

M **mental** **retardation** **grants** **R**

Fiscal Year - 1969

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.

Mental Retardation GRANTS

Fiscal Year 1969

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

Patricia Reilly Hitt, Assistant
Secretary for Community and Field
Services

The Secretary's Committee on Mental Retardation
Washington, D.C. December 1969

INTRODUCTION

This publication contains the Mental Retardation Project Grants awarded by the U. S. Department of Health, Education, and Welfare in Fiscal Year 1969 (July 1, 1968 - June 30, 1969). 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.

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 starting on page 31 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

The Secretary's Committee on Mental Retardation Subcommittee on Research in arriving at the classification system, first agreed upon functional definitions for the terms used in the classification system. These definitions are included here for purposes of information.

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 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, rehabilitation of the retarded or in effect helping them to pursue a better life or to better adjust to their situation.
7. Other includes those projects which do not appear to clearly fall within the previous 6 classification categories.

An abstract describing the purpose of the research or demonstration project is included for most grants.

There are some project grants with the notation "No abstract supplied." This means that the funding agency did not furnish a project grant abstract to the Secretary's Committee and hence no narrative material was available to include with the project.

The subject index on page 57 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 grant which will enable the reader to easily locate his area of interest. An additional index of project grant by State is included on pages 67-73.

Additional information concerning the grants shown in this publication may be secured from the grantee or the agency awarding the grant.

A full discussion of the Department's mental retardation programs will be found in Mental Retardation Activities of the Department of Health, Education, and Welfare, January 1970. This is available from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, price \$1.00 per copy.

Explanation of Format

In both parts of this publication a code precedes the title of the grant followed by the name and address of the grantee. The dates indicate either the date the grant was awarded, or the inclusive dates for which funds were made available. There is also designation of the grant as initial or renewal and the amount of money shown represents only the funds awarded in fiscal year 1969.

The capital letters following the amount of money indicates the agency making the award:

<u>HSMHA:</u>	Health Services and Mental Health Administration
<u>HSPCS:</u>	Health Services Planning and Construction Service
<u>NIMH:</u>	National Institute of Mental Health
<u>NIH:</u>	National Institutes of Health
<u>NICHD:</u>	National Institute of Child Health and Human Development
<u>NINDS:</u>	National Institute of Neurological Diseases and Stroke
<u>OE:</u>	Office of Education
<u>OFPU:</u>	Division of Surplus Property Utilization
<u>SRS:</u>	Social and Rehabilitation Service
<u>SRS/ORDT:</u>	Office of Research, Demonstration, and Training
<u>SRS/CB:</u>	Children's Bureau
<u>SRS/DMR:</u>	Division of Mental Retardation
<u>SRS/P:</u>	Partnership for Health 314(e) grants
<u>SRS/RSA:</u>	Rehabilitation Services Administration

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CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

ALABAMA

TRAINING

- 01B005 A PROGRAM FOR THE TRAINING OF CLINICAL PSYCHOLOGISTS FOR THE FIELD OF MENTAL RETARDATION UNIVERSITY OF ALABAMA, BIRMINGHAM
FY 1969, RENEWAL, \$79,905. SRS-P
- 01B010 CENTER FOR DEVELOPMENTAL AND LEARNING DISORDERS UNIVERSITY OF ALABAMA, BIRMINGHAM
1/1/69-12/31/69, RENEWAL, \$648,669. SRS-CB
- 01B015 CYTOGENETIC STUDIES IN MENTAL RETARDATION AND BIRTH DEFECTS UNIVERSITY OF ALABAMA, BIRMINGHAM
7/1/68-6/30/69, RENEWAL, \$31,990. SRS-CB
- 01B020 DIAGNOSTIC SERVICE FOR MENTALLY RETARDED CHILDREN, UNIVERSITY OF ALABAMA, BIRMINGHAM
STATE DEPARTMENT OF PUBLIC HEALTH, MONTGOMERY
7/1/68-6/30/69, RENEWAL, \$54,140. SRS-CB
- 01B025 INTENSIVE INDIVIDUAL TRAINING UNIT, PARTLOW STATE SCHOOL AND HOSPITAL, TUSCALOOSA
6/25/69-5/31/70, INITIAL, \$81,797. SRS-DMR
- 01B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ALABAMA AGRICULTURAL AND MECHANICAL COLLEGE, NORMAL
FY 1969, RENEWAL, \$17,400. OE
- 01B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN AUBURN UNIVERSITY, AUBURN
6/1/69-8/31/70, INITIAL, \$25,200. OE
- 01B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, MONTGOMERY
FY 1969, RENEWAL, \$58,750. OE
- 01B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TUSKEGEE INSTITUTE, TUSKEGEE
FY 1969, RENEWAL, \$15,900. OE
- 01B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ALABAMA, BIRMINGHAM
FY 1969, RENEWAL, \$30,000. OE
- 01B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ALABAMA, BIRMINGHAM
FY 1969, RENEWAL, \$39,300. OE
- 01B065 REGIONAL TRAINING CENTER IN MENTAL RETARDATION UNIVERSITY OF ALABAMA, BIRMINGHAM
FY 1969, RENEWAL, \$91,306. SRS-P
- 01B070 DIAGNOSTIC AND GUIDANCE CENTER, CHILDREN'S CENTER OF MONTGOMERY STATE DEPARTMENT OF PUBLIC HEALTH, MONTGOMERY
7/1/68-6/30/69, RENEWAL, \$64,831. SRS-CB

CONSTRUCTION

- 01C005 COMMUNITY FACILITIES CONSTRUCTION, LURLEEN B. WALLACE MR HOSPITAL, DECATUR
6/12/69, INITIAL, \$94,700. SRS-DMR
- 01C010 COMMUNITY FACILITIES CONSTRUCTION, LURLEEN B. WALLACE MR HOSPITAL, TRAINING AND ACTIVITY CENTER, DECATUR
6/12/69, INITIAL, \$348,900. SRS-DMR

- 01C015 COMMUNITY FACILITIES CONSTRUCTION, OZARK MENTAL RETARDATION CENTER, OZARK
6/12/69, INITIAL, \$257,400. SRS-DMR
- 01C020 COMMUNITY FACILITIES CONSTRUCTION, RETARDED CHILDREN'S SCHOOL, MONTGOMERY
6/26/69, INITIAL, \$120,000. SRS-DMR

OTHER

- 01D005 LURLEEN B. WALLACE MENTAL RETARDATION HOSPITAL, DECATUR
3/21/69, INITIAL, \$201,213 HSMHA-HFPCS
- 01D010 MR INITIAL STAFFING, AID FOR RETARDED CHILDREN ASSOC., OF JEFFERSON COUNTY, BIRMINGHAM
9/1/69-8/31/70, INITIAL, \$79,700. SRS-DMR
- 01D015 MR INITIAL STAFFING, AID FOR RETARDED CHILDREN ASSOC., INC. OF MADISON COUNTY, HUNTSVILLE
9/1/69-8/31/70, INITIAL, \$36,825. SRS-DMR
- 01D020 MR INITIAL STAFFING, GROUP AID FOR RETARDED CHILDREN, INC., MOBILE
9/1/69-8/31/70, INITIAL, \$70,650. SRS-DMR
- 01D025 MR INITIAL STAFFING, MARSHALL COUNTY ASSOCIATION FOR RETARDED CHILDREN, INC., ARAB
8/1/69-7/31/70, INITIAL, \$21,694. SRS-DMR
- 01D030 MR INITIAL STAFFING, MORGAN-LAWRENCE LIMESTONE UNIT OF THE ALA. ARC, DECATUR
8/1/69-7/31/70, INITIAL, \$17,135. SRS-DMR
- 01D035 MR INITIAL STAFFING, REHABILITATION CENTER FOR THE CRIPPLED, HUNTSVILLE
7/1/69-6/30/70, INITIAL, \$46,196. SRS-DMR

ALASKA

TRAINING

- 02B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, JUNEAU
FY 1969, RENEWAL, \$13,200. OE

CONSTRUCTION

- 02C005 COMMUNITY FACILITIES CONSTRUCTION, HARBOR VIEW MEMORIAL HOSPITAL, VALDEZ
6/18/69, INITIAL, \$114,400. SRS-DMR

OTHER

- 02D005 ANCHORAGE RETARDED CHILDREN ASSOCIATION, ANCHORAGE
1/15/69-1/14/70, INITIAL, \$5,220. SRS RSA
- 02D010 CHILD STUDY CENTER, ANCHORAGE STATE DEPARTMENT OF HEALTH AND WELFARE, JUNEAU
7/1/68-6/30/69, RENEWAL, \$32,100. SRS-CB
- 02D015 FAIRBANKS REHABILITATION ASSOCIATION, FAIRBANKS
6/1/69-5/31/70, INITIAL, \$6,982. SRS RSA

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

ARIZONA

TRAINING

- 04B005 INSERVICE TRAINING PROGRAM FOR ATTENDANT PERSONNEL MR ARIZONA CHILDREN'S COLONY, COOLIDGE
7/1/69-6/30/70, RENEWAL, \$24,499, SRS-DMR
- 04B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ARIZONA STATE UNIVERSITY, TEMPE
FY 1969, RENEWAL, \$41,400. OE
- 04B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHERN ARIZONA UNIVERSITY, FLAGSTAFF
FY 1969, RENEWAL, \$17,700. OE
- 04B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, PHOENIX
FY 1969, RENEWAL, \$46,624. OE
- 04B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ARIZONA, TUCSON
FY 1969, RENEWAL, \$43,900. OE

CONSTRUCTION

- 04C005 COMMUNITY FACILITIES CONSTRUCTION, TUCSON MENTAL RETARDATION CENTER, TUCSON
10/68, INITIAL, \$200,000. SRS-DMR

OTHER

- 04D005 A DEVELOPMENTAL PROGRAM FOR THE SEVERELY RETARDED, ARIZONA CHILDREN'S COLONY, COOLIDGE
2/1/69-1/31/70, RENEWAL, \$97,132, SRS-DMR
- 04D010 ARIZONA JOB COLLEGES, PHOENIX
6/30/69-6/29/70, INITIAL, \$75,000. SRS RSA
- 04D015 ARIZONA STATE UNIVERSITY, DEPARTMENT OF SPECIAL EDUCATION, TEMPE
6/30/69-6/29/70, INITIAL, \$9,000. SRS RSA
- 04D020 CHILD DEVELOPMENTAL CENTER, MARICOPA COUNTY STATE DEPARTMENT OF HEALTH, PHOENIX
7/1/68-6/30/69, RENEWAL, \$181,636. SRS-CB
- 04D025 CHILDREN'S EVALUATION CENTER, SOUTHERN ARIZONA, PIMA COUNTY STATE DEPARTMENT OF HEALTH, PHOENIX
7/1/68-6/30/69, RENEWAL, \$109,984. SRS-CB
- 04D030 CROSSROADS REHABILITATION CENTER, PHOENIX
3/1/69-2/28/70, INITIAL, \$8,460. SRS RSA
- 04D035 MR INITIAL STAFFING, ARIZONA FOUNDATION FOR THE HANDICAPPED, PHOENIX
9/1/69-8/31/70, INITIAL, \$18,637. SRS-DMR
- 04D040 MR INITIAL STAFFING, DOUGLAS ASSOCIATION FOR RETARDED CHILDREN, DOUGLAS
9/1/69-8/31/70, INITIAL, \$4,095. SRS-DMR
- 04D045 MR INITIAL STAFFING, MARICOPA ASSOCIATION FOR RETARDED CHILDREN, PHOENIX
9/1/69-8/31/70, INITIAL, \$6,525. SRS-DMR
- 04D055 MR INITIAL STAFFING, SANTA CRUZ COUNTY ASSOC. FOR MENTALLY RETARDED CHILDREN, INC., NOGALES
9/1/69-8/31/70, INITIAL, \$17,250. SRS-DMR
- 04D060 MR INITIAL STAFFING, TUCSON ELEMENTARY SCHOOL DISTRICT NO. 1, TUCSON
8/1/69-7/31/70, INITIAL, \$19,890. SRS-DMR
- 04D065 MR INITIAL STAFFING, VALLEY OF THE SUN SCHOOL, PHOENIX
9/1/69-8/31/70, INITIAL, \$29,550. SRS-DMR
- 04D070 MR INITIAL STAFFING, YUMA COUNTY ASSOCIATION FOR RETARDES, INC., YUMA
8/1/69-7/31/70, INITIAL, \$8,550. SRS-DMR
- 04D075 STUDY OF COOPERATIVE ARRANGEMENTS FOR MENTAL HEALTH SERVICE NORTH ARIZONA COMPREHENSIVE GUIDANCE CENTER, FLAGSTAFF
FY 1969, INITIAL, \$39,287. SRS-P

ARKANSAS

TRAINING

- 05B005 INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR ARKANSAS CHILDREN'S COLONY, CONWAY
7/1/69-6/30/70, RENEWAL, \$25,000. SRS-DMR
- 05B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ARKANSAS STATE TEACHERS COLLEGE, CONWAY
FY 1969, RENEWAL, \$82,500. OE
- 05B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ARKANSAS STATE UNIVERSITY, STATE COLLEGE
FY 1969, RENEWAL, \$23,300. OE
- 05B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, LITTLE ROCK
FY 1969, RENEWAL, \$67,100. OE
- 05B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ARKANSAS, FAYETTEVILLE
FY 1969, RENEWAL, \$9,000. OE
- 05B030 STATEWIDE PLANNING FOR HEALTH & HEALTH RELATED PERSONNEL TRAINING TO SERVE THE MENTALLY RETARDED COMMISSION ON COORDINATION OF HIGHER EDUCATION FINANCE, LITTLE ROCK
FY 1969, RENEWAL, \$34,078. SRS-P

CONSTRUCTION

- 05C005 COMMUNITY FACILITIES CONSTRUCTION, WASHINGTON COUNTY SCHOOL FOR RETARDED CHILDREN, FAYETTEVILLE
6/27/69, INITIAL, \$65,000. SRS-DMR

OTHER

- 05D005 CHILD DEVELOPMENT CENTER, LITTLE ROCK STATE BOARD OF HEALTH, LITTLE ROCK
7/1/68-6/30/69, RENEWAL, \$68,142. SRS-CB
- 05D010 FACILITY IMPROVEMENT GRANT ABILITIES UNLIMITED, INC., HOT SPRINGS
5/1/69-4/30/70, RENEWAL, \$7,086. SRS-RSA
- 05D015 FACILITY IMPROVEMENT GRANT ABILITIES UNLIMITED, INC., MAGNOLIA
6/1/69-5/31/70, RENEWAL, \$6,552. SRS-RSA
- 05D020 FACILITY IMPROVEMENT GRANT TEXARKANA SHELTERED WORKSHOP, INC., TEXARKANA
6/1/69-5/31/70, RENEWAL, \$7,182. SRS-RSA
- 05D025 MID-ARKANSAS RIVER VALLEY AREA WORKSHOP, RUSSELLVILLE
10/1/68-9/30/69, INITIAL, \$4,950. SRS RSA
- 05D030 TRAINING FOR THE PROFOUND THROUGH BORDERLINE RETARDATE, ARKANSAS CHILDREN'S COLONY, CONWAY
11/15/68-11/14/69, RENEWAL, \$91,250. SRS-DMR
- 05D035 MR INITIAL STAFFING, ARKANSAS SOCIETY FOR CRIPPLED CHILDREN, PINE BLUFF
9/1/69-8/31/70, INITIAL, \$14,545. SRS-DMR
- 05D040 MR INITIAL STAFFING, BOST SCHOOL FOR LIMITED CHILDREN, INC., FORT SMITH
9/1/69-8/31/70, INITIAL, \$13,555. SRS-DMR
- 05D045 MR INITIAL STAFFING, LAFAYETTE ASSOCIATION FOR RETARDED CHILDREN, STAMPS
2/1/70-1/31/71, INITIAL, \$14,094. SRS-DMR
- 05D046 MR INITIAL STAFFING, NORTH HILLS EXCEPTIONAL CHILDREN'S SCHOOL, NORTH LITTLE ROCK
2/1/70-1/31/71, INITIAL, \$5,475. SRS-DMR
- 05D050 MR INITIAL STAFFING, SALINE COUNTY ASSOCIATION FOR THE MENTALLY RETARDED, BENTON
9/1/69-8/31/70, INITIAL, \$7,047. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

CALIFORNIA

TRAINING

- 06B005 CONTINUING EDUCATION-MENTAL RETARDATION
UNIVERSITY OF CALIFORNIA, LOS ANGELES,
FY 1969, RENEWAL, \$40,860. NIMH
- 06B010 CYTOGENETIC LAB IN A CHILD DEVELOPMENT AND
MENTAL RETARDATION CENTER LOS ANGELES
COUNTY GENERAL HOSPITAL, LOS ANGELES
7/1/68-6/30/69, RENEWAL, \$74,929. SRS-CB
- 06B015 CYTOGENETIC UNIT CHILDREN'S HOSPITAL OF LOS
ANGELES, LOS ANGELES
7/1/68-6/30/69, RENEWAL, \$138,756. SRS-CB
- 06B020 FIELD INSTRUCTION OF REHABILITATION COUNSELING
CALIFORNIA STATE COLLEGE, LOS ANGELES
9/1/68-8/31/69, RENEWAL, \$71,000. SRS-RSA
- 06B025 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS SAN
DIEGO STATE COLLEGE, SAN DIEGO
6/15/69-6/14/70, INITIAL, \$12,834 SRS RSA
- 06B030 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
UNIVERSITY OF CALIFORNIA, BERKELEY
9/1/68-8/31/69, RENEWAL, \$54,505. SRS-RSA
- 06B035 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
UNIVERSITY OF CALIFORNIA, LOS ANGELES
7/1/68-8/31/69, RENEWAL, \$46,651. SRS-RSA
- 06B040 GRADUATE PEDODONTIC TRAINING - HANDICAPPED
CHILDREN UNIVERSITY OF SOUTHERN CALIFORNIA,
LOS ANGELES
10/1/68-6/30/69, RENEWAL, \$40,933. SRS-CB
- 06B045 INSERVICE TRAINING PRIMARILY FOR NURSING STAFF
MR SONOMA STATE HOSPITAL, ELDRIDGE
7/1/69-6/30/70, RENEWAL, \$23,635. SRS DMR
- 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
- 06B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
CALIFORNIA STATE COLLEGE, CALIFORNIA
FY 1969, RENEWAL, \$56,600. OE
- 06B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
CALIFORNIA STATE COLLEGE AT LOS ANGELES, LOS
ANGELES
FY 1969, RENEWAL, \$80,700. OE
- 06B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN FRESNO
STATE COLLEGE, FRESNO
FY 1969, RENEWAL, \$15,900. OE
- 06B075 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN SAN DIEGO
STATE COLLEGE, SAN DIEGO
FY 1969, RENEWAL, \$33,000. OE
- 06B080 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN SAN
FRANCISCO STATE COLLEGE, SAN FRANCISCO
FY 1969, RENEWAL, \$130,100. OE
- 06B085 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN SAN JOSE
STATE COLLEGE, SAN JOSE
FY 1969, RENEWAL, \$51,700. OE
- 06B090 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN SONOMA
STATE COLLEGE, SONOMA
6/1/69-8/31/70, INITIAL, \$5,900. OE
- 06B095 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF CALIFORNIA AT LOS ANGELES, LOS
ANGELES
FY 1969, RENEWAL, \$22,987. OE

- 06B100 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS
ANGELES
FY 1969, RENEWAL, \$37,100. OE
- 06B105 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
EDUCATION AGENCY, SACRAMENTO
6/1/69-8/31/70, INITIAL, \$41,322. OE
- 06B110 PSYCHIATRY-MENTAL RETARDATION UNIVERSITY OF
CALIFORNIA, SAN FRANCISCO
FY 1969, RENEWAL, \$115,107. NIMH
- 06B115 SUMMER WORK STUDY PROGRAM IN MENTAL
RETARDATION STATE OF CALIFORNIA,
SACRAMENTO
FY 1969, RENEWAL, \$33,831. SRS-P
- 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
7/1/69-6/30/70, RENEWAL, \$25,000. SRS-DMR
- 06B130 TRAINING PROGRAM FOR METABOLIC DISORDERS
CHILDREN'S HOSPITAL OF LOS ANGELES, LOS
ANGELES
7/1/68-6/30/69, RENEWAL, \$179,605. SRS-CB
- 06B135 TRAINING PROGRAM FOR RETARDED BLIND AND DEAF
CHILDREN, SONOMA STATE HOSPITAL, ELDRIDGE
12/1/68-11/30/69, RENEWAL, \$94,473. SRS-DMR
- 06B140 TRAINING PROGRAM IN MEDICAL GENETICS
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS
ANGELES
FY 1969, RENEWAL, \$135,426. SRS-P
- 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
7/1/68-6/30/69, RENEWAL, \$299,457. SRS-CB

CONSTRUCTION

- 06C005 COMMUNITY FACILITIES CONSTRUCTION, LORI LYNN
RESIDENT SCHOOL, FRESNO
4/16/69, INITIAL, \$428,097. SRS-DMR
- 06C010 COMMUNITY FACILITIES CONSTRUCTION, PARKLANE
RESIDENTIAL SCHOOL, EL TORO
6/9/69, INITIAL, \$391,218. SRS-DMR

OTHER

- 06D005 AN ADMISSION-RELEASE PROGRAM FOR SEVERELY
RETARDED, PACIFIC STATE HOSPITAL, POMONA
2/1/69-1/31/70, RENEWAL, \$98,593. SRS-DMR
- 06D010 COLLABORATIVE STUDY OF TREATED PKU CHILDREN
CHILDREN'S HOSPITAL OF LOS ANGELES, LOS
ANGELES
7/1/68-6/30/70, RENEWAL, \$126,453 SRS-CB
- 06D015 CREATING THERAPEUTIC PYRAMIDS USING MENTAL
RETARDATION PATIENTS FAIRVIEW STATE
HOSPITAL, COSTA MESA
FY 1969, RENEWAL, \$61,238. SRS-P
- 06D020 EDDIE CANTOR CHARITABLE FOUNDATION, VAN NUYS
5/15/69-5/14/70, INITIAL, \$4,090. SRS RSA
- 06D025 FACILITY IMPROVEMENT GRANT CONTRA COSTA
COMMUNITY WORKSHOPS, INC., RICHMOND
6/17/68-6/16/69, RENEWAL, \$187,187. SRS-RSA
- 06D030 FACILITY IMPROVEMENT GRANT CONTRA COSTA
COMMUNITY WORKSHOPS, INC., RICHMOND
1/1/69-12/31/69, RENEWAL, \$15,665. SRS RSA
- 06D035 FACILITY IMPROVEMENT GRANT SHELTERED
WORKSHOPS OF SAN DIEGO, INC., SAN DIEGO
10/1/68-9/30/69, RENEWAL, \$12,764. SRS-RSA
- 06D040 MENTAL RETARDATION COMMUNITY SERVICE
CENTER CHILDREN'S HOSPITAL OF LOS ANGELES,
LOS ANGELES
FY 1969, RENEWAL, \$126,996. SRS-P
- 06D045 MENTAL RETARDATION DIAGNOSTIC FIELD CLINICS,
CHILDREN'S HOSPITAL OF LOS ANGELES, LOS
ANGELES STATE DEPARTMENT OF PUBLIC HEALTH,
BERKELEY
7/1/68-6/30/69, RENEWAL, \$103,512 SRS-CB

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

06D050 MENTALLY RETARDED PREVIOUSLY
INSTITUTIONALIZED INTEGRATED INTO
COMMUNITY RECREATION RECREATION CENTER
FOR THE HANDICAPPED, INC., SAN FRANCISCO
FY 1969, INITIAL, \$66,066, SRS-P

06D055 MR INITIAL STAFFING, CHRISTIAN WELFARE SOCIETY,
SAN FRANCISCO
8/1/69-7/31/70, INITIAL, \$34,830, SRS-DMR

06D060 MR INITIAL STAFFING, DUBNOFF SCHOOL FOR
EDUCATION THERAPY, INC., NORTH HOLLYWOOD
7/1/69-6/30/70, INITIAL, \$36,094, SRS-DMR

06D065 MR INITIAL STAFFING, EAST BAY ASSOC. FOR
RETARDED CHILDREN, INC., SAN LEANDRO,
7/1/69-6/30/70, INITIAL, \$63,446, 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, HOPE FOR RETARDED
CHILDREN AND ADULTS, INC., SAN JOSE
10/1/69-9/30/70, INITIAL, \$60,427, 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
7/1/69-6/30/70, INITIAL, \$77,231, SRS-DMR

06D090 MR INITIAL STAFFING, MARIN AID TO RETARDED
CHILDREN, SAN RAFAEL
7/1/69-6/30/70, INITIAL, \$8,235, SRS-DMR

06D095 MR INITIAL STAFFING, RECREATION CENTER FOR THE
HANDICAPPED, SAN FRANCISCO
7/1/69-8/31/70, INITIAL, \$28,938, SRS-DMR

06D100 MR INITIAL STAFFING, REGIONAL CENTER OF LOS
ANGELES, LOS ANGELES
7/1/69-6/30/70, INITIAL, \$9,472, 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
7/1/68-6/30/69, RENEWAL, \$134,442, SRS-CB

06D120 SOCIAL DEVELOPMENT CENTER SAN FRANCISCO AID
TO RETARDED CHILDREN, SAN FRANCISCO
FY 1969, RENEWAL, \$51,703, SRS-P

06D125 STANDARDIZATION PROCEDURES IN PKU UNIVERSITY
OF SOUTHERN CALIFORNIA, LOS ANGELES
7/1/68-6/30/69, RENEWAL, \$38,308, SRS

06D130 STUDIES AND SERVICES IN DETECTING HERITABLE
DISEASES OF THE NEWBORN, BERKELEY STATE
DEPARTMENT OF PUBLIC HEALTH, BERKELEY
7/1/68-6/30/69, RENEWAL, \$158,299, SRS-CB

06D135 TOTAL CARE OF THE MULTIPLY HANDICAPPED CHILD,
PORTERVILLE STATE HOSPITAL, PORTERVILLE
6/1/69-5/31/70, INITIAL, \$98,238, SRS-DMR

06D140 WORKSHOP ORGANIZED BY KIWANIS FOR
REHABILITATION, SANTA BARBARA
3/1/69-2/28/70, INITIAL, \$4,351, SRS-RSA

COLORADO

TRAINING

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

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

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 LORETTO
HEIGHTS COLLEGE, LORETTO
FY 1969, RENEWAL, \$11,800, OE

08B030 POST R. N. INDIVIDUAL TRAINEESHIP FOR SUSAN
ROSEN LORETTO HEIGHTS COLLEGE, LORETTO
FY 1969, INITIAL, \$4,625, SRS-P

08B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
COLORADO STATE COLLEGE, GREELEY
FY 1969, RENEWAL, \$140,200, OE

08B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, DENVER
FY 1969, RENEWAL, \$14,820, OE

CONSTRUCTION

08C005 COMMUNITY FACILITIES CONSTRUCTION, UNIVERSITY
OF DENVER, DENVER
6/30/69, INITIAL, \$95,000, SRS-DMR

OTHER

08D005 BEHAVIOR MODIFICATION PROGRAM TO DEVELOP
SELF-HELP SKILLS, STATE HOME AND TRAINING
SCHOOL, WHEAT RIDGE
6/15/69-5/31/70, RENEWAL, \$57,975, SRS-DMR

08D010 FACILITY IMPROVEMENT GRANT, LARADON HALL
SOCIETY, DENVER
11/1/68-10/31/69, RENEWAL, \$11,900, SRS-RSA

08D015 FACILITY IMPROVEMENT GRANT, NEW HOPE INC.,
FLORENCE
3/1/69-2/28/70, RENEWAL, \$12,632, SRS-RSA

08D020 HABILITATION TO PREVENT LONG TERM
INSTITUTIONALIZATION, STATE HOME AND
TRAINING SCHOOL, GRAND JUNCTION
6/25/69-5/31/70, INITIAL, \$55,420, SRS-DMR

08D025 MR INITIAL STAFFING, ADAMS CO. CC FOR THE
RETARDED AND SERIOUSLY HANDICAPPED,
COMMERCE CITY
9/1/69-8/31/70, INITIAL, \$17,250, SRS-DMR

08D030 MR INITIAL STAFFING, DENVER BOARD FOR THE MR
AND SERIOUSLY HANDICAPPED, INC., DENVER
9/1/69-8/31/70, INITIAL, \$26,775, SRS-DMR

