIPASES.
- A295 METABOLIC STUDIES IN NERVOUS SYSTEM TISSUE CULTURE, NS-8197-02, SILBERBERG, DONALD H., UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA., 5/70-4/71 CONTINUATION \$26,573. NINDS**
- TISSUE CULTURE RESEARCH ON LIVING CNS TISSUE TO REPRODUCE THE CELLULAR ENVIRONMENT OF METABOLIC

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DISORDERS EXHIBITING NEUROLOGICAL DYSFUNCTIONS (PKU, MAPLE SYRUP DISEASE, KERNICTERUS, REFSUM'S DISEASE) AND TO MAKE MORPHOLOGIC AND BIOCHEMICAL OBSERVATIONS.

- A296 METACHROMATIC LEUKODYSTROPHY IN CULTURED CELL SYSTEMS.** NS-8839-01 AND -01S1, KIHARA, HAYATO, PACIFIC STATE HOSPITAL, POMONA, CALIFORNIA, 6/69-5/71, INITIAL, NS-8839-01 \$58,754, NS-8839-01S1 \$10,450, NINDS
- RESEARCH WITH TISSUE CULTURE CELL STRAINS TO DEFINE THE BIOCHEMICAL DEFECT IN METACHROMATIC LEUKODYSTROPHY (MLD) AND ITS RELATION TO NEUROLOGICAL DEFICIT. BIOCHEMICAL CHARACTERIZATION IS PREREQUISITE FOR IMPROVED AND EARLY DIAGNOSIS, GENETIC COUNSELING, AND THERAPEUTICS.
- A310 NATURE AND MECHANISMS OF CONGENITAL INFECTIONS.** HD-01687-05, ALFORD, CHARLES A., UNIVERSITY OF ALABAMA, BIRMINGHAM, ALABAMA 9/69-8/70, CONTINUATION, \$32,103. NICHD
- THIS RESEARCH PROPOSES TO INVESTIGATE THE VIRAL-HOST RELATIONS IN CONGENITAL INFECTIONS THAT RESULT IN THE DISRUPTION OF EMBRYOGENESIS IN MAN WITH SPECIAL REFERENCE TO RUBELLA AND CYTOMEGALOVIRUS.
- A319 NEUROGENETIC PROCESSES IN FETAL BRAIN.** NS-9081-01, RAKIC, PASKO T., HARVARD UNIVERSITY, BOSTON, MASSACHUSETTS, 6/70-8/71, INITIAL, \$59,191. NINDS
- RESEARCH ON THE BEHAVIOR OF NERVE CELLS AS THEY PROLIFERATE, MIGRATE, INTERACT, AND MATURE IN THE BRAINS OF FETAL HUMANS AND MONKEYS TO UNDERSTAND DEVELOPMENTAL DISEASES OF THE BRAIN, PARTICULARLY THOSE CAUSE MENTAL RETARDATION.
- A320 NEUROLOGICAL DEVELOPMENT-INFANTS OF DIABETIC MOTHERS.** HD-01813-09, HUBBELL, JOHN P., JR., BOSTON HOSPITAL FOR WOMEN, BOSTON, MASS. 6/70-5/71, CONTINUATION, \$5,534. NICHD
- THIS RESEARCH INVOLVES THE COLLECTION OF DATA DURING PREGNANCY, LABOR AND DELIVERY OF PREGNANT WOMEN WITH DIABETES. THE INFANTS AFTER BIRTH ARE EXAMINED AND FOLLOWED IN ACCORDANCE WITH THE PROTOCOL OF THE COLLABORATIVE NEONATAL STUDY OF THE NINDS. THE ULTIMATE AIM IS TO DETERMINE THE LONG-RANGE NEUROLOGIC OUTCOME IN 500 LIVE-BORN INFANTS AND TO TRY TO CORRELATE OUTCOME WITH EVENTS DURING THE PERINATAL PERIOD.
- A321 NEUROPATHOLOGICAL ASPECTS OF MENTAL RETARDATION.** HD-04593-01, ALVORD, ELLSWORTH C., JR., UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON, 6/70-5/71, INITIAL, \$49,374; NICHD
- THE SPECIFIC AIM OF THIS RESEARCH IS TO UNDERSTAND SOME OF THE ETIOLOGIC AND PATHOGENETIC ASPECTS OF MENTAL RETARDATION IN COMPARISON WITH THE NORMAL DEVELOPMENT OF THE NERVOUS SYSTEM. THREE SEPARATE STUDIES WILL BE UNDERTAKEN: AN ATTEMPT TO UNCOVER HISTOLOGIC LESIONS IN PREMATURE INFANT BRAINS HERETOFORE UNDETECTABLE BY PATHOLOGISTS; A STUDY OF CEREBRAL PALSY, EPILEPTIC, AND/OR MENTALLY RETARDED CHILDREN; AND AN ANALYSIS OF THE REACTIVITY OF THE IMMATURE BRAIN.
- A325 NEW AMINO ACID DISORDERS IN CEREBRAL DISEASE.** NS-5096-07, SHIH, VIVIAN E., MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASS. 9/69-8/70 RENEWAL \$59,375. NINDS
- THIS RESEARCH INVOLVES THE INVESTIGATION OF ENZYME BIOCHEMICAL DEFECTS IN SEVERAL PREVIOUSLY UNDESCRIBED INBORN ERRORS OF AMINO ACID METABOLISM ASSOCIATED WITH AMMONIA INTOXICATION, MENTAL RETARDATION, AND OTHER EVIDENCE OF CEREBRAL DISEASE.
- A330 NUTRITION AND CELL GROWTH DURING BRAIN DEVELOPMENT.** HD-3888-02, WINICK, MYRON, CORNELL UNIVERSITY, NEW YORK, NEW YORK, 3/70-2/71, CONTINUATION, \$35,300. NICHD
- THE EFFECTS OF MALNUTRITION ON CELLULAR CHANGES IN THE DEVELOPING BRAIN ARE BEING INVESTIGATED USING BIOCHEMICAL TECHNIQUES. ONCE THESE CHANGES ARE DEFINED, IT MAY BE POSSIBLE TO DETERMINE IF ANY OR ALL ARE REVERSIBLE
- A331 NUTRITION, CELL FUNCTION, AND GROWTH RETARDATION.** HD-05365-01, METCOFF, JACK, UNIVERSITY OF OKLAHOMA, OKLAHOMA CITY, OKLAHOMA, 6/70-5/71, CONTINUATION, \$38,328; NICHD
- THIS INVESTIGATION PROPOSES TO STUDY OXYGEN CONSUMPTION AND THE CONCENTRATION OF THE VARIOUS KREBS

CYCLE ENZYMES IN THE LEUKOCYTES OF INFANTS WITH FETAL MALNUTRITION AND TO CONTRAST THESE VALUES WITH THOSE FOUND IN SEVERE PROTEIN CALORIE MALNUTRITION. SIMILAR MEASUREMENTS WILL BE MADE ON PLACENTAL TISSUE OBTAINED FROM PREGNANCIES CHARACTERIZED BY PRODUCTION OF AN UNDERGROWN INFANT, WHEN POSSIBLE, AND WHEN THE INFANT LIVES, SERIAL LONG-TERM MEASUREMENTS IN THE LEUKOCYTES WILL BE CARRIED OUT FOR SEVERAL YEARS.

- A335 NUTRITION AND DEVELOPMENT OF CHILDREN IN RURAL AREAS.** HD-03942-03, CHAVEZ, ADOLFO, INSTITUTO NACIONAL DE LA NUTRICION, MEXICO, D.F., MEXICO, 5/70-4/71, CONTINUATION, \$22,046. NICHD
- THIS RESEARCH WILL MEASURE, LONGITUDINALLY, FOOD AND NUTRIENT CONSUMPTION IN CHILDREN FROM BIRTH TO 3 YEARS OF AGE. THIS DATA WILL BE CORRELATED WITH GROWTH, MATURATION AND HEALTH. QUANTITATIVE FEEDING PRACTICES FOR INFANTS AT VARIOUS AGES WILL BE DEFINED.
- A340 NUTRITION, CELL FUNCTION AND GROWTH RETARDATION.** HD-02912-02S1, METCOFF, JACK, MICHAEL REESE HOSPITAL AND MEDICAL CENTER, CHICAGO, ILL. 12/69-5/70, CONTINUATION, \$3,947. NICHD
- THIS RESEARCH WILL COMPARE HUMAN FETAL MALNUTRITION WITH POSTNATAL MALNUTRITION AND THE EFFECTS OF NUTRITION ON BIOCHEMICAL ASPECTS OF GROWTH AND DEVELOPMENT.
- A345 NUTRITION IN PREGNANCY AND EARLY CHILDHOOD.** HD-3692-02, UNGLAUB, WALTER G., TULANE UNIVERSITY, NEW ORLEANS, LOUISIANA, 6/70-5/71, CONTINUATION, \$83,687. NICHD
- THE OBJECTIVES OF THIS RESEARCH ARE TO PROVIDE DIETARY INTAKE DATA FROM PREGNANT WOMEN IN A RURAL AREA OF SOUTHEASTERN LOUISIANA AND FROM THEIR OFFSPRING FROM BIRTH THROUGH THE AGE OF FIVE YEARS. THIS INFORMATION IS TO BE CORRELATED WITH CLINICAL DATA PERTAINING TO GESTATION, DELIVERY, GROWTH, PHYSICAL AND MENTAL DEVELOPMENT OF THE OFFSPRING, AND WITH CLINICAL AND BIOCHEMICAL PARAMETERS OF NUTRITIONAL STATUS.
- A346 NUTRITIONAL AND BIOCHEMICAL BASIS FOR LEARNING.** HD-03279-06, COLLIER, GEORGE H., THE STATE OF UNIVERSITY OF RUTGERS, NEW BRUNSWICK, NEW JERSEY, 9/69-8/70, CONTINUATION \$33,684; NICHD
- THE MAIN OBJECTIVE OF THIS RESEARCH IS TO RELATE MOTIVATION AND LEARNING TO GENERAL AND CELLULAR PHYSIOLOGY BY MEANS OF MANIPULATION OF NUTRITIONAL VARIABLES. THE EXPERIMENTAL SUBJECTS ARE RATS AND CHICKS. THE RELATIONS BETWEEN DEFICIENT AND SURFEIT DIETS, ACTIVITY, PREFERENCE, LEARNING, AND THE CAPACITY TO LEARN, ORGAN PARAMETERS, AND LEVELS OF NUCLEIC AND FREE AMINO ACIDS WILL BE INVESTIGATED.
- A350 ONTOGENESIS OF ACTIVITY IN CEREBRAL NEURONS.** NS-7105-04, HUTTENLOCHER, PETER R., YALE UNIVERSITY SCHOOL OF MEDICINE, NEW HAVEN, CONNECTICUT, 9/69-12/70 CONTINUATION \$14,168. NINDS
- THIS RESEARCH CONCERNS THE DEVELOPMENT OF NEURONAL ACTIVITY IN IMMATURE MAMMALIAN CEREBRAL CORTEX. IT IS HOPED TO EVENTUALLY CORRELATE DEVELOPMENT OF NEURONAL FUNCTIONING WITH ANATOMICAL DEVELOPMENT OF CORTEX, AND WITH BIOCHEMICAL CHANGES OBSERVED DURING MATURATION OF THE BRAIN.
- A355 PATHOGENESIS AND MECHANICS OF PULMONARY HYPOPLASIA.** HD-3639-02, DE LORIMER, ALFRED A., UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIF. 11/69-10/70, CONTINUATION, \$36,136. NICHD
- THE PURPOSE OF THIS PROJECT IS TO EXAMINE THE FOLLOWING TOPICS: 1) THE PATHOGENESIS OF HYPOPLASTIC LUNGS; 2) THE VENTILATORY AND HEMODYNAMIC CHANGES THAT OCCUR IN LAMBS WITH HYPOPLASTIC LUNGS, COMPARED TO NORMAL LAMBS; AND 3) METHODS OF VENTILATING THE HYPOPLASTIC LUNGS WHICH WILL PROVIDE ADEQUATE GASEOUS EXCHANGE.
- A356 PATHOGENESIS OF CENTRAL NERVOUS SYSTEM MALFORMATIONS.** HD-01503-06, CHAMBERLAIN, JACK G., UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIFORNIA, 6/70-5/71, CONTINUATION, \$23,292; NICHD
- THIS RESEARCH PROPOSES TO STUDY THE DEVELOPMENT OF ABNORMALITIES SUCH AS HYDROCEPHALUS CAUSED BY ACUTE OR CHRONIC NIACIN DEFICIENCY IN PREGNANT RATS AND THE EFFECTS OF NIACIN DEFICIENCY INSTITUTED EARLY IN GESTATION. THESE STUDIES WILL BE COMPARED AND CONTRASTED

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- WITH OTHER DIETARY DEFICIENCIES KNOWN TO BE TERATOGENIC IN MAMMALS.
- A360 PATHOGENESIS OF NEONATAL PHYSIOLOGIC JAUNDICE.** HD-3783-02, GARTNER, LAWRENCE MITCHELL, YESHIVA UNIVERSITY, NEW YORK, NEW YORK, 11/69-10/70, CONTINUATION, \$27,607. NICHD
- THIS PROJECT INCLUDES THE FOLLOWING STUDIES: 1) EVALUATION OF HEPATIC BILIRUBIN TRANSPORT AND METABOLISM IN THE SUBHUMAN PRIMATE IN VIVO; 2) IDENTIFICATION OF INHIBITORS OF GLUCURONYL TRANSFERASE IN LIVER OF NEWBORN SUBHUMAN PRIMATES, GUINEA PIGS, AND HUMANS; AND 3) EVALUATION OF NEONATAL DEVELOPMENT OF BILIRUBIN BINDING BY PROTEINS, IN SERUM AND HEPATIC CYTOPLASMIC FRACTIONS, IN RELATION TO TRANSFER OF BILIRUBIN FROM PLASMA TO LIVER.
- A365 PERINATAL MALNUTRITION AND DEVELOPMENT OF THE OFFSPRING.** HD-4308-028 8/69-7/70, RENEWAL, \$38,963. NINDS 6/70-5/71, CONTINUATION \$22,516. NICHD
- THE PURPOSE OF THIS PROJECT IS TO SEPARATE THE CONSEQUENCES OF DIETARY RESTRICTION DURING GESTATION FROM THOSE OF RESTRICTION DURING LACTATION IN ORDER TO EVALUATE THEIR RELATIVE IMPORTANCE IN THE PHYSIOLOGICAL AND BEHAVIORAL PERFORMANCE OF THE PROGENY. THE STUDIES WILL EXPLORE QUALITATIVE AS WELL AS QUANTITATIVE DIFFERENCES RESULTING FROM THE STRESSES APPLIED AT THE TWO DIFFERENT PERIODS.
- A370 PERSISTENT CONGENITAL AND NEONATAL VIRUS INFECTIONS.** HD-4183-01S1, LANG, DAVID J., DUKE UNIVERSITY, DURHAM, NORTH CAROLINA, 8/69-7/70, CONTINUATION, \$7,542. NICHD
- THE PURPOSE OF THIS PROJECT IS TO STUDY CONGENITAL AND NEONATAL VIRUS INFECTIONS, EMPHASIZING THOSE AGENTS WHICH CAUSE PERSISTENT INFECTION. PRESENT STUDIES FOCUS ON THE BIOLOGICAL CHARACTERISTICS AND ACTIVITIES OF HUMAN CYTOMEGALOVIRUSES IN VITRO AND IN VIVO.
- A375 PHENYLALANINE ANTIMETABOLITE EFFECT ON NERVOUS SYSTEM.** NS-6903-03, WATT, DEAN D., MIDWEST RESEARCH INSTITUTE, KANSAS CITY, MO., 2/69-1/70, RENEWAL, \$23,730. NINDS
- THIS RESEARCH REPRESENTS A STUDY OF THE EFFECTS OF ANTIMETABOLITES OF PHENYLALANINE UPON THE NERVOUS SYSTEM, WITH EMPHASIS UPON THE DEVELOPING NERVOUS SYSTEM. THE COMPOUNDS TO BE STUDIED ARE DL-4-FLUOROPHENYLALANINE, DL-4-CHLOROPHENYLALANINE, DL-4-METHYLPHENYLALANINE AND DL-4-PYRIDYL-ALANINE TOLYLALANINE.
- A376 PHOSPHOLIPID METABOLISM DURING DEVELOPMENT.** HD-02871-04; WEINHOLD, PAUL A.; UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN; 5/70-4/71; RENEWAL; \$15,718; NICHD.
- THIS RESEARCH PROPOSES TO DESCRIBE THE PHOSPHOLIPID METABOLISM OF LIVER AND LUNG DURING THEIR FUNCTIONAL DEVELOPMENT IN THE RAT.
- A380 PHYLOGENY AND ONTOGENY OF THE CEREBRAL CORTEX.** NS-3473-09, NOBACK, R., COLUMBIA UNIVERSITY, COLLEGE OF PHYSICIANS AND SURGEONS, CHARLES, NEW YORK, N.Y., 9/69-8/70, RENEWAL, \$18,655. NINDS
- THIS RESEARCH CONCERNS THE STUDY OF NEURONS OF THE CEREBRAL CORTEX (STAINED BY THE GOLGI TECHNIQUE) IN A SERIES OF MAMMALS INCLUDING TUPAIA AND OPOSSUM. FROM THESE OBSERVATIONS THE PHYLOGENY OF THESE CELLS WILL BE CONSTRUCTED. THE COMPARATIVE MORPHOLOGY OF THE CORTICORETICULAR AND CORTICOSPINAL FIBERS AND VISUAL PATHWAYS TO THE CORTEX ARE BEING STUDIED IN TUPAIA GLIS AND SOME LOWER PRIMATES.
- A385 PHYSIOLOGIC STUDIES IN NEWLY BORN HUMAN INFANTS.** HD-00747-08; OLIVER, THOMAS K. JR.; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 12/69-11/70; CONTINUATION; \$20,303; NICHD.
- THIS RESEARCH INVOLVES STUDIES OF THERMOREGULATION, ACID-BASE BALANCE IN HEALTH AND DISEASE, STUDIES OF INFANTS OF LOW BIRTH WEIGHT AND OF THE ALTERATION IN BODY FLUID COMPARTMENTS OF INFANTS BORN BY ELECTIVE CAESAREAN SECTION AS COMPARED TO THOSE BORN VAGINALLY.
- A386 PHYSIOLOGY OF GROWTH, ACID-BASE AND ENERGY METABOLISM.** HD-03993-02; WINTERS, ROBERT W.; COLUMBIA UNIVERSITY, NEW YORK, NEW YORK; 1/70-12/70; CONTINUATION; \$311,218; NICHD.
- THIS PROGRAM HAS AS ONE OF ITS PROJECTS A STUDY OF THE INFLUENCES OF VARIOUS FORMS OF THERAPY IN PATIENTS WITH RESPIRATORY DISTRESS SYNDROME. A RATIONAL PROGRAM OF THERAPY BASED ON THESE OBSERVATIONS IS PLANNED.
- A400 PRE-NATAL AND POST-NATAL MONOAMINES IN BRAIN AND HEART.** NS-7124-03, LICATA, RICHARD H., DESERT RESEARCH INSTITUTE, UNIVERSITY OF NEVADA, RENO, NEVADA, 2/69-1/70, CONTINUATION, \$4,606. NINDS
- THIS RESEARCH CONCERNS CAUSAL MECHANISMS AS A BASIS FOR SPECIFIC AND NON-SPECIFIC DEFECTS OF THE CENTRAL NERVOUS SYSTEM. THIS STUDY IS ORIENTED TOWARD A TOTAL BODY APPROACH WITH A VIEW TO RELATING SPECIFIC AND ASSOCIATED ANOMALIES AS A SYNDROMIC CONDITION.
- A405 PRODUCTION OF ABNORMAL MOVEMENTS OF NEUROLOGIC ORIGIN.** NS-6282-04, METTLER, FRED A., COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, NEW YORK, N.Y., 6/69-5/70, CONTINUATION \$21,414. NINDS
- THIS RESEARCH CONCERNS THE ELUCIDATION OF THE MECHANISMS, DAMAGE OF WHICH RESULTS IN ABNORMAL MOVEMENTS SUCH AS TREMORS OR CHOREOATHETOSIS AND WITH CHANGES IN MOTOR INNERVATION LEADING TO RESTRICTIONS OF JOINT ACTION.
- A406 PROGRAM FOR DEVELOPMENTAL BIOLOGY AT UCSD.** HD-03015-04; GROBSTEN, CLIFFORD; UNIVERSITY OF CALIFORNIA; SAN DIEGO, CALIFORNIA; 6/70-5/71; CONTINUATION; \$428,489; NICHD
- THE PURPOSE OF THIS PROJECT IS TO SUPPORT A BROAD PROGRAM OF STUDIES IN THE AREA OF DEVELOPMENT. THE MOST IMPORTANT OBJECTIVE IS TO INTEGRATE BASIC AND CLINICAL RESEARCH IN DEVELOPMENTAL BIOLOGY. THE RESEARCH IS CATEGORIZED INTO SIX MAJOR AREAS: DEVELOPMENTAL GENETICS, CYTODIFFERENTIATION, IMMUNOBIOLOGY, ORGANOGENESIS, REPRODUCTIVE BIOLOGY, AND DEVELOPMENTAL PHARMACOLOGY AND TERATOLOGY.
- A410 PSYCHOSOCIAL DEVELOPMENT IN PRIMATES.** HD-3915-02, MASON, WILLIAM A., TULANE UNIVERSITY, NEW ORLEANS, LOUISIANA, 9/69-8/70, CONTINUATION, \$118,145. NICHD
- IN THIS RESEARCH, DEVICES WILL BE USED TO SIMULATE SELECTED PROPERTIES OF REAL SOCIAL OBJECTS IN AN EFFORT TO CLARIFY THE RELATIONS BETWEEN CONGENITAL PATTERNS OF BEHAVIOR, SPECIFIC FEATURES OF THE SOCIAL ENVIRONMENT AND PSYCHOLOGICAL DEVELOPMENT. PARTICULAR ATTENTION WILL BE DIRECTED TOWARD TWO ISSUES: THE ROLE OF PERCEPTUAL FACTORS IN THE FORMATION OF FILIAL ATTACHMENT, AND THE EFFECTS OF DIFFERENT KINDS AND AMOUNTS OF SOCIAL STIMULATION ON SOCIAL AND EMOTIONAL DEVELOPMENT.
- A415 PULMONARY CAPILLARY FLOW IN INFANTS.** HD-4067-02, BRADY, JUNE P., UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIF., 2/70-1/71, CONTINUATION, \$18,359. NICHD
- THE PURPOSE OF THIS STUDY IS TO OBTAIN SERIAL MEASUREMENTS OF PULMONARY CAPILLARY FLOW IN NORMAL AND SICK INFANTS. THE CHANGES IN PULMONARY CAPILLARY FLOW THAT OCCUR IN NORMAL INFANTS DURING THE FIRST TWO WEEKS OF LIFE WILL BE DETERMINED. IN INFANTS WITH RESPIRATORY DISTRESS THE QUESTION OF WHETHER REDUCTION IN PULMONARY BLOOD FLOW OCCURS EARLY OR LATE WILL ALSO BE INVESTIGATED. METHODS WILL BE DEVELOPED FOR EVALUATING THE EFFECTS OF THERAPY.
- A420 DEVELOPMENT OF THE NERVOUS SYSTEM.** NS-3861-08, HICKS, SAMUEL P., UNIVERSITY OF MICHIGAN MEDICAL CENTER, ANN ARBOR, MICHIGAN, 9/69-8/70, RENEWAL, \$32,393. NINDS
- THIS RESEARCH CONCERNS THE EFFECTS OF RADIATION, VARIOUS ENVIRONMENTAL FACTORS, AND MUTANT GENES ON THE DEVELOPMENT OF STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM. ALTERATIONS IN STRUCTURE ARE STUDIED FROM THE HISTOMORPHOGENETIC VIEWPOINT, SOMETIMES USING TRITIATED THYMIDINE AUTORADIOGRAPHIC MONITORING, AND THE EFFECTS OF DIFFERENT DELETERIOUS FACTORS ARE COMPARED.
- A425 RADIOCOPPER AND RADIOIRON STUDIES IN WILSON'S DISEASE.** NS-7102-03, O'REILLY, SEAN, UNIVERSITY OF CALIFORNIA SAN FRANCISCO MEDICAL CENTER, SAN FRANCISCO, CALIFORNIA, 1/69-12/69, RENEWAL, \$29,935. NINDS
- THIS RESEARCH PROPOSES TO INVESTIGATE COPPER AND IRON METABOLISM USING RADIOACTIVE TRACERS, IN HOMOZYGOES AND HETEROZYGOES OF WILSON'S DISEASE.

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- A430 RED CELL AND SERUM FACTORS AS GENE MARKERS IN CHILDREN, HD-02723-02S1, DIAMOND, LOUIS K., BLOOD GROUPING LABORATORY OF BOSTON, INC., BOSTON, MASS., 7/69-11/69, CONTINUATION, \$3,578, NICHD**
THIS RESEARCH PROPOSES TO DETERMINE THE LOCATION OF STRUCTURAL AND/OR REFRACTORY GENES ON HUMAN AUTOSOMES USING 30 OR MORE RED CELL AGGLUTINOGENS AND 10 OR MORE PLASMA PROTEIN TYPES. THE BLOOD SAMPLES WILL BE OBTAINED FROM PATIENTS WITH CHROMOSOMAL ABERRATIONS CHARACTERIZED BY EITHER EXTRA OR DEFICIENT CHROMOSOMAL MATERIAL.
- A431 RENAL FUNCTION IN THE MATURING FETUS; HD-04460-01; SMITH, FRED G. JR.; UNIVERSITY OF CALIFORNIA; LOS ANGELES, CALIFORNIA; 6/70-5/71; INITIAL; \$45,579; NICHD**
THE MAJOR GOAL OF THIS INVESTIGATION IS TO STUDY THE PHYSIOLOGIC MATURATION OF THE FETAL LAMB KIDNEY AND TO QUANTITATE THE CONTRIBUTION OF THE FETAL KIDNEY IN COMPENSATING FOR VARIOUS TYPES OF FETAL DISTRESS. SPECIFICALLY, THE FOLLOWING ARE TO BE CONSIDERED: (1) THE RELATIVE RATES OF MATURATION OF GLOMERULAR FILTRATION AND RENAL TUBULAR FUNCTION, (2) THE EFFECTS OF INDUCED METABOLIC ACIDOSIS ON THE FETUS AND THE CONTRIBUTION OF THE FETAL KIDNEY IN COMPENSATING FOR FETAL ACIDOSIS, (3) THE EFFECTS OF INTRAUTERINE MATURATION ON THE RESPONSIVENESS OF THE FETAL KIDNEY TO ANTI-DIURETIC HORMONE AND ON THE FETUS'S OVERALL ABILITY TO REGULATE FLUID AND ELECTROLYTE BALANCE, AND (4) THE ROLE OF THE IMMATURE KIDNEY IN THE ETIOLOGY OF HYPERPHOSPHATEMIA AND TETANY OF THE NEWBORN INFANT AND DEVELOPING FETUS.
- A435 ROLE OF BRANCHED CHAIN AMINO ACIDS IN BRAIN MATURATION, NS-7588-03, COPENHAVER, JOHN H., UNIVERSITY OF NEBRASKA, LINCOLN, NEBR., 9/69-8/70, CONTINUATION, \$17,520, NINDS**
THIS RESEARCH WILL STUDY THE MECHANISM OF ACTION OF THE BRANCHED CHAIN AMINO ACIDS UPON THE DELAY IN MYELIN AND LIPID MATURATION IN BRAINS OF YOUNG RATS.
- A440 SEROTONIN AND GANGLIOSIDES IN BRAIN DEVELOPMENT, NS-8050-02, WILD, GAYNOR C., UNIVERSITY OF NEW MEXICO MEDICAL SCHOOL, ALBUQUERQUE, NEW MEXICO, 12/69-11/70, CONTINUATION, \$21,447, NINDS**
RESEARCH FOR FURTHER CLARIFICATION OF THE RELATIONSHIP BETWEEN MENTAL RETARDATION OF GALACTOSEMIA AND SEROTONIN FUNCTION BY ISOLATION AND CHARACTERIZATION OF NORMAL BRAIN GANGLIOSIDES EXHIBITING ACTIVITY IN BIOASSAY FOR SEROTONIN RECEPTOR IN GALACTOSEMIC RATS.
- A445 SOCIAL DEVELOPMENT AFTER MALNUTRITION IN INFANCY; HD-04863-01; ZIMMERMANN, ROBERT R., UNIVERSITY OF MONTANA; MISSOURI, MONTANA; 6/70-5/71; INITIAL; \$57,020; NICHD**
THE PRIMARY OBJECTIVE OF THIS PROPOSAL IS TO PROVIDE A DIRECT COMPARISON BETWEEN THE EFFECTS OF EARLY SOCIAL DEPRIVATION AND EARLY PROTEIN MALNUTRITION ON THE DEVELOPMENT OF SOCIAL BEHAVIOR IN THE RHESUS MONKEY. INFANTS ARE BEING REARED UNDER ONE OF THE FOLLOWING CONDITIONS FOR ONE YEAR: (1) NORMAL PROTEIN NUTRITION AND EXTENSIVE SOCIAL EXPERIENCE; (2) LOW PROTEIN NUTRITION AND EXTENSIVE SOCIAL EXPERIENCE; (3) NORMAL PROTEIN AND LIMITED SOCIAL EXPERIENCE; (4) LOW PROTEIN AND LIMITED SOCIAL EXPERIENCE. THE DEVELOPMENT OF LEARNING, CURIOSITY AND MANIPULATORY BEHAVIOR, AS WELL AS SOCIAL DEVELOPMENT, WILL BE ASSESSED DURING THE FIRST YEAR OF LIFE AND AFTER REHABILITATION.
- A446 SOCIAL AND EXPLORATORY BEHAVIOR IN THE HUMAN INFANT; HD-01107-07; RHEINGOLD, HARRIET LANGE; UNIVERSITY OF NORTH CAROLINA; CHAPEL HILL, NORTH CAROLINA; 6/70-5/71; CONTINUATION; \$46,765; NICHD**
THE PRINCIPLE AIM OF THIS STUDY IS TO INVESTIGATE THE PROCESS BY WHICH THE INFANT DETACHES HIMSELF FROM HIS MOTHER AND ACHIEVES PSYCHOLOGICAL INDEPENDENCE. A RELATED AIM IS TO DETERMINE TO WHAT EXTENT THE LEARNING THAT OCCURS DURING THE INFANTS' INDEPENDENT CONTACTS WITH THE ENVIRONMENT MAY ACCOUNT FOR THE FLEXIBILITY OF HIS BEHAVIOR. THE OBJECTIVES WILL BE PURSUED IN LABORATORY AND NATURALISTIC STUDIES WITH BOTH HUMAN AND ANIMAL INFANTS.
- A455 STUDIES IN TAY-SACHS DISEASE, NS-5124-07, BALINT, JOHN A., UNION UNIVERSITY, ALBANY MEDICAL COLLEGE, ALBANY, NEW YORK, 1/70-12/70, CONTINUATION, \$15,111, NINDS**
THIS RESEARCH CONCERNS HEMOGLOBIN FREE RED CELL GHOSTS PREPARED FROM NORMAL SUBJECTS, HETEROZYGOUS CARRIERS OF THE TAY-SACHS TRAIT AND PATIENTS WITH TAY-SACHS DISEASE. THE GHOSTS WILL BE ANALYZED FOR HEXOSAMINE CONTENT AMINO-ACID COMPOSITION AND TOTAL NITROGEN AND WILL BE SUBJECTED TO FRACTIONATION PROCEDURES TO ISOLATE THE (STRUCTURAL) PROTEINS, AND A GLYCOPROTEIN FRACTION.
- A459 STUDY OF IMP PYROPHOSPHORYLASES FROM SEVERAL TISSUES, NS-8771-01, BIEBER, ALLAN L., ARIZONA STATE UNIVERSITY, TEMPE, ARIZONA, 10/69-9/70, INITIAL, \$14,668, NINDS**
RESEARCH ON THE ENZYME IMP-GMP PYROPHOSPHATE PHOSPHORIBOSYLTRANSFERASE INVOLVED IN THE UTILIZATION OF PURINES BY BIOLOGICAL SYSTEMS. LACK OF THIS ENZYME IS ASSOCIATED WITH LESCH-NYHAN SYNDROME CHARACTERIZED BY MENTAL RETARDATION.
- A460 STUDY OF NERVOUS SYSTEMS GANGLIOSIDES, NS-4834-07, LEDEEN, ROBERT W., ALBERT EINSTEIN COLLEGE OF MEDICINE OF YESHIVA UNIVERSITY, BRONX, NEW YORK, 9/69-8/70, RENEWAL \$41,700, NINDS**
THIS RESEARCH PROPOSES TO STUDY BRAIN LIPID CHEMISTRY. THIS STUDY CONCERNS THE INTER-RELATIONSHIP OF STRUCTURE AND FUNCTION.
- A465 STUDY OF COPPER PROTEINS IN NORMAL AND DISEASED BRAIN, NS-1733-12, PORTER, HUNTINGTON, NEW ENGLAND MEDICAL CENTER HOSPITALS, BOSTON, MASS. 9/69-8/70 CONTINUATION \$26,142, NINDS**
THIS RESEARCH AIMS TO OBTAIN INFORMATION ON THE COPPER PROTEINS PRESENT IN NORMAL BRAIN AND IN IMMATURE AND ADULT LIVER AND THEIR BIOLOGICAL FUNCTIONS, AND THE TYPES OF ORGANIC COMBINATION IN WHICH COPPER IS PRESENT IN PATHOLOGICAL BRAIN AND LIVER.
- A470 STUDY OF DIFFUSE DEGENERATIVE CNS DISEASES, NS-4607-07, ZEMAN, WOLFGANG, INDIANA UNIVERSITY MEDICAL CENTER, INDIANAPOLIS, IND., 1/70-12/70, RENEWAL \$37,323, NINDS**
THIS RESEARCH CONCERNS BRAIN BIOPSIES TAKEN FROM CAREFULLY SELECTED AND EXHAUSTIVELY EXAMINED PATIENTS SUFFERING FROM CHRONIC DEGENERATIVE DISEASES. THESE BIOPSIES ARE OBTAINED FOLLOWING RIGIDLY CONTROLLED PRECAUTIONS AND ARE TREATED FOR ELECTRON MICROSCOPIC STUDY, SLIDE HISTOCHEMISTRY, AND MICRO-CHEMISTRY.
- A475 STUDIES ON THE RESPIRATORY DISTRESS SYNDROME; HD-03554-03; CROPP, GERD J.; UNIVERSITY OF COLORADO; DENVER, COLORADO; 5/70-4/71; CONTINUATION; \$16,338; NICHD**
THIS RESEARCH PROPOSES TO APPLY THERMAL DILUTION TECHNIQUES TO THE QUANTITATIVE STUDY OF SHUNTS IN THE CIRCULATION SYSTEM. USING THESE TECHNIQUES THE EFFECTS OF VARIOUS FORMS OF THERAPY CAN BE EVALUATED.
- A476 STUDIES IN EXPERIMENTAL ERYTHROBLASTOSIS FETALIS; HD-01385006; JACKSON, BENJAMIN, T.; BOSTON UNIVERSITY; BOSTON, MASSACHUSETTS; 1/70-12/70; CONTINUATION; \$45,046; NICHD**
THIS RESEARCH CONCERNS THE DEVELOPMENT AND FURTHER STUDY AND DEFINITION OF AN ANIMAL MODEL FOR IN UTERO FETAL HEMOLYTIC DISEASE, AND WILL BE CARRIED OUT IN DOGS AND BASED UPON THE PREVIOUSLY WELL DESCRIBED BLOOD GROUP SYSTEMS IN THAT SPECIES.
- A480 STUDIES IN GENETICALLY-DETERMINED NEUROLOGICAL DISEASES, NS-7701-04, (FORMERLY 3255-07), AUSTIN, JAMES H., UNIVERSITY OF COLORADO MEDICAL CENTER, DENVER, COLORADO, 9/69-8/70 CONTINUATION, \$56,852, NINDS**
THIS RESEARCH PROPOSES TO CLARIFY THE CAUSE OF SEVERAL GENETICALLY DETERMINED DISEASES OF MYELIN PARTICULARLY METACHROMATIC LEUKODYSTROPHY AND GLOBOID (KRABBE) LEUKODYSTROPHY. THE STUDIES ARE BIOCHEMICAL, HISTOLOGICAL, CLINICAL, AND GENETIC IN SCOPE.
- A481 SURFACTANT AND HYALINE MEMBRANE DISEASE; HD-05018-01; LEQUIRE, VIRGIL S.; VANDERBILT UNIVERSITY; NASHVILLE, TENNESSEE; 5/70-4/71; INITIAL; \$30,647; NICHD**
THIS IS A PROJECT TO STUDY PULMONARY SURFACTANT AND HYALINE MEMBRANE DISEASE. THE SPECIFIC AIMS ARE (1) TO OBSERVE THE MORPHOLOGICAL VARIATIONS INDUCED BY FETAL INSULT USED TO INDUCE HYALINE MEMBRANE DISEASE IN THE LAMB AND CORRELATE THESE VARIATIONS WITH SURFACTANT ACTIVITY. (2) TO LOCALIZE THE SITES OF

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- PHOSPHOLIPID SYNTHESIS (SURFACE ACTIVE MATERIALS) IN THE LUNG OF THE FETAL LAMB AT DIFFERENT GESTATIONAL AGES AND CORRELATE THEIR PRESENCE WITH SURFACTANT ACTIVITY, AND (3) TO CORRELATE THE HISTOLOGIC EVIDENCE FOR SURFACE ACTIVE MATERIALS WITH THE PRESENCE OR ABSENCE OF SURFACTANT IN LUNGS OF INFANTS DYING AT VARIOUS STAGES OF HYALINE MEMBRANE DISEASE. THE LONG TERM GOALS ARE TO DEFINE THE PATHOGENESIS OF RESPIRATORY DISTRESS IN NEWBORN INFANTS WITH PARTICULAR EMPHASIS ON HYALINE MEMBRANE DISEASE IN PREMATURES.**
- A482 STUDISSION ON MUCOPOLYSACCHARIDES IN BRAIN MH-17018-01 MARGOLIS, RICHARD U., NEW YORK UNIVERSITY MEDICAL CENTER, NEW YORK, N.Y., 9/1/69-8/31/70, INITIAL, \$29,627. NIMH**
THIS IS A STUDY OF ACID MUCOPOLYSACCHARIDES TO DETERMINE THEIR STRUCTURE, DISTRIBUTION, AND METABOLISM. PARTICULARLY IN RELATION TO THE BLOOD-BRAIN BARRIER. IT IS HOPED THAT THE RESULTS MAY CLARIFY THE ETIOLOGY OF MENTAL RETARDATION OF HURLER'S SYNDROME.
- A490 THE GROWTH OF COGNITIVE ABILITIES IN YOUNG CHILDREN MH-8498-07. BLANK, MARION S., YESHIVA UNIVERSITY COLLEGE OF MEDICINE, NEW YORK, 5/1/70-4/30/71, RENEWAL, \$30,575. NIMH**
THIS RESEARCH PROPOSES TO INVESTIGATE THE ROLE OF CONCEPTS IN PROBLEM SOLVING IN NURSERY SCHOOL AGE CHILDREN.
- A495 THE PATHOGENESIS OF HEREDITARY NEUROLOGICAL DISORDERS, NS-6448-05, MEIER, HANS, JACKSON LABORATORY, BAR HARBOR, MAINE, 1/70-12/70, CONTINUATION, \$31,162. NINDS**
THIS RESEARCH STUDIES THE ANALOGIES AND THE DIFFERENCES BETWEEN HUMAN AND MOUSE NEUROLOGICAL AND NEUROMUSCULAR DISEASES. STUDIES OF PATHOGENESIS AND PATHOLOGICAL LESIONS ARE BEING DONE.
- A500 THE ROLE OF THE THYROID GLAND IN BRAIN METABOLISM, (1) NS-6895-03, (2) NS-6895-03S1, ARCHIBALD, REGINALD M., ROCKEFELLER UNIVERSITY, NEW YORK, NEW YORK, (1) 9/68-12/69 (2) 5/69-12/69, CONTINUATION (1) \$30,054, (2) \$7,803. NINDS**
THIS RESEARCH CONCERNS THE ROLE OF THE THYROID GLAND IN BRAIN FUNCTION FROM 5 APPROACHES: THE INFLUENCE OF THE THYROID ON BRAIN TISSUE OXIDATIVE METABOLISM, OXIDATIVE PHOSPHORYLATION, BIOSYNTHESIS OF ACETYLCHOLINE AND THE ACTIVITY OF CHOLINESTERASE IN BRAIN TISSUE (ROLE OF ELECTROLYTES) AND THE EFFECT OF THE THYROID ON AMINO ACID INCORPORATION INTO BRAIN PROTEIN.
- A505 THIAMINE METABOLISM IN LOW BIRTH WEIGHT INFANTS, HD-3908-02, BEARD, ALICE GAMBLE, UNIVERSITY OF ARKANSAS, LITTLE ROCK, ARKANSAS, 9/69-8/70, CONTINUATION, \$21,157. NICHD**
THIS STUDY IS AN INVESTIGATION OF THE EFFECT OF IMMATURITY, WITH OR WITHOUT ASSOCIATED PERINATAL DISTURBANCES, ON THE NEED FOR THIAMINE IN THE NEONATAL PERIOD. THE FOLLOWING SUBJECTS WILL BE STUDIED: INFANTS WHO HAVE PERINATAL PROBLEMS SUCH AS ANOXIA, ACIDOSIS, HYPOVOLEMIA, AND RESPIRATORY DISTRESS; INFANTS OF DIABETIC OR TOXEMIC MOTHERS; AND INFANTS WHO ARE SMALL FOR THEIR GESTATIONAL AGE.
- A530 VIRAL HEMORRHAGIC ENCEPHALITIS, NS-7019-04, NATHANSON, NEAL, JOHNS HOPKINS UNIVERSITY SCHOOL OF HYGIENE AND PUBLIC HEALTH, BALTIMORE, MARYLAND, 2/70-1/71, RENEWAL, \$25,787. NINDS**
THIS RESEARCH PROPOSES TO CHARACTERIZE THE PHYSICAL, CHEMICAL, ANTIGENIC, AND BIOLOGICAL PROPERTIES OF THE HER AGENT, AND TO STUDY THE PATHOGENESIS OF HEMORRHAGIC ENCEPHALITIS PRODUCED BY THE HER AGENT, EXPLOITING THE UNIQUE OPPORTUNITY PRESENTED BY WHAT MAY BE THE FIRST ISOLATION OF A MAMMALIAN VIRUS WHICH REGULARLY PRODUCED HEMORRHAGIC ENCEPHALITIS.
- A531 TRANSPLACENTAL PASSAGE OF FETAL ERYTHROCYTES, HD-00505-11, COHEN, FLOSSIE, CHILD RESEARCH CENTER OF MICHIGAN, DETROIT, MICHIGAN, 4/70-3/71, RENEWAL, \$49,897. NICHD**
THIS RESEARCH CONCERNS THE TRANSPLACENTAL PASSAGE OF FETAL CELLS AND ITS RELATIONSHIP TO ISOIMMUNIZATION OF PREGNANCE. SEVERAL WOMEN ARE BEING STUDIED DURING CONSECUTIVE PREGNANCIES. PREVIOUSLY SENSITIZED WOMEN REQUIRING AMNIOCENTESIS AND THE MORE SEVERE ONES WHERE THE INFANTS REQUIRE INTRAUTERINE TRANSFUSION ARE INCLUDED IN THE STUDY.
- A532 ULTRASTRUCTURE AND QUANTITATION OF SURFACTANT, HD-04434-01A1; BALIS, JOHN U., LOYOLA UNIVERSITY, HINES, ILLINOIS, 6/70-5/71; INITIAL, \$19,484. NICHD**
SURFACTANT DEFICIENCY WHICH IS A MAJOR UNDERLYING DEFECT IN HYALINE MEMBRANE DISEASE (HMD) AND IN OTHER PATHOLOGIC CONDITIONS OF THE LUNG. ONE OF THE SPECIFIC AIMS IS TO EVALUATE, CORRELATE AND STANDARDIZE A NEW SET OF PARAMETERS FOR THE IDENTIFICATION AND QUANTIFICATION OF PULMONARY SURFACTANT ACTIVITY IN EXTRACTS FROM DEVELOPING AND MATURE ANIMAL LUNGS; IN LUNG WASHINGS MIXED WITH DIFFERENT AMOUNTS OF SERUM, PLASMA AND FIBRINOGEN; IN LUNG EXTRACTS FROM NEWBORN INFANTS WITH AND WITHOUT HMD; AND IN HUMAN AND ANIMAL AMNIOTIC FLUID. A SECOND MAJOR OBJECTIVE IS TO STUDY AND CORRELATE STRUCTURAL, FUNCTIONAL AND BIOCHEMICAL CHARACTERISTICS OF (A) REVERSIBLE AND IRREVERSIBLE FORMS OF SURFACTANT DEFICIENCY DUE TO IN VITRO INACTIVATION OF SURFACTANT AND (B) LUNG AND SURFACTANT CHANGES IN FETAL AND NEWBORN ANIMALS.
- A533 ULTRASTRUCTURAL STUDIES OF THE LUNG, HD-02459-04; KIKKAWA, YUTAKA; YESHIVA UNIVERSITY, NEW YORK, NEW YORK, 9/69-8/70; RENEWAL, \$72,306; NICHD**
THIS RESEARCH CONCERNS A COMBINED BIOCHEMICAL AND MORPHOLOGICAL STUDY USING RADIOACTIVE PALMITIC ACID TO ASSESS THE PATHWAY OF RELATIONSHIP OF MITOCHONDRION AND INCLUSION BODY AND THE CHEMICAL NATURE OF THE INCLUSION BODY AND THE SURFACE LINING LAYER. PALMITATE IN THE LUNG, PARTICULARLY IN TYPE II EPITHELIAL CELL THE
- A535 VIRUS-CELL INTERACTION REPLICATION AND DIFFERENTIATION, NS-5545-06, MARGOLIS, GEORGE, DARTMOUTH MEDICAL SCHOOL, DARTMOUTH COLLEGE, HANOVER, NEW HAMPSHIRE, 1/70-12/70, CONTINUATION, \$75,098. NINDS**
THIS RESEARCH CONCERNS A GROUP OF PICODNA VIRUSES WHICH EXHIBIT A PROPENSITY FOR CELLS WITH ACTIVE DNA SYNTHESIS ATTENDING MITOSIS. THESE VIRUSES EXERT A REMARKABLY SELECTIVE ACTION ON THE DEVELOPING NERVOUS SYSTEM. ATTACKING PARTICULARLY THE ACTIVELY PROLIFERATING EXTERNAL GERMINAL LAYER OF THE CEREBELLUM, AND RESULTING IN AN INTRACTABLE ATAXIA BECAUSE OF A HYPOPLASIA OF THE GRANULAR LAYER.
- A540 WORKSHOP IN TERATOLOGY AS RELATED TO TOXICOLOGY, HD-04834-01, NEWBURGH, ROBERT W., OREGON STATE UNIVERSITY, CORVALLIS, OREGON, 6/70-7/71; INITIAL, \$9,401; NICHD**
THIS GRANT IS CONCERNED WITH THE ESTABLISHMENT OF WORKSHOP IN ORDER TO EVALUATE RESEARCH IN THE AREA OF TOXICOLOGY AS IT RELATES TO TERATOLOGY. DURING THE COURSE OF THE WORKSHOP IT IS HOPED THAT RESEARCH AREAS OF FUTURE CONCERN WILL BE DEFINED. ALL DELIBERATIONS WILL BE RECORDED WITH THE POSSIBILITY IN MIND THAT MATERIAL MAY BE DERIVED FOR PUBLICATION.

EPIDEMIOLOGY

- B001 CHILD HEALTH AND DEVELOPMENT STUDIES, HD-00718-11; J. YERUSHALMY, KAISER FOUNDATION HOSPITALS, OAKLAND, CALIFORNIA, 4/70-3/71; CONTINUATION, \$498,843; NICHD**
THIS RESEARCH PROPOSES TO INVESTIGATE THE RELATIONSHIP OF MEDICAL, GENETIC, BIOLOGIC, AND ENVIRONMENTAL FACTORS IN THE PARENTS-- INCLUDING EVENTS DURING PREGNANCY, LABOR AND DELIVERY-- TO NORMAL AND ABNORMAL DEVELOPMENT OF OFFSPRING AND TO OCCURRENCE OF NEUROLOGICAL ABNORMALITIES.
- B002 CLINICAL AND LABORATORY STUDIES ON RUBELLA, HD-00707-06; SCHIFF, GILBERT MARTIN; UNIVERSITY OF CINCINNATI, CINCINNATI, OHIO, 2/70-1/71; CONTINUATION, \$44,129; NICHD**
THIS RESEARCH CONCERNS DEVELOPMENT OF MORE PRACTICAL TESTS FOR RUBELLA, SERIOLOGICAL SURVEYS TO DETERMINE IMMUNE STATUS OF THE GENERAL POPULATION TO PROVIDE INFORMATION FOR FUTURE PROPHYLACTIC PROGRAMS, LONGITUDINAL STUDIES ON NEW BORN TO DETERMINE THE INCIDENCE OF CONGENITAL RUBELLA, EVALUATION OF THE EFFICACY OF GAMMA GLOBULIN TO PREVENT FETAL ABNORMALITIES, AND STUDIES OF EPIDEMIOLOGY.
- B005 EPIDEMIOLOGY OF MENTAL RETARDATION IN A RURAL COUNTY H-34 IMRE, PAUL D., JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND, 12/68-11/30/70 CONTINUATION, \$50,000. HSMHA-MCHS**
THIS RESEARCH PROPOSES TO UNCOVER EVERY CASE OF MENTAL RETARDATION IN AN ENUMERATED AND CLINICALLY

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- SCREENED POPULATION OF A POLITICAL SUBDIVISION IN MARYLAND. HOUSEHOLDS WITH A RETARDED PERSON WILL BE EXTENSIVELY INVESTIGATED ON SOCIAL, ECONOMIC, MEDICAL, EDUCATIONAL AND VOCATIONAL VARIABLES AND WILL BE COMPARED WITH CONTROL HOUSEHOLDS.
- B006 GALACTOSEMIA GENETICS, INCIDENCE AND PATHOPHYSIOLOGY; HD-01974-05; BEUTLER, ERNEST; CITY OF HOPE MEDICAL CENTER, DUARTE, CALIFORNIA; 2/70-1/71; CONTINUATION; \$62,260; NICHD.**
- THIS RESEARCH CONCERNS THE SCREENING FOR GALACTOSE-1-PHOSPHATE URIDYL TRANSFERASE DEFICIENCY AND MUTATION EFFECTING THE ELECTROPHORETIC MOBILITY OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE IN THE OFFSPRING OF MICE BEING TREATED WITH RADIATION OR THE CHEMICAL MUTAGENETHYL METHANE SULFONATE. THE CHROMATIC GRAPHIC CHARACTERISTICS OF HUMAN RED CELL GALACTOSE-1-PHOSPHATE URIDYL TRANSFERASE ARE UNDER STUDY.
- B010 HUMAN CAROMOSOMAL DEFECTS-EPIDEMIOLOGY AND ETIOLOGY; HD-00622-06, ROBINSON, ARTHUR, UNIVERSITY OF COLORADO, DENVER, COLORADO, 7/69-6/71, CONTINUATION, \$22,751. NICHD**
- THIS RESEARCH PROPOSES TO STUDY THE FREQUENCY OF OCCURRENCE OF CHROMOSOMAL ABNORMALITIES IN HUMAN AND MAMMALIAN CELLS IN VITRO AND IN VIVO TO DETERMINE CAUSATIVE AGENTS AND THEIR MODE OF ACTION, AND TO ESTABLISH CHROMOSOMAL AND BIOCHEMICAL MARKERS WHICH WILL PERMIT ANALYSIS OF THESE ACTIONS.
- B011 SEQUELAE OF DUTCH FAMINE; HD-04454-01; STEIN, ZENA A.; NEW YORK STATE DEPT. MENTAL HYGIENE; NEW YORK, NEW YORK; 9/69-8/70; INITIAL; \$64,053; NICHD**
- THIS IS A STUDY DESIGNED TO TAKE ADVANTAGE OF A NATURALLY OCCURRING EXPERIMENT. THE CRUCIAL EVENT - A FAMINE - TOOK PLACE IN THE WESTERN PART OF THE NETHERLANDS FROM SEPTEMBER 1944 UNTIL MAY 1945. THE RESULTING MALNUTRITION AS IT RELATES TO TIME OF CONCEPTION, GESTATION, AND EARLY INFANCY IS THE INDEPENDENT VARIABLE OF PRIMARY INTEREST. THE DEPENDENT VARIABLES TO BE EXAMINED INCLUDE MENTAL RETARDATION, PSYCHOLOGICAL AND NEUROLOGICAL IMPAIRMENT, PHYSICAL DEVELOPMENT, FERTILITY AND EFFICIENCY IN CHILD-BEARING, GENETIC CHANGE, AND MORTALITY.
- B013 THE INCIDENCE OF FETAL ERRORS OF GALACTOSE METABOLISM; HD-04861-01; MELLMAN, WILLIAM J.; UNIVERSITY OF PENNSYLVANIA; PHILADELPHIA; PENNSYLVANIA; 6/70-5/71; INITIAL; \$23,617; NICHD**
- THIS RESEARCH IS CONCERNED WITH A DETERMINATION OF THE INCIDENCE OF GALACTOSEMIA IN HOMOZYGOUS FETUSES DUE TO A DEFICIENCY OF GALACTOKINASE OR GALACTOSE-1-PHOSPHATE URIDYL TRANSFERASE. FROM A SAMPLE OF 2000 PREGNANT WOMEN THE CARRIER STATE OF DEFICIENCY GENES FOR THESE TWO ENZYMES WILL BE IDENTIFIED. METABOLIC CONSEQUENCES OF THE CARRIER STATE FOR THESE GENES WILL BE ANALYZED AT VARIOUS STAGES IN THE PREGNANT WOMEN AND FETUSES.
- B015 SOCIOBEHAVIORAL STUDY CENTER FOR MENTAL RETARDATION MH-8667-06, EYMAN, RICHARD K., PACIFIC STATE HOSPITAL, POMONA, CALIFORNIA, 10/1/69-9/30/70, RENEWAL, \$438,405. NIMH**
- THIS RESEARCH PROPOSES TO STUDY THE PROGNOSIS OF THE MENTALLY RETARDED INDIVIDUAL IN HIS DEVELOPMENT AS RELATED TO INSTITUTIONAL LIFE, HIS INTERACTION WITH HIS FAMILY AND WITH GREATER SOCIAL STRUCTURES IN THE COMMUNITY.
- B020 THE EPIDEMIOLOGY OF MATERNAL-NEONATAL INFECTIONS; HD-03367-02; ALEXANDER, E. RUSSELL; UNIVERSITY OF WASHINGTON; SEATTLE WASHINGTON, WASHINGTON; 9/69-8/70; CONTINUATION; \$69,531; NICHD.**
- THESE STUDIES ARE DESIGNED TO EVALUATE THE IMPORTANCE OF CERTAIN MATERNAL INFECTIONS DURING PREGNANCY, TO DEFINE THE EPIDEMIOLOGICAL PATTERN OF THEIR OCCURRENCE, AND TO DETERMINE THE RISK AND CHARACTER OF SUBSEQUENT DISEASE IN THE INFANT. INITIAL STUDIES ARE PRIMARILY CONCERNED WITH CYTOMEGALOVIRUS, HERPESVIRUS, AND TRACHOMA-INCLUSION CONJUNCTIVITIS AGENTS.
- THIS IS A STUDY OF A NEW DISORDER OF AMINO ACID METABOLISM IN WHICH LEUKOPENIA, MENTAL RETARDATION, AND RECURRENT EPISODES OF KETOSIS HAVE BEEN ASSOCIATED WITH ELEVATED LEVELS OF GLYCINE IN THE BLOOD, URINE, AND CEREBROSPINAL FLUID. THE INTERRELATIONSHIPS OF AMINO ACIDS IN THIS CONDITION AND IN OTHER METABOLIC DISORDERS WILL BE INVESTIGATED. OTHER EXAMPLES OF PREVIOUSLY UNDESCRIBED ERRORS OF AMINO ACID AND PURINE METABOLISM WILL BE INVESTIGATED AS THEY BECOME AVAILABLE.
- C015 AMINE METABOLISM IN PKY AND MENTAL DISORDERS, HD-4113-02, BLAU, KARL F., UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, N.C., 2/70-1/71, CONTINUATION, \$19,831. NICHD**
- THE AIM OF THIS RESEARCH IS TO COMPARE NORMAL BRAIN AMINE METABOLISM TO THAT IN PHENYLKETONURIA, AND IN CLINICAL DEPRESSION. OPPORTUNITIES MAY ALSO ARISE TO APPLY THE PROCEDURES IN THIS RESEARCH TO SIMILAR STUDIES OF OTHER MENTAL DISORDERS, PARTICULARLY GALACTOSEMIA AND SCHIZOPHRENIA.
- C026 AUTONOMIC ACTIVITY IN MENTALLY DEFECTIVES AND NORMALS; HD-02744-03; CLAUSEN, JOHS; NEW YORK STATE DEPARTMENT MENTAL HYGIENE; NEW YORK, NEW YORK; 8/69-7/70; CONTINUATION; \$18,321; NICHD**
- THE MAJOR OBJECTIVE OF THIS RESEARCH IS TO DETERMINE THE DIFFERENCES IN AUTONOMIC FUNCTIONING OF MENTALLY DEFECTIVES AND NORMALS. G.S.R., SYSTOLIC BLOOD PRESSURE, AND HEART RATE ARE AMONG THE MEASUREMENTS OBTAINED FROM SUBJECTS WITH PHENYLKETONURIA AND DOWN'S SYNDROME. ATTEMPTS WILL BE MADE TO CORRELATE AUTONOMIC ACTIVITY AND I.Q. LEVEL.
- C029 ANALYSIS OF BRAIN ELECTRICAL ACTIVITY OF INFANTS; NS-8141-01A1 AND -01A1S1, LOWENBERG, EDWIN C., UNIVERSITY OF NEBRASKA, LINCOLN, NEBRASKA, 6/69-8/70 EXTEND TO 4/71 (-01A1), AND 6/69-8/70 (-01A1S1), INITIAL, \$11,245 (-01A1) AND \$3,143 (-01A1S1). NINDS**
- RESEARCH ON MENTAL RETARDATION AND PROBLEMS RELATED TO THE DEVELOPMENT OF THE CNS IN INFANTS BY DEVELOPING METHODS IN ANALYZING AVERAGED EVOKED POTENTIALS RECORDING BRAIN ELECTRICAL ACTIVITY.
- C040 THE BEHAVIORAL BIOLOGY LABORATORY; HD-04335-02; CHAPMAN, LORING; UNIVERSITY OF CALIFORNIA; DAVIS, CALIFORNIA; 6/70-5/71; CONTINUATION; \$145,643; NICHD.**
- THIS PROJECT IS INVESTIGATING BIOLOGICAL, BEHAVIORAL, AND ENVIRONMENTAL METHODS FOR OPTIMIZING OR IMPROVING HUMAN BEHAVIORAL CAPACITY. THE GOAL IS TO COMPREHEND, IDENTIFY, AND REDUCE OR AVOID BIOLOGICAL AND SOCIO-ENVIRONMENTAL CIRCUMSTANCES, ENCOUNTERED IN THE SYNDROMES OF MENTAL RETARDATION, WHICH IMPAIR THESE FUNCTIONS OR INTERFERE WITH THEIR FULL DEVELOPMENT.
- C050 AMMONIA, BILIRUBIN, AND LOW THIAMINE ENCEPHALOPATHIES, NS-5841-05, AND METABOLIC ENCEPHALOPATHIES, NS-5841-05S1, SCHENKER, STEVEN, UNIVERSITY OF TEXAS SOUTHWEST MEDICAL SCHOOL, DALLAS, TEXAS, 9/68-4/70, RENEWAL, \$29,069(-05), \$11,642(-05S1). NINDS**
- THIS RESEARCH PROPOSES TO STUDY THE INTERFERENCE WITH CEREBRAL ENERGY METABOLISM DUE TO EXCESS NH3 AS A CAUSE OF HEPATIC ENCEPHALOPATHY.
- C060 BIOCHEMISTRY OF HUMAN CHROMOSOMAL ANEUPLOIDY; HD-00588-08; MELLMAN, WILLIAM J.; UNIVERSITY OF PENNSYLVANIA; PHILADELPHIA, PENNSYLVANIA; 6/70-5/71; CONTINUATION; \$33,359; NICHD.**
- THIS RESEARCH CONCERNS FIBROBLAST CELLS DERIVED FROM THE SKIN OF PATIENTS WITH ANEUPLOIDY AND BIOCHEMICALLY DEFINED GENE MUTATIONS ESTABLISHED IN LONG TERM CULTURE. THESE CELL CULTURES ARE BEING TESTED FOR THE PRESENCE OF BIOCHEMICAL DEFECTS.
- C065 BIOCHEMICAL AND MOLECULAR BASIS OF MENTAL DISEASE, HD-01594-05S1, SHAW, KENNETH N.F., CHILDREN'S HOSPITAL OF LOS ANGELES, LOS ANGELES, CALIFORNIA, 5/70-5/71, CONTINUATION, \$3,126. NICHD**
- THIS RESEARCH PROPOSES TO CONTINUE SCREENING OF URINES FROM MENTALLY RETARDED PATIENTS FOR METABOLIC ABNORMALITIES WITH THE USE OF CHEMICAL TESTS AND PAPER CHROMATOGRAPHY. PATIENTS FOUND TO BE ABNORMAL WILL BE INVESTIGATED IN MORE DETAIL WHEN EVALUATION INDICATES THAT USEFUL BIOCHEMICAL, CLINICAL OR THERAPEUTIC INFORMATION MAY BE OBTAINED.