08D035 MR INITIAL STAFFING, LARADON HALL SOCIETY FOR
EXCEPTIONAL CHILDREN, DENVER
9/1/69-8/31/70, INITIAL, \$50,854, SRS-DMR

08D040 MR INITIAL STAFFING, LAS ANIMAS CO. CENTER FOR
THE HANDICAPPED, INC., TRINIDAD
7/1/69-6/30/70, INITIAL, \$6,000, SRS-DMR

08D042 MR INITIAL STAFFING, PINAL COUNTY
ACCOMMODATION SCHOOLS, FLORENCE
9/1/69-8/31/70, INITIAL, \$9,652, SRS-DMR

08D045 PROGRAM FOR PROMOTING MAXIMUM
REHABILITATION OF MENTALLY RETARDED
CHILDREN IN COLORADO, DENVER STATE
DEPARTMENT OF PUBLIC HEALTH, DENVER
7/1/68-6/30/69, RENEWAL, \$236,000, SRS-CB

08D050 PROGRAM IMPROVEMENT FOR INSTITUTIONALLY
DEPRIVED MALES, STATE HOME AND TRAINING
SCHOOL, GRAND JUNCTION
6/1/69-5/31/70, RENEWAL, \$39,542, SRS-DMR

08D055 THERAPEUTIC RESIDENTIAL FACILITY FOR MENTALLY
RETARDED LARADON HALL SOCIETY, DENVER
FY 1969, RENEWAL, \$78,534, SRS-P

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

CONNECTICUT

TRAINING

- 09B005 FIELD INSTRUCTION OF SOCIAL WORK UNIVERSITY OF CONNECTICUT, STORRS
9/1/68-8/31/69, RENEWAL, \$31,373. SRS-RSA
- 09B010 INDIVIDUAL TREATMENT OF RESIDENTS BY INSERVICE STAFF MR MANSFIELD TRAINING SCHOOL, MANSFIELD DEPOT
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR
- 09B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTHERN CONNECTICUT STATE COLLEGE, NEW HAVEN
FY 1969, RENEWAL, \$77,200. OE
- 09B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, HARTFORD
FY 1969, RENEWAL, \$12,300. OE
- 09B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ST. JOSEPH COLLEGE, WEST HARTFORD
FY 1969, RENEWAL, \$8,700. OE
- 09B030 UPGRADE ORIENTATION AND TRAINING FOR COTTAGE AIDES MR SOUTHBURY TRAINING SCHOOL, SOUTHBURY
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
FY 1969, RENEWAL, \$70,300. OE

CONSTRUCTION

- 09C005 COMMUNITY FACILITIES CONSTRUCTION, SOUTHBURY TRAINING SCHOOL, SOUTHBURY
4/22/69, INITIAL, \$47,759. SRS-DMR
- 09C010 COMMUNITY FACILITIES CONSTRUCTION, VALLEY ARC AND ADULTS, DERBY
2/69, INITIAL, \$85,000. SRS-DMR

OTHER

- 09D005 ADVANCED PROGRAM FOR PROFOUNDLY AND SEVERELY RETARDED, SOUTHBURY TRAINING SCHOOL, SOUTHBURY
6/1/69-5/31/70, RENEWAL, \$99,988, 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
11/15/68-11/14/69, INITIAL, \$100,000, SRS-DMR
- 09D020 INDIVIDUAL PROGRAMMING FOR SEVERELY AND PROFOUNDLY RETARDED, MANSFIELD TRAINING SCHOOL, MANSFIELD DEPOT
6/1/69-5/31/70, INITIAL, \$100,000, SRS-DMR
- 09D025 MR INITIAL STAFFING, GREATER HARTFORD ASSOC. FOR RETARDED CHILDREN, INC., HARTFORD
9/1/69-8/31/70, INITIAL, \$26,550, SRS-DMR
- 09D030 MR INITIAL STAFFING, LITCHFIELD CO. ASSOC. FOR RETARDED CHILDREN, INC., TORRINGTON
7/1/69-6/30/70, INITIAL, \$12,000, SRS-DMR
- 09D035 MR INITIAL STAFFING, MIDDLETOWN-MERIDEN REGIONAL CENTER, MERIDEN
9/1/69-8/31/70, INITIAL, \$22,050, SRS-DMR
- 09D040 MR INITIAL STAFFING, NEW HAVEN REGIONAL CENTER, NEW HAVEN
9/1/69-8/31/70, INITIAL, \$19,583, SRS-DMR
- 09D045 MR INITIAL STAFFING, SEASIDE REGIONAL CENTER, WATERFORD
7/1/69-6/30/70, INITIAL, \$26,616, 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
- 09D055 SOCIAL ADJUSTMENT PROGRAM MANSFIELD TRAINING SCHOOL, MANSFIELD DEPOT
FY 1969, RENEWAL, \$80,535. SRS-P

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
- 10B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, DOVER
FY 1969, RENEWAL, \$23,350. OE
- 10B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF DELAWARE, NEWARK
FY 1969, RENEWAL, \$26,500. OE
- 10B020 TRAINING SERVICES GRANT OPPORTUNITY CENTER, INC., WILMINGTON
6/25/69-6/24/70, RENEWAL, \$132,633, SRS-RSA

CONSTRUCTION

- 10C005 COMMUNITY FACILITIES CONSTRUCTION, HOSPITAL FOR THE MENTALLY RETARDED, STOCKLEY
6/26/69, 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 PROGRAMMING FOR THE AMBULATORY SEVERELY RETARDED, HOSPITAL FOR THE MENTALLY RETARDED, GEORGETOWN
6/1/69-5/31/70, RENEWAL, \$65,965. SRS-DMR

DISTRICT OF COLUMBIA

TRAINING

- 11B005 CHROMOSOMAL STUDIES OF CHILDREN WITH CONGENITAL ANOMALIES OR MENTAL RETARDATION CHILDREN'S HOSPITAL OF D.C., WASHINGTON, D.C.
7/1/68-6/30/69, RENEWAL, \$27,358. SRS-CB
- 11B010 FIELD INSTRUCTION FOR SOCIAL WORKERS IN MENTAL RETARDATION HOWARD UNIVERSITY, WASHINGTON, D.C.
FY 1969, RENEWAL, \$64,226. SRS-P
- 11B020 MENTAL RETARDATION SENIOR CLINICAL TRAINEESHIP DR. VIVIAN INGLEHART HOWARD UNIVERSITY, WASHINGTON, D.C.
FY 1969, INITIAL, \$12,636. SRS-P
- 11B025 METABOLIC AND CYTOGENETIC LABORATORIES HOWARD UNIVERSITY, WASHINGTON, D.C.
7/1/68-6/30/69, RENEWAL, \$179,232. SRS-CB
- 11B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BOARD OF EDUCATION OF THE WASHINGTON, D.C.
FY 1968, RENEWAL, \$22,516. OE
- 11B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GEORGETOWN UNIVERSITY, WASHINGTON, D.C.
FY 1969, RENEWAL, \$24,870. OE
- 11B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GEORGE WASHINGTON UNIVERSITY, WASHINGTON D.C.
FY 1969, RENEWAL, \$40,800. OE
- 11B045 TRAINING IN CHILD DEVELOPMENT HOWARD UNIVERSITY, WASHINGTON, D.C.
7/1/68-6/30/69, RENEWAL, \$177,446. SRS-CB

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

OTHER

- 11D005 CLINIC FOR MENTALLY RETARDED CHILDREN
DEPARTMENT OF PUBLIC HEALTH, DISTRICT OF
COLUMBIA
7/1/68-6/30/69, RENEWAL, \$100,065 SRS-CB
- 11D010 COMPREHENSIVE DAY PROGRAMS MODERATELY
RETARDED ADULTS JEWISH FOUNDATION FOR
RETARDED CHILDREN, WASHINGTON
FY 1969, RENEWAL, \$91,551. SRS-P
- 11D015 EVALUATING STATE INSTITUTIONS FOR THE
RETARDED AMERICAN ASSOCIATION ON MENTAL
DEFICIENCY, WASHINGTON
FY 1969, RENEWAL, \$78,971. SRS-P
- 11D020 FACILITY IMPROVEMENT GRANT DAVIS MEMORIAL
GOODWILL INDUSTRIES, D.C.
5/1/69-4/30/70, RENEWAL, \$20,396, SRS-RSA
- 11D025 FACILITY IMPROVEMENT GRANT HELP FOR RETARDED
CHILDREN, INC., D.C.
4/1/69-3/31/70, RENEWAL, \$10,780, SRS-RSA
- 11D030 INTER AND INTRA-DISCIPLINARY TRAINING IN MENTAL
RETARDATION GEORGETOWN UNIVERSITY,
WASHINGTON
FY 1969, INITIAL, \$124,929. SRS-P
- 11D035 MR INITIAL STAFFING, JEWISH FOUNDATION FOR
RETARDED CHILDREN, INC., DISTRICT OF COLUMBIA
9/1/69-8/31/70, INITIAL, \$44,963, SRS-DMR
- 11D040 REVIEW STANDARDS MENTAL RETARDATION
RESIDENTIAL FACILITIES AMERICAN ASSOCIATION
MENTAL DEFICIENCY, WASHINGTON
FY 1969, INITIAL, \$65,685. SRS-P
- 11D050 STANDARDS FOR COMMUNITY SERVICES MENTALLY
RETARDED AMERICAN ASSOCIATION ON MENTAL
DEFICIENCY, WASHINGTON
FY 1969, INITIAL, \$42,447. SRS-P

FLORIDA

TRAINING

- 12B005 A TRAINING PROGRAM IN THE MANAGEMENT OF
PROGRAMS FOR THE MENTALLY RETARDED
FLORIDA STATE UNIVERSITY, TALLAHASSEE
FY 1969, RENEWAL, \$106,235. SRS-P
- 12B010 CHILD DEVELOPMENT CENTER AND TRAINING
FACILITY UNIVERSITY OF MIAMI, CORAL GABLES
1/1/68-12/31/68, RENEWAL, \$608,242. SRS-CB
- 12B015 COMPREHENSIVE SOCIAL WORK TRAINING IN MENTAL
RETARDATION FLORIDA STATE UNIVERSITY,
TALLAHASSEE
FY 1969, RENEWAL, \$67,833. SRS-P
- 12B020 FIELD INSTRUCTION OF REHABILITATION COUNSELING
STUDENTS UNIVERSITY OF FLORIDA, GAINESVILLE
9/1/68-8/31/69, RENEWAL, \$32,446. SRS-RSA
- 12B025 INDEPTH TRAINING FOR SUPERVISORY PERSONNEL
AND COTTAGE PARENTS MR SUNLAND TRAINING
CENTER AT MARIANNA, MARIANNA
7/1/69-6/30/70, RENEWAL, \$23,500, SRS-DMR
- 12B030 MENTAL RETARDATION, MRS. JOY ROHN FLORIDA
STATE UNIVERSITY, TALLAHASSEE
FY 1969, INITIAL, \$5,468. SRS-P
- 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
FY 1969, RENEWAL, \$87,300
- 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
7/1/68-6/30/69, RENEWAL, \$83,083. SRS-CB
- 12B070 STRUCTURED TRAINING PROGRAM FOR DIRECT CARE
PERSONNEL SUNLAND TRAINING CENTER AT FORT
MYERS, FORT MYERS
7/1/69-6/30/70, RENEWAL, \$21,895, SRS-DMR
- 12B075 TRAINING SERVICES GRANT PALM BEACH
HABILITATION CENTER, LAKE WORTH
6/25/69-6/24/70, RENEWAL, \$85,747, SRS-RSA
- 12B080 TRAINING ALL ATTENDANT AND SUPERVISORY
PERSONNEL MR SUNLAND HOSPITAL AT ORLANDO,
ORLANDO
7/1/69-6/30/70, RENEWAL, \$15,533, SRS-DMR
- 12B085 TRAINING UNIT IN MENTAL RETARDATION IN WEST
PALM BEACH DISTRICT OFFICE OF STATE
DEPARTMENT OF PUBLIC WELFARE FLORIDA STATE
UNIVERSITY SCHOOL OF SOCIAL WELFARE,
TALLAHASSEE
7/1/68-6/30/69, RENEWAL, \$17,987. SRS-CB

CONSTRUCTION

- 12C005 COMMUNITY FACILITIES CONSTRUCTION, MARIAN
CENTER RESIDENTIAL FACILITY, OPA LOCKA
6/26/69, INITIAL, \$87,214. SRS-DMR
- 12C010 COMMUNITY FACILITIES CONSTRUCTION, REGIONAL
COMMUNITY CENTER, JACKSONVILLE
6/12/69, INITIAL, \$250,000. 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 INTENSIVE PROGRAMMING FOR OPTIMAL RESIDENT
DEVELOPMENT, SUNLAND TRAINING CENTER AT
MIAMI, OPA LOCKA
5/1/69-4/30/70, INITIAL, \$96,654, SRS-DMR
- 12D015 MIAMI ADULT CENTER FOR THE RETARDED MIAMI
2/1/69-1/31/70, INITIAL, \$44,590. SRS-RSA
- 12D020 MR INITIAL STAFFING, BROWARD CO. ASSOC. FOR
RETARDED CHILDREN, FORT LAUDERDALE
7/1/69-6/30/70, INITIAL, \$65,511, SRS-DMR
- 12D025 MR INITIAL STAFFING, BUREAU OF CATHOLIC
CHARITIES, INC., JACKSONVILLE
9/1/69-8/31/70, INITIAL, \$2,775. SRS-DMR
- 12D030 MR INITIAL STAFFING, CATHOLIC SOCIAL SERVICES OF
DIOCESE OF ST. PETERSBURG, ST. PETERSBURG
9/1/69-8/31/70, INITIAL, \$4,650, SRS-DMR
- 12D035 MR INITIAL STAFFING, CATHOLIC SOCIAL SERVICES OF
DIOCESE OF ST. PETERSBURG, ST. PETERSBURG
9/1/69-8/31/70, INITIAL, \$9,525, SRS-DMR
- 12D040 MR INITIAL STAFFING, CITRUS CO. ASSOC. FOR
RETARDED CHILDREN, INVERNESS
7/1/69-6/30/70, INITIAL, \$20,213, SRS-DMR
- 12D045 MR INITIAL STAFFING, ESCAMBIA CO. ASSOC. FOR
RETARDED CHILDREN, PENSACOLA
7/1/69-6/30/70, INITIAL, \$14,855, SRS-DMR
- 12D050 MR INITIAL STAFFING, HILLSBOROUGH ASSOCIATION
FOR RETARDED CHILDREN, TAMPA
9/1/69-8/31/70, INITIAL, \$28,448, SRS-DMR
- 12D055 MR INITIAL STAFFING, OKEECHOBEE REHABILITATION
FACILITY, INC., OKEECHOBEE
7/1/69-6/30/70, INITIAL, \$19,160, SRS-DMR
- 12D060 MR INITIAL STAFFING, MARION COUNTY ASSOCIATION
FOR RETARDED CHILDREN, OCALA
7/1/69-6/30/70, INITIAL, \$13,768, SRS-DMR
- 12D065 MR INITIAL STAFFING, MORNING STAR SCHOOL,
ORLANDO
7/1/69-8/31/70, INITIAL, \$8,325, SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 12D070 MR INITIAL STAFFING, PINELLAS ASSOCIATION FOR RETARDED CHILDREN, ST. PETERSBURG
9/1/69-8/31/70, INITIAL, \$25,350, SRS-DMR
- 12D075 MR INITIAL STAFFING, ST. ANDREWS BAY CENTER FOR RETARDED CHILDREN, INC., LYNN HAVEN
7/1/69-6/30/70, INITIAL, \$8,925, SRS-DMR
- 12D080 PINELLAS ASSOCIATION FOR RETARDED CHILDREN ST. PETERSBURG
4/1/69-3/31/70, INITIAL, \$5,392, SRS-RSA
- 12D085 TAMPA DIAGNOSTIC AND EVALUATION CLINIC STATE BOARD OF HEALTH, JACKSONVILLE
7/1/68-6/30/69, RENEWAL, \$75,000, SRS-CB
- 12D090 MR INITIAL STAFFING, THE HAVEN SCHOOL, INC., MIAMI
9/1/69-8/31/70, INITIAL, \$29,850, SRS-DMR

GEORGIA

TRAINING

- 13B005 INSERVICE TRAINING - A UNIT ASSIGNMENT APPROACH MR GEORGIA DEPARTMENT OF PUBLIC HEALTH, ATLANTA
7/1/69-6/30/70, INITIAL, \$25,000, SRS-DMR
- 13B010 MENTAL RETARDATION TRAINEESHIP-NEUROLOGICAL AND SENSORY DISEASE HELEN CLARK EMORY UNIVERSITY, ATLANTA
FY 1969, INITIAL, \$6,201, SRS-P
- 13B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ATLANTA UNIVERSITY, ATLANTA
FY 1969, RENEWAL, \$26,500, OE
- 13B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GEORGIA DEPARTMENT OF PUBLIC HEALTH, ATLANTA
6/1/69-8/31/70, INITIAL, \$30,000, OE
- 13B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GEORGIA STATE COLLEGE, ATLANTA
FY 1969, RENEWAL, \$69,100, OE
- 13B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GEORGIA SOUTHERN UNIVERSITY, STATESBORO
FY 1969, RENEWAL, \$33,000, OE
- 13B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, ATLANTA
FY 1969, RENEWAL, \$44,316, OE
- 13B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF GEORGIA, ATHENS
FY 1969, RENEWAL, \$81,200, OE
- 13B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WEST GEORGIA COLLEGE, CARROLTON
FY 1969, RENEWAL, \$25,500, 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
- 13B055 SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF GEORGIA, ATHENS
FY 1969, RENEWAL, \$38,067, SRS-P
- 13B060 TRAINING FOR NURSING IN NEUROLOGICAL HANDICAPPING CONDITIONS OF CHILDHOOD EMORY UNIVERSITY, ATLANTA
7/1/68-6/30/69, RENEWAL, \$56,386, SRS-CB

CONSTRUCTION

- 13C005 COMMUNITY FACILITIES CONSTRUCTION, HI-HOPE TRAINING CENTER FOR MENTAL RETARDATION, LAWRENCEVILLE,
1/69, INITIAL, \$200,000, SRS-DMR

OTHER

- 13D005 ATLANTA ADULT ACTIVITY CENTER ASSOCIATION FOR RETARDED CHILDREN, ATLANTA
FY 1969, RENEWAL, \$53,584, SRS-P
- 13D010 COMPREHENSIVE EVALUATION CLINIC FOR MENTALLY RETARDED CHILDREN, DEKALB DISTRICT 036, STATE DEPART OF PUBLIC HEALTH, ALANTA
7/1/68-6/30/69, RENEWAL, \$90,950, SRS-CB
- 13D015 COMPREHENSIVE EVALUATION CLINIC FOR MENTALLY RETARDED CHILDREN, CATHAM STATE DEPARTMENT OF PUBLIC HEALTH, ATLANTA
7/1/68-6/30/69, RENEWAL, \$86,788, SRS-CB
- 13D020 COMPREHENSIVE EVALUATION FOR MENTALLY RETARDED CHILDREN, MUSCOGEE STATE DEPARTMENT OF PUBLIC HEALTH, ATLANTA
7/1/68-6/30/69, RENEWAL, \$53,321, SRS-CB
- 13D025 MR INITIAL STAFFING, ATLANTA ASSOCIATION FOR RETARDED CHILDREN, ATLANTA
7/1/69-6/30/70, INITIAL, \$12,206, SRS-DMR
- 13D030 MR INITIAL STAFFING, DEKALB-ROCKDALE HEALTH DISTRICT, DECATUR
9/1/69-8/31/70, INITIAL, \$98,199, SRS-DMR
- 13D035 MR INITIAL STAFFING, GWINNETT CO. CHAPTER FOR RETARDED CHILDREN, LAWRENCEVILLE
1/1/70-12/31/70, INITIAL, \$42,394, SRS-DMR
- 13D040 MULTIDISCIPLINARY APPROACH TO THE DISTURBED RETARDATE, GEORGIA DEPARTMENT OF PUBLIC HEALTH, ATLANTA
6/1/69-5/31/70, INITIAL, \$99,659, 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

- 15B005 FIELD WORK INSTRUCTION IN MEDICAL SOCIAL WORK UNIVERSITY OF HAWAII, HONOLULU
FY 1969, RENEWAL, \$37,226, SRS-P
- 15B010 FIELD WORK INSTRUCTION IN MEDICAL SOCIAL WORK UNIVERSITY OF HAWAII, HONOLULU
5/1/69-4/30/70, RENEWAL, \$21,770, SRS-RSA
- 15B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, HONOLULU
FY 1969, RENEWAL, \$10,800, OE
- 15B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF HAWAII, HONOLULU
FY 1969, RENEWAL, \$15,900, OE

CONSTRUCTION

- 15C005 COMMUNITY FACILITIES CONSTRUCTION, BRANTLEY CENTER, HANOKAA
10/68, INITIAL, \$81,052, SRS-DMR
- 15C010 COMMUNITY FACILITIES CONSTRUCTION, J. WALTER CAMERON CENTER, WAILUKU
4/15/69, INITIAL, \$55,600, SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

OTHER

- 15D005 DAY ACTIVITY PROGRAM BIG ISLAND ASSOCIATION FOR RETARDED CHILDREN, HILO
FY 1969, INITIAL, \$25,765. SRS-P
- 15D010 EVALUATION CLINICS FOR MENTALLY RETARDED CHILDREN, HONOLULU STATE DEPARTMENT OF HEALTH, HONOLULU
7/1/68-6/30/69, RENEWAL, \$139,998. SRS-CB
- 15D015 HABILITATION OF SEVERELY RETARDED HYPERACTIVE MALES, WAIMANO TRAINING SCHOOL AND HOSPITAL, PEARL CITY
6/1/69-5/31/70, INITIAL, \$50,000, SRS-DMR
- 15D020 INTENSIVE PROGRAM FOR COMMUNITY PLACEMENT, WAIMANO TRAINING SCHOOL AND HOSPITAL, PEARL CITY
5/1/69-4/30/70, RENEWAL, \$46,046. SRS-DMR
- 15D025 MR INITIAL STAFFING, HAWAII ASSOC. TO HELP RETARDED CHILDREN, HONOLULU
7/1/69-6/30/70, INITIAL, \$24,957. SRS-DMR
- 15D030 MR INITIAL STAFFING, KONA ASSOCIATION FOR RETARDED CHILDREN, KEALAKEKUA
1/1/70-12/31/70, INITIAL, \$4,212. SRS-DMR
- 15D035 MR INITIAL STAFFING, MAUI ASSOC. TO HELP RETARDED CHILDREN, INC., KAHULUI
9/1/69-8/31/70, INITIAL, \$12,777. SRS-DMR
- 15D040 MR INITIAL STAFFING, MAUI REHABILITATION CENTER, KAHULUI
9/1/69-8/31/70, INITIAL, \$3,683. SRS-DMR
- 15D045 STRENGTHEN AND EXTEND STAFF TRAINING PROGRAM MR0 WAIMANO TRAINING SCHOOL AND HOSPITAL, PEARL CITY
7/1/69-6/30/70, RENEWAL, \$24,570. SRS-DMR

IDAHO

TRAINING

- 16B005 PLANNING A COMMUNITY-UNIVERSITY-STATE-MANPOWER TRAINING PROGRAM FOR HEALTH ORIENTED PERSONNEL TO WORK WITH THE MENTALLY RETARDED FOR IDAHO STATE UNIVERSITY, POCATELLO
FY 1969, RENEWAL, \$54,556. SRS-P
- 16B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN IDAHO STATE UNIVERSITY, POCATELLO
FY 1969, RENEWAL, \$11,800. OE
- 16B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE BOARD OF EDUCATION, BOISE
FY 1969, RENEWAL, \$25,708. OE
- 16B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF IDAHO, MOSCOW
FY 1969, RENEWAL, \$23,600. OE
- 16B025 TRAINING FOR ATTENDANT, NURSE, AND AIDE PERSONNEL MR IDAHO STATE SCHOOL AND HOSPITAL, NAMPA
7/1/69-6/30/70, INITIAL, \$25,000. SRS-DMR

CONSTRUCTION

- 16C005 COMMUNITY FACILITIES CONSTRUCTION, MENTAL RETARDATION CHILD DEVELOPMENT CENTER, POCATELLO
6/16/69, INITIAL, \$100,000. 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
2/1/69-1/31/70, INITIAL, \$100,000. SRS-DMR
- 16D015 MR INITIAL STAFFING, IDAHO DEPARTMENT OF HEALTH, BOISE
9/1/69-8/31/70, INITIAL, \$22,875. SRS-DMR

ILLINOIS

TRAINING

- 17B005 EXPAND CHILD CARE BASIC TRAINING PROGRAM MR WARREN G. MURRAY CHILDREN'S CENTER, CENTRALIA
7/1/69-6/30/70, RENEWAL, \$4,884. SRS-DMR
- 17B010 FACILITY IMPROVEMENT GRANT CHICAGO SCHOOL FOR RETARDED CHILDREN, CHICAGO
3/1/69-2/28/70, RENEWAL, \$15,012. SRS-RSA
- 17B015 FIELD INSTRUCTION IN RECREATION FOR RETARDED SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE
4/15/69-6/30/69, RENEWAL, \$10,876. SRS-RSA
- 17B020 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE
9/1/68-8/31/69, RENEWAL, \$32,689. SRS-RSA
- 17B025 MENTAL HEALTH CAREER DEVELOPMENT PROGRAM MR A.L. BOWEN CHILDRENS CENTER, HARRISBURG
7/1/69-6/30/70, INITIAL, \$24,999. SRS-DMR
- 17B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CHICAGO STATE COLLEGE, CHICAGO
FY 1969, RENEWAL, \$17,400. OE
- 17B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ILLINOIS STATE UNIVERSITY, NORMAL
FY 1969, RENEWAL \$82,500. OE
- 17B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHERN ILLINOIS UNIVERSITY, DEKALB
FY 1969, RENEWAL \$58,800. OE
- 17B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OFFICE OF THE SUPERINTENDENT OF PUBLIC INSTRUCTION, SPRINGFIELD
FY 1969, RENEWAL, \$48,000. OE
- 17B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE
FY 1969, RENEWAL, \$35,800. OE
- 17B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTHERN ILLINOIS UNIVERSITY, EDWARDSVILLE
6/1/69-8/31/70, INITIAL, \$11,800. OE
- 17B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF ILLINOIS, URBANA
FY 1969, RENEWAL, \$89,000. OE
- 17B065 TRAINEESHIP GRANT IN MENTAL RETARDATION FOR STEPHEN CASEBOLT ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO
FY 1969, INITIAL, \$6,400. SRS-P
- 17B070 TRAINING FOR AIDES IN VARIOUS PROGRAM SKILLS MR DIXON STATE SCHOOL FOR THE RETARDED, DIXON
7/1/69-6/30/70, RENEWAL, \$22,170. SRS-DMR

CONSTRUCTION

- 17C005 COMMUNITY FACILITIES CONSTRUCTION, OPPORTUNITY FOR THE MENTALLY HANDICAPPED, MOLINE
12/68, INITIAL, \$373,572. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

OTHER

- 17D005 CHILD DEVELOPMENT CLINIC, CHILDREN'S MEMORIAL HOSPITAL, CHICAGO STATE DEPARTMENT OF PUBLIC HEALTH, SPRINGFIELD
7/1/68-6/30/69, RENEWAL, \$50,000, SRS-CB
- 17D010 COTTAGE PROGRAMMING FOR THE PROFOUNDLY AND SEVERELY RETARDED, DIXON STATE SCHOOL, DIXON
6/1/69-5/31/70, RENEWAL, \$99,896, SRS-DMR
- 17D015 EVALUATION AND THERAPEUTIC CENTER FOR MULTIPLE HANDICAPPED CHILDREN, MICHAEL REESE HOSPITAL, CHICAGO UNIVERSITY OF ILLINOIS, CHICAGO
7/1/68-6/30/69, RENEWAL, \$90,000, SRS-CB
- 17D020 FACILITY IMPROVEMENT GRANT CHICAGO ASSOCIATION FOR RETARDED CHILDREN, CHICAGO
4/1/69-3/31/70, RENEWAL, \$60,322, SRS-RSA
- 17D025 INTENSIVE TRAINING FOR SEVERELY RETARDED CHILDREN, WARREN G. MURRAY CHILDREN'S CENTER, CENTRALIA
1/1/69-12/31/68, RENEWAL, \$99,964, SRS-DMR
- 17D030 INTENSIVE TRAINING FOR SEVERELY RETARDED CHILDREN, WARREN G. MURRAY CHILDREN'S CENTER, CENTRALIA
1/1/68-12/31/68, SUPPLEMENT, \$13,735, SRS-DMR
- 17D035 MR INITIAL STAFFING, CHAMPAIGN CO. ASSOC. FOR THE MENTALLY RETARDED, CHAMPAIGN
9/1/69-8/31/70, INITIAL, \$9,663, SRS-DMR
- 17D040 MR INITIAL STAFFING, CHICAGO BOARD OF HEALTH, CHICAGO
7/1/69-6/30/70, INITIAL, \$34,200, SRS-DMR
- 17D045 MR INITIAL STAFFING, CLEARBROOK CENTER FOR THE RETARDED, ROLLING MEADOWS
7/1/69-6/30/70, INITIAL, \$70,275, SRS-DMR
- 17D050 MR INITIAL STAFFING, COLES COUNTY ASSOCIATION FOR THE RETARDED, MATTOON
9/1/69-8/31/70, INITIAL, \$14,400, SRS-DMR
- 17D055 MR INITIAL STAFFING, COMMUNITY MENTAL HEALTH BOARD OF MACON COUNTY, DECATUR
7/1/69-6/30/70, INITIAL, \$31,725, SRS-DMR
- 17D060 MR INITIAL STAFFING, IROQUOIS ASSOCIATION FOR RETARDED CHILDREN, WATSEKA
9/1/69-8/31/70, INITIAL, \$8,625, SRS-DMR
- 17D065 MR INITIAL STAFFING, JACKSON CO. WORK ACTIVITY CENTER FOR THE MR, MURPHYSBORO
7/1/69-6/30/70, INITIAL, \$10,110, SRS-DMR
- 17D070 MR INITIAL STAFFING, KANKAKEE AREA PROG. FOR MENTALLY AND PHYSICALLY HANDICAPPED, KANKAKEE
7/1/69-6/30/70, INITIAL, \$16,875, SRS-DMR
- 17D075 MR INITIAL STAFFING, LUTHERAN WELFARE SERVICES OF ILLINOIS, CHICAGO
7/1/69-6/30/70, INITIAL, \$40,320, SRS-DMR
- 17D080 MR INITIAL STAFFING, MICHAEL REESE HOSPITAL, CHICAGO
7/1/69-6/30/70, INITIAL, \$33,225, SRS-DMR
- 17D085 MR INITIAL STAFFING, PEORIA ASSOCIATION FOR RETARDED CHILDREN, INC., PEORIA
7/1/69-6/30/70, INITIAL, \$50,550, SRS-DMR
- 17D090 MR INITIAL STAFFING, PEORIA PROGRAM SERVICES CHAPTER, UCP OF NORTHWESTERN ILLINOIS, PEORIA
7/1/69-6/30/70, INITIAL, \$18,600, SRS-DMR
- 17D095 MR INITIAL STAFFING, YOUNG MEN'S JEWISH COUNCIL, CHICAGO
1/1/70-12/31/70, INITIAL, \$29,925, SRS-DMR
- 17D100 MR INITIAL STAFFING, WARREN ACHIEVEMENT SCHOOL FOR HANDICAPPED CHILDREN, MONMOUTH
9/1/69-8/31/70, INITIAL, \$21,525, SRS-DMR
- 17D105 NEW PATHWAYS FOR SERVICE TO HOMEBOUND MENTALLY RETARDED CHILDREN READ-CHICAGO STATE-MENTAL HEALTH CENTER, CHICAGO
FY 1969, INITIAL, \$89,000, SRS-P
- 17D110 PREVENTIVE INTERVENTION FOR RETARDED CHILDREN, ILLINOIS STATE PEDIATRIC INSTITUTE, CHICAGO
3/1/69-2/28/70, RENEWAL, \$98,860, SRS-DMR
- 17D115 STIMULATION BY INTENSIVE PHYSICAL AND ACTIVITY THERAPY, WILLIAM W. FOX CHILDREN'S CENTER, DWIGHT
6/1/69-5/31/70, RENEWAL, \$65,920, SRS-DMR

INDIANA

TRAINING

- 18B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BALL STATE UNIVERSITY, MUNCIE
FY 1969, RENEWAL, \$30,800, OE
- 18B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN INDIANA STATE UNIVERSITY, TERRE HAUTE
FY 1969, RENEWAL, \$36,700, OE
- 18B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN INDIANA UNIVERSITY, BLOOMINGTON
FY 1969, RENEWAL, \$145,900, OE
- 18B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN INDIANA UNIVERSITY, BLOOMINGTON
FY 1969, RENEWAL, \$46,400, OE
- 18B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN ST. MARY'S COLLEGE, NOTRE DAME
FY 1969, RENEWAL, \$14,000, OE
- 18B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, INDIANAPOLIS
FY 1969, RENEWAL, \$46,517, OE
- 18B035 TRAINING IN BASIC AND ADVANCED PSYCHIATRIC NURSING FOR AIDES MR MUSCATATUCK STATE HOSPITAL AND TRAINING CENTER, BUTLERVILLE
7/1/69-6/30/70, RENEWAL, \$19,589, SRS-DMR

OTHER

- 18D005 FAMILY CENTER MENTAL RETARDATION NURSING MUSCATATUCK STATE HOSPITAL TRAINING CENTER, BUTLERVILLE
FY 1969, RENEWAL, \$31,159, SRS-P
- 18D010 FUNCTIONAL TRAINING PROGRAM, FORT WAYNE STATE HOSPITAL AND TRAINING CENTER, FORT WAYNE
9/1/68-8/31/69, RENEWAL, \$85,516, SRS-DMR
- 18D015 LAPORTE COUNTY SHELTERED WORKSHOP MICHIGAN CITY
8/1/68-7/31/69, INITIAL, \$4,500, SRS RSA
- 18D020 MR INITIAL STAFFING, CO. COUNCIL FOR THE RETARDED OF KOSCIUSKO CO., INC., WARSAW
12/1/69-11/30/70, INITIAL, \$7,439, SRS-DMR
- 18D025 MR INITIAL STAFFING, COUNCIL FOR RETARDED OF ST. JOSEPH CO., INC., SOUTH BEND
9/1/69-8/31/70, INITIAL, \$18,075, SRS-DMR
- 18D030 MR INITIAL STAFFING, LAKE CO. ASSOCIATION FOR RETARDED CHILDREN, INC., GARY
1/1/70-12/31/70, INITIAL, \$87,825, 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 REHABILITATION NEW CASTLE STATE HOSPITAL, NEW CASTLE
9/1/68-8/31/69, RENEWAL, \$30,156, SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

IOWA

TRAINING

- 19B005 CLINICAL TRAINING FOR SPEECH AND HEARING SERVICES UNIVERSITY OF IOWA, IOWA CITY 7/1/68-6/30/69, RENEWAL, \$25,091. SRS-CB
- 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
- 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 7/1/69-6/30/70, RENEWAL, \$24,010, SRS-DMR

CONSTRUCTION

- 19C005 COMMUNITY FACILITIES CONSTRUCTION, PLEASANT HILL SCHOOL, MARSHALLTOWN 11/13/68, INITIAL, \$196,000. SRS-DMR

OTHER

- 19D005 A DIAGNOSTIC-EVALUATIVE BRIEF CARE PROGRAM, WOODWARD STATE HOSPITAL AND SCHOOL, WOODWARD 6/1/68-8/31/69, RENEWAL, \$00, SRS-DMR
- 19D010 CLINICAL RESEARCH IN MENTAL RETARDATION, GENETICS STUDIES UNIVERSITY OF IOWA, IOWA CITY 7/1/68-6/30/69, RENEWAL, \$57,026. SRS-CB
- 19D015 CLINICAL RESEARCH IN SPEECH AND LANGUAGE SKILLS OF RETARDED CHILDREN UNIVERSITY OF IOWA, IOWA CITY 7/1/68-6/30/69, RENEWAL, \$43,146. SRS-CB
- 19D020 CLINICAL RESEARCH, STUDY AND CARE PROGRAM FOR PATIENTS WITH PHENYLKETONURIA UNIVERSITY OF IOWA, IOWA CITY 7/1/68-6/30/69, RENEWAL, \$9,003. SRS-CB
- 19D025 FACILITY IMPROVEMENT GRANT SPECIALIZED SERVICES, INC., ALTON 6/15/69-6/14/70, RENEWAL, \$28,000. SRS-RSA
- 19D030 FIELD CLINIC SERVICES FOR MENTALLY RETARDED PATIENTS UNIVERSITY OF IOWA, IOWA CITY 7/1/68-6/30/69, RENEWAL, \$110,285. SRS-CB
- 19D035 FOLLOW-UP CARE OF HIGH RISK PATIENTS FOR IDENTIFICATION AND PREVENTION OF MENTAL RETARDATION UNIVERSITY OF IOWA, IOWA CITY 7/1/68-6/30/69, RENEWAL, \$73,688. SRS-CB
- 19D040 INTERAGENCY CASE INFORMATION SERVICE DEPARTMENT OF SOCIAL SERVICES, DES MOINES FY 1969, RENEWAL, \$77,122. SRS-P
- 19D045 MR INITIAL STAFFING, DES MOINES CO. ASSOC. FOR RETARDED CHILDREN, INC., BURLINGTON 1/1/70-12/31/70, INITIAL, \$45,375, SRS-DMR
- 19D050 MR INITIAL STAFFING, EXCEPTIONAL PERSONS, INC., WATERLOO 7/1/69-6/30/70, INITIAL, \$56,898, SRS-DMR
- 19D055 TRAINER-EVALUATORS FOR LOW FUNCTIONAL RETARDATE, GLENWOOD STATE HOSPITAL AND SCHOOL, GLENWOOD 6/1/69-5/31/70, RENEWAL, \$51,503, SRS-DMR
- 19D060 MR INITIAL STAFFING, MARSHALL COUNTY BOARD OF EDUCATION, MARSHALLTOWN 7/1/69-6/30/70, INITIAL, \$12,000, SRS-DMR
- 19D065 MR INITIAL STAFFING, POLK CO. ASSOC. FOR RETARDED CHILDREN, DES MOINES 7/1/69-6/30/70, INITIAL, \$15,000, SRS-DMR

KANSAS

TRAINING

- 20B005 ACRES OF LAND AT FORMER WINTER GENERAL HOSPITAL, TOPEKA, KANSAS-CONVEYED TO STATE BOARD OF SOCIAL WELFARE RETRANSFERRED AS SITE OF SCHOOL FOR MENTALLY RETARDED TOPEKA ASSN FOR RETARDED CHILDREN 8/29/68 INITIAL. \$3,000. OGPU
- 20B010 CHILDREN'S REHABILITATION UNIT UNIVERSITY OF KANSAS, KANSAS CITY 7/1/68-6/30/69, RENEWAL, \$254,100. SRS-CB
- 20B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN FORT HAYS KANSAS STATE COLLEGE, HAYS FY 1969, RENEWAL, \$26,100. OE
- 20B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN KANSAS STATE TEACHER'S COLLEGE, EMPORIA FY 1969, RENEWAL, \$58,200. OE
- 20B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, TOPEKA FY 1969, RENEWAL, \$21,170. OE
- 20B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF KANSAS, LAWRENCE FY 1969, RENEWAL, \$67,200. OE
- 20B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WICHITA STATE UNIVERSITY, WICHITA 6/1/69-8/31/70, INITIAL, \$17,000. OE
- 20B040 TRAINING CARE OF ADULT RETARDATE 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
- 20B050 TRAINING SERVICES GRANT VOCATIONAL REHABILITATION UNIT, TOPEKA 6/6/15/69-6/14/70, RENEWAL, \$72,735, SRS-RSA

CONSTRUCTION

- 20C005 COMMUNITY FACILITIES CONSTRUCTION, PARSONS STATE HOSPITAL AND TRAINING CENTER, PARSONS 5/28/69, INITIAL, \$106,780. SRS-DMR
- 20C010 UNIVERSITY-AFFILIATED FACILITIES CONSTRUCTION, KANSAS CLINICAL CENTER FOR MENTAL RETARDATION, LAWRENCE 4/11/69, INITIAL, \$2,067,000. SRS-DMR
- 20C015 UNIVERSITY-AFFILIATED FACILITIES CONSTRUCTION, KANSAS CLINICAL CENTER FOR MENTAL RETARDATION, TOPEKA 4/16/69, INITIAL, \$662,400. SRS-DMR

OTHER

- 20D005 A COMMUNITY ACTIVITY PROGRAM FOR MENTALLY RETARDED ADULTS COUNCIL FOR SPECIAL SERVICES, INC., EL DORADO FY 1969, INITIAL, \$24,924. SRS-P
- 20D010 COMMUNITY TRANSITIONAL ADJUSTMENT PROGRAM FOR MR, PARSONS STATE HOSPITAL AND TRAINING CENTER, PARSONS 2/1/69-1/31/70, RENEWAL, \$99,400, SRS-DMR
- 20D015 CRIES INTERVENTION UNIT FOR RETARDED, KANSAS NEUROLOGICAL INSTITUTE, TOPEKA 6/1/69-5/31/70, RENEWAL, \$31,737, 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 IMPROVED PHYSICAL THERAPY SERVICE PROGRAM, KANSAS NEUROLOGICAL INSTITUTE, TOPEKA 6/1/69-5/31/70, RENEWAL, \$9,575, SRS-DMR
- 20D030 INTENSIVE TRAINING OF INSTITUTIONALIZED MENTALLY RETARDED GIRLS UNIVERSITY OF

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- KANSAS BUREAU OF CHILD RESEARCH, LAWRENCE
FY 1969, RENEWAL, \$120,445. SRS-P
- 20D035 INTENSIVE TRAINING UNIT, M/R MULTI-HANDICAPPED
WSH AND TC, WINFIELD STATE HOSPITAL AND
TRAINING CENTER, WINFIELD
9/1/68-8/31/69, RENEWAL, \$64,960, SRS-DMR
- 20D040 MR INITIAL STAFFING, LAKE MARY CENTER, INC.,
PAOLA
9/1/69-8/31/70, INITIAL, \$100,725, SRS-DMR
- 20D045 MR INITIAL STAFFING, WICHITA-SEDGWICK CO. ASSOC.
FOR RETARDED CHILDREN, INC., WICHITA
7/1/69-6/30/70, INITIAL, \$53,775, SRS-DMR

KENTUCKY

TRAINING

- 21B005 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
UNIVERSITY OF LOUISVILLE, LOUISVILLE
6/1/69-5/31/70, RENEWAL, \$26,390. SRS-RSA
- 21B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN BRESCIA
COLLEGE, OWENSBORO
FY 1969, RENEWAL, \$11,800. OE
- 21B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN MURRAY
STATE UNIVERSITY, MURRAY
6/1/69-8/31/70, INITIAL, \$11,200. OE
- 21B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, FRANKFORT
FY 1969, RENEWAL, \$51,600. OE
- 21B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF KENTUCKY, LEXINGTON
FY 1969, RENEWAL, 65,700. OE
- 21B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF LOUISVILLE, LOUISVILLE
FY 1969, RENEWAL, \$31,400. OE
- 21B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN URSULINE
COLLEGE, LOUISVILLE
FY 1969, RENEWAL, \$14,000. OE
- 21B040 TRAINING FOR SUPERVISORY STAFF AND ATTENDANT
PERSONNEL MR FRANKFORT STATE HOSPITAL AND
SCHOOL, FRANKFORT
7/1/69-6/30/70, INITIAL, \$22,127, SRS-DMR
- 21B045 TRAINING SERVICES GRANT OPPORTUNITY WORKSHOP
OF LEXINGTON, INC., LEXINGTON
6/15/69-6/14/70, RENEWAL, \$54,568, SRS-RSA

CONSTRUCTION

- 21C005 CHILD EVALUATION CENTER, UNIVERSITY OF
LOUISVILLE STATE DEPARTMENT OF HEALTH,
FRANKFORT
7/1/68-6/30/69, RENEWAL, \$197,500. SRS-CB

OTHER

- 21D005 DAY CARE ACTIVITY PROGRAM FOR RETARDED
ADULTS BLUE GRASS ASSOCIATION FOR RETARDED
CHILDREN, LEXINGTON
FY 1969, RENEWAL, \$61,911. SRS-P
- 21D010 FACILITY IMPROVEMENT GRANT COUNCIL FOR
RETARDED CHILDREN OF JEFFERSON COUNTY,
LOUISVILLE
6/1/69-5/31/70, RENEWAL, \$12,940, SRS-RSA
- 21D015 MR INITIAL STAFFING, BLUE GRASS ASSOCIATION FOR
MENTAL RETARDATION, INC., LEXINGTON
9/1/69-8/31/70, INITIAL, \$60,900, SRS-DMR
- 21D020 MR INITIAL STAFFING, CENTRAL KENTUCKY MH-MR
BOARD, INC., LEXINGTON
9/1/69-8/31/70, INITIAL, \$120,896, SRS-DMR
- 21D025 MR INITIAL STAFFING, J. U. KEVIL MEMORIAL
FOUNDATION, MAYFIELD
7/1/69-6/30/70, INITIAL, \$34,575, SRS-DMR
- 21D030 MR INITIAL STAFFING, KENTON CAMPBELL ASSOC. FOR
THE MENTALLY RETARDED, INC., NEWPORT

- FY 69-8/31/70, INITIAL, \$27,563, SRS-DMR
- 21D035 MR INITIAL STAFFING, MENTAL HEALTH-MENTAL
RETARDATION BOARD, INC., REGION V, BOWLING
GREEN
8/1/69-7/31/70, INITIAL, \$10,181, SRS-DMR
- 21D040 PROGRAM PLANNING IN HOME ECONOMICS FOR
EDUCABLES, OUTWOOD HOSPITAL AND SCHOOL,
DAWSON SPRINGS
12/1/68-11/30/69, RENEWAL, \$31,261, SRS-DMR

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
7/1/69-6/30/70, RENEWAL, \$27,947, SRS-DMR
- 22B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
GRAMBLING COLLEGE, GRAMBLING
FY 1969, RENEWAL, \$17,700. OE
- 22B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
LOUISIANA POLYTECHNIC INSTITUTE, RUSTON
6/1/69-8/31/70, INITIAL, \$18,000. OE
- 22B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
LOUISIANA STATE UNIVERSITY AND A. AND M.
COLLEGE, BATON ROUGE
FY 1969, RENEWAL, \$37,100. OE
- 22B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
LOUISIANA STATE UNIVERSITY, NEW ORLEANS
FY 1969, RENEWAL, \$37,100. OE
- 22B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
NORTHWESTERN STATE COLLEGE, NATCHITOCHES
FY 1969, RENEWAL, \$8,700. OE
- 22B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
SOUTHERN UNIVERSITY, BATON ROUGE
FY 1969, RENEWAL, \$17,400. OE
- 22B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, BATON ROUGE
FY 1969, RENEWAL, \$68,812. OE
- 22B055 STAFF DEVELOPMENT THROUGH ADMINISTRATIVE
AND SUPERVISORY TRAINING BELLE CHASSE STATE
SCHOOL, BELLE CHASSE
7/1/69-6/30/70, INITIAL, \$20,651, SRS-DMR
- 22B060 TRAINING ATTENDANT PSYCHIATRIC AIDES AND
NURSING AIDE PERSONNEL MR PINECREST STATE
SCHOOL, PINEVILLE
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR

CONSTRUCTION

- 22C005 COMMUNITY FACILITIES CONSTRUCTION, CADDO-
BOSSIER ASSOCIATION FOR RETARDED
CHILDREN, INC., SHREVEPORT
6/24/69, INITIAL, \$82,800. SRS-DMR
- 22C010 COMMUNITY FACILITIES CONSTRUCTION, SOPHIA L.
GUMBEL CENTER, NEW ORLEANS
6/30/69, INITIAL, \$109,500. SRS-DMR

OTHER

- 22D005 MR INITIAL STAFFING, COLUMBIA STATE SCHOOL,
COLUMBIA
9/1/69-8/31/70, INITIAL, \$56,162, SRS-DMR
- 22D010 MR INITIAL STAFFING, DESIRE COMMUNITY
DEVELOPMENT CORPORATION, NEW ORLEANS

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 1/1/70-12/31/70, INITIAL, \$10,978, SRS-DMR
- 22D015 MR INITIAL STAFFING, PINECREST STATE SCHOOL, PINEVILLE
9/1/69-8/31/70, INITIAL, \$22,671, SRS-DMR
- 22D020 REWARD TRAINING AND BEHAVIOR SHAPING, PINECREST STATE SCHOOL, PINEVILLE
2/1/69-1/31/70, RENEWAL, \$100,000, SRS-DMR
- 22D025 ST TAMMANY PARISH SCHOOL BOARD
ADMINISTRATION AND CLASSROOMS FOR
MENTALLY AND PHYSICALLY HANDICAPPED
FORMER U.S. POST OFFICE, COVINGTON.
6/30/67, FAIR VALUE \$50,000. OSPU

MAINE

TRAINING

- 23B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
FARMINGTON STATE TEACHER'S COLLEGE,
FARMINGTON
FY 1969, RENEWAL, \$22,400. OE
- 23B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, AUGUSTA
FY 1969, RENEWAL, \$28,500. OE
- 23B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF MAINE, ORONO
FY 1969, RENEWAL, \$24,300. OE
- 23B020 TRAINING PROGRAM FOR NURSING SERVICE
PERSONNEL MR PINELAND HOSPITAL AND TRAINING
CENTER, POWNAL
7/1/69-12/31/70, INITIAL, \$24,632, SRS-DMR

OTHER

- 23D005 DIAGNOSTIC AND EVALUATION CLINIC FOR
MENTALLY RETARDED CHILDREN, WATERVILLE
STATE DEPARTMENT OF HEALTH AND WELFARE,
AUGUSTA
7/1/68-6/30/69, RENEWAL, \$40,000. SRS-CB
- 23D010 MR INITIAL STAFFING, EASTERN MAINE FRIENDS OF
RETARDED CHILDREN, INC., BREWER
7/1/69-6/30/70, INITIAL, \$6,311, SRS-DMR
- 23D015 MR INITIAL STAFFING, GREATER WATERVILLE ASSOC.
FOR RETARDED CHILDREN, INC., WATERVILLE
7/1/69-6/30/70, INITIAL, \$12,075, SRS-DMR
- 23D020 MR INITIAL STAFFING, WORK ADJUSTMENT CENTER,
PORTLAND
7/1/69-6/30/70, INITIAL, \$10,831, SRS-DMR

MARYLAND

TRAINING

- 24B005 FACILITY IMPROVEMENT GRANT JEANNE BUSSARD
TRAINING WORKSHOP, FREDERICK
5/1/69-4/30/70, RENEWAL, \$12,878, SRS-RSA
- 24B010 FACILITY IMPROVEMENT GRANT MELWOOD
AGRICULTURAL TRAINING CENTER, UPPER
MARLBORO
5/1/69-4/30/70, RENEWAL, \$6,390, SRS-RSA
- 24B012 INSERVICE TRAINING FOR COTTAGE AND
SUPERVISORY COUNSELORS MR DEPARTMENT OF
PUBLIC WELFARE, LAUREL, MARYLAND
7/1/69-6/30/70, RENEWAL, \$26,012, SRS-DMR
- 24B015 MULTI-DISCIPLINE PROGRAM FOR CARE OF MENTALLY
RETARDED MR HENRYTON STATE HOSPITAL,
HENRYTON,
7/1/69-6/30/70, RENEWAL, \$20,017, SRS-DMR
- 24B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN COPPIN
STATE COLLEGE, BALTIMORE
FY 1969, RENEWAL, \$56,300. OE

- 24B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN JOHN
HOPKINS UNIVERSITY, BALTIMORE
FY 1969, RENEWAL, \$30,000. OE
- 24B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, BALTIMORE
FY 1969, RENEWAL, \$23,093. OE
- 24B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF MARYLAND, COLLEGE PARK
FY 1969, RENEWAL, \$78,600. OE
- 24B040 TRAINING PROGRAM FOR ATTENDANTS AND
SELECTED PERSONNEL MR ROSEWOOD STATE
HOSPITAL, OWINGS MILLS
7/1/69-6/30/70, RENEWAL, \$21,340, SRS-DMR
- 24B045 UNIVERSITY-AFFILIATED TRAINING PROGRAM IN
MENTAL RETARDATION JOHNS HOPKINS
UNIVERSITY, BALTIMORE
7/1/68-6/30/69, RENEWAL, \$2,275,179. SRS-CB

CONSTRUCTION

- 24C005 COMMUNITY FACILITIES CONSTRUCTION, ANNE
ARUNDEL COUNTY ARC, SEVERNA PARK
4/1/69, INITIAL, \$104,259. SRS-DMR
- 24C010 MT. SINAI HOSPITAL GENETICS COUNSELING CLINIC
STATE DEPARTMENT OF HEALTH, BALTIMORE
7/1/68-6/30/69, RENEWAL, \$46,900. SRS-CB

OTHER

- 24D005 BALTIMORE ASSOCIATION FOR RETARDED CHILDREN,
BALTIMORE
1/1/69-12/31/70, INITIAL, \$16,218. SRS RSA
- 24D010 CARROLL COUNTY ASSOCIATION FOR RETARDED
CHILDREN, WESTMINSTER
8/1/69-7/31/69, INITIAL, \$2,295. SRS RSA
- 24D015 GATEWAY TO BETTER LIVING, HENRYTON STATE
HOSPITAL, HENRYTON
6/1/68-8/31/69, RENEWAL, SRS-DMR
- 24D020 MR INITIAL STAFFING, ANNE ARUNDEL CO. DAY CARE
CTR. FOR RETARDED CHILDREN, INC., ANNAPOLIS
7/1/69-6/30/70, INITIAL, \$27,675, SRS-DMR
- 24D025 MR INITIAL STAFFING, CHESTERWYE DAY CARE
ACTIVITIES CENTER, INC., STEVENSVILLE
9/1/69-8/31/70, INITIAL, \$8,700, SRS-DMR
- 24D030 NORTHERN MARYLAND SOCIETY FOR THE AID OF
RETARDED CHILDREN BEL AIR
6/25/69-6/24/70, INITIAL, \$10,376. SRS RSA
- 24D035 SELF-HELP TRAINING, DISTRICT TRAINING SCHOOL,
LAUREL
5/1/69-4/30/70, INITIAL, \$91,941, SRS-DMR

MASSACHUSETTS

TRAINING

- 25B005 A TRAINING PROGRAM FOR PHYSICAL THERAPY AIDES
MR HATHORNE STATE SCHOOL, HATHORNE
7/1/69-6/30/70, INITIAL, \$24,443, SRS-DMR
- 25B015 DEVELOP UNDERSTANDING OF PROBLEMS OF
MENTALLY RETARDED MR PAUL A. DEVER STATE
SCHOOL, TAUNTON
7/1/69-6/30/70, RENEWAL, \$18,051, SRS-DMR
- 25B020 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
BOSTON COLLEGE, BOSTON
9/1/68-8/31/69, RENEWAL, \$37,027. SRS-RSA
- 25B040 GRADUATE PROGRAM IN OCCUPATIONAL THERAPY
BOSTON UNIVERSITY, BOSTON
10/1/68-9/30/69, RENEWAL, \$38,301. SRS-CB
- 25B050 IMPROVE EDUCATION PROGRAMS FOR NURSING
PERSONNEL MR BELCHERTOWN STATE SCHOOL,
BELCHERTOWN
7/1/69-6/30/70, RENEWAL, \$23,068, SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 25B055 MANPOWER DEVELOPMENT-OFFICE OF MENTAL RETARDATION EXECUTIVE OFFICE OF ADMINISTRATION AND FINANCE, BOSTON
FY 1969, RENEWAL, \$73,862. SRS-P
- 25B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BOSTON UNIVERSITY, BOSTON
FY 1969, RENEWAL, \$153,400. OE
- 25B075 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BOSTON COLLEGE, CHESTNUT HILL
FY 1969, RENEWAL, \$73,800. OE
- 25B080 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CHILDREN'S HOSPITAL MEDICAL CENTER, BOSTON
6/1/69-8/31/70, INITIAL, \$20,000. OE
- 25B085 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHEASTERN UNIVERSITY, BOSTON
6/1/69-8/31/70, INITIAL, \$21,200. OE
- 25B090 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE COLLEGE AT FITCHBURG, FITCHBURG
FY 1969, RENEWAL, \$46,600. OE
- 25B095 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, BOSTON
FY 1969, RENEWAL, \$37,700. OE
- 25B100 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MASSACHUSETTS, AMHERST
6/1/69-8/31/70, INITIAL, \$17,010. OE
- 25B105 PSYCHIATRY-MENTAL RETARDATION WALTER E. FERNALD STATE SCHOOL, WALTHAM,
FY 1969, RENEWAL, \$50,382. NIMH
- 25B110 TRAINING IN EPILEPSY CHILDREN'S HOSPITAL MEDICAL CENTER, BOSTON
7/1/68-6/30/69, RENEWAL, \$64,000. SRS-CB
- 25B115 TRAINING IN MENTAL RETARDATION MASSACHUSETTS GENERAL HOSPITAL, BOSTON
7/1/68-6/30/69, RENEWAL, \$523,075. SRS-CB
- 25B120 TRAINING SERVICES GRANT SPRINGFIELD GOODWILL INDUSTRIES, SPRINGFIELD
6/25/69-6/24/70, RENEWAL, \$142,640. SRS-RSA