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- C005 AMINO ACID INTERRELATIONS IN HUMAN METABOLIC DISEASE; HD-04608-02; NYHAN, WILLIAM L.; UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA; 6/70-5/71; RENEWAL; \$63,997; NICHD.**

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- C075 BIOCHEMICAL DEFECTS RELATED TO CONGENITAL ANOMALIES, HD-03448-03, SCHAFER, IRWIN A., CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, 9/69-8/70, CONTINUATION, \$36,117. NICHD**
THIS RESEARCH PROPOSES TO GAIN AN UNDERSTANDING OF THE MOLECULAR MECHANISMS OF ACTION OF TERATOGENIC AGENTS, AND RELATE THIS TO THE PRODUCTION OF SPECIFIC HUMAN MALFORMATIONS.
- C080 BIOCHEMICAL STUDIES OF MYELINIZATION NS-8712-02 FORMERLY NS-5300, MCKHANN, GUY M., JOHNS HOPKINS HOSPITAL, BALTIMORE, MARYLAND 1/70-12/70, RENEWAL, \$18,630. NINDS**
INVESTIGATING THE SYNTHESIS OF LIPID COMPONENTS OF MYELIN BY THE ISOLATION AND CHARACTERIZATION OF ENZYMES OF BRAIN INVOLVED IN THE SYNTHESIS OF INDIVIDUAL LIPIDS, PARTICULARLY GALACTOLIPIDS, AND THE CHARACTERIZATION OF SOLUBLE LIPOPROTEINS OF BRAIN.
- C085 BIOCHEMISTRY OF SPHINGOSINE AND SPHINGOLIPIDS, NS-6770-03 AND NS-6770-03S2, MOSCATELLI, EZIO A., UNIV. OF TEXAS SOUTHWESTERN MEDICAL SCHOOL, DALLAS, TEXAS, 9/68-4/70 NS-6770-03 CONTINUATION \$10,376, 10/69-4/70, NS-6770-03S2, \$6,365. NINDS**
THIS RESEARCH FOCUSES UPON SPHINGOSINE-BASE COMPOSITIONS AND OTHER COMPOSITIONAL DATA TO BE ACCUMULATED ON SPHINGOLIPIDS OF NORMAL MATURE, NORMAL IMMATURE, AND DISEASED HUMAN BRAIN. SIMILAR STUDIES WILL BE MADE OF SPHINGOLIPIDS OF NERVOUS AND OTHER TISSUES OF VARIOUS SPECIES.
- C100 BRAIN BARRIER SYSTEM MECHANISMS FOR AMINO ACIDS, NS-4360-08, LAJTHA, ABEL, RESEARCH INSTITUTE FOR NEUROCHEMISTRY AND DRUG ADDICTION, NEW YORK, N.Y., 1/70-12/70, CONTINUATION, \$38,636. NINDS**
THE PURPOSE OF THIS RESEARCH IS TO INVESTIGATE THE BASIC MECHANISMS OF AMINO ACID TRANSPORT AND THE MECHANISMS BY WHICH TRANSPORT IS ALTERED.
- C105 BRAIN DEVELOPMENT IN NORMAL AND MUTANT MICE, NS-8359-02, (NS-3262 AND NB-4792 COMBINED), SIDMAN, RICHARD L., HARVARD MEDICAL SCHOOL, BOSTON, MASS., 1/70-12/70, CONTINUATION, \$149,820. NINDS**
THE RESEARCH INVOLVES THE STUDY OF MICE WITH INHERITED DISEASES OF THE BRAIN, PARTICULARLY DISEASES THAT AFFECT THE BRAIN WHILE IT IS FORMING. THE BEHAVIOR OF DEVELOPING BRAIN CELLS IS ANALYZED IN ORDER TO GIVE NEW IDEAS ON NORMAL BRAIN DEVELOPMENT AND TO SUGGEST MECHANISMS OF HUMAN DISEASES CAUSING MENTAL RETARDATION.
- C110 BRAIN FUNCTION AND THE METABOLISM OF MACROMOLECULES, NS-7457-04, WILSON JOHN E., UNIVERSITY OF NORTH CAROLINA SCHOOL OF MEDICINE, CHAPEL HILL, N.C., 3/70-2/71, CONTINUATION, \$35,087. NINDS**
THIS RESEARCH PROPOSES TO DETERMINE THE INFLUENCE OF ENVIRONMENTAL CHANGES, AND OF RESPONSES TO THESE CHANGES, ON THE METABOLISM OF MACROMOLECULES OF THE CENTRAL NERVOUS SYSTEM. THE ULTIMATE GOAL IS TO DETERMINE THE FUNCTIONS OF RNA AND PROTEIN IN LEARNING, MEMORY-HABITUATION, IMPRINTING AND MOTIVATION.
- C115 BRAIN FUNCTIONS IN METABOLIC DISORDERS, NS-4928/06, POSNER, JEROME B., CORNELL UNIVERSITY MEDICAL COLLEGE, NEW YORK, N.Y., 9/69-8/70, CONTINUATION, \$54,844. NINDS**
THIS RESEARCH PROPOSES TO INVESTIGATE IN METABOLIC DISEASES RELATIONSHIPS BETWEEN THE BRAIN'S BEHAVIORAL, ELECTRICAL AND BIOCHEMICAL FUNCTION AND SYSTEMIC CHEMICAL ABNORMALITIES.
- C130 CELL ORGANELLE DYSFUNCTION IN NEUROLOGICAL DISEASE NS-8276-02, HERMAN, MARY M., STANFORD UNIVERSITY, STANFORD, CALIFORNIA, 2/70-1/71, CONTINUATION, \$21,090. NINDS**
RESEARCH ON CELL ORGANELLE DYSFUNCTION IN METABOLIC AND 'DEGENERATIVE' CNS DISEASES INCLUDING GLYCOGEN STORAGE DISEASE TYPE II, METACHROMATIC LEUKODYSTROPHY, GARGOYLISM, AND TAY-SACHS DISEASE AS WELL AS KRABBE'S DISEASE AND JUVENILE LIPIDOSIS ASSOCIATED WITH LYSOSOMAL ABNORMALITY.
- C135 CEREBRAL ENZYMES IN NORMAL AND CONVULSIVE STATES, NS-6294-05, SELLINGER, O.Z., UNIVERSITY OF MICHIGAN SCHOOL OF MEDICINE, ANN ARBOR, MICH., 6/70-5/71, CONTINUATION, \$52,158. NINDS**
- C170 CNS AND NUTRITIONAL INFLUENCES OF AMINO ACIDS, IN PKU MR-07002-05, OLIVER, WILLIAM J., UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH., 12/1/64-12/31/69, RENEWAL, \$14,728. SRS-DMR**
THIS RESEARCH FOCUSES UPON THE CENTRAL NERVOUS SYSTEM AND NUTRITIONAL EFFECTS OF LOW PHENYLALANINE TREATMENT OR THE LACK OF IT ON THE VARIABLE MANIFESTATIONS OF PHENYLKETONURIA IN 54 PATIENTS. TWO GROUPS ARE BEING COMPARED, INFANTS UNDER TREATMENT FROM THE FIRST FEW WEEKS OF LIFE AND OLDER NORMAL CHILDREN AND ADULTS WITH UNTREATED PHENYLKETONURIA.
- C180 COMPLEX GLYCOLIPIDS OF BRAIN AND RELATED SYSTEMS, NS-8258-02, ROSENBERG, ABRAHAM G., PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, HERSHEY, PA., 10/69-9/70, CONTINUATION, \$76,325. NINDS**
RESEARCH TO EXPAND KNOWLEDGE AND UNDERSTANDING OF LIPIDS BY EMPHASIZING STUDIES ON SPECIFIC ROLES OF GLYCOLIPIDS IN DEVELOPING CELLULAR STRUCTURES AND IN SELECTED MEMBRANE SYSTEMS IN ORDER TO ATTACK THOSE NERVOUS SYSTEM DISEASES INVOLVING DERANGEMENTS OF LIPID METABOLISM.
- C190 CORTICAL DENDRITES, NS-7870-03, FORMERLY NB-4239-05, COLEMAN, PAUL, UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY, ROCHESTER, N.Y., 1/69-12/70, CONTINUATION, \$22,655. NINDS**
THIS RESEARCH FOCUSES UPON BRAINS OF S1 MAZE-BRIGHT AND S3 MAZE DULL RATS STAINED ACCORDING TO THE GOLGI-COX METHOD. THE RATS WERE PREVIOUSLY TESTED IN THE HEBB-WILLIAMS MAZE AND LASHLEY MAZE. BRAINS OF RATS REARED IN THE DARK HAVE BEEN STAINED ACCORDING TO THE GOLGI-COX METHOD. DENDRITES OF INDIVIDUAL CELLS OF THE RATS AND CATS WILL BE MEASURED AND COUNTED.
- C195 CYTOLOGIC STUDIES IN DISEASES OF THE NERVOUS SYSTEM, NS-2255-12, TERRY, ROBERT D., ALBERT EINSTEIN COLLEGE OF MEDICINE YESHIVA UNIVERSITY, BRONX, N.Y., 12/69-11/70, CONTINUATION, \$97,507. NINDS**
THIS RESEARCH WILL STUDY THE MORPHOLOGIC, METABOLIC AND CHEMICAL CHARACTERISTICS OF NEUROFIBRILLARY TANGLES INDUCED IN RABBITS. PLAQUE-LIKE LESIONS FOUND IN CHRONIC ANIMALS WILL ALSO BE STUDIED.
- C200 DERMATOGLYPHICS IN MENTAL RETARDATION; HD-01507-05; ALTER, MILTON; UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA; 11/69-10/70; CONTINUATION; \$25,747; NICHD.**
THIS RESEARCH CONCERNS THE RELATIONSHIP OF DERMATOGLYPHIC PATTERNS AND CONDITIONS ASSOCIATED WITH EXTRA AUTOSOMAL CHROMOSOMES DISORDERS DUE TO EXTRA OR DEFICIENT SEX CHROMOSOMES, DISORDERS DUE TO CHROMOSOMAL DELETIONS AND MOSAIC STATES, CONDITIONS ATTRIBUTABLE TO A SINGLE ABNORMAL GENE, AND CONDITIONS WITHOUT A CLEAR GENETIC BASIS.
- C215 EFFECT OF AMINO ACIDS ON METABOLISM, EEG, AND BEHAVIOR, HD-01823-08 MCKEAN, CHARLES M., CALIFORNIA STATE DEPT OF MENTAL HYGIENE, ELORIDGE, CALIFORNIA, 4/70-3/71 CONTINUATION \$116,325. NICHD**
THIS RESEARCH FOCUSES UPON THE THERAPEUTIC SIGNIFICANCE OF THE POSSIBILITY OF A RESULTING QUALITATIVE OR QUANTITATIVE ABNORMALITY OF CEREBRAL PROTEIN SYNTHESIS IN HUMAN CSF AND IN THE CSF AND BRAINS OF PIGS RENDERED HYPERPHENYLALANINEMIC IN INFANCY. PRELIMINARY DATA SUGGESTING ELECTROPHYSIOLOGICAL CHANGES IN THE PRESENCE OF HIGH CSF PHENYLALANINE IS BEING FURTHER STUDIED.
- C225 EFFECTS OF ACUTE BILIRUBIN INTOXICATION ON THE CNS, NS-6899-03, SCHUTTA, HENRY S., PENNSYLVANIA HOSPITAL, PHILADELPHIA, PA., 1/69-8/70, CONTINUATION, \$22,740. NINDS**
THIS RESEARCH PROPOSES TO DEFINE THE MORPHOLOGY OF LESIONS OCCURRING IN ACUTE BILIRUBIN INTOXICATION, SINCE IT APPEARS THAT THE ACUTE TYPE OF BILIRUBIN DAMAGE BEARS A CLOSE RELATIONSHIP TO THE EVENTS OCCURRING IN HUMAN BILIRUBIN INTOXICATION.

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- C235 EEG STUDIES IN NEWBORN AND YOUNG INFANTS, NS-3166-10, ENGEL, RUDOLF C.H., UNIVERSITY OF OREGON MEDICAL SCHOOL, PORTLAND, ORE. 1/70-12/70, RENEWAL, \$25,762. NINDS**
THIS RESEARCH IS A CONTINUATION OF ELECTROENCEPHALOGRAPHIC OBSERVATIONS ON MATURATIONAL PATTERNS IN EEG INCLUDING RESPONSES TO PHOTIC AND ACOUSTIC STIMULATION IN PREMATURE AND FULL TERM INFANTS WITH NORMAL AND ABNORMAL NEUROLOGICAL FINDINGS. RACIAL AND SEXUAL DIFFERENCES ALSO ARE BEING EVALUATED.
- C245 ELECTRON MICROSCOPY OF THE NERVOUS SYSTEM, NS-7385-03, DEMPSEY, EDWARD W., COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, N.Y., N.Y., 5/69-4/70, RENEWAL, \$23,386. NINDS**
THIS RESEARCH IS CONCERNED WITH THE ULTRASTRUCTURE OF NERVOUS TISSUE ALTERED BY A VARIETY OF EXPERIMENTAL PROCEDURES. STUDY OF THE HUMAN BRAIN IN DISEASE IS ALSO UNDER WAY.
- C255 EMBRYOGENESIS OF THE ADRENERGIC NERVOUS SYSTEM, NS-7255-04, MIRKIN, BERNARD L., UNIVERSITY OF MINNESOTA SCHOOL OF MEDICINE MINNEAPOLIS, MINN., 6/70-5/70, CONTINUATION, \$19,675. NINDS**
THIS RESEARCH PROPOSES TO ANALYZE THE FUNCTIONAL DIFFERENTIATION OF THE ADRENERGIC NERVOUS SYSTEM DURING INTRAUTERINE MATURATION TO DETERMINE ITS CONTRIBUTION TO MAINTENANCE OF FETUS HOMEOSTASIS IN PHYSIOLOGICAL AND DISEASE STATES.
- C265 ETIOLOGY AND CONSEQUENCES OF PERINATAL BRAIN DAMAGE, NS-1620-09, COWEN, DAVID, COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, NEW YORK, N.Y., 4/67-4/71, RENEWAL, \$95,265. NINDS**
THIS RESEARCH PROPOSES TO STUDY IN RATS, THE POSSIBILITY OF OVERCOMING OR AMELIORATING THE RETARDING EFFECTS OF PRENATALLY INDUCED BRAIN DAMAGE UPON LATER LEARNING AND MEMORY ABILITIES BY MEANS OF SPECIFIC DRUG TREATMENTS AND/OR SENSORY STIMULATION ADMINISTERED TO THE INJURED ANIMAL DURING ITS EARLY DEVELOPMENT.
- C275 EXPERIMENTAL METABOLIC ENCEPHALOPATHIES, NS-7336-03, 03S1, FISHMAN, R.A., UNIVERSITY OF CALIFORNIA MEDICAL CENTER, SAN FRANCISCO, CALIF., NS-7336-03, 6/69-8/70, CONTINUATION \$57,827, AND NS-7336-03S1, 3/70-8/70, \$5,451. NINDS.**
THIS RESEARCH IS CONCERNED WITH BRAIN PERMEABILITY, MEMBRANE TRANSPORT AND METABOLISM AND IS DIRECTED TOWARD UNDERSTANDING THE PATHOPHYSIOLOGY OF THE COMPLEX NEUROLOGICAL MANIFESTATIONS CHARACTERIZING VARIOUS SYSTEMATIC DISORDERS.
- C320 GANGLIOSIDE INDUCTION DURING EMBRYONIC DEVELOPMENT, NS-5104-06, DAIN, JOEL A., UNIVERSITY OF RHODE ISLAND, KINGSTON, R.I. 9/69-12/70, CONTINUATION, \$13,332. NINDS**
THIS RESEARCH IS CONCERNED WITH GLYCOLIPID SIALYLTRANSFERASE AND GLYCOLIPID GALACTOSYL TRANSFERASE INDUCTION AND THE GANGLIOSIDE LEVELS IN THE GERM LAYERS AT THE LATE GASTRULA IN THE FROG. IT WILL ATTEMPT TO CORRELATE THE INDUCTION OF SYNTHESIS OF 4 MAJOR GANGLIOSIDES WITH THE FORMATION OF NEUROLOGICAL STRUCTURE.
- C330 STORAGE DISEASE-INTRACELLULAR TRANSPORT AND DIGESTION, NS-6856-04, GOLDFISCHER, SIDNEY L., ALBERT EINSTEIN COLLEGE OF MEDICINE OF YESHIVA UNIVERSITY, BRONX, NEW YORK, 2/70-1/71, CONTINUATION, \$51,470. NINDS**
THIS RESEARCH PROPOSES TO INVESTIGATE INTRACELLULAR TRANSPORT, DIGESTION AND STORAGE, PARTICULARLY IN HEPATOCYTES, KUPFFER CELLS, NEURONS AND GLIA. COMBINED CYTOCHEMICAL ELECTRON MICROSCOPIC AND ELECTRON PROBE MICROANALYTICAL TECHNIQUES WILL BE EMPLOYED TO STUDY THE INTRACELLULAR LOCALIZATION OF HYDROLASES AND THE UPTAKE AND STORAGE OF PROTEINS AND METALS.
- C335 HISTOPATHOLOGIC PATTERNS IN THE BRAIN, NS-7388-04, TERPLAN, KORNEL L., STATE UNIVERSITY OF NEW YORK, BUFFALO, NEW YORK, 5/70-4/71, CONTINUATION, \$23,344. NINDS**
THIS RESEARCH PROPOSES THE STUDY OF THE CENTRAL NERVOUS SYSTEM IN RELATION TO CONGENITAL HEART DISEASE WITH PARTICULAR ATTENTION TO THE FUNCTIONAL TYPES.
- C360 INTEGRATED APPROACHES TO NEUROBIOLOGICAL PROBLEMS, NS-6827-04, SNIDER, RAY S., UNIVERSITY OF ROCHESTER, NEW YORK, 9/69-8/70, CONTINUATION, \$110,860. NINDS**
THIS RESEARCH IS ON THE STUDIES WITH NEURAL TRANSPLANTS IN SALAMANDERS. ARTIFICIAL AUDITORY END ORGANS, CEREBELLUM-ULTRASTRUCTURAL ACTIVITIES RELATED TO ELECTRICAL ACTIVITY, AND THE INVESTIGATION OF THE BIOCHEMICAL BASIS OF AUDIOLOGICAL SEIZURES.
- C390 LYSINE METABOLISM IN INFANTS & CHILDREN HD-02920-04, WOODY, NORMAN C., TULANE UNIVERSITY, NEW ORLEANS, LA., 6/70-5/71, CONTINUATION \$15,700. NICHD**
THIS RESEARCH PROPOSES TO DETERMINE THE LOCATION OF THE METABOLIC BLOCK FOR 3 RELATED GIRLS IN WHOM THE DIAGNOSIS OF HYPERLYSINEMIA HAS BEEN MADE.
- C400 METABOLISM OF ARYL AMINO ACIDS IN THE MENTALLY RETARDED; HD-04030-01A1; SLOANE, NATHAN H.; UNIVERSITY OF TENNESSEE; MEMPHIS, TENNESSEE; 2/70-1/71; INITIAL; \$5,853; NICHD**
THE MAJOR OBJECTIVE OF THIS STUDY IS TO DETERMINE THE MECHANISM BY WHICH THE AMINO ACID P-HYDROXYMETHYL-1-PHENYLALANINE IS METABOLIZED IN PHENYLKETONURIC PATIENTS. URINE OF MENTALLY RETARDED INDIVIDUALS WILL BE SCREENED FOR CLUES RELATIVE TO ABNORMAL AMINO ACID METABOLISM. ADDITIONAL STUDIES WILL ATTEMPT TO IDENTIFY AMINO ACIDS EXCRETED IN CERTAIN OTHER TYPES OF INBORN ERRORS OF METABOLISM.
- C410 METABOLIC DISORDERS IN CHILDREN HD-02870-08, AUERBACH, VICTOR H., ST. CHRISTOPHERS HOSPITAL FOR CHILDREN PHILADELPHIA, PA., 9/69-8/70 CONTINUATION \$46,685. NICHD**
THIS RESEARCH PROPOSES TO INVESTIGATE TECHNIQUES OF DETECTION, DELINEATION AND TREATMENT OF DISORDERS PRIMARILY OF GENETIC ORIGIN, WHICH ARE MANIFEST DURING INFANCY AND CHILDHOOD.
- C415 METABOLIC STUDIES IN MONGOLISM HD-03011-04, MC COY, ERNEST E., UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VA., 10/69-9/70 CONTINUATION \$36,695. NICHD**
THIS RESEARCH PROPOSES TO DISCOVER BIOCHEMICAL DIFFERENCES BETWEEN CHILDREN WITH DOWN'S SYNDROME AND NON-AFFECTED CONTROLS DETERMINE IF THE BIOCHEMICAL DIFFERENCES ARE THE RESULT OF TRISOMY FOR CHROMOSOME 21 DETERMINE THE MECHANISM OF BIOCHEMICAL DIFFERENCES OBSERVED IN THE CHILD WITH MONGOLISM AND EXPLORE THE RELATIONSHIP OF BIOCHEMICAL DIFFERENCES IN THE CHILD WITH DOWN'S SYNDROME TO THE PROFOUND MENTAL RETARDATION.
- C425 METABOLISM AND FUNCTION OF COMPLEX LIPIDS, NS-2946-11, KENNEDY, EUGENE P., HARVARD UNIVERSITY, BOSTON, MASS., 12/69-11/70, CONTINUATION, \$32,468. NINDS**
THIS RESEARCH IS CONCERNED WITH THE FUNCTION OF COMPLEX LIPIDS IN TERMS OF THE FUNDAMENTAL CHEMISTRY OF THESE MOLECULES AND THEIR METABOLISM.
- C430 MICROCHEMICAL PATHOLOGY OF CEREBRAL CORTEX MATURATION, NORMAN H., UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE, CHARLOTTESVILLE, BASS, NORMAN H., UNIVERSITY OF VIRGINIA, SCHOOL OF MEDICINE, CHARLOTTESVILLE, VA., 9/69-8/70, CONTINUATION, \$38,003. NINDS**
THIS RESEARCH WILL SURVEY THE MICROCHEMICAL STRUCTURE OF DEVELOPING RAT AND HUMAN ISOCORTEX IN HEALTH AND DISEASE. METHODS OF QUANTITATIVE HISTOCHEMISTRY WILL BE EMPLOYED.
- C435 MOLECULAR BASIS OF CEREBRAL DEGENERATION, NS-8682-02, O'BRIEN, JOHN S., UNIVERSITY OF CALIFORNIA SCHOOL OF MEDICINE, LA JOLLA, CALIFORNIA, 6/70-5/71, CONTINUATION, \$53,918. NINDS**
THE OBJECTIVE IS TO DELINEATE THE MOLECULAR BASIS OF INBORN ERRORS OF METABOLISM RESULTING IN CEREBRAL DEGENERATION FOR THEIR PREVENTION AND THERAPY. OTHER RARE METABOLIC DISEASES INCLUDING KINKY HAIR DISEASE AND A 'SPECIAL FORM OF INFANTILE AMAUROTIC IDIOTCY' WILL BE STUDIED.
- C440 MOLECULAR NEUROBIOLOGY-PROTEINS IN THE NERVOUS SYSTEM, NS-4270-08, SHOOTER, ERIC M., STANFORD UNIVERSITY, STANFORD, CALIFORNIA 12/69-11/70 CONTINUATION \$75,906. NINDS**