CONSTRUCTION

- 25C005 COMMUNITY FACILITIES CONSTRUCTION, WORCESTER SCHOOL FOR MENTAL RETARDATION, SHREWSBURY
6/30/69, INITIAL, \$264,395. SRS-DMR

OTHER

- 25D005 A CHILD EXPERIENCE ENRICHMENT PROGRAM, PAUL A DEVER STATE SCHOOL, TAUNTON
12/1/68-11/30/69, RENEWAL, \$95,186. SRS-DMR
- 25D010 AN IMPROVED PROGRAM FOR HABILITATION OF THE RETARDED, BELCHERTOWN STATE SCHOOL, BELCHERTOWN
1/1/69-12/31/69, RENEWAL, \$7,276. SRS-DMR
- 25D015 CASE FINDING AND DAY CARE SERVING TOTALLY DEPENDENT CHILDREN SOUTH SHORE MENTAL HEALTH ASSOCIATION, QUINCY
FY 1969, RENEWAL, \$78,594. SRS-P
- 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
7/1/68-6/30/69, RENEWAL, \$159,320. SRS-CB
- 25D035 MR INITIAL STAFFING, DEPARTMENT OF MENTAL HEALTH, BOSTON
7/1/69-6/30/70, INITIAL, \$49,033. SRS-DMR
- 25D040 MR INITIAL STAFFING, DEPARTMENT OF MENTAL HEALTH, BOSTON
11/1/69-10/31/70, INITIAL, \$79,604. SRS-DMR
- 25D045 MR INITIAL STAFFING, DEPARTMENT OF MENTAL HEALTH, BOSTON

- 9/1/69-8/31/70, INITIAL, \$10,874. SRS-DMR
- 25D050 MR INITIAL STAFFING, DEPARTMENT OF MENTAL HEALTH, BOSTON
9/1/69-8/31/70, INITIAL, \$43,346. SRS-DMR
- 25D055 MR INITIAL STAFFING, DEPARTMENT OF MENTAL HEALTH, BOSTON
7/1/69-6/30/70, INITIAL, \$59,240. SRS-DMR
- 25D060 PKU COLLABORATIVE STUDY NEW ENGLAND DEACONESS HOSPITAL, BOSTON
7/1/68-6/30/69, RENEWAL, \$38,103. SRS-CB
- 25D065 TRAINING SEVERELY RETARDED ADULTS FROM THE BACK WARDS, WALTER E FERNALD STATE SCHOOL, WAYERLEY
9/1/68-8/31/69, RENEWAL, \$8,715. SRS-DMR
- 25D070 TRAINING THE UNTRAINABLE, WRENTHAM STATE SCHOOL, WRENTHAM
9/1/68-8/31/69, RENEWAL, \$50,307. SRS-DMR

MICHIGAN

TRAINING

- 26B001 APPRAISAL CENTER FOR MULTIPLE HANDICAPPED CHILDREN, CHILDREN'S HOSPITAL, DETROIT STATE DEPARTMENT OF PUBLIC HEALTH, LANSING
7/1/68-6/30/69, RENEWAL, \$100,200. SRS-CB
- 26B005 EXPAND ATTENDANT NURSE TRAINING PROGRAM MR COLDWATER STATE HOME AND SCHOOL, COLDWATER
7/1/69-6/30/70, RENEWAL, \$25,000. SRS-DMR
- 26B006 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS MICHIGAN STATE UNIVERSITY, EAST LANSING
9/1/68-8/31/69, RENEWAL, \$77,109. SRS-RSA
- 26B007 FIELD INSTRUCTION OF SPEECH PATHOLOGY AND AUDIOLOGY MICHIGAN STATE UNIVERSITY, EAST LANSING
9/1/68-8/31/69, RENEWAL, \$34,185. SRS-RSA
- 26B008 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF MICHIGAN, ANN ARBOR
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
7/1/68-6/30/69, RENEWAL, \$66,226. SRS-CB
- 26B010 INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR LAPEER STATE HOME AND TRAINING SCHOOL, LAPEER
7/1/69-6/30/70, RENEWAL, \$25,000. SRS-DMR
- 26B011 MENTAL RETARDATION TRAINING UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN
4/1/69-9/30/69, INITIAL, \$137,114. SRS-CB.
- 26B012 MENTAL STUDY UNIT, UNIVERSITY OF MICHIGAN, ANN ARBOR STATE DEPARTMENT OF PUBLIC HEALTH, LANSING
7/1/68-6/30/69, RENEWAL, \$100,000. SRS-CB
- 26B013 JEWISH VOCATIONAL SERVICE AND COMMUNITY WORKSHOP, DETROIT
FY 1969, INITIAL, \$51,097. SRS RSA
- 26B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CENTRAL MICHIGAN UNIVERSITY, MT. PLEASANT
FY 1969, RENEWAL, \$23,300. OE
- 26B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN EASTERN MICHIGAN UNIVERSITY, YPSILANTI
FY 1969, RENEWAL, \$105,400. OE
- 26B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MICHIGAN STATE UNIVERSITY, EAST LANSING
FY 1969, RENEWAL, \$58,200. OE
- 26B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHERN MICHIGAN UNIVERSITY, MARQUETTE
FY 1969, RENEWAL, \$8,700. OE
- 26B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, LANSING
FY 1969, RENEWAL, \$72,674. OE

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 26B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MICHIGAN, ANN ARBOR
FY 1969, RENEWAL, \$86,000. OE
- 26B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WAYNE STATE UNIVERSITY, DETROIT
FY 1969, RENEWAL, \$34,500. OE
- 26B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WESTERN MICHIGAN UNIVERSITY, KALAMAZOO
FY 1969, RENEWAL, \$60,100. OE
- 26B055 TRAINING ALL LEVELS OF WARD PERSONNEL MR PLYMOUTH STATE HOME AND TRAINING SCHOOL, NORTHVILLE
7/1/69-6/30/70, RENEWAL, \$20,131, SRS-DMR
- 26B060 TRAINING IN BASIC NURSING FOR PSYCHIATRIC AIDES MR HOWELL STATE HOSPITAL, HOWELL
7/1/69-6/30/70, RENEWAL, \$9,367, SRS-DMR

CONSTRUCTION

- 26C005 COMMUNITY FACILITIES CONSTRUCTION, OAKLAND COUNTY MENTAL RETARDATION CENTER, PONTIAC
6/27/69, INITIAL, \$637,087, SRS-DMR

OTHER

- 26D005 COMPREHENSIVE PROGRAMMING FOR THE SEVERELY RETARDED, FORT CUSTER STATE HOME, AUGUSTA
3/1/69-2/28/70, RENEWAL, \$99,687, SRS-DMR
- 26D010 ENRICHED ENVIRONMENT FOR YOUNG RETARDED PATIENTS, PLYMOUTH STATE HOME AND TRAINING SCHOOL, NORTHVILLE
6/1/69-5/31/70, RENEWAL, \$78,137, SRS-DMR
- 26D015 HABIT TRAINING OF THE SEVERELY RETARDED, MOUNT PLEASANT STATE HOME AND TRAINING SCHOOL, MOUNT PLEASANT
6/1/69-5/31/70, RENEWAL, \$100,000, SRS-DMR
- 26D020 MR INITIAL STAFFING, OAKLAND CO. COMMUNITY MENTAL HEALTH SERVICES BOARD, BIRMINGHAM
1/1/70-12/31/70, INITIAL, \$211,562, SRS-DMR
- 26D025 MR INITIAL STAFFING, PLYMOUTH STATE HOME AND TRAINING SCHOOL, NORTHVILLE
7/1/69-6/30/70, INITIAL, \$107,624, SRS-DMR
- 26D030 PATIENT PROGRESS BY EVALUATION AND PHYSICAL THERAPY, CARO STATE HOSPITAL FOR EPILEPTICS, CARO
12/1/68-11/30/69, RENEWAL, \$98,273, SRS-DMR

MINNESOTA

TRAINING

- 27B005 CHILD DEVELOPMENT TECHNICIAN TRAINING PROGRAM ST. MARY'S JUNIOR COLLEGE, MINNEAPOLIS
FY 1969, RENEWAL, \$43,100, SRS-P
- 27B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CLOUD STATE COLLEGE, ST. CLOUD
FY 1969, RENEWAL, \$11,800.
- 27B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MANKATO STATE COLLEGE, MANKATO
FY 1969, RENEWAL, \$28,300
- 27B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MOORHEAD STATE COLLEGE, MOORHEAD
FY 1969, RENEWAL, \$8,400. OE
- 27B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, ST. PAUL
FY 1969, RENEWAL, \$38,775. OE
- 27B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF MINNESOTA, MINNEAPOLIS
FY 1969, RENEWAL, \$94,000. OE

- 27B035 TRAINING PSYCHIATRIC TECHNICIANS AND PATIENT CARE PERSONNEL MR FARIBAULT STATE HOSPITAL, FARIBAULT
7/1/69-6/30/70, RENEWAL, \$20,960, SRS-DMR
- 27B040 TRAINING SERVICES GRANT OPPORTUNITY WORKSHOP, INC., MINNEAPOLIS
1/1/69-12/31/69, RENEWAL, \$142,483, SRS-RSA

OTHER

- 27D005 CHILD DEVELOPMENT CENTER, FERGUS FALLS STATE DEPARTMENT OF HEALTH, MINNEAPOLIS
7/1/68-6/30/69, RENEWAL, \$68,689, SRS-CB
- 27D010 CHILD STUDY CENTER, OWATONNA STATE DEPARTMENT OF HEALTH, MINNEAPOLIS
7/1/68-6/30/69, RENEWAL, \$60,000, SRS-CB
- 27D015 CLINICAL-LABORATORY STUDY MENTALLY RETARDED-CHILDREN SAINT PAUL RAMSEY HOSPITAL, SAINT PAUL
FY 1969, RENEWAL, \$76,340, SRS-P
- 27D020 COORDINATION AND DEVELOPMENT OF DAY ACTIVITY CENTERS AND TRAINING PROGRAM FOR HENNEPIN COUNTY MINNESOTA ASSOCIATION FOR RETARDED CHILDREN, MINNEAPOLIS
FY 1969, INITIAL, \$49,407, SRS-P
- 27D025 GROUP DAY CARE FOR THE RETARDED IN A RURAL COMMUNITY MCLEOD COUNTY DAY ACTIVITY CENTER, GLENCOE
FY 1969, RENEWAL, \$5,129, SRS-P
- 27D030 MAXIMIZING ROTATION AND GAINS IN MENTAL RETARDATION HABIT TRAINING, BRAINERD STATE HOSPITAL, BRAINERD
6/1/69-5/31/70, NEW, \$100,000, SRS-DMR
- 27D035 MR INITIAL STAFFING, DULUTH MENTAL HYGIENE CLINIC, INC., DULUTH
7/1/69-6/30/70, INITIAL, \$17,475, SRS-DMR
- 27D040 MR INITIAL STAFFING, MINNEAPOLIS ASSOC. FOR RETARDED CHILDREN, MINNEAPOLIS
1/1/70-12/31/70, INITIAL, \$6,790, SRS-DMR
- 27D045 MR INITIAL STAFFING, MINNEAPOLIS ASSOC. FOR RETARDED CHILDREN, MINNEAPOLIS
9/1/69-8/31/70, INITIAL, \$11,773, SRS-DMR
- 27D050 MR INITIAL STAFFING, MOUNT OLIVET ROLLING ACRES, EXCELSIOR
7/1/69-6/30/70, INITIAL, \$52,500, SRS-DMR
- 27D055 PSYCHIATRIC TREATMENT PROGRAM FOR ADOLESCENTS, CAMBRIDGE STATE SCHOOL AND HOSPITAL, CAMBRIDGE
5/1/69-4/30/70, RENEWAL, \$100,000, SRS-DMR
- 27D060 PSYCHIATRIC TREATMENT PROGRAM FOR ADOLESCENTS, CAMBRIDGE STATE SCHOOL AND HOSPITAL, CAMBRIDGE
5/1/68-4/30/69, SUPPLEMENT, \$4,401, SRS-DMR
- 27D065 RETRAINING PROFOUNDLY RETARDED DISTURBED ADULTS, FARIBAULT STATE SCHOOL AND HOSPITAL, FARIBAULT
6/25/69-5/31/70, NEW, \$89,545, SRS-DMR

MISSISSIPPI

TRAINING

- 28B005 BASIC TRAINING IN MENTAL RETARDATION AS AN ASPECT OF GRADUATE TRAINING IN PSYCHOLOGY UNIVERSITY OF MISSISSIPPI, JACKSON
FY 1969, RENEWAL, \$24,045, SRS-P
- 28B010 CHILD DEVELOPMENT CLINIC UNIVERSITY OF MISSISSIPPI, JACKSON
7/1/68-6/30/69, RENEWAL, \$122,854, SRS-CB
- 28B015 CHROMOSOME ANALYSIS IN MENTAL RETARDATION UNIVERSITY OF MISSISSIPPI, JACKSON
7/1/68-6/30/69, RENEWAL, \$16,385, SRS-CB
- 28B020 COMMUNITY COUNSELING UNIVERSITY OF SOUTHERN MISSISSIPPI, HATTIESBURG
FY 1969, INITIAL, \$7,668, SRS-P
- 28B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN JACKSON STATE COLLEGE, JACKSON
FY 1969, RENEWAL, \$20,800. OE

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 28B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
MISSISSIPPI UNIVERSITY, STARKVILLE
FY 1969, RENEWAL, \$33,300. OE
- 28B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, JACKSON
FY 1969, RENEWAL, \$29,800. OE
- 28B040 MEDICAL STUDENT MANAGEMENT AND DIAGNOSTIC
TRAINING EXPERIENCE CHILD DEVELOPMENT
CLINIC UNIVERSITY OF MISSISSIPPI, JACKSON
FY 1969, RENEWAL, \$7,015. SRS-P
- 28B045 10.10 ACRES OF LAND AT FORMER VA
HOSPITAL, BILOXI, SCHOOL FOR MENTALLY
RETARDED AND HANDICAPPED, HARRISON COUNTY
SCHOOL DISTRICT BOARD OF EDUCATION,
6/2/69 INITIAL \$30,000. OGPU

CONSTRUCTION

- 28C005 COMMUNITY FACILITIES CONSTRUCTION, DELTA
HABILITATION CENTER, GREENVILLE
6/12/69, INITIAL, \$330,000. SRS-DMR
- 28C010 REGIONAL CHILD DEVELOPMENT CLINIC, TUPELO
STATE BOARD OF HEALTH, JACKSON
7/1/68-6/30/69, RENEWAL, \$70,133. SRS-CB

MISSOURI

TRAINING

- 29B005 CHILD DEVELOPMENT CENTER, ST. LOUIS UNIVERSITY
STATE DEPARTMENT OF PUBLIC HEALTH AND
WELFARE, JEFFERSON CITY
7/1/68-6/30/69, RENEWAL, \$175,264. SRS-CB
- 29B010 CHILD DEVELOPMENT CLINIC UNIVERSITY OF
MISSOURI, KANSAS CITY
7/1/68-6/30/69, RENEWAL, \$101,907. SRS-CB
- 29B015 MULTIPLE HANDICAP CLINIC UNIVERSITY OF
MISSOURI, COLUMBIA
7/1/68-6/30/69, RENEWAL, \$154,862. SRS-CB
- 29B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN CENTRAL
MISSOURI STATE COLLEGE, WARRENSBURG
FY 1969, RENEWAL, \$19,600. OE
- 29B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
NORTHEAST MISSOURI STATE COLLEGE, KIRKSVILLE
FY 1969, RENEWAL, \$11,800. OE
- 29B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
SOUTHEAST MISSOURI STATE COLLEGE, CAPE
GIRARDEAU
FY 1969, RENEWAL, \$2,800. OE
- 29B035 TRAINING VARIOUS LEVELS OF SUPERVISORY
PERSONNEL AND AIDES MR ST. LOUIS STATE
SCHOOL-HOSPITAL, ST. LOUIS
7/1/69-6/30/70, RENEWAL, \$24,640. SRS-DMR
- 29B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN ST. LOUIS
UNIVERSITY, ST. LOUIS
FY 1969, RENEWAL, \$20,500. OE
- 29B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, JEFFERSON CITY
FY 1969, RENEWAL, \$45,800. OE
- 29B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF MISSOURI, COLUMBIA
FY 1969, RENEWAL, \$49,800. OE
- 29B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF MISSOURI, ST. LOUIS
6/1/69-8/31/70, INITIAL, \$15,000. OE

OTHER

- 29D005 DAY CARE CENTER DEMONSTRATION PROJECT FOR
SEVERELY RETARDED CHILDREN DEPARTMENT OF
MEDICINE SAINT LOUIS UNIVERSITY MEDICAL
SCHOOL, ST. LOUIS
FY 1969, RENEWAL, \$50,955. SRS-P
- 29D010 DIAGNOSTIC LABORATORY FOR MENTAL
RETARDATION CURATORS UNIVERSITY OF
MISSOURI, COLUMBIA
FY 1969, RENEWAL, \$17,859. SRS-P
- 29D015 INTENSIVE PROGRAM FOR SEVERELY AND
PROFOUNDLY RETARDED, ST. LOUIS STATE SCHOOL
AND HOSPITAL, ST. LOUIS
6/1/69-5/31/70, RENEWAL, \$71,931. SRS-DMR
- 29D020 MR INITIAL STAFFING, CHILDRENS MERCY HOSPITAL,
KANSAS CITY
7/1/69-6/30/70, INITIAL, \$62,862. SRS-DMR
- 29D025 MR INITIAL STAFFING, REHABILITATION INSTITUTE,
INC., KANSAS CITY
7/1/69-6/30/70, INITIAL, \$49,170. SRS-DMR
- 29D030 MR INITIAL STAFFING, WOODHAVEN CHRISTIAN HOME
FOR EXCEPTIONAL CHILDREN, COLUMBIA
9/1/69-8/31/70, INITIAL, \$28,500. SRS-DMR
- 29D035 MR INITIAL STAFFING, YEATMAN DISTRICT
COMMUNITY CORPORATION, ST. LOUIS
7/1/69-6/30/70, INITIAL, \$42,732. SRS-DMR
- 29D040 TREATMENT UNIT FOR THE PHYSICALLY
HANDICAPPED RETARDED, MARSHALL STATE
SCHOOL AND HOSPITAL, MARSHALL
6/25/69-5/31/70, NEW, \$91,613. SRS-DMR

MONTANA

TRAINING

- 30B005 A DEMONSTRATION TRAINING PROGRAM FOR
PROVIDING DENTAL SERVICES TO MENTALLY
RETARDED PEOPLE, HELENA MONTANA STATE
DEPARTMENT OF HEALTH, HELENA
FY 1969 RENEWAL, \$23,262. SRS-P
- 30B010 A UNIT TEAM TRAINING PROGRAM MR BOULDER
RIVER SCHOOL AND HOSPITAL, BOULDER
7/1/69-6/30/70, INITIAL, \$25,000. SRS-DMR
- 30B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN EAST
MONTANA COLLEGE COLLEGE OF EDUCATION,
BILLINGS
FY 1969, RENEWAL, \$42,600 OE
- 30B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF PUBLIC INSTRUCTION, HELENA
FY 1969, RENEWAL, \$36,900

CONSTRUCTION

- 30C005 COMMUNITY FACILITIES CONSTRUCTION, EASTERN
MONTANA COLLEGE, BILLINGS
6/30/69, INITIAL, \$235,858. SRS-DMR

OTHER

- 30D005 BUTTE SHELTERED WORKSHOP, BUTTE
6/30/69-9/29/70, INITIAL, \$20,100. SRS RSA
- 30D010 DEVELOPMENT OF A COTTAGE UNIT TEAM PROGRAM,
BOULDER RIVER SCHOOL AND HOSPITAL, BOULDER
2/1/69-1/31/70, RENEWAL, \$69,809. 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
FY 1969, RENEWAL, \$55,040. SRS-P

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 30D025 FACILITY IMPROVEMENT GRANT ROCKY MOUNTAIN ASSOCIATION FOR RETARDED CHILDREN AND ADULTS, BUTTE
3/1/69-2/28/70, RENEWAL, \$4,500, SRS-RSA
- 30D030 MR INITIAL STAFFING, EASTMONT TRAINING CENTER, HELENA
11/1/69-10/31/70, INITIAL, \$30,567, SRS-DMR

NEBRASKA

TRAINING

- 31B005 A MENTAL RETARDATION EVALUATION AND COUNSELING CLINIC UNIVERSITY OF NEBRASKA, LINCOLN-OMAHA
7/1/68-6/30/69, RENEWAL, \$161,121, SRS-CB
- 31B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MUNICIPAL UNIVERSITY OF OMAHA, OMAHA
FY 1969, RENEWAL, \$8,700, OE
- 31B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, LINCOLN
FY 1969, RENEWAL, \$23,579, OE
- 31B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NEBRASKA, LINCOLN
FY 1969, RENEWAL, \$16,500, OE
- 31B025 TRAINING SERVICES GRANT GOODWILL INDUSTRIES OF OMAHA, OMAHA
6/25/69-6/24/70, RENEWAL, \$155,822, SRS-RSA

CONSTRUCTION

- 31C005 COMMUNITY FACILITIES CONSTRUCTION, CHAP, BELLEVUE PUBLIC SCHOOL, BELLEVUE
6/27/69, INITIAL, \$179,600, SRS-DMR
- 31C010 MR INITIAL STAFFING, GREATER OMAHA ASSOC. FOR RETARDED CHILDREN, INC., OMAHA
9/1/69-8/31/70, INITIAL, \$46,575, SRS-DMR

OTHER

- 31D005 CENTRAL NEBRASKA ASSOCIATION FOR RETARDED CHILDREN, GRAND ISLAND
6/29/69-6/28/70, INITIAL, \$4,500, SRS-RSA

NEVADA

TRAINING

- 32B005 INSERVICE TRAINING FOR THE ATTENDANT STAFF NEVADA STATE HOSPITAL, RENO
7/1/69-6/30/70, RENEWAL, \$10,234, SRS-DMR
- 32B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NEVADA SOUTHERN UNIVERSITY, LAS VEGAS
6/1/69-8/31/70, INITIAL, \$14,600, OE
- 32B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, CARSON CITY
FY 1969, RENEWAL, \$35,800, OE
- 32B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NEVADA, RENO
FY 1969, RENEWAL, \$19,600, OE

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
7/1/68-6/30/69, RENEWAL, \$65,000, SRS-CB

NEW HAMPSHIRE

TRAINING

- 33B005 LEBANON REGIONAL TRAINING CENTER, LEBANON
7/20/68-7/19/69, INITIAL, \$3,975, SRS-RSA
- 33B010 ORIENTATION AND TRAINING COURSES FOR NURSING ATTENDANTS MR LACONIA STATE SCHOOL, LACONIA
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR
- 33B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BOARD OF EDUCATION, CONCORD
FY 1969, RENEWAL, \$27,700, OE
- 33B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN KEENE STATE COLLEGE, KEENE
FY 1969, RENEWAL, \$12,100, OE

OTHER

- 33D005 MANCHESTER ASSOCIATION FOR RETARDED CHILDREN, MANCHESTER
5/1/69-4/30/70, INITIAL, \$4,500, SRS-RSA
- 33D010 MR INITIAL STAFFING, THE NEW HOPE CENTER, KEENE
7/1/69-6/30/70, INITIAL, \$6,750, SRS-DMR
- 33D015 NORTH COUNTY CENTER FOR EXCEPTIONAL CHILDREN NORTH COUNTY COMMUNITY SERVICES, INC., BERLIN
FY 1969, RENEWAL, \$20,578, SRS-P
- 33D020 PERSONAL DEVELOPMENT AND DAY CARE CENTER MANCHESTER ASSOCIATION FOR RETARDED CHILDREN, MANCHESTER
FY 1969, RENEWAL, \$14,041, SRS-P
- 33D025 THE NEW HOPE CENTER CHESHIRE COUNTY ASSOCIATION FOR RETARDED CHILDREN, KEENE
FY 1969, RENEWAL, \$13,000, SRS-P
- 33D030 THERAPEUTIC MILIEU FOR MENTAL RETARDATES, LACONIA STATE SCHOOL, LACONIA
5/1/69-4/30/70, RENEWAL, \$100,000, SRS-DMR

NEW JERSEY

TRAINING

- 34B005 ADDITIONAL 7.35 ACRES OF LAND AT VA HOSPITAL, LYONS- RESIDENTIAL FACILITY FOR CARE AND TRAINING OF MENTALLY RETARDED, STATE DEPT. OF INSTITUTIONS
4/29/69 ADDITIONAL, \$7,060, OSPU
- 34B010 CONTINUE IMPROVEMENT OF TRAINING FOR COTTAGE LIFE PERSONNEL MR STATE COLONY AT WOODBINE, WOODBINE
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR
- 34B015 DEVELOP TRAINING FOR ATTENDANT PERSONNEL MR NORTH JERSEY TRAINING SCHOOL, TOTOWA
7/1/69-6/30/70, INITIAL, \$24,492, SRS-DMR
- 34B020 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS RUTGERS, THE STATE UNIVERSITY, NEW BRUNSWICK
9/1/68-8/31/69, RENEWAL, \$76,756, SRS-RSA
- 34B025 INSERVICE TRAINING FOR ATTENDANTS AND PROFESSIONAL STAFF MR VINELAND STATE SCHOOL, VINELAND
7/1/69-6/30/70, RENEWAL, \$24,776, SRS-DMR
- 34B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GLASSBORO STATE COLLEGE, GLASSBORO
FY 1969, RENEWAL, \$28,000, OE
- 34B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN JERSEY CITY STATE COLLEGE, JERSEY CITY
FY 1969, RENEWAL, \$9,000, OE
- 34B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NEWARK STATE COLLEGE, UNION
FY 1969, RENEWAL, \$38,900, OE

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 34B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN PATTERSON STATE COLLEGE, WAYNE 6/1/69-8/31/70, INITIAL, \$17,700. OE
- 34B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, NEW BRUNSWICK 6/1/69-8/31/70, INITIAL, \$26,500. OE
- 34B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, TRENTON FY 1969, RENEWAL, \$18,000. OE
- 34B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TRENTON STATE COLLEGE, TRENTON FY 1969, RENEWAL, \$26,500. OE
- 34B065 TEAM ORIENTED TRAINING MR E.R. JOHNSTONE TRAINING AND RESEARCH CENTER, BORDENTOWN 7/1/69-6/30/70, INITIAL, \$23,124, SRS-DMR
- 34B070 TRAINED COTTAGE LIFE EMPLOYEES WITH ADEQUATE KNOWLEDGE AND SKILLS MR STATE COLONY AT NEW LISBON, NEW LISBON 7/1/69-6/30/70, RENEWAL, \$25,000, 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, BURLINGTON COUNTY DAY CARE CENTER, BURLINGTON 5/26/69, INITIAL, \$109,358. SRS-DMR
- 34C010 COMMUNITY FACILITIES CONSTRUCTION, CAPE MAY COUNTY DAY CARE CENTER, CAPE MAY COURT HOUSE 5/26/69, INITIAL, \$109,359. SRS-DMR
- 34C015 COMMUNITY FACILITIES CONSTRUCTION, MIDDLESEX COUNTY DAY CARE CENTER, WOODBRIDGE 5/26/69, INITIAL, \$109,358. SRS-DMR