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- THIS RESEARCH PROPOSES TO EXTRACT AND FRACTIONATE BRAIN PROTEINS, AND TO CHARACTERIZE THEM WITH RESPECT TO AMINO ACID COMPOSITION, CELLULAR LOCALIZATION, FUNCTIONAL SIGNIFICANCE, DEVELOPMENTAL, GENETIC AND PATHOLOGICAL VARIATION. ISOLATED FRACTIONS WILL BE EXAMINED FOR RATE OF SYNTHESIS AND DEGRADATION OF THE POLYPEPTIDE CHAIN, AND FOR EXCHANGE OF EPISEQUENTIAL -NH₂ AND NHR.
- C441 MOLECULAR SWITCHES IN THE CENTRAL NERVOUS SYSTEM, NS-8428-02, SCHOWEN, RICHARD L., UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, 2/70-1/71, CONTINUATION, \$14,637. NINDS**
- INVESTIGATING THE FEASIBILITY OF SMALL CATALYTIC MOLECULES SERVING AS THE FUNCTIONAL UNITS FOR ELECTRICAL ON-OFF SWITCHING IN THE CENTRAL NERVOUS SYSTEM. CERTAIN MULTIFUNCTIONAL COMPOUNDS MAY FILL THIS ROLE AND FORM THE BINARY CODING MACHINERY FOR INFORMATION STORAGE AND PROCESSING IN THE BRAIN, AND KINETIC STUDIES WILL BE USED.
- C445 MORPHOLOGY AND CYTOCHEMISTRY OF DEVELOPING SYNAPSES, NS-4179-06 AND NS-4179-06S1, MAYNARD, EDITH A., UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, NS-4179-06, 9/67-12/69, CONTINUATION \$19,826 AND NS-4179-06S1, 5/69-12/69 \$1,218. NINDS**
- THIS RESEARCH INVOLVES A FINE STRUCTURAL AND ELECTRON-MICROSCOPIC CYTOCHEMICAL STUDY OF SYNAPSES IN THE LOBSTER'S STOMATOCAESTRIC GANGLION, SUB-CELLULAR LOCALIZATION OF THE ELECTROPHORETICALLY SEPARABLE MULTIPLE MOLECULAR FORMS OF ACETYLCHOLINESTERASE FOUND IN SKELETAL MUSCLE AND BRAIN OF CHICKENS' AND LIGHT MICROSCOPE STUDIES OF DEGENERATION AND REGENERATION OF NEURONS IN THE CENTRAL NERVOUS SYSTEM OF SPINY LOBSTERS.
- C460 NEURAL MECHANISMS OF LEARNING AND BEHAVIOR NS-7458-04, LICKY, MARVIN E., UNIVERSITY OF OREGON, EUGENE, OREGON, 3/70-2/71, RENEWAL, \$16,066. NINDS**
- THIS RESEARCH PROPOSES A COMBINED PROGRAM OF BEHAVIORAL AND NEUROPHYSIOLOGICAL EXPERIMENTS FOCUSED ON THE PROBLEM OF NEURAL MECHANISMS OF LEARNING. A COMPARATIVELY SIMPLE ORGANISM WHOSE NERVOUS SYSTEM PROVIDES FAVORABLE MATERIAL FOR A FINE GRAINED NEUROPHYSIOLOGICAL ANALYSIS, THE MARINE GASTROPOD APLYSIA CALIFORNICA, IS THE ORGANISM OF CHOICE FOR THE STUDY.
- C470 NEUROPATHOLOGY OF THE AGING MENTAL RETARDATE, NS-6882-04, SOLITARE GILBERT B., YALE UNIVERSITY SCHOOL OF MEDICINE, NEW HAVEN, CONN., 8/69-7/70, RENEWAL, \$10,034. NINDS**
- THIS RESEARCH CONCERNS A DETAILED HISTOPATHOLOGICAL STUDY OF THE BRAINS OF MENTALLY-RETARDED INDIVIDUALS, INCLUDING HISTO-CHEMICAL AND ELECTRON-MICROSCOPIC TECHNIQUES, WITH PARTICULAR EMPHASIS UPON THE ADULT POPULATION.
- C475 NEUROSENSORY CENTER NS-3354-09, VAN ALLEN, MAURICE W., UNIVERSITY OF IOWA, IOWA CITY, IOWA 11/69-10/70, CONTINUATION \$251,056. NINDS**
- THIS PROJECT SUPPORTS INVESTIGATIONS, BOTH INDIVIDUAL AND COLLABORATIVE IN NEUROLOGY, OPHTHALMOLOGY AND PSYCHOLOGY.
- C510 PHYSIOLOGY OF NORMAL AND ABNORMAL GROWTH AMINO ACIDS, HD-04588-02; NYHAN, WILLIAM L.; UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA; 6/70-5/71; CONTINUATION; \$20,413; NICHD.**
- THIS RESEARCH INVOLVES THE STUDY OF A LARGE NUMBER OF VARIABLES IN CHILDREN WITH HOMOGENEOUS TYPES OF GROWTH FAILURE AND IN CONTROL CHILDREN IN WHOM GROWTH IS NORMAL. MAJOR EMPHASIS WILL BE PLACED ON INTRAUTERINE GROWTH RETARDATION AND ON VIRAL INHIBITION OF HUMAN GROWTH.
- C525 QUANTITATIVE HISTOCHEMICAL STUDIES UPON CEREBRAL CORTEX, NS-361-17, POPE, ALFRED, MCLEAN HOSPITAL, BELMONT, MASS., 1/70-12/70, RENEWAL, \$17,435. NINDS**
- THIS RESEARCH CONCERNS EXPERIMENTS ON THE ARCHITECTONIC PROFILES OF SELECTED CHEMICAL STRUCTURAL COMPONENTS AND ENZYMES IN CORTESES FROM PATIENTS WITH PRESENILE DEMENTIAS, INCLUDING CORRELATIONS OF BIOCHEMICAL DATA WITH HISTOPATHOLOGICAL FINDINGS. EXPERIMENTS WILL BE MADE ON RATS ON THE DISTRIBUTION PATTERNS WITHIN CORTICAL ARCHITECTONIC LAYERS, SUBJACENT WHITE MATTER, AND CAUDATE NUCLEUS OF SELECTED CHEMICAL STRUCTURAL COMPONENTS IN RELATION TO EXPERIMENTAL CYANIDE ENCEPHALOPATHY
- C540 RNA AND PROTEIN METABOLISM IN NEUROLOGIC DISORDERS, NS-7872-04, APPEL, STANLEY H., DUKE UNIVERSITY, DURHAM, N.C., 3/70-4/71 CONTINUATION \$28,101. NINDS**
- RESEARCH ON THE MECHANISMS OF RNA AND PROTEIN SYNTHESIS IN BRAIN TO DETERMINE HOW THESE MACROMOLECULES ARE INCREASED DURING PHYSIOLOGICAL STIMULATION AND THEIR RESPONSES TO INTERCELLULAR COMMUNICATION. RNA AND PROTEIN CONSTITUENTS MAY BE AFFECTED IN PATIENTS WITH DEMENTIAL AND OTHER METABOLIC DERANGEMENT OF CEREBRAL FUNCTION.
- C560 STUDIES IN HUMAN GENETICS HD-00486-15, CHILDS, BARTON, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD., 10/69-9/70 CONTINUATION \$58,979. NICHD**
- THIS RESEARCH CONCERNS CYTOGENETIC STUDIES OF PATIENTS WITH CHROMOSOME ABNORMALITIES, ENZYME VARIATIONS IN DROSOPHILA, AND STUDY OF LIPID METABOLISM IN A PATIENT WITH HYPERGLYCEMIA.
- C575 STUDIES OF TETRAPLOID DNA STATUS OF PURKINJE CELLS, NS-7100-03, LAPHAM, LOWELL W., UNIVERSITY OF ROCHESTER MEDICAL CENTER, ROCHESTER, NEW YORK, 2/69-9/70, CONTINUATION \$15,313. NINDS**
- THIS RESEARCH PROPOSES TO ACHIEVE AN UNDERSTANDING OF THE SIGNIFICANCE OF TETRAPLOIDY IN PURKINJE NEURONS IN TERMS OF ITS ROLE IN CELL METABOLISM. TIMED PREGNANT FEMALES WILL BE USED TO PROVIDE ANIMALS WHICH CAN BE STUDIED AT SUCCESSIVE INTERVALS THROUGHOUT THE PERIOD OF PRENATAL AND POSTNATAL MATURATION OF THE CEREBELLUM.
- C585 LIPID COMPOSITION OF BRAIN IN PATHOLOGICAL STATUS, NS-1847-12, ROUSER, GEORGE, CITY OF HOPE MEDICAL CENTER, DUARTE, CALIFORNIA, 10/69-9/70, CONTINUATION \$46,129. NINDS**
- THIS RESEARCH PROPOSES TO STUDY THE ROLES OF POLAR LIPIDS OF THE NERVOUS SYSTEM IN ANIMALS AND MAN AND TO CORRELATE FINDINGS WITH DATA ON ANATOMY, PHYSIOLOGY, ENZYMOLOGY AND PERMEABILITY; AND TO DEFINE ALTERATIONS IN LIPID COMPOSITION OF BRAIN AND SUB-CELLULAR PARTICLES OF BRAIN IN SOME PATHOLOGICAL STATES IN MAN.
- C590 STUDY OF MEIOSIS IN RELATION TO MENTAL RETARDATION HD4594-02 MELNYK, JOHN, CITY OF HOPE NATIONAL MEDICAL CENTER, DUARTE, CALIFORNIA, 6/70-5/71 RENEWAL \$34,746. NICHD**
- THE PURPOSE OF THIS STUDY IS TO EXAMINE THE MEIOTIC CHROMOSOMES OF RETARDED INDIVIDUALS, WITH AND WITHOUT ANATOMICAL CONGENITAL MALFORMATIONS, WHO DO NOT DEMONSTRATE MITOTIC CHROMOSOMAL ABERRATIONS. THE HYPOTHESIS IS THAT RECIPROCAL TRANSLOCATIONS, PARACENTRIC INVERSIONS, VERY SMALL DELETIONS, AND ADDITIONS WILL BE DETECTABLE AT MEIOSIS, BUT NOT AT MITOSIS, AND THAT THESE ABERRATIONS MAY BE ASSOCIATED WITH RECOGNIZABLE ABNORMALITIES OF STRUCTURE AND FUNCTION.
- C591 STUDIES OF THE METABOLISM ON N-ACETYL-L-ASPARTIC ACID, NS-9353-01, FORMERLY HD NS-4672-01, GOLDSTEIN, F.B., LETCHWORTH VILLAGE HOSPITAL, THIELLS, N.Y., 1/70-12/70, INITIAL, \$16,405. NINDS**
- STUDY OF THE METABOLISM AND FUNCTION OF N-ACETYL-L-ASPARTIC ACID FROM THE SUBCELLAR, ANATOMICAL, DEVELOPMENTAL, AND INTERSPECIES DISTRIBUTION OF THE COMPOUND AND THE ENZYME SYSTEMS CATALYZING ITS SYNTHESIS AND DEGRADATION. ITS ROLE IS UNKNOWN BUT ITS PHYLOGENIC DISTRIBUTION IMPLIES A CONNECTION WITH THE DEVELOPMENT OF HIGHER INTELLECTUAL CAPACITY.
- C595 STUDY OF NERVOUS SYSTEM LIPIDS, NS-1006-16, NORTON, WILLIAM T., ALBERT EINSTEIN COLLEGE OF MEDICINE YESHIVA UNIVERSITY, BRONX, N.Y., 4/70-3/71, CONTINUATION, \$51,847. NINDS**
- THIS RESEARCH IS CONCERNED WITH ISOLATING WHOLE NEUROGLIA AND NEURONAL PERIKARYA AND THE INITIATION OF LONG RANGE CHEMICAL AND BIOCHEMICAL STUDIES OF THESE CELLS. STRUCTURAL ANALYSIS OF INDIVIDUAL BRAIN GLYCOSIDES WILL ALSO BE MADE.
- C596 STUDIES ON SYNAPTOSOMES, NS-8933-01, GAMBETTI, PIERLUIGI, UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE, PHILADELPHIA, PA., 10/69-9/70, INITIAL, \$55,007. NINDS**
- COMBINING MORPHOLOGICAL AND BIOCHEMICAL RESEARCH ON ISOLATED SYNAPTOSOMES FOR A BETTER UNDERSTANDING OF THE ROLE OF SYNAPSES IN MENTAL RETARDATION, LEARNING AND MEMORY.

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- C600 SURFACE AREA AND PATTERNS OF CORTICAL NEURONS, NS-3048-08, SCHADE, J.P., NETHERLANDS CENTRAL INSTITUTE FOR BRAIN RESEARCH AMSTERDAM, THE NETHERLANDS, 1/69-12/69, CONTINUATION, \$7,000. NINDS**
THIS RESEARCH IS CONCERNED WITH THE RELATIONSHIP BETWEEN SURFACE AREA OF NEURONS AND THE DEVELOPMENT OF ELECTRICAL AND BIOCHEMICAL PARAMETERS IN CHICK AND RABBIT BRAINS.
- C605 THE DEVELOPMENT OF NORMAL AND ABNORMAL MYELIN LIPIDS, NS-7537-03, CHASE, H. PETER, UNIVERSITY OF COLORADO MEDICAL CENTER, DENVER, COLO., 9/68-8/70, CONTINUATION, \$28,691. NINDS**
THE PURPOSE OF THIS RESEARCH IS TO STUDY THE EFFECTS OF MALNUTRITION AND DISTORTION OF AMINO ACID HOMEOSTASIS ON THE RATE OF DEPOSITION AND COMPOSITION OF MYELIN CEREBROSIDE.
- C610 TISSUE CULTURE IN HEREDITARY DISORDERS; HD-04252-02; NADLER, HENRY L.; CHILDRENS MEMORIAL HOSPITAL; CHICAGO, ILLINOIS; 5/70-4/71; CONTINUATION; \$30,529; NICHD.**
CULTIVATED CELLS OBTAINED FROM PATIENTS WITH VARIOUS GENETIC DISORDERS WILL BE UTILIZED IN AN ATTEMPT TO (1) PRECISELY DEFINE THE OPTIMAL CULTURE CONDITIONS FOR DEMONSTRATION OF THE INTRACELLULAR DEFECT, (2) DETERMINE WHICH SUBSTANCES MIGHT BE RESPONSIBLE FOR THE CORRECTION OF THE DEFECT IN THE CULTURE, (3) RELATE THE CELLULAR DEFECT TO THE CLINICAL MANIFESTATIONS, AND (4) DETECT THE HETEROZYGOTE IN ORDER TO PROVIDE MORE PRECISE GENETIC COUNSELING.
- C635 VITAMIN B6 AND CENTRAL NERVOUS SYSTEM FUNCTION NS-5789-06, COURSON, DAVID B., ST. JOSEPH HOSPITAL, LANCASTER, PA., 6/70-5/70 CONTINUATION \$34,397. NINDS**
THIS RESEARCH PROPOSES TO CORRELATE BIOCHEMICAL FINDINGS IN EXPERIMENTAL VITAMIN B6 DEFICIENCY WITH THE BEHAVIOR OF THE ANIMAL IN TERMS OF ABILITY TO LEARN AND RETAIN MEMORY OF LEARNING. ELECTROENCEPHALOGRAPHIC TRACINGS WITH EVOKED RESPONSE TECHNIQUES WILL PROVIDE INFORMATION ON THE STATUS OF THIS NEUROPHYSIOLOGICAL PARAMETER FOR CORRELATION WITH BIOCHEMICAL AND BEHAVIORAL DATA.
- D020 AN AUTOMATED PSYCHOLOGICAL TESTING BOOTH MH-14864-03S1 AND 04, ELWOOD, DAVID L., BARTHOLOMEW COUNTY MENTAL HEALTH CLINIC, COLUMBUS, INDIANA 6/1/70-5/31/71, RENEWAL, \$73,197. NIMH**
THIS RESEARCH PROPOSES THE DEVELOPMENT OF A TECHNICIAN OPERATED AUTOMATED PSYCHOLOGICAL TESTING BOOTH (TB) CAPABLE OF PRESENTING TAPE RECORDED VERBAL STIMULI AND PERFORMANCE TEST MATERIAL (OBJECTS AND PICTURES) UPON REQUEST FROM THE SUBJECT (SUBJECT PASSES A BUTTON) AND WOULD BE CAPABLE OF MAKING TAPE RECORDED RECORDS OF THE SUBJECT'S ANSWERS.
- D021 ANALYSIS OF CHROMOSOME KARYOGRAMS; HD-05361-07; LEDLEY, ROBERT S.; NATIONAL BIOMEDICAL RESEARCH FOUNDATION; SILVER SPRING, MARYLAND; 4/70-3/71; INITIAL; \$61,153; NICHD**
THE PURPOSE OF THIS RESEARCH IS TO UTILIZE SPECIALIZED DIGITAL COMPUTER TECHNIQUES FOR THE COMPLETELY AUTOMATIC INVESTIGATION OF CHROMOSOME KARYOGRAMS. FOR EACH CHROMOSOME AN ATTEMPT WILL BE MADE TO LOCATE THE ENDS OF THE ARMS AND DETERMINE THE POSITION OF THE CENTROMERE AND THE OVERALL ARM LENGTHS AND AREA. FURTHER DEVELOPMENT OF COMPUTER UTILIZATION FOR INTRA-AND INTERSPECIMEN STATISTICAL ANALYSES OF CHROMOSOME CHARACTERISTICS WILL BE STUDIED.
- D025 ANALYTIC STUDIES OF VISUAL PERCEPTION MH-8061-07 LEIBOWITZ, HERSCHEL W., PENNSYLVANIA STATE UNIVERSITY PARK, PENNA, 1/1/70-12/31/70, RENEWAL, \$27,200. NIMH**
THIS RESEARCH AIMS TO INVESTIGATE VARIOUS ASPECTS OF PERCEPTUAL CONSTANCY WITH THE GOAL OF PROVIDING A QUANTITATIVE DATA BASE ON WHICH TO CONSTRUCT A THEORY OF THE MECHANISMS UNDERLYING THESE PHENOMENA, AND TO PROVIDE TECHNIQUES FOR EXTENDING CONSIDERATIONS OF CONSTANCY PHENOMENA WITHIN A MORE GENERAL CONTEXT.
- D030 AUDIOLOGICAL STUDY OF EEG OF THE MENTAL RETARDED, NS-7480-03, SHIMIZU, HIROSHI, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD., 9/69-8/70, CONTINUATION, \$2,433. NINDS**
THIS RESEARCH IS CONCERNED WITH ANALYSIS OF EEG TO ACOUSTIC STIMULI IN SEVERELY RETARDED SUBJECTS WITH CHRONIC BRAIN SYNDROMES IN COMPARISON WITH THOSE OBTAINED FROM NORMAL SUBJECTS WITH A PERIPHERAL HEARING IMPAIRMENT ALONE.
- D035 BEHAVIORAL AND NEURAL EFFECTS OF INDUCED PKU. HD-03537-01; SCHALOCK, ROBERT L., HASTINGS COLLEGE, HASTINGS, NEBRASKA; 8/69-7/70; INITIAL, \$19,372; NICHD**
THE SPECIFIC AIM OF THIS RESEARCH IS TO INVESTIGATE THE SIMILARITIES BETWEEN INDUCED AND NATURALLY OCCURRING PHENYLKETONURIA. RATS PREVIOUSLY LOADED WITH L-PHENYLALANINE WILL BE SUBJECTED TO A VARIETY OF BEHAVIORAL TESTS. AN ATTEMPT WILL BE MADE TO RELATE PKU EFFECTS IN HUMAN AND RAT SUBJECTS.
- D036 A BEHAVIORAL EVALUATION PROGRAM FOR RETARDED CHILDREN MH-14880-06 BARRETT, BEATRICE H., WLATER E. FERNALD STATE SCHOOL, WAVERLY, MASSACHUSETTS, 9/169-8/31/70, RENEWAL, \$43,158. NIMH**
THE INVESTIGATOR IS DEVELOPING METHODS TO MORE ACCURATELY ASSESS THE DIFFERENCES IN LEARNING CAPABILITIES OF RETARDED CHILDREN. GROUP BEHAVIOR OF RETARDATEES IS ALSO BEING STUDIED. ATTEMPTING TO CORRECT DISRUPTIVE BEHAVIOR.
- D045 CELLULAR ASPECTS OF HUMAN GENETICS AND IMMUNOLOGY HD-02552-04; HIRSCHHORN, KURT; MT. SINAI SCHOOL OF MEDICINE; NEW YORK, NEW YORK; 9/69-8/70; CONTINUATION; \$144,842; NICHD.**
THIS IS A BROAD RESEARCH PROGRAM WHICH ENCOMPASSES FOUR RELATED AREAS: IMMUNOGENETICS, SOMATIC CELL GENETICS, HUMAN BIOCHEMICAL GENETICS AND CYTOGENETICS. THE IMMUNOGENETIC STUDIES WILL BE CONCERNED WITH THE IMMUNE CAPABILITIES OF PERIPHERAL LYMPHOCYTES IN CULTURE. IN THE AREA OF SOMATIC CELL GENETICS, THE STUDIES WILL INCLUDE THE IMMUNE RESPONSIVENESS OF LYMPHOCYTES FROM PERSONS WITH VARIOUS DYSGAMMAGLOBULINEMIAS, THE VARIABILITY OF CLONES FOR RESISTANCE TO VIRUSES, AND THE STABILITY OF GENETIC MARKERS AT THE LEVEL OF INDIVIDUAL CELLS. IN HUMAN BIOCHEMICAL GENETICS THE PRIMARY CONCERN IS WITH INHERITANCE OF BETA-LIPOPROTEIN VARIANTS. FINALLY, THE CYTOGENETIC STUDIES ARE CONCERNED WITH THE DETECTION OF ABNORMAL CHROMOSOME COMPLEMENTS, PARTICULARLY IN CLINICAL DISORDERS.
- D010 A FORTY YEAR FOLLOW-UP OF MENTAL RETARDATEES; HD-02671-03; ROSS, ROBERT T.; CALIFORNIA STATE DEPT OF MENTAL HYGIENE, SACRAMENTO, CALIFORNIA, 5/70-4/71; CONTINUATION; \$93,073; NICHD.**
THIS STUDY PROPOSES TO FOLLOW UP AND TEST 626 SUBJECTS NOW IN THEIR FORTIES, WHO WERE INITIALLY TESTED IN SAN FRANCISCO OPPORTUNITY ROOMS AND FOUND TO HAVE HAD I.Q.'S OF 80 OR LESS. CONTROL GROUPS OF 100 SIBLINGS AND 100 CLASSMATES WILL BE STUDIED.
- D011 ACQUISITION AND UTILIZATION OF CONCEPTUAL RULES; HD-03390-33; JOHNSON, PEDER J.; UNIVERSITY OF NEW MEXICO; ALBUQUERQUE, NEW MEXICO; 2/70-1/71; CONTINUATION; \$14,418; NICHD**
THIS RESEARCH PROGRAM IS IN GENERAL CONCERNED WITH INVESTIGATION OF FACTORS INFLUENCING THE ACQUISITION AND UTILIZATION OF CONCEPTUAL RULES IN CHILDREN OF VARIOUS AGES. WITHIN THIS CONTEXT THREE PROBLEMS ARE BEING STUDIED SPECIFICALLY. THE FIRST CONCERNS THE IDENTIFICATION AND MANIPULATION OF FACTORS CONTRIBUTING TO RULE LEARNING DIFFICULTY IN CHILDREN. A SECOND PROBLEM CONCERNS THE WAY IN WHICH CHILDREN OF VARIOUS AGES ENCODE THE DIFFERENT CONCEPTUAL RULES. THE FINAL EXPERIMENTS DEAL WITH THE IDENTIFICATION OF SUBJECT-SPECIFIC STRATEGIES. IN ADDITION, SPECIAL SUBPOPULATIONS OF SUBJECTS—FOR EXAMPLE, MENTALLY RETARDED CHILDREN—WILL BE OBSERVED FOR DIFFERENCES IN RULE LEARNING.
- D015 ADAPTIVE BEHAVIOR AND EEG IN MENTAL RETARDATEES HD-01798-04SI KUN, KARDLEY J., MASS STATE DEPT OF MENTAL HEALTH, WRENTHAM, MASS., 2/70-6/70 CONTINUATION \$600. NICHD**
THIS RESEARCH PROPOSES TO RELATE PARTICULAR EEG PHENOMENA THAT HAVE BEEN FOUND TO RELATE IMPORTANTLY TO MENTAL RETARDATION, TO THE ADAPTIVE BEHAVIOR OF RETARDATEES AS SHOWN BY RETARDATEES PERFORMANCE IN THE AREAS OF PERSONAL SELF-CARE, SOCIAL BEHAVIOR, INTELLECTUAL FUNCTIONING, EDUCATIONAL ACHIEVEMENT, AND OCCUPATIONAL STATUS.

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- D046** A CENTER FOR RESEARCH IN HUMAN LEARNING; HD-01136-06; DARLEY, JOHN G.; UNIVERSITY OF MINNESOTA; MINNEAPOLIS, MINNESOTA; 9/69-8/70; CONTINUATION; \$116,764; NICHD.
- THIS RESEARCH CONCERNS A PROGRAM IN 6 AREAS OF HUMAN LEARNING. ACQUISITION AND UTILIZATION OF LANGUAGE, DEVELOPMENTAL CHANGES IN LEARNING PROCESSES, DISTURBANCES IN LEARNING PROCESSES, TEACHING METHODS AND CURRICULUM DEVELOPMENT, ANALYSIS OF CONTENT LEARNING THROUGH PROGRAMMED INSTRUCTION AND INTEGRATIVE ASPECTS OF LEARNING RESEARCH.
- D050** ULTRASTRUCTURAL BASIS OF NEUROPSYCHIATRIC DISEASE, NS-5572-06, GONATAS, NICHOLAS K., UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA., 9/69-8/70, CONTINUATION, \$47,292. NINDS
- THIS RESEARCH IS CONCERNED WITH ULTRASTRUCTURAL AND CYTOCHEMICAL STUDIES OF HUMAN CEREBRAL CORTICAL BIOPSIES.
- D055** CEREBAL IMPEDANCE AND HOMEOSTASIS, NS-7267-04, BIRZIS, LUCY, STANFORD UNIVERSITY, STANFORD, CALIFORNIA, 9/69-8/70, CONTINUATION \$44,142. NINDS
- THIS RESEARCH INVOLVES THE RECORDING OF LOCAL CEREBRAL IMPEDANCE CHANGES IN UNANESTHETIZED CATS WITH PERMANENTLY IMPLANTED BRAIN ELECTRODES. SLOW CHANGES IN MAGNITUDE OF IMPEDANCE AND PHASIC CHANGES CORRELATED WITH THE CARDIAC PULSATIONS WILL BE ANALYZED UNDER VARIOUS PHYSIOLOGICAL CONDITIONS TO GAIN AN UNDERSTANDING OF THE SIGNIFICANCE OF BRAIN IMPEDANCE AND TO STUDY THE HEMODYNAMIC READJUSTMENTS OF LOCALIZED BRAIN AREAS WITH ACTIVITY.
- D059** CNS MATURATION & EVOKED RESPONSES IN PREMATURE INFANT; HD-01405-05; GORDON, HARRY H.; YESHIVA UNIVERSITY; NEW YORK, NEW YORK; 6/70-5/71; RENEWAL; \$43,440; NICHD.
- THIS RESEARCH PROPOSES TO CORRELATE THE ELECTROENCEPHALOGRAPHIC FINDINGS, SENSORY EVOKED RESPONSES AND BEHAVIORAL MATURATION OF THE PREMATURELY BORN INFANT AND DETERMINE THE RELATIONSHIP BETWEEN THESE MEASUREMENTS AND THE CONCENTRATIONS IN BLOOD OF A NUMBER OF AMINO ACIDS, AS AFFECTED BY RENAL AMINO ACID CLEARANCES AND BY VARIATIONS IN DIETARY INTAKE OF PROTEIN, ASCORBIC ACID, AND OTHER VITAMINS.
- D060** CNS PLASTICITY DURING CRITICAL PERIODS OF DEVELOPMENT (1) HD-03113-03; BERMAN, A. J.; JEWISH HOSPITAL OF BROOKLYN, NEW YORK, NEW YORK; (1) 11/69-12/70, (2) 1/70-12/70; CONTINUATION; (1) \$3,315, (2) \$206,395; NICHD.
- THIS RESEARCH WILL STUDY THE PLASTICITY OF THE CNS AS A FUNCTION OF GESTATIONAL AGE TO DETERMINE CRITICAL DEVELOPMENTAL PERIODS AFFECTING BEHAVIORAL FUNCTIONING IN PRIMATES.
- D065** COGNITION AND MOTIVATION IN RETARDED INDIVIDUALS HD-03008-03, ZIGLER, EDWARD, F., YALE U., NEW HAVEN, CONN. 12/69-11/70 CONTINUATION \$251,282. NICHD
- THIS STUDY PROPOSES TO DELINEATE COGNITIVE FACTORS WHICH CHARACTERIZE RETARDED INTELLECTUAL FUNCTIONING FROM MOTIVATIONAL FACTORS WHICH INFLUENCE THE PERFORMANCE OF RETARDED PERSONS. INSTITUTIONALIZED AND NON-INSTITUTIONALIZED RETARDATEES WITH VARYING ETIOLOGIES AND M.A.O.S AND C.A.O.S WILL BE STUDIED.
- D070** COGNITIVE ASSESSMENT PROGRAM HD 3107-02, CALLAWAY, ENOCH, LANGLEY PORTER NEUROPSYCH INSTITUTE, SAN FRANCISCO, CALIFORNIA 12/69-11/70 CONTINUATION \$19,937. NICHD
- THE PURPOSE OF THIS PROJECT IS TO STUDY THE DEVELOPMENT OF COGNITIVE EFFICIENCY IN NORMAL AND CLINICALLY DEVIANT CHILDREN THROUGH THE MEDIUM OF RESPONSE LATENCY IN BOTH ODDITY AND MATCHING-TO-SAMPLE TASKS. INCLUDED IN THE STUDY WILL BE AN EXAMINATION OF CHILDREN WITH VARIOUS TYPES OF MENTAL RETARDATION AND EMOTIONAL DISTURBANCE.
- D080** COGNITIVE DEFICITS AND BRAIN DYSFUNCTION, NS-6192-03, DENNERLL, RAYMOND D., MICHIGAN EPILEPSY CENTER AND ASSOCIATION, DETROIT, MICHIGAN. 1/69-12/69, CONTINUATION, \$23,504. NINDS
- THIS RESEARCH INVESTIGATES THE RELATIONSHIPS OF SELECTED COGNITIVE PERCEPTUAL-MOTOR ABILITIES AND CEREBRAL DYSFUNCTION IN CHILDREN AND ADULTS WITH EPILEPSY. VARIABLES SUCH AS TYPE OF SEIZURE, LOCATION OF BRAIN DYSFUNCTION AND PERSONALITY FUNCTIONING WILL BE STUDIED.
- D085** COGNITION AND ATTITUDE IN TURNERS SYNDROME; HD-01716-05, GARRON, DAVID C.; RUSH-PRESBYTERIAN ST LUKES MED CTR; CHICAGO, ILLINOIS; 11/69-10/70 RENEWAL \$16,233; NICHD.
- THIS RESEARCH PROPOSES A STUDY OF INTELLECTUAL FUNCTIONING IN PERSONS WITH TURNER'S SYNDROME. A GROUP OF ANATOMIC ANOMALIES TRACED TO CHROMOSOMAL ABERRATIONS TO LEARN MORE OF THE NATURE AND DEVELOPMENT OF SPECIAL DISORDERS AND TO CORRELATE A DELIMITED INTELLECTUAL IMPAIRMENT WITH A SPECIFIC CHROMOSOMAL ABERRATION IS ANTICIPATED.
- D086** COMMUNICATION DISORDERS OF THE MENTALLY RETARDED; HD-00870-07; SCHIEFEL BUSCH, R. L.; UNIVERSITY OF KANSAS; LAWRENCE, KANSAS; 10/69-9/70; CONTINUATION; \$305,551; NICHD.
- THIS RESEARCH PROPOSES TO ESTABLISH A RESEARCH SETTING IN A DEPRIVED NEIGHBORHOOD AND TO FORMULATE AND INITIATE A PROGRAM OF RESEARCH CONCERNED WITH FACTORS OF INADEQUATE DEVELOPMENT.
- D090** DEFICITS IN BRAIN DAMAGE, NS-5359-06, VEGA, ARTHUR, JR., OKLAHOMA MEDICAL RESEARCH FOUNDATION, OKLAHOMA CITY, OKLA., 1/70-12/70, RENEWAL, \$18,137. NINDS
- THIS RESEARCH IS CONCERNED WITH FURTHER DEVELOPMENT AND CROSS-VALIDATION OF THE HOLSTEAD BATTERY OF TESTS FOR BRAIN DAMAGE. THE FLICKER PERIMETRY EXAMINATION WILL BE INTRODUCED INTO THIS BATTERY. THE BATTERY WILL BE EXTENDED DOWNWARD TO CHILDREN OF 5 YEARS OF AGE AND AN ABBREVIATED FORM WILL BE DEVELOPED.
- D091** DETECTION OF BLOOD GALACTOSE IN NEWBORN CHILDREN HD-03927-02; PAIGEN, KENNETH; HEALTH RESEARCH INC; BUFFALO, NEW YORK; 11/69-10/70; CONTINUATION; \$24,082; NICHD
- THE PURPOSE OF THIS PROJECT IS TO DEVELOP A SIMPLE DIAGNOSTIC TEST FOR ELEVATED BLOOD GALACTOSE WHICH CAN BE APPLIED TO THE MASS SCREENING OF NEWBORN CHILDREN.
- D092** DETECTION OF DOWN'S SYNDROME IN UTERO; HD-04919-01; GOODMAN, HAROLD O.; WAKE FOREST UNIVERSITY; WINSTON-SALEM, NORTH CAROLINA; 5/70-4/71; INITIAL; \$17,055; NICHD
- THE AIM OF THIS RESEARCH IS TO DEVELOP A METHOD FOR THE DETECTION OF IN UTERO DOWN'S SYNDROME BY THE EXAMINATION OF MATERNAL BLOOD. BY THE APPLICATION OF PHYSICAL AND BIOCHEMICAL ALTERATIONS TO LEUKOCYTES IN TISSUE CULTURES, METHODS FOR SEPARATING THE PROPORTIONS OF MONGOLOID OR FETAL CELLS RELATIVE TO ADULT LEUKOCYTES WILL BE SOUGHT. THE DEVELOPED METHOD WILL BE TESTED BY STUDYING A LARGE SAMPLE OF PREGNANT FEMALES.
- D095** DEVELOPMENT OF EEG AND BEHAVIORAL RESPONSES TO STIMULI HD-02296-05, BARNET, ANN B., CHILDRENS HOSPITAL RESEARCH OF D.C., WASHINGTON D.C., 11/69-10/70 CONTINUATION \$67,600. NICHD
- THIS RESEARCH PROPOSES TO PROVIDE BASIC DATA ON THE MATURATION OF THE EEG AND SENSORY EVOKED POTENTIALS OF HUMAN INFANTS DURING THE COURSE OF DEVELOPMENT AND WILL ATTEMPT TO RELATE DATA OBTAINED FROM PSYCHOLOGICAL AND NEUROLOGICAL TESTING WITH THE NEUROPHYSIOLOGICAL DATA.
- D105** DIAGNOSTIC ASPECTS OF ELECTROENCEPHALIC AUDIOMETRY, NS-4799-07, SHEPHERD, DAVID C., JEWISH HOSPITAL OF ST. LOUIS, ST. LOUIS, MO., 4/70-3/71, CONTINUATION, \$56,374. NINDS
- THE PURPOSE OF THIS RESEARCH IS TO REFINE THE DIAGNOSTIC UTILITY OF THE AVERAGED ELECTROENCEPHALIC RESPONSE TO REPEATED AUDITORY STIMULI. DIAGNOSTIC INDICES BASED UPON ABNORMAL RELATION AMONG EARLY AND LATE COMPONENTS OF SIMULTANEOUS WAVE FORMS EVOKED FROM SUBJECTS WITH DIFFERING AUDITORY DISORDERS WILL BE DEVELOPED.
- D110** EEG AND SLEEP STATE MATURATION INFANTS HD4008-02, PARMELEE, ARTHUR H. JR., UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF., 1/70-12/70 CONTINUATION \$28,500. NICHD
- THIS RESEARCH DEALS WITH METHODS OF ASSESSING DEVELOPMENT OF THE CENTRAL NERVOUS SYSTEM IN THE NEWBORN AND YOUNG INFANT, USING PHYSIOLOGIC AND

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ELECTROENCEPHALOGRAPHIC DATA RECORDED DURING SLEEP. THE SUBJECTS INCLUDE NORMAL FULL-TERM INFANTS, PREMATURES, AND SELECTED PATHOLOGICAL CASES. RECORDED FROM BIRTH THROUGH EIGHT MONTHS OF AGE.