OTHER

- 34D005 CONCENTRATED DORMITORY SERVICES, E R JOHNSTONE TRAINING AND RESEARCH CENTER, BORDENTOWN 1/1/69-12/31/69, RENEWAL, \$68,968, SRS-DMR
- 34D010 EVALUATION-CONSULTATION SERVICE MENTAL RETARDATION NEWARK STATE COLLEGE CHILD STUDY CENTER, UNION FY 1969, RENEWAL, \$98,281. SRS-P
- 34D015 IMPROVED CARE FOR THE AGING RETARDATE, STATE COLONY, WOODBINE 1/1/69-12/31/69, RENEWAL, \$61,714, SRS-DMR
- 34D020 IMPROVEMENT OF LANGUAGE SKILLS IN RETARDED CHILDREN, NORTH JERSEY TRAINING SCHOOL, TOTOWA 6/1/69-5/31/70, RENEWAL, \$94,571, SRS-DMR
- 34D025 INDEPENDENT LIVING ORIENTED ACTIVITIES PROGRAM MENTAL RETARDATION STATE OF NEW JERSEY DEPARTMENT OF INSTITUTIONS AND AGENCIES, TRENTON FY 1969, RENEWAL, \$112,961. SRS-P
- 34D030 MAXIMAL STIMULATION AND CARE FOR SEVERELY RETARDED, VINELAND STATE SCHOOL, VINELAND 9/1/68-8/31/69, RENEWAL, \$34,071, SRS-DMR
- 34D035 MR INITIAL STAFFING, EASTER SEAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS, HACKENSACK 8/1/69-7/31/70, INITIAL, \$7,725, SRS-DMR
- 34D040 MR INITIAL STAFFING, MERCER COUNTY UNIT, NJ ARC, TRENTON 9/1/69-8/31/70, INITIAL, \$8,250, SRS-DMR
- 34D045 MR INITIAL STAFFING, MT. CARMEL GUILD ALHAMBRA PAVILION DAY CARE CENTER, NEWARK 7/1/69-6/30/70, INITIAL, \$161,108, SRS-DMR
- 34D050 MR INITIAL STAFFING, NJ ARC, BERGEN-PASSAIC UNIT, INC., HACKENSACK 2/1/70-1/31/71, INITIAL, \$25,350, SRS-DMR

- 34D055 MR INITIAL STAFFING, NJ ARC, BERGEN-PASSAIC UNIT, INC., HACKENSACK 10/1/69-9/30/70, INITIAL, \$15,750, SRS-DMR
- 34D060 MR INITIAL STAFFING, NJ ARC, ESSEX UNIT, EAST ORANGE 9/1/69-8/31/70, INITIAL, \$13,320, SRS-DMR
- 34D065 MR INITIAL STAFFING, NJ ASSOCIATION FOR RETARDED CHILDREN, INC., KENILWORTH 8/1/69-7/31/70, INITIAL, \$14,331, SRS-DMR
- 34D070 MR INITIAL STAFFING, OCCUPATIONAL TRAINING CENTER, MOUNT HOLLY 9/1/69-8/31/70, INITIAL, \$5,625, SRS-DMR
- 34D075 NEW JERSEY ASSOCIATION FOR RETARDED CHILDREN, MONMOUTH COUNTY UNIT RED BANK FY 1969, INITIAL, \$18,384. SRS RSA
- 34D080 NEW JERSEY REHABILITATION COMMISSION, TRENTON 6/29/69-6/28/70, INITIAL, \$4,500. SRS RSA
- 34D085 NORTH JERSEY COMMUNITY UNION, NEWARK 6/30/69-6/29/70, INITIAL, \$4,950. SRS RSA
- 34D090 OCCUPATIONAL CENTER OF ESSEX COUNTY, ORANGE 6/29/69-6/28/70, INITIAL, \$20,658. SRS RSA
- 34D095 OCEAN COUNTY SHELTERED WORKSHOP, LAKEWOOD 6/29/69-6/28/70, INITIAL, \$19,032. SRS RSA
- 34D100 PHYSICAL HABILITATION FOR THE SEVERELY RETARDED, WOODBRIDGE STATE SCHOOL, WOODBRIDGE 1/1/69-12/31/69, RENEWAL, \$81,311. SRS-DMR
- 34D105 SELF HELP SKILLS TAUGHT THRU ART MUSIC INNOVATIONS, VINELAND STATE SCHOOL, VINELAND 6/15/69-5/31/70, RENEWAL, \$40,054, SRS-DMR
- 34D110 THE HUNTERDON COUNTY UNIT OF NEW JERSEY ASSOCIATION FOR RETARDED CHILDREN, PITTSFORD 6/25/69-6/24/70, INITIAL, \$4,493. SRS RSA

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 FY 1969, RENEWAL, \$42,000. OE
- 35B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, SANTA FE FY 1969, RENEWAL, \$42,900. OE
- 35B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NEW MEXICO, ALBUQUERQUE FY 1969, RENEWAL, \$42,300

CONSTRUCTION

- 35C005 COMMUNITY FACILITIES CONSTRUCTION, LOS LUNAS HOSPITAL AND TRAINING SCHOOL, LOS LUNAS 6/30/69, INITIAL, \$267,254. SRS-DMR

OTHER

- 35D005 CHILD DEVELOPMENT CENTER, SANTE FE STATE DEPARTMENT OF PUBLIC HEALTH, SANTE FE 7/1/68-6/30/69, RENEWAL, \$94,000. SRS-CB
- 35D010 CHILD STUDY CENTER, ALBUQUERQUE STATE DEPARTMENT OF PUBLIC HEALTH, SANTE FE 7/1/68-6/30/69, RENEWAL, \$75,000. SRS-CB
- 35D015 MR INITIAL STAFFING, BERNALILLO COUNTY MENTAL HEALTH CENTER, ALBUQUERQUE 7/1/69-6/30/70, INITIAL, \$44,763, SRS-DMR
- 35D020 MR INITIAL STAFFING, CASA LINDA PRIVATE SCHOOL, INC., ALBUQUERQUE 8/1/69-7/31/70, INITIAL, \$23,656, SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

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
7/1/68-6/30/69, RENEWAL, \$19,221. SRS-CB
- 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
9/1/68-8/31/69, RENEWAL, \$109,181. SRS-RSA
- 36B020 DIAGNOSTIC AND COUNSELING STUDY CENTER FOR RETARDED CHILDREN, BUFFALO STATE DEPARTMENT OF HEALTH, ALBANY
7/1/68-6/30/69, RENEWAL, \$119,970 SRS-CB
- 36B025 FACILITY FOR TREATMENT OF METABOLIC DISEASES NEW YORK UNIVERSITY MEDICAL CENTER, NEW YORK
4/1/69-3/31/70, RENEWAL, \$156,624. SRS-CB
- 36B030 FACILITY IMPROVEMENT GRANT ASSN. FOR CHILDREN WITH RETARDED MENTAL DEVELOPMENT, INC., NEW YORK
6/15/69-6/14/70, RENEWAL, \$28,358. SRS-RSA
- 36B035 FACILITY IMPROVEMENT GRANT ASSN. FOR THE HELP OF RETARDED CHILDREN, INC., LONG ISLAND
5/1/69-4/30/70, RENEWAL, \$13,771. SRS-RSA
- 36B040 FACILITY IMPROVEMENT GRANT COMMUNITY WORKSHOP, INC., GLENS FALLS
6/15/69-6/14/70, RENEWAL, \$14,499. SRS
- 36B045 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS NEW YORK MEDICAL COLLEGE, NEW YORK
9/1/68-8/31/69, RENEWAL, \$15,466. SRS-RSA
- 36B050 FIELD INSTRUCTION OF REHABILITATION COUNSELING STUDENTS STATE UNIVERSITY OF NEW YORK, BUFFALO
9/1/68-8/31/69, RENEWAL, \$80,232. SRS-RSA
- 36B055 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS NEW YORK UNIVERSITY, NEW YORK
9/1/68-8/31/69, RENEWAL, \$37,287. SRS-RSA
- 36B060 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS SYRACUSE UNIVERSITY, SYRACUSE
6/1/69-5/31/70, RENEWAL, \$37,644. SRS-RSA
- 36B065 HUMAN GENETICS PROGRAM STATE UNIVERSITY OF NEW YORK, BUFFALO
7/1/68-6/30/69, RENEWAL, \$189,200. SRS-CB
- 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
7/1/68-6/30/69, RENEWAL, \$556,791. SRS-CB
- 36B085 MENTAL RETARDATION DENTAL TRAINING PROJECT LONG ISLAND JEWISH HOSPITAL, NEW HYDE PARK, L.I.
FY 1969, RENEWAL, \$11,629. SRS-P
- 36B090 MULTIPLE TEST PROCEDURE FOR INBORN ERRORS OF METABOLISM STATE UNIVERSITY OF NEW YORK, BUFFALO
7/1/68-6/30/69, RENEWAL, \$183,628. SRS-CB
- 36B095 PEDIATRIC AUDIOLOGY TRAINING NEW YORK UNIVERSITY MEDICAL CENTER, NEW YORK
4/1/69-3/31/70, RENEWAL, \$30,879. SRS-CB
- 36B100 PHYSICAL THERAPIST PARTICIPATION IN A MENTAL RETARDATION PROGRAM ITHACA COLLEGE, ITHACA
FY 1969, RENEWAL, \$11,016. SRS-P
- 36B105 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN FORDHAM UNIVERSITY, NEW YORK
6/1/69-8/31/70, INITIAL, \$21,200. OE
- 36B110 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN HOFSTRA UNIVERSITY, HEMPSTEAD, LONG ISLAND
FY 1969, RENEWAL, \$31,800. OE
- 36B115 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MARYMOUNT MANHATTAN COLLEGE, NEW YORK
FY 1969, RENEWAL, \$17,700. OE
- 36B120 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NEW YORK UNIVERSITY, NEW YORK
FY 1969, RENEWAL, \$57,800. OE
- 36B125 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE EDUCATION DEPARTMENT, ALBANY
FY 1969, RENEWAL, \$81,285. OE
- 36B130 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE UNIVERSITY COLLEGE AT BUFFALO, BUFFALO
FY 1969, RENEWAL, \$115,800. OE
- 36B135 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE UNIVERSITY COLLEGE AT GENESEO, GENESEO
FY 1969, RENEWAL, \$50,400. OE
- 36B140 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SYRACUSE UNIVERSITY, SYRACUSE
FY 1969, RENEWAL, \$66,800. OE
- 36B145 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TEACHERS COLLEGE AT COLUMBIA, NEW YORK
FY 1969, RENEWAL, \$101,300. OE
- 36B150 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN THE COLLEGE OF ST. ROSE, ALBANY
FY 1969, RENEWAL, \$21,200. OE
- 36B155 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED YESHIVA UNIVERSITY, NEW YORK
FY 1969, RENEWAL, \$102,900. 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
FY 1969, RENEWAL, \$38,953. NIMH
- 36B170 REHABILITATION CENTER, CHILDREN'S HOSPITAL OF BUFFALO AND CRIPPLED CHILDREN'S GUILD, BUFFALO STATE DEPARTMENT OF HEALTH, ALBANY
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, ALBANY
FY 1969, RENEWAL, \$45,916. SRS-P
- 36B185 TEACHING PROGRAM IN MENTAL RETARDATION UNIVERSITY OF ROCHESTER, ROCHESTER
FY 1969, RENEWAL, \$64,409. SRS-P
- 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
7/1/68-6/30/69, RENEWAL, \$179,966. SRS-CB
- 36B205 TRAINING SERVICES GRANT FEDERATION OF THE HANDICAPPED, NEW YORK
6/25/69-6/24/70, RENEWAL, \$237,684. SRS-RSA

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 36B210 TRAINING SERVICES GRANT NIAGARA FRONTIER VOCATIONAL REHABILITATION CENTER, INC., BUFFALO
6/25/69-6/24/70, RENEWAL, \$172,646, SRS-RSA
- 36B215 TRAINING TO INCREASE ATTENDANT EFFECTIVENESS TO PATIENT CARE MR ROME STATE SCHOOL, ROME
7/1/69-6/30/70, \$10,571, SRS-DMR
- 36B220 5.03 ACRES LAND AT FAA INTERNATIONAL FLIGHT SERVICE TRANSMITTER STATION, JSLIP--FOR CONSTRUCTION OF A TRAINING CENTER FOR MENTALLY AND PHYSICALLY HANDICAPPED, SKILLS UNLIMITED, INC.
12/5/68 INITIAL, \$25,200, OSPU
- 36B225 26.18 ACRES LAND AND 4 BLDGS AT SCHENECTADY ARMY DEPOT-SUPPORT SERVICE SYSTEM FOR STATE OF N.Y. INSTITUTION FOR MENTALLY ILL AND RETARDED, STATE DEPARTMENT OF MENTAL HYGIENE,
11/8/68, INITIAL, \$565,000, OSPU

CONSTRUCTION

- 36C005 COMMUNITY FACILITIES CONSTRUCTION, JEFFERSON COUNTY ARC TRAINING CENTER, WATERTOWN
6/27/69, INITIAL, \$269,366, SRS-DMR
- 36C010 COMMUNITY FACILITIES CONSTRUCTION, W.A.R.C. CENTER, WHITE PLAINS
6/27/69, INITIAL, \$402,000, SRS-DMR

OTHER

- 36D005 COORDINATION OF NEW YORK CITY MENTAL RETARDATION PROGRAMS MEDICAL AND HEALTH RESEARCH ASSOCIATION OF NEW YORK CITY, INC., NEW YORK
FY 1969, INITIAL, \$47,587, SRS-P
- 36D010 MR INITIAL STAFFING, ALBERT EINSTEIN COLLEGE OF MEDICINE OF YESHIVA UNIV., BRONX
11/1/69-10/31/70, INITIAL, \$87,545, SRS-DMR
- 36D015 MR INITIAL STAFFING, DEPARTMENT OF RECREATION, NEW YORK CITY
7/1/69-6/30/70, INITIAL, \$50,535, SRS-DMR
- 36D020 MR INITIAL STAFFING, HUNTS POINT MULTI-SERVICE CENTER CORPORATION, BRONX
7/1/69-6/30/70, INITIAL, \$77,591, SRS-DMR
- 36D025 MR INITIAL STAFFING, NY ARC, JEFFERSON COUNTY CHAPTER, INC., WATERTOWN
9/1/69-8/31/70, INITIAL, \$111,000, SRS-DMR
- 36D030 MR INITIAL STAFFING, NY ARC, MONROE COUNTY CHAPTER, ROCHESTER
1/1/70-12/31/70, INITIAL, \$127,312, SRS-DMR
- 36D035 MR INITIAL STAFFING, NY MEDICAL COLLEGE, FLOWER AND 5TH AVE. HOSPITALS, NEW YORK CITY
7/1/69-6/30/70, INITIAL, \$104,321, SRS-DMR
- 36D040 MR INITIAL STAFFING, NY STATE ASSOCIATION FOR RETARDED CHILDREN, INC., NEW CITY
9/1/69-8/31/70, INITIAL, \$13,200, SRS-DMR
- 36D045 MR INITIAL STAFFING, SHIELD OF DAVID, INC., BRONX
9/1/69-8/31/70, INITIAL, \$88,545, SRS-DMR
- 36D050 PARENT EDUCATION IN CHILD REARING PRACTICES FOR MENTALLY RETARDED CHILDREN ASSOCIATED YM-YWHAS OF GREATER NEW YORK, NEW YORK
FY 1969, RENEWAL, \$47,759 SRS-P
- 36D055 SATELLITE DAY CENTERS FOR RETARDED ADULTS ASSOCIATION FOR HELP OF RETARDED CHILDREN, NEW YORK
FY 1969, RENEWAL, \$88,550, SRS-P

NORTH CAROLINA

TRAINING

- 37B005 AUTOMATED DETECTION IN NEUROMETABOLIC DISEASES UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL
7/1/68-6/30/69, RENEWAL, \$100,533 SRS-CB

- 37B010 CENTER FOR SHORT-TERM TRAINING IN MENTAL RETARDATION UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL
3/1/69-2/28/70, RENEWAL, \$79,613, SRS-RSA
- 37B015 DEVELOPMENTAL EVALUATION CLINIC UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL
7/1/68-6/30/69, RENEWAL, \$298,914, SRS-CB
- 37B020 DEVELOPMENTAL EVALUATION CLINIC, BOWMAN GRAY SCHOOL OF MEDICINE, WINSTON-SALEM STATE BOARD OF HEALTH, RALEIGH
7/1/68-6/30/69, RENEWAL, \$124,434, SRS-CB
- 37B025 INSERVICE TRAINING CONTINUANCE FOR COTTAGE PARENTS MR WESTERN CAROLINA CENTER, MORGANTON
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR
- 37B030 INSERVICE TRAINING FOR COTTAGE LIFE PERSONNEL MR MURDOCH CENTER, BUTNER
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR
- 37B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN APPALACHIAN STATE TEACHERS COLLEGE, BOONE
FY 1969, RENEWAL, \$11,500
- 37B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN EAST CAROLINA COLLEGE, GREENVILLE
FY 1969, RENEWAL, \$33,900, OE
- 37B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, RALEIGH
14 1969, RENEWAL, \$56,700, OE
- 37B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL
FY 1969, RENEWAL, \$95,400, OE
- 37B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WESTERN CAROLINA COLLEGE, CULLOWHEE
FY 1969, RENEWAL, \$19,900, OE
- 37B060 TRAINING SERVICES GRANT WINSTON-SALEM GOODWILL INDUSTRIES REHAB CENTER INC. WINSTON-SALEM
6/25/69-6/24/70, RENEWAL, \$187,734, SRS-RSA

CONSTRUCTION

- 37C005 COMMUNITY FACILITIES CONSTRUCTION, DUKE CIVITAN DEVELOPMENTAL AND EVALUATION CLINIC, DURHAM
6/24/69, INITIAL, \$102,184, SRS-DMR
- 37C010 COMMUNITY FACILITIES CONSTRUCTION, GUILFORD COUNTY MENTAL RETARDATION COMPLEX, GREENSBORO
6/24/69, INITIAL, \$336,338, SRS-DMR
- 37C015 COMMUNITY FACILITIES CONSTRUCTION, MELKLENBURG CENTER FOR HUMAN DEVELOPMENT, CHARLOTTE
3/19/69, INITIAL, \$220,271, SRS-DMR

OTHER

- 37D005 COMPREHENSIVE DAY CARE PROGRAM FOR MENTALLY RETARDED DAY CARE CENTER-RETARDED, FAYETTEVILLE
FY 1969, RENEWAL, \$58,116, SRS-P
- 37D010 COMPREHENSIVE INDIVIDUAL TREATMENT PROGRAMMING ANALYSIS, WESTERN CAROLINA CENTER, MORGANTON
5/1/69-4/30/70, NEW, \$67,296, SRS-DMR
- 37D015 MITIGATION OF MENTAL RETARDATION THROUGH EARLY CARE AND MANAGEMENT OF CEREBRAL PALSIED INFANTS THE NORTH CAROLINA CEREBRAL PALSY HOSPITAL, DURHAM
FY 1969, RENEWAL, \$43,173, SRS-P
- 37D020 1MR INITIAL STAFFING, ALAMANCE CO. KINDERGARTEN FOR THE HANDICAPPED, INC., BURLINGTON
1/1/70-12/31/70, INITIAL, \$8,813, SRS-DMR
- 37D025 MR INITIAL STAFFING, BRYAN MEMORIAL DAY CARE CENTER, LUMBERTON
9/1/69-8/31/70, INITIAL, \$15,021, SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

37D030 MR INITIAL STAFFING, COLUMBUS CO. ASSOC. FOR RETARDED CHILDREN, WHITEVILLE
9/1/69-8/31/70, INITIAL, \$19,148, SRS-DMR

37D035 MR INITIAL STAFFING, DEVELOPMENT EVAL. CLINIC AND DAY CARE ACTIVITY CENTER, GREENVILLE
7/1/69-6/30/70, INITIAL, \$32,250, SRS-DMR

37D040 MR INITIAL STAFFING, GASTON COUNTY, GASTONIA
11/1/69-10/31/70, INITIAL, \$70,200, SRS-DMR

37D045 MR INITIAL STAFFING, GREENSBORO SHELTERED WORKSHOP, INC., GREENSBORO
7/1/69-6/30/70, INITIAL, \$17,085, SRS-DMR

37D050 MR INITIAL STAFFING, HIGH POINT KINDERGARTEN FOR THE HANDICAPPED, HIGH POINT
8/1/69-7/31/70, INITIAL, \$20,025, SRS-DMR

37D055 MR INITIAL STAFFING, IRENE WORTHAM DAY CARE CENTER, INC., ASHEVILLE
1/1/70-12/31/70, INITIAL, \$27,902, SRS-DMR

37D060 MR INITIAL STAFFING, MECKLENBURG COUNTY, CHARLOTTE
7/1/69-6/30/70, INITIAL, \$160,204, SRS-DMR

37D065 MR INITIAL STAFFING, VOCATIONAL TRADES OF ALAMANCE, INC., BURLINGTON
9/1/69-8/31/70, INITIAL, \$11,475, SRS-DMR

37D070 MR INITIAL STAFFING, WILKES DAY CARE ASSOCIATION, INC., NORTH WILKESBORO
7/1/69-6/30/70, INITIAL, \$27,000, SRS-DMR

37D075 THE REHABILITATION OF ANTISOCIAL RETARDATE, MURDOCH CENTER, BUTNER
2/1/69-1/31/70, RENEWAL, \$59,472, SRS-DMR

37D080 TRANSITION-BUFFER UNIT FOR MENTALLY RETARDED, WESTERN CAROLINA CENTER, MORGANTON
1/1/69-12/31/69, RENEWAL, \$32,704, SRS-DMR

NORTH DAKOTA

TRAINING

38B005 INSERVICE TRAINING IN BASIC NURSING CARE MR GRAFTON STATE SCHOOL, GRAFTON
7/1/69-6/30/70, INITIAL, \$25,000, SRS-DMR

38B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MINOT STATE COLLEGE, MINOT
FY 1969, RENEWAL, \$29,500. OE

38B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, BISMARCK
FY 1969, RENEWAL, \$30,960. OE

38B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF NORTH DAKOTA, GRAND FORKS
FY 1969, RENEWAL, \$5,600. OE

OTHER

38D005 EVALUATION CENTER FOR EXCEPTIONAL CHILDREN, UNIVERSITY OF NORTH DAKOTA MEDICAL CENTER, GRAND FORKS STATE DEPARTMENT OF HEALTH, BISMARCK
7/1/68-6/30/69, RENEWAL, \$99,009. SRS-CB

38D010 IN-PATIENT AND OUT-PATIENT SERVICES, GRAFTON STATE SCHOOL, GRAFTON
6/1/68-5/31/70, RENEWAL SRS-DMR

38D015 MR INITIAL STAFFING, MINOT SCHOOL FOR THE MENTALLY HANDICAPPED, MINOT
7/1/69-6/30/70, INITIAL, \$29,863, SRS-DMR

OHIO

TRAINING

39B005 CLINICAL PSYCHOLOGY TRAINING IN A MULTIDISCIPLINARY SETTING UNIVERSITY OF CINCINNATI, CINCINNATI
7/1/68-6/30/69, RENEWAL, \$60,612. SRS-CB

39B010 MENTAL RETARDATION TRAINING OHIO STATE UNIVERSITY, COLUMBUS
7/1/68-6/30/69, RENEWAL, \$337,155. SRS-CB

39B015 MENTAL RETARDATION TRAINING PROGRAM THE OHIO STATE UNIVERSITY, COLUMBUS
FY 1969, RENEWAL, \$65,399. SRS-P

39B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN
FY 1969, RENEWAL, \$47,600. OE

39B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN KENT STATE UNIVERSITY, KENT
FY 1969, RENEWAL, \$52,600. OE

39B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OHIO STATE UNIVERSITY, COLUMBUS
FY 1969, RENEWAL, \$82,700. OE

39B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OHIO UNIVERSITY, ATHENS
FY 1969, RENEWAL, \$26,800. OE

39B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, COLUMBUS
FY 1969, RENEWAL, \$94,000. OE

39B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF CINCINNATI, CINCINNATI
FY 1969, RENEWAL, \$102,800. OE

39B050 TRAINEESHIP IN MENTAL RETARDATION FOR G. R. MOSES OHIO STATE UNIVERSITY, COLUMBUS
FY 1969, INITIAL, \$5,085. SRS-P

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
7/1/68-6/30/69, RENEWAL, \$73,972. SRS-CB

39B065 TRAINING OF ATTENDANTS AND SUPERVISORY PERSONNEL MR COLUMBUS STATE SCHOOL, COLUMBUS
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR

39B070 TRAINING PROGRAM FOR DOCTORAL STUDENTS IN PSYCHOLOGY OHIO STATE UNIVERSITY, COLUMBUS
10/1/8-6/30/69, RENEWAL, \$40,118. SRS-CB

39B075 TRAINING PROGRAM IN MENTAL RETARDATION CASE WESTERN RESERVE UNIVERSITY, CLEVELAND
7/1/68-6/30/69, RENEWAL, \$41,071. SRS-CB

39B080 TRAINING SERVICES GRANT GOODWILL INDUSTRIES OF CENTRAL OHIO, COLUMBUS
6/25/69-6/24/70, RENEWAL, \$126,755. SRS-RSA

39B085 TREATMENT OF METABOLIC DISORDERS REQUIRING LONG. A CLINICAL TEAM APPROACH. CHILDREN'S HOSPITAL, CINCINNATI.
7/1/68-6/30/69, RENEWAL, \$53,050. SRS-CB

39B090 UNIVERSITY-AFFILIATED PROGRAM FOR THE MENTALLY RETARDED UNIVERSITY OF CINCINNATI, CINCINNATI
7/1/68-6/30/69, RENEWAL, \$537,186. SRS-CB

CONSTRUCTION

39C005 COMMUNITY FACILITIES CONSTRUCTION, DEVELOPMENTAL CENTER, CLEVELAND
6/27/69, INITIAL, \$608,000. SRS-DMR

39C010 COMMUNITY FACILITIES CONSTRUCTION, JEFFERSON COUNTY RETARDED CHILDREN'S SCHOOL, STEUBENVILLE
6/27/69, INITIAL, \$247,498. SRS-DMR

39C015 COMMUNITY FACILITIES CONSTRUCTION, KNOX COUNTY TRAINING CENTER, MOUNT VERNON
6/27/69, INITIAL, \$137,447. SRS-DMR

39C020 UNIVERSITY-AFFILIATED FACILITIES CONSTRUCTION THE OHIO STATE UNIVERSITY, COLUMBUS
1/28/69, INITIAL, \$3,600,000. SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

OTHER

- 39D005 DEVELOPMENT OF SELF-HELP SOCIAL SKILLS. COLUMBUS STATE SCHOOL, COLUMBUS 6/1/69-5/31/70, RENEWAL, \$85,373, SRS-DMR
- 39D010 MR INITIAL STAFFING, APPLE CREEK STATE HOSPITAL, APPLE CREEK 9/1/69-8/31/70, INITIAL, \$84,771, SRS-DMR
- 39D015 MR INITIAL STAFFING, BELMONT COUNTY BOARD OF MENTAL RETARDATION, ST. CLAIRSVILLE 9/1/69-8/31/70, INITIAL, \$19,869, 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, BROWN CO. BOARD OF MENTAL RETARDATION, MT. ORAB 9/1/69-8/31/70, INITIAL, \$18,975, SRS-DMR
- 39D030 MR INITIAL STAFFING, COLUMBIANA CO. BOARD OF MENTAL RETARDATION, LISBON 9/1/69-8/31/70, INITIAL, \$13,949, SRS-DMR
- 39D035 MR INITIAL STAFFING, CUYAHOGA CO. BOARD OF MENTAL RETARDATION, CLEVELAND 9/1/69-8/31/70, INITIAL, \$64,650, SRS-DMR
- 39D040 MR INITIAL STAFFING, DEPT. OF MENTAL RETARDATION, DIOCESE OF CLEVELAND, CLEVELAND 9/1/69-8/31/70, INITIAL, \$39,113, SRS-DMR
- 39D045 MR INITIAL STAFFING, FRANKLIN CO. BOARD OF MENTAL RETARDATION, COLUMBUS 7/1/69-6/30/70, INITIAL, \$69,075, SRS-DMR
- 39D050 MR INITIAL STAFFING, HELP FOR RETARDED CHILDREN, INC., EAST CLEVELAND 7/1/69-6/30/70, INITIAL, \$41,243, SRS-DMR
- 39D055 MR INITIAL STAFFING, LICKING CO. BOARD OF MENTAL RETARDATION, NEWARK 7/1/69-6/30/70, INITIAL, \$18,975, SRS-DMR
- 39D060 MR INITIAL STAFFING, LUCAS COUNTY BOARD OF MENTAL RETARDATION, TOLEDO 8/1/69-7/31/70, INITIAL, \$63,675, SRS-DMR
- 39D065 MR INITIAL STAFFING, RESIDENT HOME FOR THE MR OF HAMILTON CO. INC., CINCINNATI 9/1/69-8/31/70, INITIAL, \$11,250, SRS-DMR
- 39D070 TRI STATE PLANNING AND IMPLEMENTATION FOR MENTAL RETARDATION PUBLIC HEALTH FEDERATION, CINCINNATI FY 1969, RENEWAL, \$42,586, SRS-P

OKLAHOMA

TRAINING

- 40B005 DEVELOPING TRAINERS OF THE SEVERELY RETARDED MR ENID STATE SCHOOL, OKLAHOMA CITY 7/1/69-6/30/70, INITIAL, \$25,000, SRS-DMR
- 40B010 FIELD INSTRUCTION OF PHYSICAL THERAPY STUDENTS UNIVERSITY OF OKLAHOMA MEDICAL CENTER, OKLAHOMA CITY 9/1/68-8/31/69, RENEWAL, \$24,295, SRS-RSA
- 40B015 FORMAL TRAINING FOR PATIENT CARE PERSONNEL MR PAULS VALLEY STATE SCHOOL, PAULS VALLEY 7/1/68-6/30/70, RENEWAL, \$20,032, SRS-DMR
- 40B020 MENTAL RETARDATION TRAINEESHIP FOR DEAN LOCKWOOD, UNIVERSITY OF OKLAHOMA MEDICAL CENTER, OKLAHOMA CITY FY 1969, RENEWAL, \$5,460, SRS-P
- 40B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CENTRAL STATE COLLEGE, EDMOND FY 1969, RENEWAL, \$63,200, OE
- 40B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, OKLAHOMA CITY FY 1969, RENEWAL, \$78,900, OE
- 40B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF TULSA, TULSA FY 1969, RENEWAL, \$31,400, 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, CHILDRENS MEDICAL CENTER, TULSA 6/30/69, INITIAL, \$293,984, SRS-DMR

OTHER

- 40D005 CHILD STUDY CLINIC, TULSA CHILDREN'S MEDICAL CENTER STATE DEPARTMENT OF HEALTH, OKLAHOMA CITY 7/1/68-6/30/69, RENEWAL, \$104,070, SRS-CB
- 40D010 FACILITY IMPROVEMENT GRANT CHICKASHA OPPORTUNITY WORKSHOP AND TRAINING CENTER, CHICKASHA 5/1/69-4/30/70, RENEWAL, \$11,536, SRS-RSA
- 40D015 MR INITIAL STAFFING, CASADY SCHOOL, OKLAHOMA CITY 9/1/69-8/31/70, INITIAL, \$16,881, SRS-DMR
- 40D020 MR INITIAL STAFFING, CHILDREN'S MEDICAL CENTER, TULSA 7/1/69-6/30/70, INITIAL, \$57,925, SRS-DMR
- 40D025 TEACHING BASIC SKILLS TO THE SEVERELY RETARDED, ENID STATE SCHOOL, ENID 9/1/68-8/31/69, RENEWAL, \$74,553, SRS-DMR

OREGON

TRAINING

- 41B005 CLINICAL INSTRUCTION: INSTITUTIONAL RESIDENTIAL UNITS MR FAIRVIEW HOSPITAL AND TRAINING CENTER, SALEM 7/1/69-6/30/70, INITIAL, \$25,000, SRS-DMR
- 41B010 FIELD INSTRUCTION OF REHABILITATION STUDENTS UNIVERSITY OF OREGON, EUGENE 9/1/68-8/31/69, RENEWAL, \$19,816, 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
- 41B020 MATERNAL AND CHILD HEALTH SERVICES TRAINING PORTLAND STATE COLLEGE, PORTLAND 7/1/68-6/30/69, RENEWAL, \$45,230, SRS-CB
- 41B025 MENTAL RETARDATION TRAINING UNIVERSITY OF OREGON, PORTLAND 7/1/68-6/30/69, RENEWAL, \$413,619, SRS-CB
- 41B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN OREGON COLLEGE OF EDUCATION, MONMOUTH FY 1969, RENEWAL, \$43,900, OE
- 41B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN PORTLAND STATE COLLEGE, PORTLAND FY 1969, RENEWAL, \$51,700, OE
- 41B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, SALEM FY 1969, RENEWAL, \$7,942, OE
- 41B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF OREGON, EUGENE FY 1969, RENEWAL, \$97,700, OE
- 41B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF OREGON MEDICAL SCHOOL, PORTLAND 6/1/69-8/31/70, INITIAL, \$25,000, OE
- 41B055 REHABILITATION RESEARCH AND TRAINING CENTER UNIVERSITY OF OREGON, EUGENE 3/1/69-2/28/70, RENEWAL, \$266,234, SRS-ORDT
- 41B060 TRAINEESHIPS IN MENTAL RETARDATION UNIVERSITY OF OREGON, EUGENE 9/1/68-8/31/69, RENEWAL, \$34,191, SRS-RSA

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

OTHER

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| <p>41D005 DOUGLAS ASSOCIATION FOR RETARDED CHILDREN, ROSEBURG
5/15/69-5/14/70, INITIAL, \$4,000. SRS-RSA</p> <p>41D010 DOUGLAS ASSOCIATION FOR RETARDED CHILDREN, ROSEBURG
6/29/69-6/28/70, INITIAL, \$47,442. SRS-RSA</p> <p>41D015 FACILITY IMPROVEMENT GRANT OPEN DOOR, INC., CORVALLIS
6/1/69-5/31/70, RENEWAL, \$21,562. SRS-RSA</p> <p>41D020 FACILITY IMPROVEMENT GRANT OPEN DOOR, INC., CORVALLIS
6/25/69-6/24/70, RENEWAL, \$69,106. SRS-RSA</p> <p>41D025 GENETICS STUDY, PORTLAND UNIVERSITY OF OREGON MEDICAL SCHOOL, PORTLAND
7/1/68-6/30/69, RENEWAL, \$101,307. SRS-CB</p> <p>41D030 METABOLIC DISORDER SCREENING, PORTLAND STATE BOARD OF HEALTH, PORTLAND
7/1/68-6/30/69, RENEWAL, \$30,477. SRS-CB</p> <p>41D035 MENTAL RETARDATION TRAINEESHIP UNIVERSITY OF PORTLAND, PORTLAND
FY 1969, INITIAL, \$5,000. SRS-P</p> <p>41D040 MR INITIAL STAFFING, BENTON ASSN. FOR RETARDED CHILDREN, CORVALLIS
9/1/69-8/31/70, INITIAL, \$6,949. SRS-DMR</p> <p>41D045 MR INITIAL STAFFING, CLACKAMAS CHALLENGE CENTER, INC., MILWAUKIE
9/1/69-8/31/70, INITIAL, \$7,875. SRS-DMR</p> <p>41D050 MR INITIAL STAFFING, CORVALLIS SCHOOL DISTRICT 509J, CORVALLIS
9/1/69-8/31/70, INITIAL, \$23,391. SRS-DMR</p> <p>41D055 MR INITIAL STAFFING, LANE COUNTY ASSN. FOR RETARDED CHILDREN, EUGENE
9/1/69-8/31/70, INITIAL, \$14,231. SRS-DMR</p> <p>41D060 MR INITIAL STAFFING, PORTLAND CHILDREN'S CENTER, PORTLAND
9/1/69-8/31/70, INITIAL, \$7,920. SRS-DMR</p> <p>41D065 MR INITIAL STAFFING, TIMMY EDUCATIONAL CENTER, PORTLAND
9/1/69-8/31/70, INITIAL, \$13,695. SRS-DMR</p> <p>41D070 MR INITIAL STAFFING, UNITED CEREBRAL PALSY ASSN. OF NORTHWEST OREGON, INC., PORTLAND
9/1/69-8/31/70, INITIAL, \$9,240. SRS-DMR</p> <p>41D075 PREVENTION DIAGNOSIS AND MANAGEMENT OF MENTAL RETARDATION UNIVERSITY OF OREGON, EUGENE
FY 1969, INITIAL, \$5,472. SRS-P</p> <p>41D080 PROGRAMMING TO IMPROVE SOCIAL SKILLS OF RETARDATEES FAIRVIEW HOSPITAL AND TRAINING CENTER, SALEM
6/1/69-5/31/70, RENEWAL, \$100,000. SRS-DMR</p> <p>41D085 TRAINEESHIP ON MENTAL RETARDATION UNIVERSITY OF OREGON MEDICAL SCHOOL, PORTLAND
FY 1969, INITIAL, \$10,260. SRS-P</p> | <p>EDUCATION OF HANDICAPPED CHILDREN LOCK HAVEN STATE COLLEGE, LOCK HAVEN
FY 1969, RENEWAL, \$11,800. OE</p> <p>42B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MANSFIELD STATE COLLEGE, MANSFIELD
FY 1969, RENEWAL, \$18,000. OE</p> <p>42B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MARYWOOD COLLEGE, SCRANTON
FY 1969, RENEWAL, \$17,700. OE</p> <p>42B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MILLERSVILLE STATE COLLEGE, MILLERSVILLE
FY 1969, RENEWAL, \$47,600. OE</p> <p>42B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK
FY 1969, RENEWAL, \$95,200. OE</p> <p>42B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SLIPPERY ROCK STATE COLLEGE, SLIPPERY ROCK
FY 1969, RENEWAL, \$64,400. OE</p> <p>42B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, HARRISBURG
FY 1969, RENEWAL, \$71,500. OE</p> <p>42B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TEMPLE UNIVERSITY, PHILADELPHIA
FY 1969, RENEWAL, \$61,500. OE</p> <p>42B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF PITTSBURGH, PITTSBURGH
FY 1969, RENEWAL, \$37,100. OE</p> <p>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</p> <p>42B075 DEVELOP INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR EBENSBURG STATE SCHOOL AND HOSPITAL, EBENSBURG
7/1/69-6/30/70, RENEWAL, \$24,500. SRS-DMR</p> <p>42B080 DEVELOPMENTAL CLINIC, PITTSBURGH, CHILDREN'S HOSPITAL STATE DEPARTMENT OF HEALTH, HARRISBURG
7/1/68-6/30/69, RENEWAL, \$217,304. SRS-CB</p> <p>42B085 INSERVICE TRAINING FOR ATTENDANTS AND NURSING PERSONNEL MR LAURELTON STATE SCHOOL AND HOSPITAL, LAURELTON
7/1/69-6/30/70, RENEWAL, \$7,728. SRS-DMR</p> <p>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</p> <p>42B095 INSERVICE TRAINING FOR ENTIRE STAFF MR THE CRESSON STATE SCHOOL AND HOSPITAL, CRESSON
7/1/69-6/30/70, RENEWAL, \$20,150. SRS-DMR</p> <p>42B100 INTERNSHIPS FOR REHABILITATION COUNSELING AND PSYCHOLOGY STUDENTS THE DEVEREUX FOUNDATION, DEVON
9/1/68-8/31/69, RENEWAL, \$133,611. SRS-RSA</p> <p>42B105 PERSONNEL TRAINING FOR HANDICAPPED CHILDREN ST. CHRISTOPHER'S HOSPITAL, PHILADELPHIA
7/1/68-6/30/69, RENEWAL, \$367,471. SRS-CB</p> <p>42B110 PROVISION OF COMPREHENSIVE CARE TO CHILDREN WITH HANDICAPPING, PHYSICAL, AND/OR MENTAL DEFICITS, CHILDREN'S HOSPITAL OF PHILADELPHIA STATE DEPARTMENT OF HEALTH, HARRISBURG
7/1/68-6/30/69, RENEWAL, \$218,484. SRS-CB</p> <p>42B115 SOCIAL WORK FELLOWSHIPS IN MENTAL RETARDATION BRYN MAWR COLLEGE, BRYN MAWR
7/1/68-6/30/69, RENEWAL, \$20,100. SRS-CB</p> <p>42B120 TRAINING GRANT IN SUPPORT OF A CASEWORK UNIT IN MENTAL RETARDATION UNIVERSITY OF PITTSBURGH, PITTSBURGH
FY 1969, RENEWAL, \$41,413. SRS-P</p> <p>42B125 TRAINING SERVICES GRANT ELWYN INSTITUTE-REHABILITATION CENTER, ELWYN
3/15/69-3/14/70, RENEWAL, \$210,147. SRS-RSA</p> |
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PENNSYLVANIA

TRAINING

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| <p>42B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BLOOMSBURG STATE COLLEGE, BLOOMSBURG
FY 1969, RENEWAL, \$26,100. OE</p> <p>42B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN CLARION STATE COLLEGE, CLARION
FY 1969, RENEWAL, \$20,800. OE</p> <p>42B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN DUQUESNE UNIVERSITY, PITTSBURGH
FY 1969, RENEWAL, \$15,200. OE</p> <p>42B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN EDINBORO STATE COLLEGE, EDINBORO
FY 1969, RENEWAL, \$18,000. OE</p> <p>42B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE</p> | <p>EDUCATION OF HANDICAPPED CHILDREN LOCK HAVEN STATE COLLEGE, LOCK HAVEN
FY 1969, RENEWAL, \$11,800. OE</p> <p>42B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MANSFIELD STATE COLLEGE, MANSFIELD
FY 1969, RENEWAL, \$18,000. OE</p> <p>42B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MARYWOOD COLLEGE, SCRANTON
FY 1969, RENEWAL, \$17,700. OE</p> <p>42B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MILLERSVILLE STATE COLLEGE, MILLERSVILLE
FY 1969, RENEWAL, \$47,600. OE</p> <p>42B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK
FY 1969, RENEWAL, \$95,200. OE</p> <p>42B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SLIPPERY ROCK STATE COLLEGE, SLIPPERY ROCK
FY 1969, RENEWAL, \$64,400. OE</p> <p>42B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, HARRISBURG
FY 1969, RENEWAL, \$71,500. OE</p> <p>42B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN TEMPLE UNIVERSITY, PHILADELPHIA
FY 1969, RENEWAL, \$61,500. OE</p> <p>42B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF PITTSBURGH, PITTSBURGH
FY 1969, RENEWAL, \$37,100. OE</p> <p>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</p> <p>42B075 DEVELOP INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR EBENSBURG STATE SCHOOL AND HOSPITAL, EBENSBURG
7/1/69-6/30/70, RENEWAL, \$24,500. SRS-DMR</p> <p>42B080 DEVELOPMENTAL CLINIC, PITTSBURGH, CHILDREN'S HOSPITAL STATE DEPARTMENT OF HEALTH, HARRISBURG
7/1/68-6/30/69, RENEWAL, \$217,304. SRS-CB</p> <p>42B085 INSERVICE TRAINING FOR ATTENDANTS AND NURSING PERSONNEL MR LAURELTON STATE SCHOOL AND HOSPITAL, LAURELTON
7/1/69-6/30/70, RENEWAL, \$7,728. SRS-DMR</p> <p>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</p> <p>42B095 INSERVICE TRAINING FOR ENTIRE STAFF MR THE CRESSON STATE SCHOOL AND HOSPITAL, CRESSON
7/1/69-6/30/70, RENEWAL, \$20,150. SRS-DMR</p> <p>42B100 INTERNSHIPS FOR REHABILITATION COUNSELING AND PSYCHOLOGY STUDENTS THE DEVEREUX FOUNDATION, DEVON
9/1/68-8/31/69, RENEWAL, \$133,611. SRS-RSA</p> <p>42B105 PERSONNEL TRAINING FOR HANDICAPPED CHILDREN ST. CHRISTOPHER'S HOSPITAL, PHILADELPHIA
7/1/68-6/30/69, RENEWAL, \$367,471. SRS-CB</p> <p>42B110 PROVISION OF COMPREHENSIVE CARE TO CHILDREN WITH HANDICAPPING, PHYSICAL, AND/OR MENTAL DEFICITS, CHILDREN'S HOSPITAL OF PHILADELPHIA STATE DEPARTMENT OF HEALTH, HARRISBURG
7/1/68-6/30/69, RENEWAL, \$218,484. SRS-CB</p> <p>42B115 SOCIAL WORK FELLOWSHIPS IN MENTAL RETARDATION BRYN MAWR COLLEGE, BRYN MAWR
7/1/68-6/30/69, RENEWAL, \$20,100. SRS-CB</p> <p>42B120 TRAINING GRANT IN SUPPORT OF A CASEWORK UNIT IN MENTAL RETARDATION UNIVERSITY OF PITTSBURGH, PITTSBURGH
FY 1969, RENEWAL, \$41,413. SRS-P</p> <p>42B125 TRAINING SERVICES GRANT ELWYN INSTITUTE-REHABILITATION CENTER, ELWYN
3/15/69-3/14/70, RENEWAL, \$210,147. SRS-RSA</p> |
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CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

CONSTRUCTION

42C005 COMMUNITY FACILITIES CONSTRUCTION, LEHIGH VALLEY ARC, INC., ALLENTOWN
6/26/69, INITIAL, \$117,947. SRS-DMR

OTHER

42D005 IMPROVEMENT OF PSYCHO-SENSORY HABILITATION SERVICES, PENNHURST STATE SCHOOL AND HOSPITAL, SPRING CITY
6/1/68-5/31/70, RENEWAL, \$70,544, SRS-DMR

42D010 IMPROVING SELF-CONCEPT IN UNDIFFERENTIATED RETARDS, HAMBURG STATE SCHOOL AND HOSPITAL, HAMBURG
3/1/69-2/28/70, RENEWAL, \$91,702, SRS-DMR

42D015 LYCOMING COUNTY SOCIETY FOR RETARDED CHILDREN WILLIAMSPORT
6/30/69-6/29/70, INITIAL, \$6,570. SRS-RSA

42D020 MR INITIAL STAFFING, ASSOCIATION FOR RETARDED CHILDREN, BALDRICH
7/1/69-6/30/70, INITIAL, \$77,915, SRS-DMR

42D025 MR INITIAL STAFFING, CARBON CO. CHAPTER OF THE PA. ASSN. FOR RETARDED CHILDREN, JIM THORPE
9/1/69-8/31/70, INITIAL, \$9,075, SRS-DMR

42D030 MR INITIAL STAFFING, ERIE ASSN. FOR RETARDED CHILDREN, ERIE
10/1/69-9/30/70, INITIAL, \$114,202, 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

42D040 MR INITIAL STAFFING, JEFFERSON MEDICAL COLLEGE OF PHILADELPHIA, PHILADELPHIA
11/1/69-10/31/70, INITIAL, \$118,635, SRS-DMR

42D045 MR INITIAL STAFFING, KENSINGTON DISPENSARY, INC., PHILADELPHIA
7/1/69-6/30/70, INITIAL, \$10,170, SRS-DMR

42D050 MR INITIAL STAFFING, MC KEAN CO. ASSN. FOR RETARDED CHILDREN, INC., SMETHPORT
7/1/69-6/30/70, INITIAL, \$8,419, SRS-DMR

42D055 MR INITIAL STAFFING, PHILADELPHIA ASSN. FOR RETARDED CHILDREN, PHILADELPHIA
7/1/69-6/30/70, INITIAL, \$49,480, SRS-DMR

42D060 MR INITIAL STAFFING, ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN, PHILADELPHIA
9/1/69-8/31/70, INITIAL, \$29,833, SRS-DMR

42D065 MR INITIAL STAFFING, THE CONTRIBUTORS OF THE PA. HOSPITAL, PHILADELPHIA
11/1/69-10/31/70, INITIAL, \$85,838, SRS-DMR

42D070 MR INITIAL STAFFING, UPSAL DAY SCHOOL FOR BLIND CHILDREN, PHILADELPHIA
9/1/69-8/31/70, INITIAL, \$13,508, SRS-DMR

42D075 MR INITIAL STAFFING, WASHINGTON CO. CHAPTER PA. ASSN. FOR R.C., INC., WASHINGTON
9/1/69-8/31/70, INITIAL, \$12,324, SRS-DMR

42D080 PSYCHO-SOCIAL TREATMENT UNIT, WHITE HAVEN STATE SCHOOL AND HOSPITAL, WHITE HAVEN
1/1/69-12/31/69, RENEWAL, \$58,728, SRS-DMR

PUERTO RICO

TRAINING

43B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN DEPARTMENT OF EDUCATION, HATO REY, SAN JUAN
FY 1969, RENEWAL, \$21,600. OE

43B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF PUERTO RICO, RIO PIEDRAS, SAN JUAN
FY 1969, RENEWAL, \$32,600. OE

OTHER

43D005 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF PUERTO RICO, RIO PIEDRAS, SAN JUAN
6/15/69-6/14/70, RENEWAL, \$43,033. SRS-RSA

43D045 MR INITIAL STAFFING, INSTIUTO PSICOPEDAGAGICO DE PUERTO RICO, SAN JUAN
7/1/69-6/30/70, INITIAL, \$128,699, 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
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR

44B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN RHODE ISLAND COLLEGE, PROVIDENCE
FY 1969, RENEWAL, \$52,900. OE

44B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN RHODE ISLAND DEPARTMENT OF EDUCATION, PROVIDENCE
FY 1969, RENEWAL, \$11,200. OE

44B020 2.60 ACRES LAND AND 2 BLDGS, AT NAVAL RESERVE TRAINING CENTER, CASS PARK- CLASSROOMS, INCLUDING TRAINING OF MENTALLY RETARDED, CITY OF WOONSOCKETT 8/2/68 INITIAL, \$44,300. OGPU

CONSTRUCTION

44C005 COMMUNITY FACILITIES CONSTRUCTION, J.A. TRUDEAU MEMORIAL CENTER, WARWICK
6/30/69, INITIAL, \$227,896. SRS-DMR

OTHER

44D005 CHILD DEVELOPMENT CENTER, RHODE ISLAND HOSPITAL, PROVIDENCE STATE DEPARTMENT OF HEALTH, PROVIDENCE
7/1/68-6/30/69, RENEWAL, \$290,183. SRS-CB

44D010 DENTAL CARE PROGRAM FOR RETARDED CHILDREN, SAMUELS DENTAL CLINIC FOR CHILDREN, PROVIDENCE STATE DEPARTMENT OF HEALTH, PROVIDENCE
7/1/68-6/30/69, RENEWAL, \$53,500. SRS-CB

44D015 MR INITIAL STAFFING, GREATER PROVIDENCE CHAPTER, R.I. ASSN. FOR R.C., PROVIDENCE
9/1/69-8/31/70, INITIAL, \$35,801, SRS-DMR

44D020 REGIONAL DAY CARE CENTER DEMONSTRATION PROJECT RHODE ISLAND DEPARTMENT OF HEALTH, PROVIDENCE
FY 1969, INITIAL, \$79,769. SRS-P

SOUTH CAROLINA

TRAINING

45B005 DMR INDIVIDUAL TRAINEESHIP-WILLIAM WARD UNIVERSITY OF SOUTH CAROLINA, COLUMBIA
FY 1969, INITIAL, \$4,612. SRS-P

45B010 DMR INDIVIDUAL TRAINEESHIP-WILLIAM H. GOLDMAN UNIVERSITY OF SOUTH CAROLINA, COLUMBIA
FY 1969, INITIAL, \$8,905. SRS-P

45B015 INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR PINELAND STATE TRAINING SCHOOL AND HOSPITAL, COLUMBIA
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR

45B020 INSERVICE TRAINING FOR PATIENT CARE PERSONNEL MR SOUTH CAROLINA RETARDED CHILDREN'S HABILITATION CENTER, LADSON
7/1/69-6/30/70, RENEWAL, \$23,487, SRS-DMR

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 45B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN COLUMBIA COLLEGE, COLUMBIA
FY 1969, RENEWAL, \$11,200. OE
- 45B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN SOUTH CAROLINA STATE COLLEGE, ORANGEBURG
6/1/69-8/31/70, INITIAL, \$19,600. OE
- 45B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, COLUMBIA
FY 1969, RENEWAL, \$22,400. OE
- 45B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF SOUTH CAROLINA, COLUMBIA
FY 1969, RENEWAL, \$5,300. OE
- 45B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN WINTHROP COLLEGE, ROCK HILL
FY 1969, RENEWAL, \$9,000. OE
- 45B050 TRAINING SERVICES GRANT SOUTH CAROLINA VOCATIONAL REHABILITATION AGENCY, COLUMBIA
6/25/69-6/24/70, RENEWAL \$92,849, SRS-RSA

OTHER

- 45D005 A DEVELOPMENTAL ACTIVITIES PROGRAM FOR THE MR AT PINELAND STATE TRAINING SCHOOL AND HOSPITAL, COLUMBIA
3/1/69-2/28/70, NEW, \$100,000, SRS-DMR
- 45D010 CHILD EVALUATION CLINIC, COLUMBIA STATE BOARD OF HEALTH, COLUMBIA
7/1/68-6/30/69, RENEWAL, \$30,000, SRS-CB
- 45D015 DEVELOPMENTAL TEAM FOR SEVERELY - PROFOUNDLY RETARDED, SOUTH CAROLINA RETARDED CHILDREN'S HABILITATION, LADSON
6/25/69-5/31/70, NEW, \$90,061, SRS-DMR
- 45D020 MR INITIAL STAFFING, MIDLANDS ASSN. FOR RETARDED CHILDREN, COLUMBIA
9/1/69-8/31/70, INITIAL, \$18,000, SRS-DMR
- 45D025 MR INITIAL STAFFING, SOUTH CAROLINA DEPT. OF MENTAL RETARDATION, COLUMBIA
7/1/69-6/30/70, INITIAL, \$63,465, SRS-DMR
- 45D030 PINELAND REHABILITATION AND PHYSICAL MEDICINE CENTER COLUMBIA
6/12/69, INITIAL, \$205,399 HSMHA-HFPCS
- 45D035 SOCIALIZATION, HABILITATION, INTENSIFICATION PROGRAM, WHITTEN VILLAGE, CLINTON
6/25/69-5/31/70, NEW, \$89,144, SRS-DMR
- 45D040 UNIVERSITY TRAINING IN MENTAL RETARDATION UNIVERSITY OF SOUTH CAROLINA, COLUMBIA
FY 1969, RENEWAL, \$48,842, SRS-P

SOUTH DAKOTA

TRAINING

- 46B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN AUGUSTANA COLLEGE, SIOUX FALLS
FY 1969, RENEWAL, \$12,400. OE
- 46B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BLACK HILLS, SPEARFISH
FY 1969, RENEWAL, \$14,900. OE
- 46B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN NORTHERN STATE COLLEGE, ABERDEEN
6/1/69-8/31/70, INITIAL, \$8,400. OE
- 46B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF PUBLIC INSTRUCTION, PIERRE
FY 1969, RENEWAL, \$16,600. OE
- 46B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF SOUTH DAKOTA, VERMILLION
FY 1969, RENEWAL, \$31,100. OE

OTHER

- 46D005 FACILITY IMPROVEMENT GRANT BLACK HILLS WORKSHOP SCHOOL, RAPID CITY
6/25/69-6/24/70, RENEWAL, \$28,960, SRS-RSA
- 46D010 MR INITIAL STAFFING, SIOUX VOCATIONAL SCHOOL FOR THE HANDICAPPED, SIOUX FALLS
7/1/69-6/30/70, INITIAL, \$15,600, SRS-DMR
- 46D015 POTENTIALS DEVELOPMENT FOR INDEPENDENT LIVING, REDFIELD STATE HOSPITAL AND SCHOOL, REDFIELD
9/1/68-8/31/69, RENEWAL, \$98,068, SRS-DMR