- D120 ENZYME STUDIES IN CULTIVATED FETAL CELLS; HD-04339-01S1, NADLER, HENRY L.; CHILDRENS MEMORIAL HOSPITAL, CHICAGO, ILLINOIS; 1/70-3/70; CONTINUATION; \$8,275; NICHD

THIS PROJECT IS CONCERNED WITH ENZYME STUDIES IN CULTIVATED FETAL CELLS. THE NORMAL PATTERNS OF ENZYME DEVELOPMENT, UTILIZING CULTIVATED AMNIOTIC FLUID CELLS, HAVE BEEN STUDIED. BOTH QUANTITATIVE AND QUALITATIVE CHANGES WERE DEMONSTRATED. THESE CELLS HAVE BEEN SHOWN TO BE USEFUL FOR THE IN UTERO DETECTION OF BOTH CHROMOSOMAL ABERRATIONS AND INBORN ERRORS OF METABOLISM DURING THE FIRST FOUR MONTHS OF PREGNANCY.

- D125 FACTORS CONTRIBUTING TO SUCCESSFUL COMMUNITY ADJUSTMENT OF DISCHARGED RETARDATES RD-1606-P, BOWMAN, PETER W., PINELAND HOSPITAL AND TRAINING CENTER, POWNAL, MAINE, 7/1/68-9/30/69 RENEWAL \$23,207. SRS-ORD

THIS RESEARCH AIMS TO PROVIDE A DETAILED DESCRIPTION OF THE PAST AND PRESENT LIVES OF SOME 575 MENTALLY RETARDED AND DEFICIENT PATIENTS DISCHARGED FROM PINELAND HOSPITAL AND TRAINING CENTER, AND TO DETERMINE WHAT PREDICTIVE ELEMENTS IN THE PAST LIFE TRAJECTORIES ARE MOST CLOSELY ASSOCIATED WITH POST-DISCHARGE SUCCESS AND NON-SUCCESS.

- D130 HYPO-RESPONSIVENESS IN BRAIN-DAMAGED CHILDREN, NS 7975-01, BROWNING, ROBERT M., WISCONSIN CHILDREN'S TREATMENT CENTER, MADISON, WISCONSIN, 2/69-11/70, INITIAL, \$24,441. NINDS

INVESTIGATING THE HYPOTHESIS OF HYPO-RESPONSIVENESS OF VISUAL MOTOR DISCRIMINATION TASKS IN BRAIN-INJURED CHILDREN AS COMPARED WITH NORMAL CHILDREN. REACTION TIMES AND ACCURACY OF DISCRIMINATION RESPONSES TEST THE HYPOTHESIS AS WELL AS GSR AND EKG MEASURES OF AROUSAL SINCE BRAIN-INJURED CHILDREN ARE LESS RESPONSIVE.

- D135 INKBLOT PERCEPTION AND PERSONALITY MH-3223-11 HOLTZMAN, WAYNE, UNIVERSITY OF TEXAS, AUSTIN, TEXAS, 9/1/69-8/31/70, RENEWAL, \$33,725. NIMH

THIS RESEARCH PROPOSES. IN THE 5TH YEAR OF A 6-YEAR LONGITUDINAL STUDY, TO GIVE MAJOR EMPHASIS TO THE DEVELOPMENTAL ASPECTS OF PERCEPTION AND RELATED COGNITIVE FUNCTIONING IN CHILDREN. AN OVERLAPPING DESIGN HAS BEEN EMPLOYED TO STUDY A 12-YEAR DEVELOPMENTAL SPAN IN ONLY 6 CALENDAR YEARS. SUBJECTS CONSIST OF 338 NORMAL CHILDREN FROM 3 DIFFERENT GRADE LEVELS, 3 YEARS APART, STARTING WITH THE 4TH GRADE.

- D140 LEARNING AND TRANSFER IN NORMAL AND RETARDED CHILDREN; HD-3917-02; CAMPIONE, JOSEPH C.; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 12/69-11/70; CONTINUATION; \$16,616; NICHD.

THIS PROJECT INCLUDES THREE SETS OF EXPERIMENTS: 1) TO ASSESS THE RELATIVE CONTRIBUTIONS OF VERBAL MEDIATING RESPONSES AND PERCEPTUAL OBSERVING RESPONSES IN MEDIATING TRANSFER OF A DISCRIMINATION; 2) TO STUDY THE TRANSPOSITION OF BEHAVIOR IN NORMAL AND RETARDED CHILDREN; AND 3) TO COMPARE THE ATTENTIONAL BEHAVIOR OF NORMAL AND RETARDED SUBJECTS.

- D145 LEARNING AND TRANSFER PROCESS IN MENTAL DEFECTIVES MH-1099-15, ZEAMAN, DAVID, UNIVERSITY OF CONNECTICUT, STORRS, CONNECTICUT, 9/1/69-8/31/70, RENEWAL, \$75,019. NIMH

THIS RESEARCH FOCUSES ON THE OPPOSING EFFECTS OF INTRADIMENSIONAL AND EXTRADIMENSIONAL SHIFTS IN THE ATTENTIONAL AND RETENTIONAL ASPECTS OF THE DISCRIMINATIVE LEARNING OF RETARDATES.

- D150 LONGITUDINAL AND RELATED PSYCHOHORMONAL STUDIES HD-00325-14 MONEY, JOHN, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD., 6/70-5/71 RENEWAL \$41,182. NICHD

THIS RESEARCH CONCERNS HOMOSEXUALITY, PRECOCIOUS PUBERTY AND OTHER SYNDROMES CHILDHOOD AND ADULT MATERNALISM IN ENDOCRINE AND CYTOGENETIC SYNDROMES TOMBOYISHNESS AND ADRENOGENITAL SYNDROME MALE HER-

MAPHRODITISM, SEX REASSIGNMENT REQUESTS IN HERMAPHRODITISM TESTICULAR FEMINIZING SYNDROME PERSONALITY IN THE XXY AND XO SYNDROMES AND BODY IMAGE IN HOMOSEXUALITY AND TRANSSEXUALISM AND OTHER PARAPHIAS.

- D155 MEASUREMENT AND REMEDIATION OF SOCIAL COMPETENCY DEFICITS RD-3142-P, DE JUNG, JOHN E., UNIVERSITY OF OREGON, EUGENE, OREGON, 5/1/70-4/30/71 CONTINUATION \$64,125. SRS-ORD

TO STUDY REQUISITES OF ADEQUATE SOCIAL BEHAVIOR WITHIN POPULATIONS OF RETARDED AND LOW INCOME ADOLESCENTS, AND TO DEVELOP AN EXPERIMENTAL SOCIAL COMPETENCY CURRICULUM FOR JUNIOR HIGH SCHOOL STUDENTS AND TO MODIFY AND VALIDATE THE TEST OF SOCIAL INFERENCE ON THESE POPULATIONS.

- D156 MEMORY PROCESSES OF AVERAGE AND RETARDED PERSONS; HD-04760-01; BUTTERFIELD, EARL C.; UNIVERSITY OF KANSAS; KANSAS CITY, KANSAS; 6/70-5/71; INITIAL; \$14,236; NICHD

THE MAJOR OBJECTIVE OF THIS RESEARCH IS TO DETERMINE WHETHER RECALL DEFICITS IN CHILDREN AND MENTAL RETARDATES ARE DUE TO PROBLEMS OF ACQUISITION, RETENTION, OR RETRIEVAL. ATTEMPTS ARE BEING MADE TO MORE FULLY UNDERSTAND THE NATURE OF ACQUISITION AND RETRIEVAL PROCESSES AS A PRELIMINARY TO FURTHER INVESTIGATIONS WITH CHILDREN AND RETARDATES.

- D160 NEONATAL AUDITION, LEARNING, AND INTELLECT; HD-04756-01; BUTTERFIELD, EARL C.; UNIVERSITY OF KANSAS; KANSAS CITY, KANSAS; 6/70-5/71; INITIAL; \$33,949; NICHD

THE MAJOR CONCERN OF THIS RESEARCH IS THE DEVELOPMENT OF DIAGNOSTIC MEASURES FOR THE PREDICTION OF MILD MENTAL RETARDATION. SPECIFICALLY, AUDITORY SENSITIVITY MEASURES WILL BE OBTAINED FROM NEONATES LESS THAN THREE DAYS OF AGE WHO HAVE LEARNED AN INSTRUMENTAL RESPONSE WITH CONTINGENT SENSORY STIMULATION AS A REINFORCER. DIFFERENCES BETWEEN NEONATES IN TERMS OF RESPONSIVENESS WILL BE CORRELATED TO SUBSEQUENT INTELLECTUAL DEVELOPMENT.

- D165 ONTOGENY OF VISUAL AND AUDITORY EXPLORATION IN INFANTS; HD-03386-03; SIQUELAND, EINAR R.; BROWN UNIVERSITY; PROVIDENCE, RHODE ISLAND; 2/70-1/71; CONTINUATION; \$ 30,513; NICHD.

THE PURPOSE OF THIS RESEARCH IS TO INVESTIGATE THE DEVELOPMENT OF VISUAL AND AUDITORY EXPLORATION IN NEUROLOGICALLY SUSPECT AND ABNORMAL INFANTS THROUGH ONTOGENETIC STUDIES OF VISUAL AND AUDITORY REINFORCEMENT.

- D166 ORGANIC METABOLITES RELATED TO MENTAL RETARDATION; HD-04870-01; MARKEY, SANFORD P.; UNIVERSITY OF COLORADO; DENVER, COLORADO; 6/70-5/71; INITIAL; \$25,605; NICHD

THE MAJOR OBJECTIVES OF THIS RESEARCH ARE TO IDENTIFY AND QUANTITATE ORGANIC ACIDS IN URINE OF NORMAL CHILDREN AND CHILDREN WITH KNOWN METABOLIC DISORDERS. ABNORMAL EXCRETION PATTERNS WILL BE STUDIED WITH THE AIM OF EXPEDITING DIAGNOSIS. A SECOND STUDY WILL INVOLVE THE DEVELOPMENT OF RAPID PROCEDURES FOR STRUCTURE DETERMINATION OF MICROGRAM QUANTITIES OF ISOLATED GANGLIOSIDES AND SMALL POLYSACCHARIDES.

- D170 PROBLEM SOLVING AND DEVELOPMENT OF SOCIAL AND WORK SKILLS OF MENTALLY RETARDED RD-3058-P, BUTLER, ALFRED J., UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN, 4/01/70-3/31/71 CONTINUATION \$55,100. SRS-ORD

TO DEVELOP AND REFINE A THEORY OF PROBLEM-SOLVING WHICH WILL FOCUS ON FACTORS CONTRIBUTING TO THE DEVELOPMENT OF WORK AND SOCIAL SKILLS IN RETARDED PERSONS.

- D172 PROGRAM INFORMATION AND EVALUATION SYSTEM. HAUGEN, DWIGHT E. DEPARTMENT OF VOCATIONAL REHABILITATION, SALEM, OREGON, RD-2987-G, 8/1/69-10/31/70 CONTINUATION \$95,354. SRS-ORD

A PROJECT TO DEVELOP A COMPREHENSIVE PROGRAM INFORMATION AND EVALUATION SYSTEM FOR A STATE VOCATIONAL REHABILITATION AGENCY.

- D175 PERCEPTION IN PREMATURE, TERM AND DEFECTIVE INFANTS HD4212-02, FANTZ, ROBERT L., CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, 5/70-4/71 CONTINUATION \$56,121. NICHD

TWO AIMS OF THIS PROJECT ARE TO EXTEND VISUAL PREFERENCE TESTING TO AS EARLY A POINT IN INFANT

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- DEVELOPMENT AS POSSIBLE AND TO VERIFY SUGGESTED DIFFERENCES IN RESPONSES RELATED TO THE LEVEL OF NEURAL MATURATION OF INFANTS BORN BEFORE TERM.
- D180 QUANTITATIVE HUMAN CHROMOSOME STUDY AIDED BY COMPUTER; HD-02860-04; NEURATH, PETER W.; NEW ENGLAND MEDICAL CENTER HOSPITALS; BOSTON, MASSACHUSETTS; 6/70-5/71; RENEWAL; \$31,240; NICHD**
- THIS RESEARCH CONCERNS THE PERFORMANCE OF CHROMOSOME ANALYSES IN GREATER DEPTH AND ON A LARGER PERCENTAGE OF PATIENTS BY MAKING USE OF THE DEVELOPMENT OF A COMPUTER-AIDED SYSTEM OF CHROMOSOME ANALYSIS. CLINICIANS CAN BE INCLUDED AT THE EARLIEST POSSIBLE STAGE AND BECOME FAMILIAR WITH THE COMPUTER SYSTEM, WHILE ENGAGED IN CHROMOSOME RESEARCH.
- D185 RESEARCH IN DEVELOPMENTAL PSYCHOLOGY; HD-05027-01; STEVENSON, HAROLD W.; UNIVERSITY OF MINNESOTA; MINNEAPOLIS, MINNESOTA; 6/70-5/71; INITIAL; \$165,406; NICHD**
- THIS PROJECT IS CONCERNED WITH SEVERAL AREAS OF DEVELOPMENTAL PSYCHOLOGY. THE THREE MAJOR AREAS ARE LEARNING IN CHILDREN AND COGNITIVE DEVELOPMENT, SOCIALIZATION PROCESSES, AND PERCEPTUAL DEVELOPMENT. TOPICS TO BE STUDIED IN THE LEARNING CATEGORY ARE INDIVIDUAL DIFFERENCES IN CHILDREN'S LEARNING, DEVELOPMENT OF STUDYING-MEMORIZATION STRATEGIES, DEVELOPMENT OF ROLE TAKING AND COMMUNICATION SKILLS, PIAGETIAN CONCEPTS AND INTERACTIVE EFFECTS OF SUBJECT STRUCTURE AND SITUATIONAL STRUCTURE ON COGNITIVE PERFORMANCE. SOCIALIZATION PROCESSES WILL INCLUDE IMITATION STUDIES, CHILDHOOD SOCIAL INTERACTION, AND SOCIAL DETERMINANTS OF CHILDREN'S LEARNING AND ATTACHMENT STUDIES. PERCEPTUAL DEVELOPMENT WILL INCLUDE INITIATION, SELECTIVITY, AND MAINTENANCE, OF PERCEPTION, PERCEPTUAL MOTOR SYSTEMS, AND PRACTICAL ASPECTS OF PERCEPTUAL DEVELOPMENT.
- D190 THE REASONING, MORAL JUDGEMENT, AND MORAL CONDUCT OF RETARDATEES - PHASE TWO RD-3143-P; STEPHENS, WILL BETH, TEMPLE UNIVERSITY, PHILADELPHIA, PA. 5/1/70-4/30/71 CONTINUATION \$76,000. SRS-ORD**
- TO ASSESS THE DEVELOPMENT OF MORAL REASONING, MORAL JUDGEMENT, AND MORAL CONDUCT AMONG MENTAL RETARDATEES.
- D195 SEX LINKED TRAITS IN TURNERS SYNDROME - FAMILY STUDY; HD-03742-02; GARRON, DAVID C.; RUSH-PRESBYTERIAN-ST LUKES MEDICAL CENTER, CHICAGO, ILLINOIS; 11/69-10/70; CONTINUATION; \$9,851 NICHD**
- THIS RESEARCH IS CONCERNED WITH HYPOTHESES THAT SPATIAL AND NUMERIC ABILITIES ARE TRAITS WHOSE INHERITANCE IS MONOZYGOUS, SEX-LINKED, AND RECESSIVE. THIS IS BEING DONE BY DETERMINING THE DISTRIBUTION OF THESE ABILITIES IN FAMILIES IN WHICH ONE PHENOTYPIC FEMALE SIB POSSESSES AN XO SEX CHROMOSOME COMPLEMENT (TURNER'S SYNDROME). MOTHERS, FATHERS, NORMAL BROTHERS, AND NORMAL SISTERS OF THE SIB WITH TURNER'S SYNDROME WILL BE TESTED.
- D196 SIGNIFICANCE OF VARIATION DURING CHILD GROWTH; HD-00157-10; SAVARA, BHIM SEN; UNIVERSITY OF OREGON; PORTLAND, OREGON; 1/70-12/70; RENEWAL; \$36,181, NICHD**
- THIS IS A LONGITUDINAL STUDY OF DENTO-FACIAL GROWTH AND DEVELOPMENT FROM BIRTH TO MATURITY. STUDIES ARE BEING DONE ON THE INTERRELATIONSHIPS OF FACIAL GROWTH, DENTITION, PHYSICAL GROWTH, PHYSIQUE, AND SKELETAL MATURATION. IN ADDITION, COLLABORATIVE WORK IS ESTABLISHING NEW FACIAL AND DENTITION NORMS TO AID IN DIAGNOSIS OF CHILDREN WITH ENDOCRINE DISORDERS OR GENETIC SYNDROMES.
- D200 SHORT-TERM MEMORY IN THE RETARDED CHILD; HD-02898-04; SCOTT, KEITH G.; UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS; 6/70-5/71; RENEWAL; \$28,913; NICHD**
- THIS RESEARCH PROPOSES TO INVESTIGATE THE CAUSES OF INTERFERENCE IN CHILDREN'S SHORT-TERM MEMORY AND SEE HOW THIS RELATES TO INTELLIGENCE AND DEVELOPMENT. THE RESULTS SHOULD GIVE FURTHER SCIENTIFIC INFORMATION ABOUT DEVELOPMENT OF PROCEDURES AND CONTRIBUTE TO THE TRAINING AND MANAGEMENT OF THE RETARDED.
- D205 STIMULUS FACTORS IN VERBAL LEARNING OF RETARDATEES; HD-02588-05; BAUMEISTER, ALFRED A.; UNIVERSITY OF ALABAMA; UNIVERSITY, ALABAMA; 6/70-5/71; CONTINUATION; \$25,695; NICHD**
- THE GOAL OF THIS PROJECT IS TO INVESTIGATE CERTAIN ASPECTS OF VERBAL LEARNING PROCESSES IN RELATION TO MENTAL RETARDATION. EXPERIMENTS ARE BEING CONDUCTED TO DETERMINE THE VARIOUS STIMULUS PARAMETERS THAT AFFECT LEARNING RATE AND RETENTION IN PERSONS WITH LOW INTELLIGENCE. FACTORS WHICH GOVERN THE SELECTION AND UTILIZATION OF CUES IN ASSOCIATIVE VERBAL LEARNING ARE OF PRIMARY CONCERN. TWO LINES OF INVESTIGATION ARE BEING FOLLOWED - ONE CONCERNED WITH TEMPORAL FACTORS AND THE OTHER RELATING TO CONTEXTUAL VARIABLES. THE DATA FROM THESE STUDIES WILL BE INTEGRATED INTO A MORE COMPREHENSIVE DESCRIPTION OF FUNCTIONAL LEARNING DISORDERS ASSOCIATED WITH MENTAL RETARDATION. IN ADDITION, BASIC INFORMATION WILL BE OBTAINED CONCERNING THE LEARNING AND RETENTION OF VERBAL MATERIAL BY NORMAL CHILDREN.
- D210 VARIED REINFORCEMENT AND CONDITIONED REINFORCERS; HD-03859-02; STEINMAN, WARREN M.; UNIVERSITY OF ILLINOIS; URBANA, ILLINOIS; 1/70-12/70; CONTINUATION; \$17,669; NICHD**
- THE PURPOSE OF THIS RESEARCH IS TO DISCOVER HOW THE REINFORCING PROPERTIES OF A STIMULUS ARE AFFECTED WHEN CHILDREN HAVE THE STIMULUS GENERALIZED TO THE ATTAINMENT OF A VARIETY OF REINFORCERS. SPECIFIC FORMS OF REINFORCEMENT VARIETY WILL BE MANIPULATED IN ORDER TO DETERMINE THEIR EFFECT ON THE PROPERTIES OF A GENERALIZED CONDITIONED REINFORCER. SUCH INFORMATION WOULD BE USEFUL NOT ONLY TO THE UNDERSTANDING OF CONDITIONED REINFORCEMENT, BUT IT ALSO COULD BE EXTREMELY VALUABLE TO THOSE ENGAGED IN THE PRACTICAL PROBLEMS OF CHILD REARING, EDUCATION AND THERAPY.

PREVENTION

- E005 AUTOMATED MONITORING OF SICK INFANTS HD4138-02 VEASY, L. GEORGE, PRIMARY CHILDRENS HOSPITAL, SALT LAKE CITY, UTAH 2/70-1/71 CONTINUATION \$42,684. NICHD**
- THIS PROJECT WILL EMPLOY COMPUTERIZED TECHNIQUES TO ESTABLISH A SYSTEM OF MONITORING ACUTELY ILL INFANTS THAT WILL PROVIDE IMMEDIATE ACCURATE DATA AND WILL STILL BE PRACTICAL FOR WIDE SPREAD CLINICAL APPLICATION. THE DEVELOPMENT WILL BE CARRIED OUT IN THREE STEPS (1) DEVELOPMENT OF A METHOD OF ONLINE COMPUTER DETERMINATION OF ARTERIAL BLOOD GAS, PH, AND ELECTROLYTES (2) CLINICAL APPLICATION OF THIS TECHNIQUE, AND (3) MODIFICATION OF SUCCESSFUL COMPUTERIZED MONITORING SYSTEMS IN ADULTS FOR INFANT APPLICATION.
- E015 DIAGNOSTIC-THERAPEUTIC STUDIES OF HIGH-RISK PREGNANCY H-192, STONE, MARTIN L., NEW YORK MEDICAL COLLEGE, NEW YORK, N.Y., 7/1/70-6/30/71 CONTINUATION, \$191,843. HSMHA-MCHS**
- THIS RESEARCH PROPOSES TO APPLY CERTAIN BIOCHEMICAL AND ENDOCRINE PARAMETERS TO A PROGRAM FOR STUDY OF 'HIGH-RISK' PREGNANT WOMEN RECEIVING TOTAL MATERNITY CARE AND TO STUDY THE ROLE OF THIAZIDES, USED PROPHYLACTICALLY, ON A SPECIFIC GROUP OF 'HIGH-RISK' PREGNANT WOMEN (GRAVIDA 16 YEARS OF AGE OR YOUNGER).
- E025 PREVENTION OF BILIRUBIN ENCEPHALOPATHY IN THE NEWBORN; HD-04458-01; HAKAMI, NASRULLAH; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 11/69-10/70; INITIAL; \$11,677; NICHD**
- THIS RESEARCH IS DIRECTED TOWARD EVALUATING POSSIBLE DELETERIOUS EFFECTS OF PHOTOTHERAPY IN PREVENTING HYPERBILIRUBINEMIA. PHOTODECOMPOSITION PRODUCTS OF BILIRUBIN FOLLOWING PHOTOTHERAPY WILL BE EVALUATED IN TERMS OF THEIR TOXICITY IN SICK AND PREMATURE INFANTS. CLINICALLY USEFUL TESTS FOR MEASUREMENT OF ALBUMIN-BILIRUBIN BINDING CAPACITY ARE ALSO BEING DEVELOPED.
- E030 PREVENTION OF HEMOLYTIC DISEASE OF THE NEWBORN HD-01955-05, GORMAN JOHN G., COLUMBIA UNIVERSITY, NEW YORK, N.Y., 2/70-1/71 CONTINUATION \$13,037. NICHD**
- THIS RESEARCH INVOLVES THE RH IMMUNOGLOBULIN IGG PREPARED FROM HIGH TITERED ANTI-RH ANTIBODY CONTAINING PLASMA POOLS. INJECTED INTRAMUSCULARLY IT HAS PRODUCED PASSIVE TITER OF ARTIFICIALLY STIMULATED RH NEGATIVE VOLUNTEERS. ASSESSMENT OF THE EFFECTIVENESS OF RH IMMUNOGLOBULIN IN PREVENTING SENSITIZATION OF RH NEGATIVE MOTHERS AT RISK IS UNDERWAY.

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AMELIORATION

- F001 GEEL BELGIUM FOSTER FAMILY CARE RESEARCH**
PROJECT MH-18013-01 SROLE, LEO, COLUMBIA
UNIVERSITY, NEW YORK, NEW YORK, 6/1/70-5/31/71,
INITIAL, \$45,480, NIMH
- THE INVESTIGATOR PLANS TO ASSESS CHANGES IN ADAPTA-
TION OF THE CHRONICALLY DISABLED MENTAL PATIENTS IN-
CLUDING RETARDATES AS A RESULT OF PLACEMENT IN GEEL
FOSTER FAMILIES.
- F010 REMEDIATION OF DISTURBED AND RETARDED**
CHILDREN MH-7346-06 SPRAGUE, ROBERT L.,
UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS 9/1/69-
8/31/70, RENEWAL, \$362,074, NIMH
- THIS RESEARCH CONCERNS PRIMARILY PSYCHOEDUCATIONAL
PROBLEMS IN THE REMEDIATION OF MENTALLY RETARDED
AND EMOTIONALLY DISTURBED CHILDREN.
- F015 THERAPY FOR RETARDATES WITH COMMUNICATION**
DISORDERS MH-14877-07 SCHIEFELBUSCH, R.L.,
UNIVERSITY OF KANSAS, LAWRENCE, KANSAS,
9/1/69-8/31/70, RENEWAL, \$107,698, NIMH
- THIS RESEARCH PROPOSES THE ORGANIZATION OF A SYSTEM OF
TRAINING THROUGH DEMONSTRATION AND DISSEMINATION OF
INFORMATION IN THIS CLINICAL SPECIALTY. PARTICIPANTS
WILL BE SELECTED ON THE BASIS OF PREVIOUS PROFESSIONAL
TRAINING AND EXPERIENCE AND ON CURRENT PROFESSIONAL
ACTIVITIES. INTEGRAL TO THE PROJECT'S OPERATION WILL BE
THE EVALUATION OF DEMONSTRATION ORGANIZATION AND
TECHNIQUES.

AMELIORATION - EDUCATION

- G005 A CENTER FOR EDUCATIONAL RESEARCH AND**
DEVELOPMENT IN MENTAL RETARDATION OE6-0-9-
242178-4149 SUSKIN, SAMUEL AND SPICKER, HOWARD
INDIANA UNIVERSITY FOUNDATION BLOOMINGTON
INDIANA 06/01/69-6/30/71 CONTINUATION \$682,683, OE
- THIS CENTER WILL STIMULATE, FACILITATE, CARRY OUT, AND
COORDINATE A VARIETY OF RESEARCH AND DEVELOPMENT EF-
FORTS TO IMPROVE EDUCATIONAL PRACTICE WITH THE MEN-
TALLY RETARDED. THE GOALS OF SUCH IMPROVEMENT
WILL BE TO: (1) ENABLE MORE MILDLY RETARDED CHILDREN TO
SUCCESSFULLY MOVE THROUGH SCHOOL WITHOUT BEING
IDENTIFIED AS RETARDED (2) ENABLE MORE CHILDREN
IDENTIFIED AS MILDLY AND MODERATELY RETARDED DURING
THEIR SCHOOL YEARS TO ENTER ADULT LIFE AS NONRE-
TARDED, FUNCTIONAL AND ACCEPTABLE MEMBERS OF
SOCIETY.
- G010 COGNITIVE FUNCTIONS OF RETARDED EARLY**
ADOLESCENTS; HD-04634-01; FEUERSTEIN, REUVEN;
CHILD GUIDANCE CLINIC; JERUSALEM, ISRAEL; 2/70-
1/71; INITIAL; \$73,025; NICHD
- PROPERTIES OF UNDER-DEVELOPED INTELLECTUAL PROCESSES
UNDER SPECIFIED STIMULUS CONDITIONS IN A POPULATION OF
EDUCATIONALLY RETARDED, DISADVANTAGED ISRAELI
YOUTH WILL BE EVALUATED. THE SPECIFIC AIMS OF THE
RESEARCH ARE AS FOLLOWS: A DESCRIPTIVE ANALYSIS OF THE
COGNITIVE FUNCTIONING OF EDUCATIONALLY RETARDED
ADOLESCENTS IN AN ATTEMPT TO ASCERTAIN THE EXTENT OF
MODIFIABILITY OF COGNITIVE FUNCTIONING; AND A DETER-
MINATION OF THE VALIDITY OF SEVERAL DIAGNOSTIC MEAS-
URES IN PREDICTING REDEVELOPMENT OF COGNITIVE FUNC-
TIONS.
- G015 A CURRICULUM CENTER IN SOCIAL LEARNING FOR**
SPECIAL CLASS PROGRAMS FOR THE EDUCABLE
MENTALLY RETARDED OEG 32-42-1700-6018,
GOLDSTEIN, HERBERT, YESHIVA UNIVERSITY, NEW
YORK, N.Y., 6/1/66-6/30/71 CONTINUATION \$625,033,
OE
- THIS RESEARCH CONCERNS A CENTER TO DEVELOP AND PRO-
VIDE A COMPREHENSIVE PROGRAM IN SOCIAL LEARNING FOR
SPECIAL TEACHERS OF THE EDUCABLE MENTALLY RETARDED.
- G020 EARLY INTELLIGENT TRAINING AND SCHOOL**
PERFORMANCE; (1) HD-02253-04S1, (3) HD02253-04S2;
PALMER, FRANCIS H.; CITY UNIVERSITY OF NEW
YORK, NEW YORK, NEW YORK; (1) 5/7-11/70, (2) 5/70-
11/70; CONTINUATION (1) \$4,642, (2) \$40,638; NICHD
- THIS RESEARCH PROPOSES TO DETERMINE THE EFFECTS OF
TRAINING CHILDREN AGED 2 AND 3 UPON SUBSEQUENT PER-
FORMANCE IN THE FIRST GRADE TO INVESTIGATE THE MAIN
AND INTERACTIVE EFFECTS OF TRAINING, AGE OF TRAINING,
AND SOCIAL CLASS ON SUBSEQUENT CLASS-ROOM PER-

FORMANCE AND TO DETERMINE THE RELATIONSHIP BETWEEN
EDUCATION OF PARENTS, ORDINAL POSITION, SIZE OF FAMILY,
AND OTHER BACKGROUND CHARACTERISTICS.