TENNESSEE

TRAINING

- 47B005 CHILD DEVELOPMENT CENTER UNIVERSITY OF TENNESSEE, MEMPHIS
7/1/68-6/30/69, RENEWAL, \$578,336, SRS-CB
- 47B010 DIAGNOSTIC AND TRAINING LABORATORY IN MENTAL RETARDATION MEHARRY MEDICAL COLLEGE, NASHVILLE
1/1/69-12/31/69, RENEWAL, \$114,718 SRS-CB
- 47B015 GENETICS LABORATORY UNIVERSITY OF TENNESSEE, MEMPHIS
7/1/68-6/30/69, RENEWAL, \$58,982, SRS-CB
- 47B020 MENTAL RETARDATION INDIVIDUAL TRAINEESHIP UNIVERSITY OF TENNESSEE, NASHVILLE
FY 1969, INITIAL, \$3,633, SRS-P
- 47B025 MENTAL RETARDATION TRAINING FOR GRADUATE PSYCHOLOGY STUDENTS MEMPHIS STATE UNIVERSITY, MEMPHIS
FY 1969, RENEWAL, \$75,002, SRS-P
- 47B030 MENTAL RETARDATION TRAINEESHIP FOR DR. WILLIAM MC COLLUM MEHARRY MEDICAL SCHOOL, NASHVILLE
FY 1969, INITIAL, \$11,880, SRS-P
- 47B035 IMPROVE TRAINING FOR ATTENDANT PERSONNEL MR CLOVER BOTTOM HOSPITAL AND SCHOOL, DONELSON
7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR
- 47B040 INSERVICE TRAINING FOR ALL DIRECT CARE EMPLOYEES MR GREENE VALLEY HOSPITAL AND SCHOOL, GREENEVILLE
7/1/68-8/31/69, RENEWAL, \$23,425 SRS-DMR
- 47B045 INSERVICE TRAINING - INITIAL COMPREHENSIVE PROGRAM MR ARLINGTON HOSPITAL AND SCHOOL, ARLINGTON
7/1/69-6/30/70, INITIAL, \$20,771, SRS-DMR
- 47B050 POSTGRADUATE TRAINING IN CHILDREN'S DENTISTRY UNIVERSITY OF TENNESSEE, MEMPHIS
7/1/68-6/30/69, RENEWAL, \$107,018 SRS-CB
- 47B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN GEORGE PEABODY COLLEGE COLLEGE, NASHVILLE
FY 1969, RENEWAL, \$76,600. OE
- 47B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN MEMPHIS STATE UNIVERSITY, MEMPHIS
FY 1969, RENEWAL, \$32,000. OE
- 47B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN STATE DEPARTMENT OF EDUCATION, NASHVILLE
FY 1969, RENEWAL, \$73,100. OE
- 47B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF TENNESSEE, KNOXVILLE
FY 1969, RENEWAL, \$11,800. OE
- 47B075 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF TENNESSEE, MEMPHIS
6/1/69-8/31/70, INITIAL, \$30,000. OE
- 47B080 TECHNICAL PROFICIENCY AND EXPANDED SERVICES IN CHROMOSOME ANALYSIS VANDERBILT UNIVERSITY, NASHVILLE
7/1/68-6/30/69, RENEWAL, \$37,179, SRS-CB

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

TEXAS

TRAINING

- 47B085 TRAINING IN MENTAL RETARDATION FOR A
BACCALAUREATE NURSING UNIVERSITY OF
TENNESSEE, MEMPHIS
FY 1969, RENEWAL, \$34,120. SRS-P
- 47B090 TRAINING UNIT FOR MENTALLY RETARDED CHILDREN
IN A NEIGHBORHOOD COMMUNITY CENTER
UNIVERSITY OF TENNESSEE SCHOOL OF SOCIAL
WORK, NASHVILLE
7/1/68-6/30/69, RENEWAL, \$15,444. SRS-CB
- 47B095 2.72 ACRES OF LAND AT OAK RIDGE, AEC,-
PLAYGROUND AND PHYSICAL EDUCATION
ACTIVITIES OF ADJOINING EMORY VALLEY SCHOOL
FOR MENTALLY RETARDED, ANDERSON COUNTY
BOARD OF EDUCATION;
8/6/68 INITIAL, \$4,000. OSPU

CONSTRUCTION

- 47C005 COMMUNITY FACILITIES CONSTRUCTION, ANDERSON
COUNTY TRAINING CENTER AND WORKSHOP, OAK
RIDGE
6/27/69, INITIAL, \$51,508. SRS-DMR

OTHER

- 47D005 COMMUNITY DAY CARE CENTER PROGRAM
METROPOLITAN HEALTH DEPARTMENT, NASHVILLE
FY 1969, RENEWAL, \$31,457. SRS-P
- 47D010 DIAGNOSTIC AND DEMONSTRATION CLINIC IN
MENTAL RETARDATION MEHARRY MEDICAL
COLLEGE, NASHVILLE
FY 1969, RENEWAL, \$97,965. SRS-P
- 47D015 ENVIRONMENTAL SERVICE SEVERLY RETARDED-NON
AMBULATORY CLOVER BOTTOM HOSPITAL-SCHOOL,
DONELSON
FY 1969, RENEWAL, \$77,452. SRS-P
- 47D020 INTENSIVE TRAINING IN BASIC SELF-CARE AND SOCIAL
SKILLS, CLOVER BOTTOM HOSPITAL AND SCHOOL,
DONELSON
9/1/68-8/31/69, RENEWAL, \$58,326. SRS-DMR
- 47D025 MR INITIAL STAFFING, CLOVER BOTTOM HOSPITAL
AND SCHOOL, DONELSON
10/1/69-9/30/70, INITIAL, \$33,825. SRS-DMR
- 47D030 MR INITIAL STAFFING, CORDELL HULL ECONOMIC
OPPORTUNITY CORP., LAFAYETTE
7/1/69-6/30/70, INITIAL, \$127,022. SRS-DMR
- 47D035 MR INITIAL STAFFING, DAWN OF HOPE DEVELOPMENT
CENTER, INC., JOHNSON CITY
7/1/69-6/30/70, INITIAL, \$36,786. SRS-DMR
- 47D040 MR INITIAL STAFFING, DE KALB COUNTY BOARD OF
EDUCATION, SMITHVILLE
7/1/69-6/30/70, INITIAL, \$42,685. SRS-DMR
- 47D045 MR INITIAL STAFFING, JACKSON DAY CARE CENTER,
JACKSON
7/1/69-6/30/70, INITIAL, \$23,135. SRS-DMR
- 47D050 MR INITIAL STAFFING, ORANGE GROVE CENTER FOR
THE RETARDED, INC., CHATTANOOGA
8/1/69-7/31/70, INITIAL, \$40,500. 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
- 47D060 MR INITIAL STAFFING, TEAM EVALUATION CENTER,
INC., CHATTANOOGA
7/1/69-6/30/70, INITIAL, \$12,735. SRS-DMR
- 47D065 ORANGE GROVE CENTER FOR THE RETARDED INC
CHATTANOOGA
5/26/69, INITIAL, \$332,654 HSMHA-HFPCS
- 47D070 TRAINING FOR OLDER SEVERELY AND PROFOUNDLY
RETARDED, GREENE VALLEY HOSPITAL AND
SCHOOL, NASHVILLE
2/1/69-1/31/70, INITIAL, \$97,287. SRS-DMR
- 47D075 TEAM EVALUATION CENTER FOR THE MULTIPLE
HANDICAPPED STATE DEPARTMENT OF PUBLIC
HEALTH, NASHVILLE
7/1/68-6/30/69, RENEWAL, \$86,925. SRS-CB

- 48B005 ACADEMIC PEDIATRICS UNIVERSITY OF TEXAS,
GALVESTON
7/69-6/70, FY 1969, INITIAL, \$45,144. NICHD
- 48B010 DIAGNOSTIC AND EVALUATION CENTER FOR
MENTALLY RETARDED CHILDREN UNIVERSITY OF
TEXAS, DALLAS
7/1/68-6/30/69, RENEWAL, \$163,465. SRS-CB
- 48B015 EDUCATION PROGRAM FOR ALL RESIDENTIAL
COUNSELORS MR RICHMOND STATE SCHOOL,
RICHMOND
7/1/69-6/30/70, RENEWAL, \$24,059. SRS-DMR
- 48B020 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
UNIVERSITY OF TEXAS, AUSTIN
9/1/68-8/31/69, RENEWAL, \$28,301. SRS-RSA
- 48B025 GRADUATE SOCIAL WORK STUDENT TRAINING
PROJECT IN MENTAL RETARDATION WORDEN
SCHOOL OF SOCIAL SERVICE, SAN ANTONIO
FY 1969, RENEWAL, \$47,604. SRS-P
- 48B030 IMPROVE INSERVICE TRAINING PROGRAM OF
INSTITUTION MR DENTON STATE SCHOOL, DENTON
7/1/69-6/30/70, RENEWAL, \$22,389. SRS-DMR
- 48B035 INSERVICE TRAINING FOR ALL LEVELS OF ATTENDANT
PERSONNEL MR ABILENE STATE SCHOOL, ABILENE
7/1/69-6/30/70, RENEWAL, \$25,000. 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
7/1/69-6/30/70, INITIAL, MR05127-01, \$21,223. SRS-DMR
- 48B050 INSERVICE TRAINING PROGRAM FOR ATTENDANT
PERSONNEL MR TRAVIS STATE SCHOOL, AUSTIN
7/1/69-6/30/70, RENEWAL, MR05025-06, \$23,700. SRS-DMR
- 48B055 MENTAL EVALUATION CLINIC BAYLOR UNIVERSITY,
HOUSTON
7/1/68-6/30/69, RENEWAL, \$321,617. SRS-CB
- 48B060 MENTAL RETARDATION TRAINEESHIP FOR ALBERT M
TATE, DDS BAYLOR UNIVERSITY COLLEGE OF
DENTISTRY, DALLAS
FY 1969, INITIAL, \$8,338. SRS-P
- 48B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN EAST
TEXAS STATE UNIVERSITY, COMMERCE
FY 1969, RENEWAL, \$20,200. OE
- 48B070 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
INCARNATE WORD COLLEGE, SAN ANTONIO
FY 1969, RENEWAL, \$17,700. OE
- 48B075 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN LAMAR
STATE COLLEGE OF TECHNOLOGY, BEAUMONT
FY 1969, RENEWAL, \$11,800. OE
- 48B080 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
MIDWESTERN UNIVERSITY, WICHITA FALLS
6/1/69-8/31/70, INITIAL, \$19,000. OE
- 48B085 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN PRAIRIE
VIEW A.E.M., PRAIRIE VIEW
FY 1969, RENEWAL, \$5,600. OE
- 48B090 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
SOUTHWEST TEXAS STATE COLLEGE, SAN MARCOS
6/1/69-8/31/70, INITIAL, \$14,000. OE
- 48B095 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
EDUCATION AGENCY, AUSTIN
FY 1969, RENEWAL, \$45,000. OE
- 48B100 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN TEXAS
TECHNOLOGY COLLEGE, LUBBOCK
FY 1969, RENEWAL, \$36,700. OE
- 48B105 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN TEXAS
WOMEN'S UNIVERSITY, DENTON
FY 1969, RENEWAL, \$41,700. OE

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 48B110 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF HOUSTON, HOUSTON
FY 1969, RENEWAL, \$33,900. OE
- 48B115 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN UNIVERSITY OF TEXAS, AUSTIN
FY 1969, RENEWAL, \$100,500. 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
7/1/68-6/30/69, RENEWAL, \$45,993. SRS-CB
- 48B135 TRAINING IN COMPREHENSIVE HEALTH SERVICES FOR CHILDREN UNIVERSITY OF TEXAS, DALLAS
7/1/68-6/30/69, RENEWAL, \$89,584. SRS-CB
- 48B140 TRAINING IN INTERDISCIPLINARY COMPREHENSIVE CHILD HEALTH SERVICES FOR THE HANDICAPPED UNIVERSITY OF TEXAS, GALVESTON
7/1/68-6/30/69, RENEWAL, \$128,417. SRS-CB
- 48B145 TRAINING OF ATTENDANT AND SUPERVISORY PERSONNEL MR LUFKIN STATE SCHOOL, LUFKIN
7/1/69-6/30/70, RENEWAL, \$21,568. SRS-DMR

CONSTRUCTION

- 48C005 COMMUNITY FACILITIES CONSTRUCTION, MARY LEE SCHOOL OF SPECIAL EDUCATION, AUSTIN
6/27/69, INITIAL, \$95,872. SRS-DMR
- 48C010 COMMUNITY FACILITIES CONSTRUCTION, RICHMOND STATE SCHOOL, RICHMOND
6/30/69, INITIAL, \$175,131. SRS-DMR
- 48C015 COMMUNITY FACILITIES CONSTRUCTION, ST. JOSEPHS HOSPITAL, EL PASO
2/24/69, INITIAL, \$349,730. SRS-DMR

OTHER

- 48D005 CHILD DEVELOPMENT AND TRAINING SERVICE, DENTON STATE SCHOOL, DENTON
6/1/69-5/31/70, RENEWAL, \$84,949. SRS-DMR
- 48D010 COMMUNITY APPROACH IN MANAGEMENT OF DENTAL DISEASE RETARDED HARRIS COUNTY CENTER FOR RETARDED, HOUSTON
FY 1969, RENEWAL, \$50,167. SRS-P
- 48D015 COOPERATIVE REGIONAL APPROACH TO DAY CARE PROGRAMS TEXAS DEPARTMENT OF MENTAL HEALTH AND MENTAL RETARDATION, AUSTIN FY 1969, RENEWAL, \$72,858 SRS
- 48D020 DEMONSTRATION PROJECT TO FOSTER PHYSICAL EDUCATION AND RECREATION PROGRA FOR MENTALLY RETARDED TEXAS DEPARTMENT OF MENTAL HEALTH AND MENTAL RETARDATION, AUSTIN
FY 1969, INITIAL, \$72,107. SRS-P
- 48D025 DEVELOP INFORMATION-EDUCATION AND REFERRAL SERVICE FOR STATE TEXAS DEPARTMENT OF MENTAL HEALTH-RETARDATION, AUSTIN
FY 1969, RENEWAL, \$81,521. SRS-P
- 48D030 DEVELOPMENTAL RECREATION PROGRAM FOR MENTAL RETARDEES ABILENE STATE SCHOOL, ABILENE
FY 1969, RENEWAL, \$82,717. SRS-P
- 48D035 FACILITY IMPROVEMENT GRANT HARRIS COUNTY CENTER FOR THE RETARDED, INC., HOUSTON
4/1/69-3/31/70, RENEWAL, \$19,451. SRS-RSA
- 48D040 IMPROVE AND EXPAND DIAGNOSTIC EVALUATION AND PREVENTIVE SERVICES FOR MENTALLY RETARDED CHILDREN INCARNATE WORD COLLEGE, SAN ANTONIO
FY 1969, RENEWAL, \$78,040. SRS-P
- 48D045 INTENSIVE SOCIALIZATION PROGRAM FOR MILDLY RETARDED, AUSTIN STATE SCHOOL, AUSTIN
6/1/69-5/31/70, RENEWAL, \$89,425. SRS-DMR

- 48D050 LUFKIN COUNCIL FOR RETARDED CHILDREN LUFKIN
10/1/68-9/30/69, INITIAL, \$3,780. SRS RSA
- 48D055 MR INITIAL STAFFING, BAYTOWN OPPORTUNITY CENTER, BAYTOWN
9/1/69-8/31/70, INITIAL, \$16,470. SRS-DMR
- 48D060 MR INITIAL STAFFING, DALLAS COUNTY M.H. AND MR CENTER, DALLAS
9/1/69-8/31/70, INITIAL, \$17,629. SRS-DMR
- 48D065 MR INITIAL STAFFING, DALLAS REHABILITATION INSTITUTE, DALLAS,
9/1/69-8/31/70, INITIAL, \$71,100. SRS-DMR
- 48D070 MR INITIAL STAFFING, GREATER TEXARKANA MENTAL HEALTH ASSN., INC., TEXARKANA
2/1/70-1/31/71, INITIAL, \$70,529. SRS-DMR
- 48D075 MR INITIAL STAFFING, HARRIS CO. M.H. AND MR BOARD OF TRUSTEES, HOUSTON
9/1/69-8/31/70, INITIAL, \$49,216. SRS-DMR
- 48D080 MR INITIAL STAFFING, HARRIS COUNTY CENTER FOR THE RETARDED, INC., HOUSTON
9/1/69-8/31/70, INITIAL, \$53,544. SRS-DMR
- 48D085 MR INITIAL STAFFING, HIGH PLAINS CHILDREN'S TRNG. CTR. AND SHELTERED WORKSHOP, PLAINVIEW
9/1/69-8/31/70, INITIAL, \$23,003. SRS-DMR
- 48D090 MR INITIAL STAFFING, M.H. MR CENTER/AUSTIN-TRAVIS COUNTY, AUSTIN
9/1/69-8/31/70, INITIAL, \$158,730. SRS-DMR
- 48D095 MR INITIAL STAFFING, MARBRIDGE FOUND. FOR RETARDED CHILDREN, INC., AUSTIN
9/1/69-8/31/70, INITIAL, \$12,375. SRS-DMR
- 48D100 MR INITIAL STAFFING, MARY LEE SCHOOL OF SPECIAL EDUCATION, AUSTIN
10/1/69-9/30/70, INITIAL, \$40,129. SRS-DMR
- 48D105 MR INITIAL STAFFING, SMITH-WOOD CO. CTR. FOR M.H. AND MR SERVICES, TYLER
11/1/69-10/31/70, INITIAL, \$47,348. SRS-DMR
- 48D110 MR INITIAL STAFFING, SOUTH TEXAS REGIONAL WORKSHOP, INC., LAREDO
9/1/69-8/31/70, INITIAL, \$28,080. SRS-DMR
- 48D115 MR INITIAL STAFFING, ST. ANTHONY'S SPECIAL EDUCATION SCHOOL, SAN ANTONIO
8/1/69-7/31/70, INITIAL, \$32,850. SRS-DMR
- 48D120 MR INITIAL STAFFING, WACO-MC LENNAN CO. M.H.-MR CENTER, WACO
9/1/69-8/31/70, INITIAL, \$42,277. SRS-DMR
- 48D125 PHYSICAL DEVELOPMENT PROGRAM FOR MENTAL RETARDATES ABILENE STATE SCHOOL, ABILENE
9/1/68-8/31/69, RENEWAL, \$45,148. SRS-DMR
- 48D130 PHYSICAL DEVELOPMENT PROGRAM SEMI-AMBULANT RETARDED, RICHMOND STATE SCHOOL, RICHMOND
6/1/69-5/31/70, NEW, \$97,599. SRS-DMR
- 48D135 REHABILITATION OF INTRACTABLE DEFECTIVE DELINQUENTS, MEXIA STATE SCHOOL, MEXIA
6/15/69-6/14/70, NEW, \$97,291. SRS-DMR
- 48D140 RESIDENT TRAINING PROJECT, LUFKIN STATE SCHOOL, LUFKIN
12/1/68-11/30/69, RENEWAL, \$100,000. SRS-DMR
- 48D145 SOCIAL DEVELOPMENT PROGRAM FOR MENTAL RETARDATES, ABILENE STATE SCHOOL, ABILENE
9/1/68-8/31/69, RENEWAL, \$51,552. SRS-DMR
- 48D150 UNIT APPROACH TO INSTITUTIONAL PROGRAMMING, TRAVIS STATE SCHOOL, AUSTIN
6/15/69-6/14/70, NEW, \$100,000. SRS-DMR

UTAH

TRAINING

- 49B005 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS UNIVERSITY OF UTAH, SALT LAKE CITY
9/1/68-8/31/69, RENEWAL, \$27,723. SRS-RSA
- 49B010 INSERVICE TRAINING FOR ATTENDANT PERSONNEL MR UTAH STATE TRAINING SCHOOL, AMERICAN FORK
7/1/69-6/30/70, RENEWAL, \$24,450. SRS-DMR
- 49B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE EDUCATION OF HANDICAPPED CHILDREN BRIGHAM

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- YOUNG UNIVERSITY, PROVO
FY 1969, RENEWAL, \$19,600. OE
- 49B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN OFFICE OF
THE STATE SUPERINTENDENT OF PUBLIC
INSTRUCTION, SALT LAKE CITY
FY 1969, RENEWAL, \$12,300. OE
- 49B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF UTAH, SALT LAKE CITY
FY 1969, RENEWAL, \$82,200. OE
- 49B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN UTAH
STATE UNIVERSITY OF AGRICULTURE APPLIED
SCIENCES, LOGAN
FY 1969, RENEWAL, \$17,100. OE

CONSTRUCTION

- 49C005 COMMUNITY FACILITIES CONSTRUCTION, UTAH STATE
TRAINING SCHOOL, AMERICAN FORK
6/30/69, INITIAL, \$109,768. SRS-DMR

OTHER

- 49D005 INTENSIVE HABIT-TRAINING CENTER, UTAH STATE
TRAINING SCHOOL, AMERICAN FORK
3/1/69-2/28/70, RENEWAL, \$90,216. SRS-DMR
- 49D010 MR INITIAL STAFFING, GRANITE SCHOOL DISTRICT,
SALT LAKE CITY
9/1/69-8/31/70, INITIAL, \$17,175. SRS-DMR
- 49D015 MR INITIAL STAFFING, HOLLADAY CHILDREN'S
CENTER, INC., SALT LAKE CITY
7/1/69-6/30/70, INITIAL, \$9,398. SRS-DMR
- 49D020 MR INITIAL STAFFING, UTAH VALLEY CARE AND
TRAINING CENTER, PROVO
7/1/69-6/30/70, INITIAL, \$9,515. SRS-DMR

VERMONT

TRAINING

- 50B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, MONTPELIER
FY 1969, RENEWAL, \$23,400. OE
- 50B010 STAFF DEVELOPMENT TRAINING PROGRAM MR
BRANDON TRAINING SCHOOL, BRANDON
7/1/69-6/30/70, INITIAL, \$22,572. SRS-DMR

CONSTRUCTION

- 50C005 VERMONT SHELTERED WORKSHOP MONTPELIER
FY 1969, INITIAL, \$27,082. SRS-RSA

OTHER

- 50D005 HEALTH-CARE AND REHABILITATION SERVICES OF
SOUTHEASTERN VERMONT WEST DOVER
4/1/69-3/31/70, INITIAL, \$4,500. SRS-RSA
- 50D010 MR INITIAL STAFFING, RUTLAND MENTAL HEALTH
SERVICE, INC., RUTLAND
7/1/69-6/30/70, INITIAL, \$12,000. SRS-DMR
- 50D015 PHYSICAL THERAPY AND RECREATIONAL THERAPY
IMPROVEMENT, BRANDON TRAINING SCHOOL,
BRANDON
6/1/69-5/31/70, RENEWAL, \$51,842. 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
6/1/69-5/31/70, RENEWAL, \$17,289. 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
- 51B015 SOCIAL WORK-MENTAL RETARDATION VIRGINIA
COMMONWEALTH UNIVERSITY, RICHMOND
FY 1969, RENEWAL, \$23,493. NIMH

CONSTRUCTION

- 51C005 COMMUNITY FACILITIES CONSTRUCTION, WOODROW
WILSON REHABILITATION CENTER, FISHERVILLE
3/69, INITIAL, \$190,094. SRS-DMR
- 51C010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN COLLEGE
OF WILLIAM AND MARY, WILLIAMSBURG
6/1/69-8/31/70, INITIAL, \$2,000. OE
- 51C015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN OLD
DIMINION, NORFOLK
FY 1969, RENEWAL, \$31,400. OE
- 51C020 PREPARATION OF PROFESSIONAL PERSONNEL OF THE
EDUCATION OF HANDICAPPED CHILDREN RADFORD
COLLEGE, RADFORD
FY 1969, RENEWAL, \$14,900. OE
- 51C025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
BOARD OF EDUCATION, RICHMOND
FY 1969, RENEWAL, \$46,925. OE
- 51C030 PREPARATION OF PROFESSIONAL PERSONNEL OF THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE
FY 1969, RENEWAL, \$42,500. OE
- 51C035 PREPARATION OF PROFESSIONAL PERSONNEL OF THE
EDUCATION OF HANDICAPPED CHILDREN VIRGINIA
COMMONWEALTH UNIVERSITY, RICHMOND
FY 1969, RENEWAL, \$42,000. OE
- 51C040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN VIRGINIA
STATE COLLEGE, NORFOLK
FY 1969, RENEWAL, \$23,600. OE
- 51C045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN VIRGINIA
STATE COLLEGE, PETERSBURG
FY 1969, RENEWAL, \$20,500. OE

OTHER

- 51D005 CHILD EVALUATION CLINIC, NORFOLK STATE
DEPARTMENT OF HEALTH, RICHMOND
7/1/68-6/30/69, RENEWAL, \$12,985. SRS-CB
- 51D010 CHILDREN'S MULTIPLE HANDICAPPED DIAGNOSTIC
AND TREATMENT EVALUATION CENTER,
UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE STATE
DEPARTMENT OF HEALTH, RICHMOND 7/1/68-6/30/69,
RENEWAL, \$211,030. SRS-CB
- 51D015 CONSULTATION AND EVALUATION CLINIC, RICHMOND
STATE DEPARTMENT OF HEALTH, RICHMOND
7/1/68-6/30/69, RENEWAL, \$137,301. SRS-CB
- 51D020 CONSULTATION AND EVALUATION CLINIC, ROANOKE
STATE DEPARTMENT OF HEALTH, RICHMOND
7/1/68-6/30/69, RENEWAL, \$20,571. SRS-CB
- 51D025 DAY CARE CENTER MENTALLY RETARDED CHILDREN
AND ADULTS TIDEWATER ASSOCIATION FOR
RETARDED CHILDREN, NORFOLK
FY 1969, INITIAL, \$62,129. SRS-P
- 51D030 DEMONSTRATION DAYTIME DEVELOPMENT CENTER
PROJECT SUBURBAN COMMUNITY FAIRFAX COUNTY
HEALTH DEPARTMENT, FAIRFAX
FY 1969, RENEWAL, \$68,044. SRS-P
- 51D035 FACILITY IMPROVEMENT GRANT SHELTERED

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- WORKSHOP OF LYNCHBURG, INC., LYNCHBURG
11/1/69-12/31/69, RENEWAL, \$4,800, SRS-RSA
- 51D040 HIP PRE-VOCATIONAL TRAINING, LYNCHBURG
TRAINING SCHOOL AND HOSPITAL, LYNCHBURG
2/1/69-1/31/70, RENEWAL, \$39,407, SRS-DMR
- 51D045 HIP RECREATIONAL DEPARTMENT, LYNCHBURG
TRAINING SCHOOL AND HOSPITAL, LYNCHBURG
2/1/69-1/31/70, RENEWAL, \$47,370, SRS-DMR
- 51D050 MENTAL RETARDATION CHILDREN'S CLINIC,
ARLINGTON STATE DEPARTMENT OF HEALTH,
RICHMOND
7/1/68-6/30/69, RENEWAL, \$24,318, SRS-CB
- 51D055 MR INITIAL STAFFING, PENINSULA ASSN. FOR
RETARDED CHILDREN, HAMPTON
9/1/69-8/31/70, INITIAL, \$34,103, SRS-DMR
- 51D060 SHELTERED OCCUPATIONAL CENTER OF NORTHERN
VIRGINIA ARLINGTON
9/1/68-8/31/69, INITIAL, \$13,007, SRS-RSA
- 51D065 SOCIAL SERVICE COUNCIL, WINCHESTER
3/1/69-2/28/70, INITIAL, \$2,250, SRS-RSA

VIRGIN ISLANDS

TRAINING

- 52B005 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN VIRGIN
ISLANDS DEPARTMENT OF EDUCATION, CHARLOTTE
AMALIE
FY 1969, RENEWAL, \$5,300, OE

WASHINGTON

TRAINING

- 53B005 COMPREHENSIVE TRAINING IN MENTAL
RETARDATION AND CHILD DEVELOPMENT
UNIVERSITY OF WASHINGTON, SEATTLE
7/1/68-6/30/69, RENEWAL, \$652,015, SRS-CB
- 53B010 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
UNIVERSITY OF WASHINGTON, SEATTLE
6/1/69-5/31/70, RENEWAL, \$33,084, 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
- 53B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN CENTRAL
WASHINGTON STATE COLLEGE, ELLENSBURG
FY 1969, RENEWAL, \$47,300, OE
- 53B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF PUBLIC INSTRUCTION, OLYMPIA
FY 1969, RENEWAL, \$23,400, OE
- 53B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF WASHINGTON, SEATTLE
FY 1969, RENEWAL, \$42,400, OE
- 53B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN WESTERN
WASHINGTON STATE COLLEGE, BILLINGHAM
FY 1969, RENEWAL, \$9,000, OE
- 53B040 TRAINING FOR ATTENDANT AND PROFESSIONAL
STAFF MR YAKIMA VALLEY SCHOOL, SELAH
7/1/69-6/30/70, RENEWAL, \$24,994, SRS-DMR
- 53B045 TRAINING FOR NURSING IN MENTAL RETARDATION
UNIVERSITY OF WASHINGTON, SEATTLE
7/1/68-6/30/69, RENEWAL, \$90,960, SRS-CB
- 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 LAKE LAND VILLAGE, MEDICAL
LAKE
7/1/69-6/30/70, RENEWAL, \$20,227, SRS-DMR
- 53B060 10 ACRES AT NORTHWEST RELAY AND RADIO
STATION, LYNWOOD-SPECIAL SERVICES CENTER