- G025 A PILOT PROJECT IN CURRICULUM DEVELOPMENT FOR**
WORK, EXPERIENCE AND OCCUPATIONS FOR
EDUCABLE MENTALLY RETARDED CHILDREN,
GROELLE MARVIN C., OAKLAND UNIFIED SCHOOL
DISTRICT, OAKLAND, CALIFORNIA, 8/1/66- 7/31/67
RENEWAL, \$4,651, OE
- THIS RESEARCH AIMS TO DEVELOP CURRICULUM AND INSTRU-
CTIONAL MATERIALS FOR A (WORK EXPERIENCE AND OCCUPA-
TIONS) COURSE FOR EDUCABLE MENTALLY RETARDED STUD-
ENTS TO ASSIST THEM IN DEVELOPING VOCATIONAL SKILLS
AND ATTITUDES NECESSARY TO OBTAIN AND RETAIN JOBS.
- G026 A PROGRAM PROJECT RESEARCH AND**
DEMONSTRATION EFFORT IN ARITHMETIC AMONG
THE MENTALLY HANDICAPPED OEG-0-70-2250
CAWLEY, JOHN F., UNIVERSITY OF CONNECTICUT,
STORRS, CONNECTICUT, 1/15/70-1/14/71, INITIAL,
\$79,511, OE
- THIS PROGRAM WILL ATTEMPT TO INVESTIGATE THE BASIS FOR
MORE APPROPRIATE AND CREATIVE ARITHMETIC PROGRAMS
FOR MENTALLY HANDICAPPED CHILDREN AND FOR HAND-
ICAPPED AND NON-HANDICAPPED CHILDREN WHO ARE NOT
ACHIEVING AT A REASONABLE LEVEL. THE OBJECTIVES ARE TO
ANALYZE TEACHER PRACTICES, TEACHER TRAINING AND COM-
PETENCIES AND TEACHER ATTITUDES WITHIN THE
FRAMEWORK OF THE ARITHMETIC PROGRAM FOR THE MEN-
TALLY HANDICAPPED; TO STUDY THE DEVELOPMENT OF QUAN-
TITY AMONG THE MENTALLY HANDICAPPED AND THE LEVELS
AT WHICH THIS DEVELOPMENT IS MANIFESTED; TO STUDY THE
PROBLEM-SOLVING TRAITS OF MENTALLY HANDICAPPED CHIL-
DREN; AND TO DEVELOPE INSTRUCTIONAL PRACTICES AND
PROCEDURES TO IMPROVE THE LEVELS OF ARITHMETIC PER-
FORMANCE AMONG THE MENTALLY HANDICAPPED.
- G027 THE EFFECTS OF INTERVENTION ON INFANTS' MENTAL**
HEALTH; HD-04299-01 KAGAN, JEROME; HARVARD
UNIVERSITY; BOSTON, MASSACHUSETTS; 9/69-8/70;
INITIAL; \$220,459; NICHD
- THIS RESEARCH IS CONCERNED WITH EVALUATING THE DIF-
FERENT EFFECTS OF SPECIFIC EXPERIMENTAL INTERVENTIONS
IN THE EXPERIENCE OF URBAN NEGRO INFANTS OF LOW SOCIO-
ECONOMIC STATUS. A COMPARISON IS BEING MADE OF THE
PSYCHOLOGICAL CONSEQUENCES OF AN EXPERIMENTAL
TEACHING AND TRAINING PROGRAM IN MATERNAL PRACTICES
AND THE COMBINATION OF THESE PROGRAMS FOR THE COGNI-
TIVE AND BEHAVIORAL DEVELOPMENT OF THE INFANT. AN AS-
SESSMENT WILL ALSO BE MADE OF THE EFFECT OF THESE PRO-
GRAMS ON THE MOTHER'S INVOLVEMENT WITH HER CHILD.
- G030 A RESEARCH AND TRAINING PROGRAM IN SELECTED**
ASPECTS OF LEXICAL AND SYNTACTIC
DEVELOPMENT IN THE MENTALLY RETARDED OE6-0-
9-532163-4554 SEITZ, SUE TEXAS RESEARCH
INSTITUTE OF MENTAL SCIENCES HOUSTON, TEXAS
6/30/69- 6/29/72 CONTINUATION \$93,179, OE
- THE PURPOSE OF THIS RESEARCH PROGRAM IS TWOFOLD: (1) TO
TRACE THE SEQUENCE OF THE DEVELOPMENT OF THE LEXICON
AND SYNTAX IN RETARDED CHILDREN AND (2) TO DETERMINE
IF THAT DEVELOPMENT CAN BE MORE FULLY AND MORE
QUICKLY REALIZED THROUGH AN EXPERIMENTAL PROGRAM OF
INSTRUCTION.
- G035 A SCHOOL PROGRAM FOR YOUNG MONGOLOID**
CHILDREN: A CURRICULUM DEVELOPMENT
PROJECT, OEG-0-8-001025-1777 CHALFANT, JAMES C.,
UNIVERSITY OF ILLINOIS URBANA, ILLINOIS, 9/1/67-
8/31/70, CONTINUATION, \$171,075, OE
- THIS PROJECT WILL DEVELOP A TRAINING CURRICULUM FOR
CHILDREN WITH DOWN'S SYNDROME, IN ITS SECOND PHASE THE
CURRICULUM WILL BE TESTED WITH RETARDED CHILDREN.
THE TRAINING WILL INCLUDE BEHAVIOR SHAPING RELATED TO
SELF-HELP SKILLS, COGNITIVE TRAINING, AND LANGUAGE
TRAINING.
- G040 ADJUSTMENT AND ACHIEVEMENT IN A**
DESEGREGATED SCHOOL HD-02863-04 GERALD,
HAROLD B., UNIVERSITY OF CALIFORNIA, RIVERSIDE,
CALIFORNIA, 6/70-5/71 CONTINUATION \$245,679,
NICHD
- THIS RESEARCH EXAMINES THE ANTECEDENTS, CONCOMI-
TANTS, AND CONSEQUENCES OF SUCCESSFUL INTEGRATION OF
NEGRO, MEXICAN-AMERICAN, AND WHITE CHILDREN IN THE
ELEMENTARY GRADES OF THE PUBLIC SCHOOL SYSTEM. IT AS-
SESSES BOTH LONG TERM AND SHORT TERM EFFECTS OF
DESEGREGATION. THE MAJOR INDICES OF SUCCESS ARE
ACADEMIC ACHIEVEMENT AND EMOTIONAL ADJUSTMENT.

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- G046 AN EXPERIMENTAL STUDY TO DETERMINE THE INFLUENCE OF TYPE-WRITING ON SELECTED LANGUAGE ARTS SKILLS AND MOTOR DEVELOPMENT OF THE EDUCABLE MENTALLY HANDICAPPED, OEG-0-70-1220, ROWE, JOHN L., UNIVERSITY OF NORTH DAKOTA, GRAND FORKS, NORTH DAKOTA, 8/1/69-7/31/70, INITIAL, \$30,478. OE**
- THIS STUDY WILL ATTEMPT TO DETERMINE THE INFLUENCE OF TYPEWRITING ON THE ACADEMIC ACHIEVEMENT OF THE EDUCABLE MENTALLY HANDICAPPED IN READING, VOCABULARY DEVELOPMENT, SPELLING, AND ON MOTOR DEVELOPMENT. APPROXIMATELY 30 PUPILS WILL BE IN THE EXPERIMENTAL GROUP AND 30 PUPILS IN THE CONTROL GROUP. SUBJECTS IN THE EXPERIMENTAL GROUP WILL BE TAUGHT A MODIFIED TOUCH TYPEWRITING SKILL PRIOR TO THE EXPERIMENTAL LANGUAGE ARTS PROGRAM. AFTER ACQUIRING A MODIFIED TOUCH TYPEWRITING SKILL, THE EXPERIMENTAL GROUP WILL RECEIVE APPROXIMATELY 100 LESSONS IN SELECTED LANGUAGE ARTS SKILLS THROUGH THE USE OF THE TYPEWRITER. THE CONTROL GROUP WILL RECEIVE THE SAME AMOUNT OF BOTH PRELIMINARY TYPEWRITING INSTRUCTION AND LANGUAGE ARTS INSTRUCTION. IT IS ANTICIPATED THAT THE FINDINGS OF THIS STUDY WILL PROVIDE A BASIS FOR FUTURE PROGRAMS OF TYPEWRITING FOR THE EDUCABLE MENTALLY HANDICAPPED TO ENHANCE THEIR LEARNING PROCESS AND THEIR MOTOR DEVELOPMENT.
- G050 AN INTENSIVE TRAINING CURRICULUM FOR THE EDUCATION OF YOUNG EDUCABLE MENTALLY RETARDED CHILDREN OEG-0-9-142106-2444 ROSS SHIELA A AND ROSS DOROTHEA M PALO ALTO MEDICAL RESEARCH FOUNDATION PALO ALTO CALIFORNIA 01/01/69-12/31/71 CONTINUATION \$170,549. OE**
- THE OBJECTIVES OF THIS PROJECT ARE (1) TO PREPARE AN INTENSIVE TRAINING CURRICULUM WITH EMPHASIS ON THE ACQUISITION OF GENERAL LEARNING SKILLS AND SPECIFIC SUBJECT MATTER AND SOCIAL SKILLS AND (2) TO TEST THE HYPOTHESIS THAT THIS CURRICULUM CAN RESULT IN PROGRESS SIGNIFICANTLY GREATER THAN THAT WHICH OCCURS WITH THE TRADITIONAL CURRICULA CURRENTLY IN USE FOR YOUNG EMR CHILDREN
- G055 AN INVESTIGATION OF FACTORS INFLUENCING LEARNING IN THE MENTALLY RETARDED AND THEIR USE IN THE DESIGN OF INSTRUCTIONAL MATERIALS, OEG-0-8-070185-1750, SEITZ, SUE, AUSTIN STATE SCHOOL, AUSTIN, TEXAS, 9/1/67-8/30/70 CONTINUATION \$15,649. OE**
- THIS RESEARCH WILL INVESTIGATE SOME OF THE VARIABLES AND LEARNING TASKS RELEVANT TO THE DESIGN OF INSTRUCTIONAL MATERIALS. THE EFFECTIVENESS OF PROMPTING VS CONFIRMATION, AS A TRAINING PROCEDURE WILL BE EXAMINED. THE PROJECT WILL DEVELOP VARIOUS INSTRUCTIONAL MATERIALS BASED ON THE RESEARCH RESULTS.
- G065 AUDITORY PERCEPTUAL ABILITY RELATED TO LANGUAGE ACQUISITION IN MENTALLY RETARDED CHILDREN OEG-0-8-001242-1797 GRAHAM, JAMES T., EMORY UNIVERSITY, ATLANTA, GEORGIA, 9/1/67-8/31/71, CONTINUATION \$114,982. OE**
- THE OBJECTIVE OF THIS PROJECT IS THE DEVELOPMENT OF THE DATA, RELATED TO AUDITORY PERCEPTION AND LANGUAGE ACQUISITION IN THE MENTALLY RETARDED, THAT ARE REQUIRED FOR THE GENERATION OF MODELS OF LANGUAGE STIMULATION AND THERAPY PROGRAMS.
- G066 BASIC COMPONENTS IN THE MOTOR PERFORMANCE AND THE MOTOR LEARNING OF EDUCABLE RETARDED: IMPLICATIONS FOR CURRICULUM, OEG-0-70-2568(610), RARICK, G. LAWRENCE, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA, 2/1/70-1/31/72, INITIAL \$174,849. OE**
- THE PURPOSE OF THE PROPOSED RESEARCH PROJECT IS TO DETERMINE THE FACTOR STRUCTURE OF MOTOR ABILITIES OF EDUCABLE MENTALLY RETARDED CHILDREN AND TO ASCERTAIN HOW SIGNIFICANT THESE FACTORS ARE IN THE LEARNING OF MOTOR SKILLS. THE INVESTIGATION WILL ALSO SEEK TO DETERMINE IF THE BASIC COMPONENTS AS IDENTIFIED IN THE FACTOR ANALYSIS ARE IMPORTANT IN THE ACQUISITION OF PARTICULAR SKILLS. FROM THE RESULTS OF THE INITIAL ANALYSES AND THE EXPERIMENTAL WORK, CONSIDERABLE INSIGHT SHOULD BE FORTHCOMING REGARDING THE NATURE OF MOTOR ABILITIES AND MOTOR SKILL LEARNING IN THE RETARDED.
- G070 BENNINGTON COUNTY DAY PROGRAM FOR PRE-SCHOOL MENTALLY RETARDED CHILDREN FORMAN, W. F., BENNINGTON COUNTY DAY SCHOOL, OEG-0-8-08482-3323 BENNINGTON, VERMONT, 3/1/68-7/31/70, CONTINUATION \$12,500. OE**
- THIS PROJECT IS AN EXPLORATORY EFFORT TO DEVELOP AND EVALUATE A DAY CARE PROGRAM FOR PRE-SCHOOL MENTALLY RETARDED CHILDREN. THE PROGRAM WILL CONCENTRATE ON SPEECH DEVELOPMENT, MOTOR SKILLS, AND SELF-HELP TRAINING IN A GENERAL PROGRAM OF SCHOOL READINESS TRAINING.
- G080 CLASSICAL CONDITIONING IN RETARDATES AND NORMALS MH-10235-06, ROSS, LEONARD E., UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN, 9/1/69-8/31/70, RENEWAL, \$37,482. NIMH**
- THIS RESEARCH USES CLASSICAL EYELID CONDITIONING TECHNIQUES TO INVESTIGATE BASIC LEARNING PROCESSES IN NORMAL AND RETARDED CHILDREN. PARAMETERS OF INTEREST INCLUDE CS-UCS INTERVALS, PARTIAL REINFORCEMENT EFFECTS, STIMULUS PARAMETERS AND INHIBITION PHENOMENA.
- G081 CLUSTERING AND SUBJECTIVE ORGANIZATION IN A FREE-RECALL TASK WITH RETARDATES: A COMPARISON OF TWO METHODS, OEG-20-70-0043(509), REISS, PHILIP, STATE UNIVERSITY OF NEW YORK STATE UNIVERSITY COLLEGE, BUFFALO, NEW YORK 6/30/70-2/27/71, INITIAL, \$3,977. OE**
- THIS STUDY WILL ATTEMPT TO EVALUATE THE DEGREE TO WHICH CLUSTERING MAY BE FACILITATED BY A PRECEDING SORTING TASK AND THE EFFECTS OF LIST ORGANIZATION. IT IS HYPOTHESIZED THAT THE SORTING TASK AND ORGANIZED LIST PRESENTATION WILL FACILITATE CLUSTERING AND RECALL AND THAT THESE WILL BE CORRELATED.
- G100 DETERMINING CRITERIA FOR ASSESSMENT AND REMEDIATION PROCEDURES IN SELECTED DEVELOPMENTAL PHYSICAL SKILLS OF TRAINABLE MENTALLY RETARDED AND MULTI-HANDICAPPED PUPILS OEG-0-9-142709-3463 CARR, DOROTHY B. LOS ANGELES CITY SCHOOLS LOS ANGELES CALIFORNIA 04/28/69-12/27/70 CONTINUATION \$167,643. OE**
- THE PURPOSE IS TO DEVELOP AND FIELD TEST DEVELOPMENTALLY SEQUENCED INSTRUCTIONAL ACTIVITIES APPROPRIATE FOR A COMPREHENSIVE PHYSICAL EDUCATION PROGRAM FOR HANDICAPPED PUPILS FROM PRE-SCHOOL THROUGH HIGH SCHOOL
- G106 EFFECTS OF CONTINGENT MUSIC ON RETARDED CHILDREN'S PERFORMANCE ON ADDITION PROBLEMS, OEG-0-70-1198, COTTER, VANCE W., UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, 9/15/69-9/14/70, INITIAL, \$31,458. OE**
- THE PURPOSE OF THE PRESENT PROJECT IS TO INVESTIGATE THE EFFECTS OF CONTINGENT MUSIC ON PERFORMANCE OF RETARDED CHILDREN. THE PROJECT ADDRESSES ITSELF TO FOUR QUESTIONS: (1) DOES CONTINGENT MUSIC AFFECT ACADEMIC PERFORMANCE DIFFERENTLY THAN SILENCE. (2) DOES MUSIC AFFECT ACADEMIC PERFORMANCE DIFFERENTLY WHEN IT IS PRESENTED CONTINUOUSLY THAN WHEN IT IS PRESENTED ON A CONTINGENT BASIS. (3) DOES CONTINGENT MUSIC AFFECT ACADEMIC PERFORMANCE DIFFERENTLY THAN CONTINGENT NONMUSICAL SOUNDS. (4) DOES THE EFFECT OF MUSIC ON ACADEMIC PERFORMANCE DIMINISH OVER TIME. THREE EXPERIMENTS HAVE BEEN DESIGNED TO ANSWER THESE QUESTIONS. ALL THREE EXPERIMENTS ALLOW FOR THE ANALYSES OF THE EFFECTS OF CONTINGENT MUSIC ON ARITHMETIC PERFORMANCE OVER TIME.
- G107 ENHANCEMENT OF PRODUCTIVE THINKING IN INSTITUTIONALIZED MENTAL RETARDATES OEG-2-700017, LADNER, JUDITH, FORDHAM UNIVERSITY, BRONX, NEW YORK, 3/1/70-2/28/71, INITIAL, \$2,469. OE**
- THE PURPOSE OF THE PROPOSED RESEARCH IS TO EVALUATE THE EFFECTIVENESS OF A PROGRAM BASED ON BRAINSTORMING WHICH IS TO BE ADDED TO THE CURRICULA OF EDUCABLE MENTALLY RETARDED (EMR) SUBJECTS IN ORDER TO INCREASE THEIR PRODUCTIVE THINKING ABILITIES. NINETY ADOLESCENT AND YOUNG ADULT INSTITUTIONALIZED EMR STUDENTS WILL BE INVOLVED IN THE PROGRAM. THE PROCEDURES TO BE FOLLOWED ARE: (1) PRETESTING 6 INTACT CLASSES OF EMR SUBJECTS WITH THE TORRANCE TESTS OF CREATIVE THINKING, FORM A. (2) EACH TEACHER WILL THEN TRAIN HIS OWN CLASS WITH A PROGRAM FOR THE ENHANCEMENT OF PRODUCTIVE THINKING ABILITIES. STATUS QUO FOR THE CONTROLS. (3) POST-TESTING ALL SUBJECTS WITH THE TORRANCE TESTS OF CREATIVE THINKING, FORM B.
- G110 EVALUATING AN INTEGRATED APPROACH TO THE MANAGEMENT OF CEREBRAL PALSY OEG-0-9-592149, 4540 HOUSE JAMES B WISCONSIN STATE UNIVERSITY, EAV CLAIRE WISCONSIN 6/1/69-1/31/73 CONTINUATION \$22,766. OE**
- THE PURPOSE OF THIS PROPOSAL IS TO EVALUATE THE EFFECTS OF AN INTEGRATED TREATMENT AND EDUCATIONAL APPROACH TO CEREBRAL PALSY PATTERNED AFTER THE

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- METHODS DEVELOPED BY THE HUNGARIAN NEUROLOGIST-EDUCATOR, ANDRAS PETO. 'INTEGRATED TREATMENT' MEANS THAT ALL TREATMENT AND TEACHING IS PERFORMED BY ONE TYPE OF PROFESSIONAL PERSON. TREATMENT WILL BE DONE WITH 20 SEVERELY INVOLVED ATHEOID CHILDREN WORKING AND LIVING AS A GROUP
- G115 FACILITATION OF COGNITIVE DEVELOPMENT AMONG CHILDREN WITH LEARNING DEFICITS** OEG-0-8-080054-2694, BURGARELLA, ROSARIA, CALIFORNIA STATE COLLEGE, SAN BERNADINO, CALIFORNIA, 2/1/68-1/31/71, CONTINUATION \$74,868. OE
- THIS RESEARCH WILL DIAGNOSE SPECIFIC LEARNING DEFICITS, DESIGN MATERIALS AND PROCEDURES, AND TEST THESE MATERIALS AND PROCEDURES WITH CONTROLLED GROUPS OF MENTALLY RETARDED AND NORMAL CHILDREN TO DETERMINE THEIR EFFECTIVENESS AS AIDS TO COGNITIVE DEVELOPMENT.
- G124 INTERPERSONAL ASPECTS OF CHILD CEREBRAL PALSY THERAPY**, NS-8815-01, KOGAN, KATE L., UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON, 10/69-9/70, INITIAL, \$25,271. NINDS
- INTERPERSONAL THERAPY ASPECTS BETWEEN CEREBRAL PALSID CHILDREN AND THEIR MOTHERS THROUGH OBSERVATIONS, RECORDING AND ANALYSIS OF THEIR INTERACTION AT THE BEGINNING OF THE SCHOOL YEAR, 9 MONTHS LATER AND OVER A SPAN OF THREE YEARS.
- G125 INVESTIGATION OF SYSTEMATIC INSTRUCTIONAL PROCEDURES TO FACILITATE ACADEMIC ACHIEVEMENT IN MENTALLY RETARDED DISADVANTAGED CHILDREN** OEG-0-9-572167-4270 HARING, NORRIS G. UNIVERSITY OF WASHINGTON, SEATTLE WASHINGTON 6/15/69-6/14/71 CONTINUATION \$127,669 OE
- THIS PROJECT IS DESIGNED TO FACILITATE ACADEMIC ACHIEVEMENT IN MENTALLY RETARDED CHILDREN, GRADES 2-5. THE MAJOR OBJECTIVE IS TO INITIATE AN EXPERIMENTAL, INDIVIDUALIZED INSTRUCTIONAL PROGRAM FOR THE MENTALLY RETARDED CHILD IN ONE OF 3 EXPERIMENTAL CLASS ROOMS AT HIS LEVEL OF SKILL DEVELOPMENT AND INSTRUCT HIM TOWARD THE TERMINAL OBJECTIVE OF REGULAR CLASS PLACEMENT WITH MATH AND READING SKILLS COMMENSURATE WITH HIS OWN GRADE LEVEL. THE PROJECT WILL INTRODUCE AN EXPERIMENTAL TREATMENT OVER A TWO YEAR PERIOD WHICH INCORPORATES PRINCIPLES OF INSTRUCTION AND PROCEDURES OF ERRORLESS LEARNING INTO A SYSTEMATIC INSTRUCTIONAL PROGRAM.
- G130 LEARNING POTENTIAL AND EDUCABILITY AMONG THE EDUCABLY MENTALLY RETARDED** OEG-0-8-080506-4597 BUDOFF, MILTON, CAMBRIDGE MENTAL ASSOCIATION CAMBRIDGE, MASS. 6/17/68-6/16/71 CONTINUATION \$286,536. OE
- THIS RESEARCH WILL FOCUS ON DISCRIMINATING AMONG THE SUBGROUPS WITHIN THE NON-GAINER CATEGORY AND SEEK A CRITERIA BY WHICH TO IDENTIFY THESE CHILDREN WITHIN THE CONTEXT OF THE LEARNING POTENTIAL APPROACH. TWO HYPOTHESES WILL BE EXAMINED TO EXPLAIN THE UNRESPONSIVENESS OF NON-GAINERS.
- G140 MOBILE RECREATION AND PHYSICAL EDUCATION UNIT** OEG-0-9-272707-4263 MARSHALL, WAYNE KENTUCKY ASSOCIATION FOR RETARDED CHILDREN FRANKFORT, KY 6/16/69-6/15/71 CONTINUATION \$74,295. OE
- THE MOBILE RECREATION AND PHYSICAL EDUCATION UNIT WILL BE A FOUR-WHEEL, VAN-TYPE VEHICLE AND STAFF THAT WILL COMPRISE A SELF-CONTAINED DISSEMINATION DEVICE, REFERENCE POINT AND CENTER FOR THE MENTALLY RETARDED PROGRAMS WILL BE DESIGNED TO OFFER THE LATEST INFORMATION IN TECHNIQUES AND MATERIALS TO ONGOING PROGRAMS FOR ALL LEVELS OF PERSONNEL. SPECIAL PROGRAMS WILL BE PROVIDED TO BE PRESENTED TO HIGH SCHOOL AND COLLEGE STUDENTS IN AN EFFORT TO INTEREST YOUNG PEOPLE IN CAREERS IN PHYSICAL EDUCATION FOR THE MENTALLY RETARDED
- G141 MOTIVATION AND EXPERIENCE THEORY** MH-11321-05 HUNT, J. MCVICKER, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS. 5/1/70-4/31/71, RENEWAL, \$12,827. NIMH
- THE INVESTIGATOR IS FOCUSING ON THE PROBLEM OF CULTURAL DEPRIVATION OF CHILDREN REARED IN ORPHANAGES. HE IS ALSO DEVELOPING SCALES FOR ASSESSING INFANT PSYCHOLOGICAL DEVELOPMENT.
- G145 PRODUCTION AND EVALUATION OF INDIVIDUALIZED CURRICULUM FOR THE EDUCABLE MENTALLY RETARDED CHILD** OEG-0-9-322215-4509
- RUNGE, LILLIAN THE BOARD OF EDUCATION OF THE SCHOOL DISTRICT OF THE CITY OF DETROIT, DETROIT, MICHIGAN 6/27/69-8/31/71 INITIAL \$100,000. OE
- THIS PROGRAM WILL IDENTIFY DEVELOP AND TEST INDIVIDUALIZED CURRICULAR MATERIALS WHICH WHEN USED BY EMR'S WILL INCREASE THEIR INDEPENDENT FUNCTIONING. A CENTRAL STAFF WILL WORK WITH TWO TEACHERS, TWO TEACHER AIDES THE STUDENTS, THEIR PEERS, AND FAMILIES TO DEVELOP SPECIFIC SEQUENTIAL PERFORMANCE OBJECTIVES FOR TWO CLASSES OF EMR'S
- G160 RETARDED AND EMOTIONALLY DISTURBED PRE-SCHOOL CHILDREN** OEG-0-9-232030-0762 BLOU, SIDNEY W UNIVERSITY OF ILLINOIS URBANA ILLINOIS 9/1/68-8/31/71 CONTINUATION \$29,768. OE
- THE GENERAL AIM IS TO APPLY OPERANT LEARNING PRINCIPLES TO THE DEVELOPMENT OF PROCEDURES AND MATERIALS FOR RETARDED AND EMOTIONALLY DISTURBED PRE-SCHOOL CHILDREN. SPECIFIC OBJECTIVES INCLUDE (1) REFINE AND ELICITATE THE STEPS REQUIRED TO WEAKEN DISRUPTIVE SCHOOL BEHAVIORS AND TO STRENGTHEN PREREQUISITE ACADEMIC BEHAVIORS (2) REFINE THE PROGRAMMED INSTRUCTIONAL MATERIALS AND PROCEDURES IN ACADEMIC READINESS AND IN READING, WRITING AND ARITHMETIC (3) REFINE THE PROCEDURES FOR TRAINING PARENTS TO EXTEND INTO THE HOME THE PRACTICES OF THE NURSERY SCHOOL
- G170 SENSORY-PERCEPTUAL LANGUAGE TRAINING TO PREVENT SCHOOL LEARNING DISABILITIES IN CULTURALLY DEPRIVED PRESCHOOL CHILDREN** OEG-32-52-7900-5025, MCCONNELL, FREEMAN, THE BILL WILKERSON HEARING AND SPEECH CENTER, NASHVILLE, TENN., 6/1/65-7/31/70 CONTINUATION, \$74,198. OE
- THIS RESEARCH FOCUSES UPON AN ORGANIZED, STRUCTURED, AND INTENSIVE PERCEPTUAL AND LANGUAGE STIMULATION PROGRAM FOR PRESCHOOL CHILDREN DIRECTED AT THE PREVENTION OF LEARNING PROBLEMS IN SCHOOL, THE FAILURE TO ACHIEVE, AND THE SUBSEQUENT SCHOOL DROPOUT.
- G175 THE DEVELOPMENT OF CULTURALLY DEPRIVED CHILDREN** P01 03144-03 SCHIEFELBUSCH, R.L., UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, 10/69-9/70 CONTINUATION \$202,863. NICHD
- THIS RESEARCH PROPOSES TO STUDY THE DEVELOPMENTAL FUNCTIONS OF CULTURALLY DEPRIVED CHILDREN. FIVE GENERAL AREAS OF STUDY ARE 1. FACTORS OF EARLY DEVELOPMENT. 2. PRE-SCHOOL INTERVENTION. 3. ACHIEVEMENT MOTIVATION. 4. COMMUNITY PROBLEMS. 5. TRAINING ACTIVITIES.
- G180 THE EFFECT OF A PROGRAM OF GROSS BODY MOVEMENT UPON SELECTED ABILITIES OF RETARDED CHILDREN** OEG-0-9-142710-4449 CRATTY, BRYANT J UNIVERSITY OF CALIF LOS ANGELES CALIFORNIA 6/1/69-10/10/71 CONTINUATION, \$174,849. OE
- THE PURPOSE IS TO EXPLORE THE MANNER IN WHICH A PROGRAM INCORPORATING TOTAL BODY MOVEMENT-IE HOPPING, LINE WALKING, JUMPING, MAY AID RETARDED CHILDREN TO BETTER FUNCTION IN SELECTED ACADEMIC PURSUITS
- G190 THE MEASUREMENT AND COMPARISON OF VARIABLES RELATED TO DRIVE HIGHWAY SAFETY BETWEEN EDUCABLE MENTALLY RETARDED AND NORMAL HIGH SCHOOL AGE PUPILS IN PENNSYLVANIA** OEG-0-9-482062-1362 KETTERING, W. RICHARD AND MULLIN RAYMOND C. MILLERSVILLE STATE COLLEGE, MILLERSVILLE, PA. 1/1/69-12/30/70 CONTINUATION \$74,956. OE
- TO MEASURE THOSE VARIABLES WHICH ARE RELATED TO SAFE DRIVING IN THE FOLLOWING COMPARISON GROUPS: 400 EMR'S COMPARED WITH 400 NORMAL PERSONS; EMR'S AND NORMAL PERSONS WHO HAVE BEEN INVOLVED IN ACCIDENTS COMPARED WITH EMR'S AND NORMAL PERSONS WHO HAVE NOT BEEN INVOLVED IN ACCIDENTS; TO DEVELOP AN INSTRUMENT THAT MEASURES SITUATIONAL STRESS; TO FORMULATE A BATTERY OF SPECIFIC VARIABLES WHICH WOULD INDICATE A PERSON'S POTENTIAL SUCCESS AS A SAFE DRIVER; THESE ARE THE OBJECTIVES OF THIS RESEARCH
- G201 WHO ARE THE RETARDED-MULTIPLE CRITERIA APPLIED TO CHILDREN IN EDUCABLE CLASSES**, OEG-0-70-2264(607), GARRISON, MORTIMER, JR., AND HAMMILL, DONALD, D. TEMPLE UNIVERSITY, PHILADELPHIA, PENNSYLVANIA, 1/1/70-8/31/70, INITIAL, \$33,987. OE

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THE PURPOSE OF THIS STUDY IS TO COMPARE THE INTELLECTUAL, SOCIAL, EDUCATIONAL, AND LANGUAGE CHARACTERISTICS OF CHILDREN PLACED IN EDUCABLE CLASSES WITH THEIR AGEMATES FROM THE SAME NEIGHBORHOODS IN THE SAME SCHOOL'S REGULAR CLASSES IN ORDER TO DETERMINE THE EXTENT TO WHICH MULTIPLE CRITERIA ARE EMPLOYED IN THE CLASS PLACEMENT OF MILDLY RETARDED (EDUCABLE) CHILDREN. A SAMPLE OF THE 450 ELEMENTARY CLASSES FOR EDUCABLE RETARDED CHILDREN IN THE GREATER PHILADELPHIA AREA WILL BE DRAWN. FOR EACH OF THESE EMR CHILDREN, A CHILD OF THE SAME AGE, ATTENDING THE SAME SCHOOL, FROM THE SAME NEIGHBORHOOD WILL BE SELECTED. DATA TO BE COLLECTED INCLUDE THE SLOSSON INTELLIGENCE TEST FOR CHILDREN AND ADULTS, THE EDMONSON-LEACH-LELAND TEST OF SOCIAL INFERENCE, THE WIDE RANGE ACHIEVEMENT TEST AND THE AUDITORY RECEPTION AND VERBAL EXPRESSION SUB-TESTS FROM 1968 ITPA.

AMELIORATION - VOCATIONAL REHABILITATION

- H002** A PROGRAMMED WORK ENVIRONMENT FOR THE RETARDED AND EMOTIONALLY DISTURBED ADULTS FOR TRAINING AND MAINTAINING PRODUCTIVE WORK ACTIVITY. DR. CREVEN, CHANDLER G., JEWISH VOCATIONAL SERVICE, INC. MILWAUKEE, WISCONSIN. RD-3343-P. 3/1/70-2/28/71 INITIAL \$103,480. SRS-ORD

NO ABSTRACT SUPPLIED.

- H010** ASSESSING OF WORK PERSONALITIES OF MENTALLY RETARDED ADULTS RD-2568-P, LLOYD H. LOFQUIST, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINN., 7/1/69-6/30/70 CONTINUATION \$46,447. SRS-ORD

THIS RESEARCH IS CONCERNED WITH DEVELOPING RELIABLE MEASURES OF VOCATIONAL ABILITIES AND VOCATIONAL NEEDS WHICH CAN BE ADMINISTERED MEANINGFULLY TO RETARDED ADULTS. NORMATIVE DATA WILL BE OBTAINED WHICH WILL BE OF USE TO VOCATIONAL REHABILITATION COUNSELORS WORKING WITH THE RETARDED.

- H015** COGNITIVE AND ATTITUDINAL-MOTIVATIONAL FACTORS IN PERFORMANCE OF RETARDED NORMAN A. MILGRAM, RD-3569-P, CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.C., 8/1/69-7/31/70 CONTINUATION \$43,958. SRS-ORD

COGNITIVE FACTORS IN RETARDATEES WILL BE DEVELOPED THROUGH THEIR PARTICIPATION IN A NON-VERBAL TRAINING IN LOGIC COURSE. VERBAL AND NON-VERBAL TECHNIQUES TO ASSESS ATTITUDINAL-MOTIVATIONAL VARIABLES THAT AFFECT OPTIMAL USE OF COGNITIVE ABILITIES WILL BE DEVISED.

- H020** COGNITIVE DEVELOPMENT IN CHILDREN WITH BRAIN DAMAGE BORTNER, MORTON, YESHIVA UNIVERSITY, NEW YORK, N.Y. 2/1/68-2/28/71, RENEWAL \$95,107. OE

THIS RESEARCH WILL SEEK INFORMATION ON AN AGE-SPECIFIC DEFINITION OF THE STRUCTURE OF INTELLECT, DESCRIPTION OF THE PATTERNING OF GROWTH OF INTELLECT, AND DESCRIPTION OF THE RELATIONSHIP OF PATTERNS OF GROWTH AND INTELLECTUAL ABILITY TO ACADEMIC ACHIEVEMENT IN BRAIN DAMAGED CHILDREN.

- H025** COMMUNITY ORGANIZATION ACTION PLAN FOR THE MENTALLY RETARDED RD-1929-G, TITUS, GARY, COORDINATING COUNCIL ON MENTAL RETARDATION, SAN FRANCISCO, CALIFORNIA 11/1/69-10/31/70 CONTINUATION \$95,000. SRS-ORD

THIS RESEARCH PROPOSES TO INITIATE ACTION ON NEEDED SERVICES; TO INCREASE UTILIZATION OF ALL SERVICES; AND TO PROVIDE CHANNELS FOR EFFECTIVE COORDINATION OF THE DEVELOPMENT OF NEW AND EXPANDED PROGRAMS TO INSURE THE WISEST USE OF MONEY AND MAN-POWER FOR MAXIMUM SERVICE.

- H030** COMPARATIVE EFFORTS IN COMMUNITY ORGANIZATION: A STUDY OF FIVE INTER-ORGANIZATIONAL COMPARATIVE PROJECTS RD-3079-G, HAGE, GERALD, UNIVERSITY OF WISCONSIN, MADISON, WISC. 5/1/70-4/30/71 CONTINUATION \$45,790. SRS-ORD

A COMPARATIVE STUDY OF FIVE LARGE COMMUNITY ORGANIZATION PROJECTS SERVING THE RETARDED.

- H035** COMPREHENSIVE COMMUNITY-BASED SERVICES FOR THE RETARDED RD-1435-G, ORZACK, LOUIS, PARENTS AND FRIENDS OF MENTALLY RETARDED CHILDREN OF BRIDGEPORT, INC., BRIDGEPORT, CONNECTICUT, 11/1/67-10/31/69 RENEWAL, \$91,949. SRS-ORD

THIS RESEARCH PROPOSES TO DEVELOP A MODEL OF COMPREHENSIVE SERVICES BASED ON THE RESOURCES OF THE COMMUNITY AND TO SHOW THAT SUCH COMMUNITY-BASED SERVICES ARE THE LOGICAL AND MOST EFFECTIVE WAY OF SERVING THE CHANGING NEEDS OF THE INDIVIDUAL RETARDATE.

- H037** CONFERENCE ON VOCATIONAL REHABILITATION OF THE RETARDED. DR SOLOYANIS, GEORGE, AMERICAN ASSOCIATION ON MENTAL DEFICIENCY, WASHINGTON, D.C. RD-3582-RU. 6/12/70-5/31/71 INITIAL \$60,000. SRS-ORD

A CONFERENCE TO PROVIDE A FORUM FOR THE INTERNATIONAL EXCHANGE OF CURRENT RESEARCH RESULTS BEARING ON THE VOCATIONAL REHABILITATION OF THE RETARDED.

- H040** GREATER CLEVELAND MENTAL RETARDATION DEVELOPMENT PROJECT RD-2056-G, BUCKMAN, RILMA OXLEY, WELFARE FEDERATION OF CLEVELAND, CLEVELAND, OHIO, 1/1/70-12/31/70 CONTINUATION \$72,485. SRS-ORD

THIS RESEARCH CONCERNS THE ESTABLISHMENT OF A (FIXED POINT OF INFORMATION ABOUT MENTAL RETARDATION SERVICES (SYSTEMATIC INSERVICE TRAINING FOR PROFESSIONALS-IN-PRACTICE) AND ORGANIZATION OF A VOCATIONAL REHABILITATION PROFESSIONAL TEAM TO SUPPLEMENT THE SERVICES AVAILABLE IN THE EXTENDED SHELTERED WORKSHOPS SERVING THE MENTALLY RETARDED.

- H045** IMPROVING STANDARDS FOR SERVICES TO THE RETARDED IN RESIDENTIAL CENTERS RD-2927-G, PORTERFIELD, JOHN D., JOINT COMMISSION ON ACCREDITATION OF HOSPITALS, CHICAGO, ILL. 6/1/70-5/31/71 CONTINUATION \$61,364. SRS-ORD

THE FURTHER DEVELOPMENT AND IMPLEMENTATION OF STANDARDS OF SERVICE TO THE RETARDED IN PUBLIC AND PRIVATE RESIDENTIAL CENTERS AND THE FORMATION OF A CATEGORICAL COUNCIL UNDER THE JOINT COMMISSION ON ACCREDITATION OF HOSPITALS FOR ACCREDITATION OF RESIDENTIAL CENTERS FOR THE RETARDED.

- H050** INDUSTRIAL TRAINING RESOURCES IN REHABILITATION PROGRAMS FOR RETARDATEES RD-2197-G, BOLANOVICH, DANIEL J., JEWISH EMPLOYMENT AND VOCATIONAL SERVICES, ST. LOUIS, MISSOURI 8/1/69-7/31/70 CONTINUATION \$3,946. SRS-ORD

THIS RESEARCH FOCUSES UPON CURRENT INDUSTRIAL TRAINING APPLICABLE TO REHABILITATION PROJECTS FOR RETARDATEES SUCH AS EMPLOYER FACILITIES, EQUIPMENT, AND OPERATIONAL PROCEDURES, CONDITIONS UNDER WHICH THOSE MIGHT BE USED IN A COMMUNITY REHABILITATION PROGRAM, TRAINING MATERIALS AND MEDIA APPLICABLE TO VOCATIONAL TRAINING, AND CONDITIONS UNDER WHICH SUCH METHODS AND MEDIA MIGHT BE PRODUCED CENTRALLY FOR GENERAL USE IN REHABILITATION PROGRAMS.

- H055** INTER-DISTRICT SCHOOL REHABILITATION PROGRAM FOR LESS ABLE RETARDED ADOLESCENTS RD-1810, HENZE, RICHARD J., EDUCATIONAL RESEARCH AND DEVELOPMENT COUNCIL, MINNEAPOLIS, MINN. 7/1/69-6/30/70 CONTINUATION \$56,810. SRS-ORD

THIS RESEARCH CONCERNS WAYS BY WHICH A COMPREHENSIVE SCHOOL-REHABILITATION PROGRAM FOR LESS ABLE MENTALLY RETARDED CAN BE ESTABLISHED THROUGH THE (INTERMEDIATE UNIT) CONCEPT IN EDUCATIONAL ADMINISTRATION AND EXTENDED TO INCLUDE COORDINATION WITH THE DIVISION OF VOCATIONAL REHABILITATION AND SPECIAL EDUCATION AND THE DEPARTMENT OF PUBLIC WELFARE.

- H065** NEW APPROACHES TO COMPETITIVE EMPLOYMENT FOR THE MENTALLY RETARDED RD-2686-G, MARVIN BLANK, FLAME OF HOPE, HYANNIS PORT, MASS. 2/1/70-1/31/71 CONTINUATION \$76,000. SRS-ORD

THIS PROJECT PROPOSES TO DEVELOP A CENTRAL MARKETING ORGANIZATION TO ASSIST SHELTERED WORKSHOPS IN MARKETING PRODUCTS MANUFACTURED BY MENTALLY RETARDED WORKERS. A CENTRAL SERVICE FOR THE DEVELOPMENT, DESIGN AND MARKETING OF SALEABLE ITEMS MANUFACTURED BY THE MENTALLY RETARDED WILL BE DEVELOPED.

- H070** READING-FREE VOCATIONAL INTEREST INVENTORY BECKER, RALPH L., OHIO BUREAU OF MENTAL RETARDATION, COLUMBUS, OHIO, 6/24/68-7/23/71 RENEWAL, \$26,336. OE

THIS PROJECT WILL DEVELOP AND TEST A READING-FREE VOCATIONAL INTEREST TEST FOR ADOLESCENT SLOW-LEARNERS AND YOUNG ADULT RETARDATEES ENROLLED IN WORK-STUDY AND PRE-VOCATIONAL PROGRAMS.

AMELIORATION - MEDICAL TREATMENT

- 1005 ALBUMIN BINDING CAPACITY AND KERNICTERUS NS-6919-03, BOGGS, THOMAS R., JR. PENNSYLVANIA HOSPITAL, PHILADELPHIA, PENNSYLVANIA, 2/69-1/70, CONTINUATION, \$27,706. NINDS
- THIS RESEARCH PROPOSES TO BEGIN A CLINICAL TRIAL OF THE USE OF THE HABA BINDING AS A GUIDE TO THE MANAGEMENT OF THE JAUNDICE INFANT. IN ADDITION, ALL EXCHANGE TRANSFUSIONS, EXCEPT THOSE PERFORMED ON SICK ERYTHROBLASTOTIC INFANTS, WILL BE DONE WITH ALBUMIN FORTIFIED WITH DONOR BLOOD. EXPERIENCE SUGGESTS THAT THESE MEASURES WILL REDUCE THE NUMBER OF EXCHANGE TRANSFUSIONS PERFORMED AT THIS INSTITUTION.
- 1020 DEVELOPMENT OF PREVOCAATIONAL SKILLS IN TMR CHILDREN MR-07003-01, MORGAN, CECIL W., JOHN F. KENNEDY CENTER FOR RESEARCH ON EDUCATION & HUMAN DEVELOPMENT, GEORGE PEABODY COLLEGE FOR TEACHERS, NASHVILLE, TENNESSEE, 6/25/69 - 12/31/69, INITIAL, \$21,137. SRS-DMR
- TO INVESTIGATE AND ASSESS A SYSTEMATIC PERCEPTUAL-MOTOR TRAINING PROGRAM FOR MENTALLY RETARDED CHILDREN. TO UTILIZE AND TEST A COMBINATION OF RECENTLY DEVELOPED PROCEDURES AND TECHNIQUES IN ORDER TO DEVELOP AND EVALUATE A MORE EFFICIENT PROGRAM WHICH CAN BE IMPLEMENTED WITH NON-PROFESSIONAL STAFF AND OPERATE AT A LOWER COST.
- 1025 ENVIRONMENTAL CRITERIA: MR DAY CARE FACILITIES MR-07000-02, PATTERSON, JAMES R., TEXAS A&M RESEARCH FOUNDATION, COLLEGE STATION, TEXAS, 5/1/68 - 4/30/70, RENEWAL, \$90,135. SRS-DMR
- THIS PROJECT IS DIRECTED TO THE INCREASING PROBLEM OF PREMATURE OBSOLESCENCE OF PATIENT CARE FACILITIES. THE OBJECTIVE OF THE WORK IS TO MAKE BUILDINGS FOR PATIENT CARE MORE ADAPTABLE TO THE OFTEN RAPIDLY CHANGING DEMANDS, CREATED BY ADVANCES IN MEDICAL TECHNIQUES AND EQUIPMENT, IMPROVED HOSPITAL OPERATION, AND FLUCTUATING SOCIAL PATTERNS. THESE DEMANDS ARE NOT EASILY MET BY THE EXISTING AND CURRENTLY EMPLOYED BUILDING METHODS.
- 1030 EXOGENOUS ELEVATION OF SEROTONIN IN DOWN'S SYNDROME, NS 8429-01, COLEMAN, MARY PORYLES, RESEARCH FOUNDATION OF CHILDRENS HOSPITAL, WASHINGTON, D.C., 5/69-4/71, INITIAL, \$182,958. NINDS
- PATIENTS WITH TRISOMIC DISEASE AND OTHER SYNDROMES WITH SEVERE RETARDATION HAVE SHOWN A DEPRESSION OF WHOLE BLOOD SEROTONIN (5-HYDROXYTRYPTAMINE) (5-HT). EVALUATING THE EFFECT OF EXOGENOUSLY ELEVATING AND MAINTAINING WHOLE BLOOD 5-HT IN PATIENTS WITH TRISOMY 21, TO RELIEVE SOME OF THE SYMPTOMS OF DOWN'S DISEASE SINCE VARIOUS ENZYMES AND SEROTONIN ARE SOMEWHAT DECREASED.
- 1035 HYPERACTIVITY IN CHILDREN HD 03598-03, SPRAGUE, ROBERT L., UNIVERSITY OF ILLINOIS, URBANA, ILL., 6/70-5/71 CONTINUATION \$37,061. NICHD
- THIS PROJECT PROPOSES TO STUDY THE RELATIONSHIPS BETWEEN THE USE OF MEDICATION AND BEHAVIORAL THERAPY IN HYPERACTIVITY IN EXCEPTIONAL CHILDREN.
- 1036 IN VIVO EFFECTS OF HISTIDASE; HD-05453-01; BOGGS, DALLAS E.; OHIO STATE UNIVERSITY, COLUMBUS, OHIO, 6/70-5/71; INITIAL; \$32,359; NICHD
- THE MAJOR OBJECTIVE OF THIS RESEARCH IS TO INVESTIGATE THE POTENTIAL USE OF THE ENZYMES HISTIDASE AND HISTIDINEMIA AS THERAPEUTIC AGENTS IN THE TREATMENT OF INBORN ERRORS OF METABOLISM. RATS WITH SIMULATED INBORN ERRORS WILL BE USED TO STUDY PROCEDURES FOR THE THERAPEUTIC USE OF THE ENZYMES. DETERMINATIONS OF THE IN VIVO ACTIVITY AND THE ANTIGENICITY OF THE ENZYMES WILL ALSO BE MADE.
- 1040 METABOLISM OF COPPER AND CALCIUM IN WILSON'S DISEASE, NS-3655-08, 08S1, GOLDSTEIN, N. P., MAYO ASSOCIATION, ROCHESTER, MINN., 1/69-8/70, RENEWAL, NS-3655-08 \$31,628 AND NS-3655-08S1, \$98. NINDS
- THIS RESEARCH IS CONCERNED WITH METABOLIC BALANCE OF COPPER AND CALCIUM FOLLOWING VARYING DOSAGES OF D-PENICILLAMINE, CARBO-RESIN AND POTASSIUM SULFIDE. ABSORPTION, STORAGE AND EXCRETION OF COPPER AND POTASSIUM SULFIDE. ABSORPTION, STORAGE AND EXCRETION OF COPPER STUDIED.
- 1045 MODE OF ACTION OF CONVULSIVE AGENTS, NS-6298-05, ALEXANDER, GEORGE J., RESEARCH FOUNDATION FOR MENTAL HYGIENE, INC., NEW YORK, NEW YORK, 6/70-5/71, CONTINUATION \$16,864. NINDS
- THIS RESEARCH CONCERNS THE ELUCIDATION OF CHEMICAL CHANGES IN THE CENTRAL NERVOUS SYSTEM AND ELSEWHERE IN THE BODY ASSOCIATED WITH INDUCTION OF CONVULSIVE SEIZURES. TO THIS END THE EFFECTS OF CONVULSANT CHEMICALS IN VITRO WILL BE STUDIED AND CORRELATED WITH THE EFFECTS OF THE SAME AGENTS IN SUBCONVULSIVE DOSES IN VIVO.
- 1055 PERINATAL STRESS AND PREMATURITY HD 01420-04S1 BORNHOFFEN, JOHN H., UNIVERSITY OF ARKANSAS, LITTLE ROCK, ARKANSAS, 2/70-1/71 CONTINUATION \$10,099. NICHD
- THIS RESEARCH PROPOSES TO CONTINUE INVESTIGATING THE OUTCOME UP TO 5 YEARS OF AGE OF A GROUP OF OVER 200 PRE-MATURE INFANTS WHO HAD PREVIOUSLY BEEN STUDIED AS NEONATES.
- 1065 TREATMENT OF PATIENTS WITH HOMOCYSTINURIA, NS-8532-02, WONG, PAUL W., CHICAGO MEDICAL SCHOOL, CHICAGO, ILLINOIS, 10/69-9/70, CONTINUATION, \$22,495. NINDS
- OBJECTIVES TO DETERMINE THE OPTIMAL QUANTITIES OF HOMOSERINE, CYSTEINE AND METHIONINE REQUIRED IN THE DIETARY TREATMENT OF PATIENTS WITH HOMOCYSTINURIA TO BRING ABOUT IN VIVO SYNTHESIS OF CYSTATHIONINE, AND TO STUDY THE EFFECT OF LARGE DOSES OF PYRIDOXINE ON THE METABOLISM OF METHIONINE IN ANIMAL TISSUES.

OTHERS

- J005 A COMMUNICATION SCIENCES RESEARCH PROGRAM, NS-6459-05, MOORE, PAUL, UNIVERSITY OF FLORIDA, GAINESVILLE, FLA., 2/70-1/71, CONTINUATION, \$207,805. NINDS
- THE PURPOSE OF THIS PROJECT IS TO DEVELOP AN INTEGRATED PROGRAM OF RESEARCH IN COMMUNICATIONS SCIENCES INVOLVING SCIENTISTS OF VARIOUS DISCIPLINES TO DO RESEARCH IN A SINGLE PROGRAM AND LABORATORY FACILITY.
- J010 A PROGRAM OF CENTER RESEARCH, HD-03352-03; HEBER, RICK F.; UNIVERSITY OF WISCONSIN; MADISON, WISCONSIN; 3/70-2/71 CONTINUATION; \$201,556; NICHD.
- THE WISCONSIN CENTER ON MENTAL RETARDATION DIRECTS ITS MAJOR EFFORTS TOWARDS AN INTERDISCIPLINARY APPROACH TO BIOLOGICAL AND BEHAVIORAL ASPECTS OF MENTAL RETARDATION. IN COOPERATION WITH THE UNIVERSITY OF WISCONSIN THE CENTER SERVES AS A FOCAL POINT FOR THE INTEGRATION OF DISCIPLINES THAT THUSFAR HAVE NOT COLLABORATED. THE AVAILABILITY OF A DIAGNOSTIC - TREATMENT UNIT, THE CENTRAL WISCONSIN COLONY AND A SCHOOL REHABILITATION UNIT WILL ASSURE A MILEU IN WHICH A WIDE RANGE OF PROBLEMS MAY BE INVESTIGATED.
- J015 AIDING COGNITIVE GROWTH IN DISADVANTAGED PRESCHOOLER R-300, LEVENSTEIN, PHYLLIS, FAMILY SERVICE ASSOCIATION OF NASSAU COUNTY, INC., MINEOLA, NEW YORK, 7/1/69-6/30/70, RENEWAL, \$107,926, HSMHA-MCHS
- THE PURPOSE OF THIS RESEARCH IS TO DETERMINE THE EFFECTIVENESS OF EARLY INTERVENTION IN AIDING COGNITIVE GROWTH IN DISADVANTAGED PRE-SCHOOL CHILDREN. 64 MOTHER-CHILD DYADS WILL BE INCLUDED IN THE STUDY 34 IN AN EXPERIMENTAL GROUP AND 30 IN A CONTROL GROUP.
- J020 BEHAVIORIAL CLASSIFICATION OF NEUROLOGICAL PATIENTS, NS-3535-09, SIDMAN, MURRAY, MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASS, 5/70-4/71, CONTINUATION \$90,558. NINDS
- RESEARCH TO DEVELOP TECHNIQUES FOR GENERATING AND MAINTAINING BEHAVIOR IN NEUROLOGICAL PATIENTS INCLUDING SEVERELY RETARDED CHILDREN. WORK ON NORMAL AND ABNORMAL CHILD BEHAVIOR AND MENTAL DEVELOPMENT.
- J021 CDMR--CENTER-RESIDENTIAL-INSTITUTION RESEARCH PROGRAM; HD-04665-01; LABBE, ROBERT F.; UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON; 6/70-5/71; INITIAL; \$109,865; NICHD
- THE MAIN OBJECTIVE OF THIS PROPOSAL IS THE FORMATION AND OPERATION OF A RESEARCH PROGRAM CONCERNED WITH BASIC LABORATORY AND CLINICAL RESEARCH IN MENTAL RETARDATION. A PORTION OF THE PROGRAM CONSISTS OF SEVERAL AFFILIATED RESEARCH PROJECTS DEALING WITH INBORN ERRORS OF METABOLISM AND ALLIED OBJECTIVES IN

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- MENTAL RETARDATION. THE PRIMARY RESEARCH EMPHASIS ENCOMPASSES THE DISCIPLINES OF BIOCHEMISTRY AND GENETICS WITH PROCEDURES RANGING FROM BASIC LABORATORY TO CLINICAL IN NATURE.
- J025 CENTER GRANT FOR MENTAL RETARDATION RESEARCH CENTER HD4583-02 DORFMAN, ALBERT, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS, 6/70-5/71 CONTINUATION \$179,604. NICHD**
- THIS PROJECT INCLUDES A STUDY OF IMPORTANT GENETIC PROBLEMS RELEVANT TO MENTAL RETARDATION WITH AN EMPHASIS ON DEVELOPMENTAL NEUROCHEMISTRY. THE MAIN OBJECTIVE OF THE PROJECT IS TO PROVIDE A SCIENTIFIC BASIS FOR THE UNDERSTANDING OF BIOLOGIC PROBLEMS WHICH RESULT IN MENTAL RETARDATION.
- J026 CENTER GRANT IN MENTAL RETARDATION; HD-05221-01; WARKANY, JOSEF; CHILDREN'S HOSPITAL RESEARCH FOUNDATION; CINCINNATI, OHIO; 6/70-5/71; INITIAL: \$457,791; NICHD**
- THIS PROGRAM PROJECT IS CONCERNED WITH RESEARCH WHICH MAY ASSIST IN FINDING CAUSES AND MEANS OF PREVENTION OF MENTAL RETARDATION OR IN FINDING MEANS OF AMELIORATING THE EFFECTS OF MENTAL RETARDATION. SPECIFICALLY, THE MAJOR RESEARCH EMPHASIS IS IN THE AREAS OF TERATOLOGY, PATHOLOGIC EMBRYOLOGY, FETAL PHARMACOLOGY AND NEUROPHYSIOLOGY. IN ADDITION, EFFORT IS BEING DIRECTED TOWARD THE FURTHER DEVELOPMENT OF A BEHAVIORAL SCIENCE DIVISION.
- J030 CENTER GRANT JFK CENTER-GEORGE PEABODY COLLEGE HD4510-02 HOBBS, NICHOLAS, GEORGE PEABODY COLLEGE FOR TEACHERS, NASHVILLE TENN., 6/70-5/71 CONTINUATION \$301,011. NICHD**
- THE PURPOSE OF THIS PROJECT IS TO ESTABLISH AN ORGANIZED PROGRAM OF RESEARCH AND TRAINING IN MENTAL RETARDATION AND RELATED ASPECTS OF HUMAN DEVELOPMENT. SOME OF THE SPECIFIC INTERESTS ARE INTELLECTUAL DEVELOPMENT, INDIVIDUAL DIFFERENCES AND SCHOOL LEARNING, NORMAL CHILD DEVELOPMENT, IMPAIRED FUNCTIONING IN CHILDREN WITH ACUTE BEHAVIORAL PROBLEMS, BIOBEHAVIORAL STUDIES, AND BASIC RESEARCH IN PSYCHOBIOLOGY.
- J035 CENTER FOR RESEARCH IN MENTAL RETARDATION HD4024-02, OBRIEN, DONOUGH, UNIVERSITY OF COLORADO, DENVER, COLORADO, 1/70-12/70 CONTINUATION \$72,179. NICHD**
- THE PURPOSE OF THIS PROJECT IS TO ESTABLISH A CENTER FOR RESEARCH IN MENTAL RETARDATION AND RELATED ASPECTS OF HUMAN DEVELOPMENT.
- J040 CENTER FOR NORMAL AND ABERRANT ADAPTIVE DEVELOPMENT; HD-00719-09; BIRCH, HERBERT G.; YESHIVA UNIVERSITY, NEW YORK, NEW YORK; 10/69-9/70; CONTINUATION; \$373,539; NICHD.**
- THIS RESEARCH CONCERNS THE ANALYSIS OF PROCESSES UNDERLYING NORMAL AND ABERRANT BEHAVIORAL DEVELOPMENT. WE HAVE CONDUCTED EXPERIMENTAL, OBSERVATIONAL AND EPIDEMIOLOGIC INQUIRIES RELATING TO FACTORS AFFECTING NEUROLOGIC AND BEHAVIORAL DEVELOPMENT. CENTRAL TO ALL THE INVESTIGATIONS HAS BEEN THE ANALYSIS OF PERCEPTUAL DEVELOPMENT AND THE RELATION OF SUCH DEVELOPMENT TO THE ACQUISITION OF LEARNED SKILLS AND TO THE CONTROL OF ACTION.
- J050 DEVELOPMENT OF A DEMONSTRATION DAY CARE CENTER FOR YOUNG CHILDREN PR-156, J. RONALD LALLY, SYRACUSE UNIVERSITY, SYRACUSE, NEW YORK, 7/1/69-6/30/70, RENEWAL, \$349,788. HSMHA-MCHS**
- THIS RESEARCH FOCUSES UPON CHILDREN 6 MO. TO 3YRS. OF AGE WHOSE MOTHERS WORK. IT PROPOSES TO DETERMINE WHETHER AN APPROPRIATE DAY CARE ENVIRONMENT CAN BE CREATED WHICH CAN OFFSET DEVELOPMENTAL DETRIMENT ASSOCIATED WITH MATERNAL SEPARATION, AND POSSIBLY ADD A DEGREE OF ENVIRONMENTAL ENRICHMENT FREQUENTLY NOT AVAILABLE IN FAMILIES OF LIMITED RESOURCES.
- J055 DEVELOPMENT OF BRAIN ELECTRICAL ACTIVITY OF INFANTS, NS-6486-04, ELLINGSON, ROBERT J., UNIVERSITY OF NEBRASKA, LINCOLN, NEBRASKA, 1/69-6/70, RENEWAL, \$45,597. NINDS**
- THIS RESEARCH PROPOSES TO DEVELOP AND/OR REFINE METHODS OF RECORDING AND ANALYZING BRAIN ELECTRICAL ACTIVITY OF THE DEVELOPING HUMAN BRAIN DURING INFANCY AND TO RECORD THE FACTORS IN BRAIN ELECTRICAL AND CLINICAL DEVELOPMENT.
- J060 DEVELOPMENT OF COMPARABLE OBSTETRIC, GYNECOLOGIC AND INFANT TERMINOLOGY AND CLINICAL STATISTICS H-169, HUGHES, EDWARD C., AMERICAN COLLEGE OBSTETRICIANS AND GYNECOLOGISTS, CHICAGO, ILLINOIS, 8/1/70-7/31/71, CONTINUATION, \$33,505. HSMHA-MCHS**
- THIS RESEARCH PROPOSES TO DEVELOP A STANDARD TERMINOLOGY IN OBSTETRICS AND GYNECOLOGY FOR INTERNATIONAL, NATIONAL AND LOCAL STATISTICAL ANALYSIS.
- J065 ENHANCEMENT OF RECREATION SERVICE TO DISABLED CHILDREN C-202, DORIS BERRYMAN, NEW YORK UNIVERSITY, NEW YORK, N.Y., 7/1/70-6/30/71, CONTINUATION, \$58,393. HSMHA-MCHS**
- NO ABSTRACT SUPPLIED
- J066 EPIDEMIOLOGIC STUDIES OF CONGENITAL MALFORMATIONS; HD-03839-01A1; EMANUEL, IRVIN; UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON; 4/70-3/71; INITIAL; \$16,522; NICHD**
- THIS PROJECT IS DESIGNED TO EVALUATE THE EFFECTS OF VARIOUS SOCIOECONOMIC VARIABLES ON THE OCCURRENCE OF CLEFT LIP AND PALATE, SPINA BIFIDA, AND CONGENITAL HEART DISEASE. SPECIFIC DIAGNOSES AND CASE HISTORIES OF PATIENTS FOR A PERIOD OF TEN YEARS WILL BE INCORPORATED IN THE STUDY. ADDITIONAL STUDIES WILL SEEK POSSIBLE RELATIONSHIPS BETWEEN UTERINE AND OVARIAN DISEASE IN MOTHERS AND MALFORMATIONS IN CHILDREN.
- J070 EVALUATION OF NUTRITIONAL STATUS OF PRESCHOOL CHILDREN IN THE UNITED STATES H-170, OWEN, GEORGE M., CHILDREN'S HOSPITAL RESEARCH FOUNDATION, COLUMBUS, OHIO, 7/1/70-6/30/71, CONTINUATION, \$542,106. HSMHA-MCHS**
- THIS RESEARCH CONCERNS THE NUTRITIONAL STATUS OF PRESCHOOL CHILDREN IN THE U.S. EACH CHILD STUDIED WILL HAVE A DETAILED SOCIAL, MEDICAL AND DIETARY HISTORY, A COMPLETE PHYSICAL EXAMINATION, AND CERTAIN ANTHROPOMETRIC MEASUREMENTS AND A BATTERY OF BIOCHEMICAL DETERMINATIONS MADE WITH SPECIMENS OF BLOOD AND URINE.
- J075 EVALUATION STUDIES ON MATERNAL AND INFANT CARE PROJECTS PH-700, TAYBACK, MATTHEW, UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND, 7/1/70-6/30/71, CONTINUATION, \$266,624. HSMHA-MCHS**
- THIS RESEARCH CONCERNS THE PREPARATION OF EVALUATIVE REPORTS BASED UPON CURRENT DATA SUBMITTED BY COOPERATING PROJECTS (AUTHORIZED BY THE CHILDREN'S BUREAU) AND TO FURTHER DEVELOP PROTOCOLS FOR EVALUATION OF FAMILY PLANNING AND INFANT CARE SERVICES. EXPLORATORY WORK WILL BEGIN ON COMPREHENSIVE MEDICAL CARE FOR CHILDREN AND YOUTH.
- J080 GENETIC EXPRESSION IN THE PREIMPLANTATION MAMMAL; HD-04274-01A; MANES, COLE, UNIVERSITY OF COLORADO, DENVER, COLORADO 1/70-12/70; INITIAL; \$44,167; NICHD**
- THIS RESEARCH IS AN EFFORT TO CLARIFY THE MOLECULAR BASIS FOR THE EARLIEST DEVELOPMENT OF THE MAMMALIAN EMBRYO. INVESTIGATIONS OF THE FLOW OF GENETIC INFORMATION THROUGH RIBONUCLEIC ACID AND PROTEIN SYNTHESIS BY INTRODUCING RADIOISOTOPES INTO THESE MACROMOLECULES WILL BE MADE. ADDITIONAL RESEARCH WILL INVOLVE THE CONSTRUCTION OF A TENTATIVE MODEL OF GENETIC EXPRESSION.
- J090 HIGH-RISK INFANT FOLLOW-UP STUDY H-224, LULA O. LUBCHENCO UNIVERSITY OF COLORADO MEDICAL CENTER, DENVER, COLORADO, 7/1/70-6/30/71, CONTINUATION, \$23,239. HSMHA-MCHS**
- THIS RESEARCH IS A FOLLOW-UP OF HIGH-RISK INFANTS BORN AT THE UNIVERSITY OF COLORADO MEDICAL CENTER FROM JULY, 1963 TO JULY, 1965. A COMPLETE EXAMINATION INCLUDING PHYSICAL, NEUROLOGICAL, PSYCHOLOGICAL SPEECH AND HEARING TESTS WILL BE GIVEN TO EACH CHILD, WEIGHT AT BIRTH AND GESTATIONAL AGE WILL BE PRIMARY FACTORS IN THE STUDY.
- J095 (1) HD-03417-03, (2) HD-03417-03S1, WINDLE, WILLIAM F., NEW YORK UNIVERSITY, NEW YORK, NEW YORK, (1) 3/70-2/72, (2) 3/70-2/72, CONTINUATION, (1) \$113,010, (2) \$1,170, NICHD.**
- THE PURPOSE OF THIS RESEARCH IS TO STUDY THE ROLE OF ASPHYXIA NEONATORUM AS IT ADVERSELY AFFECTS STRUCTURE AND FUNCTION OF THE INDIVIDUAL WAYS WILL BE SOUGHT TO PREVENT AND REDUCE SUCH CHANGES. SUCH GROUPS.

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- J100 INTENSIFICATION OF RESEARCH IN MENTAL RETARDATION** HD 02553-04 WARKANY, JOSEF, CHILDRENS HOSPITAL, RESEARCH FDN., CINCINNATI, OHIO, 9/69-8/70 CONTINUATION \$158,090. NICHD
THIS PROJECT INVOLVES FUNDS FOR A PERIOD BEFORE CERTAIN BUILDINGS ARE READY FOR OCCUPANCY AND FOR FUNDS TO MAKE POSSIBLE ADDITIONAL INVESTIGATIONS IN MENTAL RETARDATION AFTER THE OPENING OF THE INSTITUTE FOR DEVELOPMENTAL RESEARCH WHEN NEW DIVISIONS WILL BE ACTIVATED AND STAFFED.
- J110 LAW, MENTAL DISORDER AND JUVENILE PROCESSES** PR-1600, SAMUEL DASH RESEARCH FOUNDATION OF THE BAR ASSOCIATION OF THE DISTRICT OF COLUMBIA, WASHINGTON, D.C., 7/1/69-6/30/70, RENEWAL, \$103,236 HSMHA-MCHS
THIS RESEARCH IS CONCERNED WITH THE POWERS AND PROCEDURES OF THE JUVENILE COURT FOR GAINING ACCESS TO REHABILITATION FACILITIES NECESSARY FOR THE APPROPRIATE TREATMENT AND CARE OF MENTALLY DISORDERED JUVENILE DELINQUENTS.
- J115 LONGITUDINAL STUDY OF EEG PATTERNS IN CHILDREN**, NS-3418-07, TORRES, FERNANDO, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINN., 9/69-8/70, RENEWAL, \$7,734. NINDS
THIS RESEARCH CONCERNS THE PERFORMANCE OF CONCURRENT EEG AND CLINICAL STUDIES ON UNSELECTED CHILDREN WHO HAVE HAD EEG AT BIRTH AND WHO NOW HAVE REACHED DIFFERENT AGES. PROGNOSTIC VALUE OF EEG WILL BE TESTED BY COMPARING EARLY ELECTRICAL ABNORMALITIES WITH THE CLINICAL COURSE.
- J119 MENTAL RETARDATION CLINICAL RESEARCH CENTER**, (1) HD-00370-0752, (2) HD-00370-08A3, KUGEL, ROBERT, UNIVERSITY OF NEBRASKA, OMAHA, NEBRASKA, (1) 7/69-3/70, (2) 4/70-3/71, RENEWAL (1) \$13,598, (2) \$200,869. NICHD.
THIS RESEARCH CONCERNS PROVISION OF A FACILITY TO PROMOTE CLINICAL RESEARCH FOR DETERMINATION OF THE CAUSES, CLARIFICATION OF DIAGNOSIS, AND DEVELOPMENT OF MORE USEFUL TECHNIQUES AND PROCEDURES FOR THE PREVENTION AND TREATMENT OF MENTAL RETARDATION, AND PROVISION OF A SETTING FOR TEACHING AND TRAINING OF PERTINENT DISCIPLINES AT THE UNDERGRADUATE, GRADUATE, AND POSTGRADUATE LEVELS.
- J120 MENTAL RETARDATION RESEARCH CENTER, UCLA** HD4612-02 TARJAN, GEORGE, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA, 6/70-5/71 CONTINUATION \$548,428. NICHD
THE MAIN OBJECTIVE OF THIS PROJECT IS TO PURSUE AN INTERDISCIPLINARY RESEARCH PROGRAM AIMED TOWARD SOLVING PROBLEMS IN MENTAL RETARDATION AND RELATED ASPECTS OF HUMAN DEVELOPMENT. BASIC BIOMEDICAL AND BEHAVIORAL RESEARCH WILL BE INCLUDED, AS WELL AS CLINICAL RESEARCH.
- J121 MENTAL RETARDATION, BIOCHEMICAL AND GENETIC ASPECTS**, HD-05515-01; KANFER, JULIAN N., E. K. SHRIVER CENTER FOR MENTAL RETARDATION INC., WALTHAM, MASSACHUSETTS; 6/70-5/71; INITIAL; \$300,230; NICHD.
THIS PROGRAM PROJECT IS A MULTIDISCIPLINARY APPROACH TO THE BIOCHEMICAL AND GENETIC ASPECTS OF MENTAL RETARDATION INVOLVING THE DISCIPLINES OF BIOCHEMISTRY, GENETICS, NEUROLOGY, AND PEDIATRICS. A LARGE PORTION OF THE PROJECT INVOLVES A CLINICAL PROGRAM DESIGNED TO FURTHER THE KNOWLEDGE OF ETIOLOGICAL PATHOGENETIC MECHANISMS AND TO IMPROVE METHODS OF DIAGNOSIS AND TREATMENT. A PROGRAM OF BASIC RESEARCH WILL ALSO BE INSTITUTED IN ORDER TO ELUCIDATE THE STRUCTURE, SUB-CELLULAR LOCALIZATION, AND METABOLISM OF BRAIN SPHINGOLIPIDS, STEROIDAL HORMONES, AND FATTY ACIDS.
- J125 MENTAL RETARDATION RESEARCH PROGRAM-IMPLEMENTATION** HD3773-02, BARLOW, CHARLES F., CHILDRENS HOSPITAL MEDICAL CENTER, BOSTON, MASS., 9/69-8/70 CONTINUATION \$243,721. NICHD
THIS PROGRAM INCLUDES INVESTIGATION IN THREE MAJOR AREAS. A) GENETICS AND METABOLISM; B) NEUROSCIENCE; AND C) BEHAVIORAL SCIENCE. ALL CONVERGING ON A FOURTH AREA, CLINICAL STUDIES OF THE HUMAN SUBJECT. THE OBJECTIVE IS TO PROVIDE A SCIENTIFIC AND CLINICAL BASE FOR THE BETTER UNDERSTANDING OF THE FACTORS LEADING TO MENTAL RETARDATION, AND TO APPLY THIS INFORMATION TO PREVENTION OF THE DISORDER AND TO MANAGEMENT OF THE MENTALLY HANDICAPPED INDIVIDUAL.
- J126 METABOLISM OF CORTICOSTEROIDS IN THE PREGNANT PRIMATE**, HD-04684-01; BASHORE, RICHARD A.; UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA; 6/70-5/71; INITIAL; \$30,323; NICHD
THE OBJECTIVES OF THIS PROJECT ARE TO CHARACTERIZE THE METABOLIC DISPOSITION OF CORTISOL, CORTICOSTERONE, AND ALDOSTERONE IN THE PRIMATE MOTHER AND FETUS. PLACENTAL TRANSFER RATES FOR ISOTOPES OF EACH STEROID FOLLOWING INJECTION INTO THE MATERNAL OF FETAL CIRCULATION WILL BE DETERMINED. AN ADDITIONAL ATTEMPT WILL BE MADE TO IDENTIFY AND QUANTITATE THE MAJOR RADIOMETABOLITES PRESENT IN SEQUENTIAL SAMPLES OF BLOOD AND URINE OBTAINED SIMULTANEOUSLY FROM BOTH MOTHER AND FETUS.
- J130 NEUROLOGICAL CLINICAL RESEARCH CENTER**, NS 8075-03, ROWLAND, LEWIS P., UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA., 4/70-3/71, CONTINUATION, \$266,570. NINDS
A NEUROLOGICAL CLINICAL CENTER TO TRAIN FUTURE INVESTIGATORS AND DO RESEARCH ON NERVOUS SYSTEM DISEASES TO DEVELOP NEW APPROACHES TO METABOLIC DISORDERS, AMINOACIDURIAS PRODUCING CNS DAMAGE (PKU, MAPLE SYRUP DISEASE), REFSUM'S SYNDROME, HYDROCEPHALUS, AND WORK ON NEOCORTICAL SYNAPSES IN PATIENTS WITH MENTAL RETARDATION.
- J135 PROGRAM FOR A RESEARCH CENTER IN MENTAL RETARDATION** HD 02528-04, SCHIEFELBUSCH, R.L., UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, 1/70-12/70 CONTINUATION \$107,261. NICHD
THIS RESEARCH CONCERNS CREATION OF ADMINISTRATIVE FUNCTIONS, ESPECIALLY CHANNELS FOR PLANNING, COMMUNICATION, COORDINATION, AND MANAGEMENT DEVELOPMENT OF COMMON FACILITIES FOR RESEARCH SUPPORT AND DEVELOPMENT IMPLEMENTATION OF NEW RESEARCH AND THE INTENSIFICATION OF MAINTAINING RESEARCH AND SYNTHESIS OF RESEARCH, RESEARCH APPLICATION, AND RESEARCH TRAINING.
- J140 RETURN TO THE COMMUNITY OF THE MENTALLY ILL**, RD-2847-P, LAMB, RICHARD H., SAN MATEO COUNTY HALL OF JUSTICE AND RECORDS, REDWOOD CITY, CALIF., 5/1/69-4/30/71 INITIAL \$36,776. SRS-ORD
NO ABSTRACT SUPPLIED
- J145 RESEARCH IN MENTAL RETARDATION AND CHILD DEVELOPMENT**, HD-02274-04; FARWELL, GEORGE W.; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 7/69-6/70; RENEWAL; \$468,940; NICHD.
THIS RESEARCH CONCERNS SUPPORT FOR THE DIRECTOR AND THE SMALL STAFF NECESSARY TO IMPLEMENT THE MULTIDISCIPLINARY RESEARCH PROGRAMS OF THE M.R.C.D. CENTER WHICH ARE CONTEMPLATED AND TO PLAN THE NEW FACILITIES IN SUCH A WAY AS TO MAXIMIZE INTERDISCIPLINARY COORDINATION AND SCIENTIFIC PRODUCTIVITY.
- J150 MENTAL RETARDATION RESEARCH CENTER-CENTER** GRANT HD 01799-05, GORDON, HARRY H., YESHIVA UNIVERSITY, NEW YORK, N.Y., 9/69-8/70 RENEWAL, \$563,507. NICHD
THIS PROJECT CONCERNS SUPPORT OF THE SCIENTIFIC ACTIVITIES OF THE DIRECTOR AND STAFF OF A CENTER FOR RESEARCH IN MENTAL RETARDATION AND HUMAN DEVELOPMENT DURING THE NEXT 4 YEARS OF INITIATION AND EXPANSION OF RESEARCH PROGRAMS, RECRUITMENT OF SCIENTIFIC PERSONNEL, IMPLEMENTATION OF AFFILIATIONS WITH COMMUNITY AGENCIES FOR THE RETARDED, AND DETAILED PLANNING OF NEW RESEARCH FACILITIES IN ORDER TO ENSURE MAXIMUM SCIENTIFIC PRODUCTIVITY.
- J151 RESEARCH PROGRAM ON RETARDED INTELLECTUAL DEVELOPMENT**, HD-00973-07; HAYWOOD, H. C.; GEORGE PEABODY COLLEGE FOR TEACHERS; NASHVILLE, TENNESSEE; 6/70-5/71; CONTINUATION; \$221,192; NICHD.
THIS RESEARCH FOCUSES UPON ORAL AND WRITTEN LANGUAGE DEVELOPMENT OF THE CULTURALLY AND MENTALLY RETARDED THE ASSESSMENT OF THE EFFECTS OF VARIOUS REINFORCEMENT SCHEDULES DISCRIMINATION AND LEARNING ASSOCIATIVE AND MEDIATION PROCESSES THE SOCIAL ADJUSTMENT OF THE RETARDATE SOCIAL REFERENTS OF INSTITUTIONALIZED RETARDATE AND PSYCHO-MOTOR DEVELOPMENT OF RETARDED CHILDREN IN THE COMMUNITY.
- J155 RESEARCH IN MENTAL RETARDATION** HD4147-02, MOSER, HUGO W., MASS. STATE DEPT OF MENTAL HEALTH, WAVERLY, MASS., 1/70-12/70 CONTINUATION \$129,207. NICHD

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- THE PURPOSE OF THIS PROJECT IS TO ESTABLISH A CENTER FOR RESEARCH IN MENTAL RETARDATION. THE CENTER WILL PROVIDE INPATIENT METABOLIC AND LABORATORIES FOR BIOMEDICAL RESEARCH. BEHAVIOR MODIFICATION UNITS, SPECIALIZED DIAGNOSTIC FACILITIES
- J160 STEROID RECEPTORS IN TARGET TISSUES; HD-04783-01; HEINRICH, WILLIAM L.; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 6/70-5/71; INITIAL; \$18,687; NICHD**
- THE MAJOR AIM OF THIS RESEARCH IS TO ESTABLISH A DIRECT RELATIONSHIP BETWEEN THE CYTOPLASMIC AND NUCLEAR BINDING OF POTENT STEROID HORMONES IN DIFFERENT TARGET ORGANS AND THE PHYSIOLOGIC EFFECTS OF THOSE COMPOUNDS. THIS RELATIONSHIP WILL BE STUDIED BY PREPARING RADIOACTIVE RECEPTORS AND STUDYING THE TRANSFER OF THE CYTOPLASMIC RECEPTOR STEROID COMPLEX TO NUCLEI OF DIFFERENT ORGANS. IN ADDITION THE SIGNIFICANCE OF BINDING IN RELATION TO THE MECHANISM OF HORMONE ACTION WILL BE STUDIED.
- J165 SENSORY INTEGRATIVE PROCESSES AND LEARNING DISORDERS; H-126-1, AYRES, A. JEAN, UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CALIFORNIA, 7/1/70-6/30/71, CONTINUATION, \$14,215. HSMHA-MCHS**
- THIS RESEARCH FOCUSES ON SENSORIMOTOR TRAINING TO EMPHASIZE INTERSENSORY INTEGRATION OF TACTILE, PROPRIOCEPTIVE, AUDITORY AND VISUAL STIMULI THROUGH HYPOTHESIZED CENTRAL NERVOUS SYSTEM MECHANISMS AND PRESUMED USE OF THE RETICULAR ACTIVATING SYSTEM.
- J170 SUPPLEMENTAL DAYTIME CARE OF INFANTS (GROUP CARE OF INFANTS) D-256, KEISTER, MARY E., UNIVERSITY OF NORTH CAROLINA, GREENSBORO, NORTH CAROLINA, 7/1/69-6/30/70, RENEWAL, \$120,734. HSMHA-MCHS**
- THIS PROJECT WILL ESTABLISH A NURSERY CENTER TO SERVE AS A MODEL FOR DAY CARE OF CHILDREN 3 TO 23 MONTHS. NON-PROFESSIONALS WILL BE TRAINED TO GIVE MOST OF THE CARE TO THE CHILDREN. THE PROGRAM WILL ATTEMPT TO REPLICATE THE EMOTIONAL AND LEARNING MILIEU OF A FAMILY.
- J175 TERATOLOGICAL STUDIES WITH INBRED MICE; HD-03502-03; KALTER, HAROLD; CHILDRENS HOSPITAL RESEARCH FOUNDATION; CINCINNATI, OHIO; 5/70-4/71; CONTINUATION; \$19,156; NICHD.**
- THIS STUDY IS CONCERNED WITH EXTRINSICALLY INDUCED AND SPONTANEOUS MALFORMATIONS IN MICE. HEREDITARY AND NON-HEREDITARY FACTORS OF SUSCEPTIBILITY WILL BE INVESTIGATED.
- J180 THE CHILD AND THE STATE H-91, ELIOT, MARTHA M., AMERICAN PUBLIC HEALTH ASSOCIATION, NEW YORK, N.Y., 6/1/70-5/31/71, CONTINUATION, \$40,560. HSMHA-MCHS**
- THIS RESEARCH EMBRACES SOCIAL WELFARE, JUVENILE DELINQUENCY, YOUTH EMPLOYMENT AND CHILD LABOR, HEALTH AND MEDICAL CARE, EDUCATION AND HUMAN RIGHTS. IT IS PROPOSED THAT THE RESEARCH BE USED FOR A NEW AND ENLARGED EDITION OF THE CHILD AND THE STATE BY THE AMERICAN PUBLIC HEALTH ASSOCIATION, AND PUBLISHED BY THE HARVARD UNIVERSITY PRESS.
- J185 TRAINING AND RESEARCH FACILITY IN CHILD WELFARE SF-200, TURNER, JOHN B., WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, 7/1/69-6/30/70 RENEWAL, \$503,447. HSMHA-MCHS**
- THIS PROJECT PROPOSES TO ESTABLISH A TRAINING AND RESEARCH FACILITY AT A SETTLEMENT HOUSE IN A LOW-INCOME AREA. NEW APPROACHES TO PROGRAM PLANNING AND PROVISION OF SERVICES FOR THE COMMUNITY WILL BE UTILIZED IN TRAINING SOCIAL WORK STUDENTS. THE WELFARE OF CHILDREN WILL RECEIVE PARTICULAR EMPHASIS.
- J190 UNC CHILD DEVELOPMENT AND MENTAL RETARDATION INSTITUTE HD 03110-03, MILLER, C. ARDEN, UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, N.C., 9/69-8/70 RENEWAL, \$210,535. NICHD**
- THIS PROJECT WILL BE A BROADLY FOCUSED RESEARCH APPROACH TO PROBLEMS OF NORMAL AND PATHOLOGICAL INTELLECTUAL DEVELOPMENT. TWO MAJOR AREAS OF STUDY ARE 1. EFFECTS OF SOCIAL AND CULTURAL DEPRIVATION ON INTELLECTUAL DEVELOPMENT. 2. THE MANIFOLD COURSES OF BIOLOGICAL MENTAL RETARDATION.
- J191 UPTAKE OF AMINO ACIDS BY THE FETUS OF THE EWE; HD-03255-03; CURET, LUIS B.; UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN; 5/70-4/71; CONTINUATION; \$18,630; NICHD.**
- THE PURPOSE OF THIS RESEARCH IS TO STUDY THE UTERINE AND UMBILICAL BLOOD FLOW AND OXYGEN AND AMINO ACID METABOLISM IN THE PREGNANT EWE.

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- C610 TISSUE CULTURE IN HEREDITARY DISORDERS \$40,529
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KENTUCKY

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C560 STUDIES IN HUMAN GENETICS \$8,979
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A115 CYTOGENESIS OF EMBRYONIC HUMAN CENTRAL NERVOUS SYSTEM, \$22,569
A220 GENETIC AND CYTOGENETIC LABORATORY FOR MR RESEARCH \$164,586
A319 NEUROGENETIC PROCESSES IN FETAL BRAIN, \$59,191
A320 NEUROLOGICAL DEVELOPMENT-INFANTS OF DIABETIC MOTHERS, \$5,534
A325 NEW AMINO ACID DISORDERS IN CEREBRAL DISEASE, \$59,375
A430 RED CELL AND SERUM FACTORS AS GENE MARKERS IN CHILDREN, \$3,578
A465 STUDY OF COPPER PROTEINS IN NORMAL AND DISEASED BRAIN, \$26,142
A476 STUDIES IN EXPERIMENTAL ERYTHROBLASTOSIS FETALISS\$45,046
C105 BRAIN DEVELOPMENT IN NORMAL AND MUTANT MICE \$149,820
C425 METABOLISM AND FUNCTION OF COMPLEX LIPIDS \$32,468
C525 QUANTITATIVE HISTOCHEMICAL STUDIES UPON CEREBRAL CORTEX \$17,435
D015 ADAPTIVE BEHAVIOR AND EEG IN MENTAL RETARDATEES \$600
D036 A BEHAVIORAL EVALUATION PROGRAM FOR RETARDED CHILDREN \$43,158
D180 QUANTITATIVE HUMAN CHROMOSOME STUDY AIDED BY COMPUTER \$31,240
G027 THE EFFECTS OF INTERVENTION ON INFANTS' MENTAL HEALTH \$220,459
G130 LEARNING POTENTIAL AND EDUCABILITY \$286,536
H065 NEW APPROACHES TO COMPETITIVE EMPLOYMENT \$76,000
J020 BEHAVIORAL CLASSIFICATION OF NEUROLOGICAL PATIENTS, \$90,558
J121 MENTAL RETARDATION, BIOCHEMICAL AND GENETIC ASPECTS \$300,230
J125 MENTAL RETARDATION RESEARCH PROGRAM-IMPLEMENTATION \$243,721
J155 RESEARCH IN MENTAL RETARDATION \$129,207

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A196 FRACTIONATION AND QUANTITATION OF THE HUMAN GENE \$39,577
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A420 DEVELOPMENT OF THE NERVOUS SYSTEM, \$32,393
A531 TRANSPLACENTAL PASSAGE OF FETAL ERYTHROCYTES \$49,897
C135 CEREBRAL ENZYMES IN NORMAL AND CONVULSIVE STATES \$52,158
C170 CNS AND NUTRITIONAL INFLUENCES OF AMINO ACIDS IN PKU \$14,728
C445 MORPHOLOGY AND CYTOCHEMISTRY OF DEVELOPING SYNAPSES \$19,826
D080 COGNITIVE DEFICITS AND BRAIN DYSFUNCTION, \$23,504
G115 FACILITATION OF COGNITIVE DEVELOPMENT AMONG CHILDREN \$74,868
G145 PRODUCTION AND EVALUATION OF INDIVIDUALIZED CURRICULUM \$100,000

MINNESOTA

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A140 DIRECT AND INDIRECT CALORIMETRY OF NEWBORNS \$33,784
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C255 EMBRYOGENESIS OF THE ADRENERGIC NERVOUS-SYSTEM \$19,675
D046 A CENTER FOR RESEARCH IN HUMAN LEARNING \$116,764
D185 RESEARCH IN DEVELOPMENTAL PSYCHOLOGY \$165,406
H010 ASSESSING OF WORK PERSONALITIES \$46,447
H055 INTER-DISTRICT SCHOOL REHABILITATION PROGRAM \$56,810
I040 METABOLISM OF COPPER AND CALCIUM IN WILSON'S DISEASE, \$31,628
J115 LONGITUDINAL STUDY OF EEG PATTERNS IN CHILDREN, \$7,734

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A050 SYNTHESIS AND METABOLISM OF GALACTOLIPIDS, \$28,940
A150 EFFECTS OF ANOXIA ON BRAIN METABOLISM IN THE NEWBORN, \$28,412
A221 HEXOSAMINIDASES IN THE CENTRAL NERVOUS SYSTEM, \$40,685
A375 PHENYLALANINE ANTIMETABOLITE EFFECT ON NERVOUS SYSTEM, \$23,730
D105 DIAGNOSTIC ASPECTS OF ELECTROENCEPHALIC AUDIOMETRY \$56,374
H050 INDUSTRIAL TRAINING RESOURCES IN REHABILITATION PROGRAMS \$3,946

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A445 SOCIAL DEVELOPMENT AFTER MALNUTRITION IN INFANCY \$57,020

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A180 ENZYME ACTIVITIES IN BRAINS, \$17,099
A435 ROLE OF BRANCHED CHAIN AMINO ACIDS IN BRAIN MATURATION, \$17,520
C029 ANALYSIS OF BRAIN ELECTRICAL ACTIVITY OF INFANTS \$11,245
D035 BEHAVIORAL AND NEURAL EFFECTS OF INDUCED PKU \$19,372
J055 DEVELOPMENT OF BRAIN ELECTRICAL ACTIVITY OF INFANTS, \$45,597
J119 MENTAL RETARDATION CLINICAL RESEARCH CENTER \$13,598

NEVADA

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C330 STORAGE DISEASE-INTRACELLULAR TRANSPORT AND DIGESTION \$51,470

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A535 VIRUS-CELL INTERACTION REPLICATION AND DIFFERENTIATION, \$75,098

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A227 HISTOCHEMICAL SURVEY OF ENZYMES IN BEHAVIORAL MUTANTS \$29,236
A346 NUTRITIONAL AND BIOCHEMICAL BASIS FOR LEARNING \$33,684

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A440 SEROTONIN AND GANGLIOSIDES IN BRAIN DEVELOPMENT, \$21,447
D011 ACQUISITION AND UTILIZATION OF CONCEPTUAL RULES \$14,418

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A015 ABO ERYTHROBLASTOSIS \$95,649
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A155 EFFECTS OF MALNUTRITION IN EARLY LIFE \$411,832
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A195 FUNCTIONAL ANALYSIS OF THE HUMAN SKULL, \$8,638
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A330 NUTRITION AND CELL GROWTH DURING BRAIN DEVELOPMENT, \$35,300
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C115 BRAIN FUNCTIONS IN METABOLIC DISORDERS \$54,844
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C335 HISTOPATHOLOGIC PATTERNS IN THE BRAIN \$23,344
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C591 STUDIES OF THE METABOLISM ON N-ACETYL-L-ASPARTIC ACID \$16,405
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D059 CNS MATURATION & EVOKED RESPONSES IN PREMATURE INFANT \$43,440
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E015 DIAGNOSTIC-THERAPEUTIC STUDIES OF HIGH-RISK PREGNANCY \$191,843
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 - A370 PERSISTENT CONGENITAL AND NEONATAL VIRUS INFECTIONS, \$7,542
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 - B015 SOCIOBEHAVIORAL STUDY CENTER FOR MENTAL RETARDATION \$19,831
 - C015 AMINE METABOLISM IN PKY AND MENTAL DISORDERS, \$19,831
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