FOR MENTALLY RETARDED AND HANDICAPPED
(CONVEYED UNDER DEFERRED USE PLAN, EDMONDS
SCHOOL DISTRICT 15,
2/10/69 INITIAL, \$60,000, OSPU

CONSTRUCTION

- 53C005 COMMUNITY FACILITIES CONSTRUCTION, ANTONIAN
SCHOOL FOR THE SPECIAL CHILD, SPOKANE
6/30/69, INITIAL, \$45,000, SRS-DMR
- 53C010 COMMUNITY FACILITIES CONSTRUCTION, MERRY
GLEN HOME AND SCHOOL, SPOKANE
6/30/69, INITIAL, \$44,955, SRS-DMR
- 53C015 COMMUNITY FACILITIES CONSTRUCTION, SPOKANE
LEAGUE FOR GROUP HOMES, SPOKANE
6/30/69, INITIAL, \$45,000, SRS-DMR
- 53C020 COMMUNITY FACILITIES CONSTRUCTION, VICTORIA
RANCH, INC., STANWOOD
6/30/69, INITIAL, \$67,500, SRS-DMR

OTHER

- 53D005 A VOCATIONAL TRAINING PROGRAM FOR MENTALLY
RETARDED, LAKE LAND VILLAGE, MEDICAL LAKE
6/25/69-5/31/70, INITIAL, \$90,076, SRS-DMR
- 53D010 AN OPERANT CONDITIONING EDUCATION AND
TRAINING UNIT, RAINIER SCHOOL, BUCKLEY
6/1/69-5/31/70, RENEWAL, \$100,000, SRS-DMR
- 53D015 CLINIC FOR CHILD STUDY, UNIVERSITY OF
WASHINGTON, SEATTLE STATE DEPARTMENT OF
HEALTH, OLYMPIA
7/1/68-6/30/69, RENEWAL, \$116,961, SRS-CB
- 53D020 DEVELOPMENTAL TRAINING FOR THE SEVERELY
RETARDED, YAKIMA VALLEY SCHOOL, SELAH
6/1/69-5/31/70, RENEWAL, \$95,842, SRS-DMR
- 53D025 EVALUATION AND PLANNING TEAM, FIRCREST
SCHOOL, SEATTLE
6/1/69-5/31/70, RENEWAL, \$100,000, SRS-DMR
- 53D030 FACILITY IMPROVEMENT GRANT NORTHWEST CENTER
FOR THE RETARDED, SEATTLE
12/1/68-11/30/69, RENEWAL, \$21,990, SRS-RSA
- 53D035 FACILITY IMPROVEMENT GRANT OLYMPIC PENINSULA
ENTERPRISES, INC., BREMERSON
5/1/69-4/30/70, RENEWAL, \$19,222, SRS-RSA
- 53D040 FACILITY IMPROVEMENT GRANT SUPERVISED
OCCUPATIONAL ENTERPRISES, INC., SPOKANE
6/1/69-5/31/70, RENEWAL, \$16,610, SRS-RSA
- 53D045 MR INITIAL STAFFING, CLALLAM COUNTY
HOSTELRIES, INC., PORT ANGELES
9/1/69-8/31/70, INITIAL, \$12,090, SRS-DMR
- 53D050 MR INITIAL STAFFING, FIRCREST SCHOOL, SEATTLE
9/1/69-8/31/70, INITIAL, \$7,125, SRS-DMR
- 53D055 MR INITIAL STAFFING, HILLTOP NEIGHBORHOOD
IMPROVEMENT COUNCIL, INC., TACOMA
9/1/69-8/31/70, INITIAL, \$43,950, SRS-DMR
- 53D060 MR INITIAL STAFFING, KITSAP AND MASON COS., REC.
AND VOCATIONAL WORKSHOP, BREMERSON
7/1/69-6/30/70, INITIAL, \$10,683, SRS-DMR
- 53D065 MR INITIAL STAFFING, LILLIE RICE ACTIVITY CENTER,
WALLA WALLA
9/1/69-8/31/70, INITIAL, \$25,545, SRS-DMR
- 53D070 MR INITIAL STAFFING, LOWER PUGET SOUND
DEVELOPMENT CENTER, INC., OLYMPIA
9/1/69-8/31/70, INITIAL, \$8,280, SRS-DMR
- 53D075 MR INITIAL STAFFING, NORTHWEST CENTER FOR
RETARDED, SEATTLE
9/1/69-8/31/70, INITIAL, \$8,850, SRS-DMR
- 53D080 MR INITIAL STAFFING, SEATTLE SCHOOL DISTRICT NO.
1, SEATTLE
9/1/69-8/31/70, INITIAL, \$31,697, SRS-DMR
- 53D085 MR INITIAL STAFFING, SEATTLE SEQUIN SCHOOL,
SEATTLE
9/1/69-8/31/70, INITIAL, \$6000, SRS-DMR
- 53D090 MR INITIAL STAFFING, TACOMA GUILDS FOR
RETARDED CHILDREN, TACOMA
9/1/69-8/31/70, INITIAL, \$10,477, SRS-DMR
- 53D095 MR INITIAL STAFFING, TACOMA PIERCE CO. CHAPTER,
WASH. ASSN. FOR RETARDED CHILDREN, TACOMA

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

- 7/1/69-6/30/70, INITIAL, \$9,735, SRS-DMR
 53D100 MR INITIAL STAFFING, VALLEY SCHOOL OF SPECIAL
 EDUCATION, PUYALLUP
 9/1/69-8/31/70, INITIAL, \$12,045, SRS-DMR
 53D105 MR INITIAL STAFFING, WENATCHEE SHELTERED
 WORKSHOP, INC., WENATCHEE
 9/1/69-8/31/70, INITIAL, \$6,802, SRS-DMR
 53D110 MR INITIAL STAFFING, WHATCOM ASSN. OF TRAINING
 CENTERS, INC., BELLINGHAM
 9/1/69-8/31/70, INITIAL, \$8,625, SRS-DMR
 53D115 MR INITIAL STAFFING, WHITMAN CO. EPTON SOCIETY,
 CIVIC CENTER BUILDING, PULLMAN
 9/1/69-8/31/70, INITIAL, \$3,900, SRS-DMR

WEST VIRGINIA

TRAINING

- 54B005 FIELD INSTRUCTION OF REHABILITATION COUNSELING
 STUDENTS WEST VIRGINIA UNIVERSITY,
 MORGANTOWN
 9/1/68-8/31/69, RENEWAL, \$56,211, 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
 54B015 MENTAL RETARDATION CLINIC FOR SERVICE AND
 TRAINING, MORGANTOWN STATE DEPARTMENT OF
 HEALTH, CHARLESTON
 7/1/68-6/30/69, RENEWAL, \$115,000, SRS-CB
 54B020 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN
 GLENVILLE STATE COLLEGE GLENVILLE
 FY 1969, RENEWAL, \$14,000, OE
 54B025 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN
 MARSHALL UNIVERSITY, HUNTINGTON
 FY 1969, RENEWAL, \$20,500, OE
 54B030 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN STATE
 DEPARTMENT OF EDUCATION, CHARLESTON
 FY 1969, RENEWAL, \$55,550, OE
 54B035 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN WEST
 VIRGINIA UNIVERSITY, MORGANTOWN
 FY 1969, RENEWAL, \$46,400, OE

OTHER

- 54D005 COMMUNITY TRANSITIONAL ADJUSTMENT PROGRAM
 FOR MENTALLY RETARDED, COLIN ANDERSON
 CENTER, ST. MARY'S
 12/1/68-11/30/69, INITIAL, \$45,019, SRS-DMR
 54D010 CONSULTATION AND EVALUATION CLINIC FOR
 MENTALLY RETARDED CHILDREN, CHARLESTON
 STATE DEPARTMENT OF HEALTH, CHARLESTON
 7/1/68-6/30/69, RENEWAL, \$84,505, SRS-CB
 54D015 FACILITY IMPROVEMENT GRANT MERCER COUNTY
 OPPORTUNITY WORKSHOP FOR THE
 HANDICAPPED, INC., BLUEFIELD
 13/1/69-2/28/70, RENEWAL, \$16,694, SRS-RSA
 54D020 MR INITIAL STAFFING, GREEN ACRES REGIONAL
 CENTER, INC., LESAGE
 7/1/69-6/30/70, INITIAL, \$57,825, SRS-DMR

WISCONSIN

TRAINING

- 55B005 CHILDREN'S DEVELOPMENT CENTER UNIVERSITY OF
 WISCONSIN, MADISON
 7/1/68-6/30/69, RENEWAL, \$71,416, SRS-CB

- 55B010 FIELD INSTRUCTION OF REHABILITATION COUNSELING
 STUDENTS UNIVERSITY OF WISCONSIN, MADISON
 9/1/68-8/31/69, RENEWAL, \$37,218, SRS-RSA
 55B015 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
 UNIVERSITY OF WISCONSIN, MADISON
 9/1/68-8/31/69, RENEWAL, \$44,492, SRS-RSA
 55B020 FIELD INSTRUCTION OF SOCIAL WORK STUDENTS
 UNIVERSITY OF WISCONSIN, MADISON
 9/1/68-8/31/69, RENEWAL, \$32,769, SRS-RSA
 55B025 INSERVICE TRAINING OF ATTENDANT AND
 SUPERVISORY PERSONNEL MR CENTRAL WISCONSIN
 COLONY AND TRAINING SCHOOL, MADISON
 7/1/69-6/30/70, INITIAL, \$25,000, SRS-DMR
 55B030 NON-PROFESSIONAL SERVICE AGENCY TRAINING
 PROGRAM IN MENTAL RETARDATION THE REGENTS
 OF THE UNIVERSITY OF WISCONSIN, MADISON
 FY 1969, RENEWAL, \$32,347, SRS-P
 55B035 PLANNED TRAINING AND EVALUATION OF
 INSTITUTION PERSONNEL MR SOUTHERN WISCONSIN
 COLONY AND TRAINING SCHOOL, UNION GROVE
 7/1/69-6/30/70, RENEWAL, \$25,000, SRS-DMR
 55B040 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN STATE
 DEPARTMENT OF PUBLIC INSTRUCTION, MADISON
 FY 1969, RENEWAL, \$25,911, OE
 55B045 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN
 UNIVERSITY OF WISCONSIN, MADISON
 FY 1969, RENEWAL, \$100,900, OE
 55B050 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN
 UNIVERSITY OF WISCONSIN, MILWAUKEE
 FY 1969, RENEWAL, \$69,400, OE
 55B055 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN
 WISCONSIN STATE UNIVERSITY, EAU CLAIRE
 FY 1969, RENEWAL, \$36,400, OE
 55B060 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN
 WISCONSIN STATE UNIVERSITY, OSHKOSH
 FY 1969, RENEWAL, \$8,700, OE
 55B065 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
 EDUCATION OF HANDICAPPED CHILDREN
 WISCONSIN STATE UNIVERSITY, WHITEWATER
 FY 1969, RENEWAL, \$50,700, 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
 9/1/68-8/31/69, RENEWAL, \$48,300, SRS-RSA
 55B080 STAFF EDUCATION AND SUPERVISORY DEVELOPMENT
 MR NORTHERN WISCONSIN COLONY AND TRAINING
 SCHOOL, CHIPPEWA FALLS
 7/1/69-6/30/70, INITIAL, \$25,000, SRS-DMR
 55B085 TRAINING SERVICES GRANT CURATIVE WORKSHOP OF
 MILWAUKEE, MILWAUKEE
 6/25/69-6/24/70, RENEWAL, \$149,006, SRS-RSA
 55B090 TRAINING UNIT IN MENTAL RETARDATION IN DODGE
 COUNTY WELFARE DEPARTMENT UNIVERSITY OF
 WISCONSIN SCHOOL OF SOCIAL WORK, MADISON
 7/1/68-6/30/69, RENEWAL, \$19,883, SRS-CB

CONSTRUCTION

- 55C005 COMMUNITY FACILITIES CONSTRUCTION, CURATIVE
 WORKSHOP, MILWAUKEE
 6/27/69, INITIAL, \$144,163, SRS-DMR
 55C010 UNIVERSITY-AFFILIATED FACILITIES CONSTRUCTION,
 UNIVERSITY OF WISCONSIN, MADISON
 1/28/69, INITIAL, \$2,616,783, SRS-DMR

OTHER

- 55D005 AN ENRICHMENT PROGRAM TO DEVELOP SELF-HELP
 SKILLS, NORTHERN WISCONSIN COLONY AND

CONSTRUCTION, TRAINING AND OTHER GRANTS FOR EACH STATE, 1969

TRAINING SCHOOL, CHIPPEWA FALLS
6/1/69-5/31/70, RENEWAL, \$56,539, SRS-DMR

55D010 AN ENRICHMENT PROGRAM TO REDUCE PHYSICAL
RESTRAINT, SOUTHERN WISCONSIN COLONY AND
TRAINING SCHOOL, UNION GROVE
2/1/69-1/31/70, RENEWAL, \$100,000, SRS-DMR

55D015 COMMUNITY SERVICE DEMONSTRATION PROJECT FOR
MENTALLY RETARDED RURAL AREA STATE OF
WISCONSIN DEPARTMENT OF HEALTH AND SOCIAL
SERVICE, MADISON
FY 1969, RENEWAL, \$60,550, SRS-P

55D020 CURATIVE WORKSHOP OF MILWAUKEE, ADULT
REHABILITATION CENTER MILWAUKEE
6/29/69-6/28/70, INITIAL, \$36,000, SRS RSA

55D025 MARATHON COUNTY WORKSHOP FOR THE
HANDICAPPED WAUSAU
FY 1969, INITIAL, \$106,859, SRS RSA

55D030 MR INITIAL STAFFING, BROWN CO. ASSN. FOR
RETARDED CHILDREN, INC., GREEN BAY
7/1/69-6/30/70, INITIAL, \$68,400, SRS-DMR

55D035 MR INITIAL STAFFING, MILWAUKEE CO. INSTITUTIONS
AND DEPARTMENTS, MILWAUKEE
1/1/70-12/31/70, INITIAL, \$74,288, SRS-DMR

55D040 MR INITIAL STAFFING, SOCIAL DEVELOPMENT
COMMISSION, MILWAUKEE
10/1/69-9/30/70, INITIAL, \$16,500, SRS-DMR

55D045 MR INITIAL STAFFING, WALWORTH COUNTY,
ELKHORN
9/1/69-8/31/70, INITIAL, \$48,555, SRS-DMR

55D050 TEAM MANAGEMENT OF THE AMBULANT SEVERELY
RETARDED, CENTRAL WISCONSIN COLONY AND
TRAINING SCHOOL, MADISON
9/1/68-8/31/69, RENEWAL, \$95,400, SRS-DMR

WYOMING

TRAINING

56B005 INSERVICE TRAINING PROGRAM FOR WARD AIDES MR
WYOMING STATE TRAINING SCHOOL, LANDER
7/1/69-6/30/70, INITIAL, \$25,000, SRS-DMR

56B010 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN STATE
DEPARTMENT OF EDUCATION, CHEYENNE
FY 1969, RENEWAL, \$25,600, OE

56B015 PREPARATION OF PROFESSIONAL PERSONNEL IN THE
EDUCATION OF HANDICAPPED CHILDREN
UNIVERSITY OF WYOMING, LARAMIE
FY 1969, RENEWAL, \$14,300, OE

OTHER

56D005 CHILD DEVELOPMENT CENTER, CHEYENNE STATE
DEPARTMENT OF PUBLIC HEALTH, CHEYENNE
7/1/68-6/30/69, RENEWAL, \$80,000, SRS-CB

56D010 COORDINATOR OF SERVICES FOR MENTALLY
RETARDED NATROWA CITY HIGH SCHOOL DISTRICT-
SD 02, CASPER
FY 1969, RENEWAL, \$15,189, SRS-P

56D015 MR INITIAL STAFFING, NATRONA CO. HIGH SCH. DIST.
AND SCH. DIST. NO. 2, CASPER
9/1/69-8/31/70, INITIAL, \$13,725, SRS-DMR

56D020 SENSORY STIMULATION IN TRAINING THE
PROFOUNDLY RETARDED, WYOMING STATE
TRAINING SCHOOL, LANDER
4/1/69-3/31/70, RENEWAL, \$95,765, SRS-DMR CHILDREN

RESEARCH AND DEMONSTRATION GRANTS, 1969

ETIOLOGY

- A005 A TYPICAL HUMAN PLASMA CHOLINESTERASE, NS 5541-05, FOLDES, FRANCIS F., MONTEFIORE HOSPITAL AND MEDICAL CENTER, BRONX, N.Y., 9/68-8/69, RENEWAL, \$20,736. NINDS

THIS RESEARCH WILL EXAMINE THE DIFFERENCE BETWEEN NORMAL HUMAN PLASMA CHOLINESTERASE AND THE KNOWN VARIANTS OF THIS ENZYME. IMPROVEMENT OF CURRENT IDENTIFICATION METHODS AND THE DEVELOPMENT OF A SIMPLE, PRECISE DETECTION PROCEDURE WILL BE ATTEMPTED.

- A010 ABO ERYTHROBLASTOSIS-IMMUNOLOGIC STUDIES HD-02874-03 HUNTLEY, CAROLYN C., WAKE FOREST UNIVERSITY, WINSTON-SALEM, N.C. 5/69-4/70 RENEWAL, \$17,556. NICHD

THIS RESEARCH PROPOSES TO STUDY THE OBSTETRICAL AND NEWBORN PATIENTS AT THE UNIVERSITY OF PUERTO RICO HOSPITAL AND AT THE NORTH CAROLINA BAPTIST HOSPITAL WITH REFERENCE TO HEMOLYTIC DISEASE OF THE NEWBORN.

- A015 ABO ERYTHROBLASTOSIS HD3972-11; ROSENFELD, RICHARD E., MT. SINAI SCHOOL OF MEDICINE, NEW YORK, NEW YORK; 4/69-3/74; INITIAL; \$90,474; 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-6188-04, LANGMAN, JAN, UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE CHARLOTTESVILLE, VIRGINIA, UNIVERSITY 9/68-8/69, RENEWAL, FY 68, \$32,939. 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 8723-01, (PRECEDED BY HD-NB 4053) ZAMENHOF, STEPHEN, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF., 2/69-1/70, INITIAL, \$21,255. 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 4925-06, SPRATT, JAMES L., STATE UNIVERSITY OF IOWA, IOWA CITY, IOWA, 9/68-8/69, RENEWAL, \$21,915. 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 INTERRELATIONS IN HUMAN METABOLIC DISEASE HD4608-01; NYHAN, WILLIAM L., UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA; 6/69-5/70; INITIAL; \$45,566; NICHD

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 PU-

RINE METABOLISM WILL BE INVESTIGATED AS THEY BECOME AVAILABLE.

- A040 BIOCHEMICAL CAUSES OF MENTAL RETARDATION HD3992-01; GHADIMI, HOSSEIN; METHODIST HOSPITAL OF BROOKLYN; NEW YORK, NEW YORK; 6/69-5/70; INITIAL; \$64,370; NICHD

THE SPECIFIC AIMS OF THIS RESEARCH ARE THE FOLLOWING: 1) TO INVESTIGATE THE BIOCHEMICAL CAUSES OF MENTAL RETARDATION OF UNKNOWN ETIOLOGY, WITH SPECIAL INTEREST IN PATIENTS WHOSE FAMILY HISTORY SUGGESTS THE PRESENCE OF AN INBORN ERROR OF METABOLISM; AND 2) TO IMPROVE THE UNDERSTANDING AND TREATMENT OF PATIENTS WITH KNOWN INBORN ERRORS OF METABOLISM ASSOCIATED WITH MENTAL RETARDATION.

- A045 BIOCHEMICAL DEVELOPMENT OF SURFACTANT OF LUNG HD4143-01; GLUCK, LOUIS; UNIVERSITY OF MIAMI; MIAMI, FLORIDA; 8/68-7/69; INITIAL; \$42,816; NICHD

THIS PROJECT IS STUDYING THE BIOSYNTHESIS, METABOLISM, AND ACYL COMPOSITION OF THE COMPONENT PHOSPHOLIPIDS IN THE SURFACE ACTIVE ALVEOLAR COMPLEX IN THE LUNGS OF DEVELOPING MAMMALIAN FETUSES. THE HUMAN STUDIES SUPPORT THE HYPOTHESIS THAT RESPIRATORY DISTRESS SYNDROME IS A DISEASE OF BIOCHEMICAL DEVELOPMENT.

- A050 BIOSYNTHESIS AND METABOLISM OF GALACTOLIPIDS, NS 1575-12 BURTON, ROBERT M., WASHINGTON UNIVERSITY SCHOOL OF MEDICINE, ST. LOUIS, MO., 4/69-3/70, RENEWAL, \$28,005. NINDS

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

- A055 BRAIN DAMAGE AND HYPEROXYGENATION IN MENTAL DEFICIT, NS 7258-01 HARRIS, JOSEPH., BARROW NEUROLOGICAL INSTITUTE OF ST. JOSEPH'S HOSPITAL PHOENIX, ARIZONA, 6/67-9/69, RENEWAL, FY 67, \$25,187. NINDS

THIS RESEARCH PROPOSES TO ESTABLISH THE PARAMETERS INVOLVED IN THE PRODUCTION OF BRAIN DAMAGE BY EXPOSURE OF NEWBORN RATS TO HIGH CONCENTRATIONS OF O₂ DURING THE FIRST FEW DAYS OF LIFE.

- A060 BRAIN LIPIDS IN DIFFUSE DEMYELINATIVE DISEASES (NS-2672-09) MOSER, HUGO W., MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASS., 6/68-5/69, RENEWAL, \$45,150. 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-1365-11 (NOW NS 8528-01), BESSMAN, SAMUEL P., UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, 8/68-7/69, RENEWAL, \$3,216. 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.

- A070 BRAIN PROTEIN SYNTHESIS IN RELATION TO MENTAL RETARDATION, NS-7906-01 (FORMERLY NB-7120-01) RENDINA, GEORGE, BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OHIO, 9/67-4/69, RENEWAL, FY 68, \$50,169. NINDS

THIS RESEARCH CONCERNS THE GENERALIZATION THAT ALL TYPES OF RETARDATION RESULT FROM SOME MALFUNCTION OF THE DNA-RNA MATERIAL IN THE CELL AND THIS IS A GUIDE FOR INVESTIGATIVE ACTIVITY.

- A075 CARBAMYL PHOSPHATE SYNTHESIS IN BRAIN, NS 7663-02, OLSON, ERIK J., MEHARRY MEDICAL COLLEGE

RESEARCH AND DEMONSTRATION GRANTS, 1969

- SCHOOL OF MEDICINE, NASHVILLE, TENN., 1/69-12/69, RENEWAL, \$2,658. 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 HD3959-01; CORNBATH, MARVIN; UNIVERSITY OF MARYLAND; BALTIMORE, MARYLAND; 7/68-8/69; INITIAL; \$31,870 NICHHD
- 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 HD3290-06; SCHWARTZ, ROBERT; CASE WESTERN RESERVE UNIVERSITY; CLEVELAND, OHIO; 9/68-8/73; INITIAL; \$23,854; NICHHD
- 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 CAUSES OF MENTAL RETARDATION IN INFANCY HD-02387-03 EGAN, THOMAS J., CHILDREN'S MEMORIAL HOSPITAL, CHICAGO, ILLINOIS, 10/68-9/69, RENEWAL \$16,961. NICHHD
- THIS RESEARCH PROPOSES TO EVALUATE THE IMPORTANCE OF ACCUMULATION OF GALACTITOL IN THE TISSUES OF GALACTOSE-LOADED RATS IN PRODUCTION OF PATHOLOGY IN THE ORGANS TO BE EXAMINED, SUCH AS THE LIVER, KIDNEY, BRAIN, SKELETAL MUSCLE AND HEART.
- A095 CHILD HEALTH AND DEVELOPMENT STUDIES, HD-00718-10 J. YERUSHALMY, KAISER FOUNDATION HOSPITALS, OAKLAND, CALIFORNIA 6/69-3/72, RENEWAL, \$537,103 NICHHD
- 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.
- A100 CHROMOSOMAL ABNORMALITIES AND LOCALIZATION OF GENES, NS-6390-03, DOXIADIS, S.A., AGHIA SOPHIA CHILDREN'S HOSPITAL, ATHENS, GREECE, 1/68-12/68, RENEWAL, FY 68, \$17,850. NINDS
- THIS RESEARCH CONDUCTS CHROMOSOMAL STUDIES ON ALL NEWBORN AT UNIVERSITY MATERNITY HOSPITAL IN ATHENS, GREECE WHERE AMNION SEXING WAS PERFORMED. HEMATOLOGICAL AND BIOCHEMICAL INVESTIGATIONS ARE CONDUCTED TO ATTEMPT GENE LOCALIZATION.
- A105 CONGENITAL CATARACTS AND ASSOCIATED ANOMALIES, NS-7223-03 MARCUS, LEONARD C., ALBERT EINSTEIN COLLEGE OF MEDICINE, YESHIVA UNIVERSITY, BRONX, N.Y., 5/69-4/70, RENEWAL, \$5,779. NINDS
- THIS RESEARCH PROPOSES TO STUDY THE GENETIC AND PATHOPHYSIOLOGICAL BASIS OF CONGENITAL CATARACTS IN ENGLISH COCKER SPANIELS AND BEAGLES.
- A110 CYSTATHIONINE METABOLISM IN BRAIN, NS-4454-06 BROWN, FOUNTAINE CHRISTINA, UNIVERSITY OF TENNESSEE, MEMPHIS, TENN, 9/68-8/69 RENEWAL, \$10,883. 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.
- A115 CYTOGENESIS OF EMBRYONIC HUMAN CENTRAL NERVOUS SYSTEM, NS-7053-02, SIDMAN, RICHARD L., HARVARD MEDICAL SCHOOL, BOSTON, MASS., 9/68-8/69, RENEWAL, \$21,477. 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-00339-09 BREG, W. ROY, CONNECTICUT STATE DEPT OF HEALTH, SOUTHBURY, CONNECTICUT, 6/69-5/72 RENEWAL, \$23,010. NICHHD
- 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 HD3967-06; GUTHRIE, ROBERT; STATE UNIVERSITY OF NEW YORK; BUFFALO, NEW YORK; 4/69-3/72; INITIAL; \$46,920; NICHHD
- 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 DETECTION OF BLOOD GALACTOSE IN NEWBORN CHILDREN HD3927-01; PAIGEN, KENNETH; HEALTH RESEARCH INC.; BUFFALO, NEW YORK; 11/68-10/70; INITIAL; \$28,023; NICHHD
- 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.
- A135 DEVELOPMENTAL NERVOUS DISORDERS KRABBE'S DISEASE, NS-6756-03 FLETCHER, T.F., UNIVERSITY OF MINNESOTA COLLEGE OF VETERINARY MEDICINE, MINNEAPOLIS, MINN., 2/69-1/70, RENEWAL, \$17,731. 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 IN NEWBORNS, NS 4831-05 (NOW-HD-NB-4487-06) ANDERSON, JOHN A., UNIVERSITY OF MINNESOTA, MINNEAPOLIS MINN., 9/68-8/69, RENEWAL, \$24,375. NINDS
- THIS RESEARCH PROPOSES TO INVESTIGATE THE ENERGY METABOLISM OF HUMAN NEWBORNS BY SIMULTANEOUS DIRECT AND INDIRECT CALORIMETRY THE RATIO OF OXYGEN CONSUMPTION TO HEAT PRODUCTION WILL BE DETERMINED FOR NORMAL INFANTS DURING THE FIRST WEEK OF LIFE AND WILL BE COMPARED WITH THOSE OBTAINED ON NEONATES WHO HAVE RESPIRATORY DISTRESS, HYPERBILIRUBINEMIA, PRE-MATURITY OR ARE UNDER THE EFFECT OF DRUGS.
- A145 DRUGS ON BRAIN CHOLESTEROL DURING DEVELOPMENT AND AGING HD4611-01; KABARA, JON J.; MICHIGAN COLLEGE OF OSTEOPATHIC MEDICINE; PONTIAC, MICHIGAN; 6/69-5/70; INITIAL; \$18,986; NICHHD
- THE PURPOSE OF THIS PROJECT IS TO EVALUATE THE EFFECT OF HYPOCHOLESTEROLEMIC AGENTS ON STEROL METABOLISM IN THE BRAIN OF DEVELOPING AND AGING MICE. LONG RANGE OBJECTIVES OF THE PROGRAM WOULD LEAD TO STUDY OF OTHER DRUGS THAT AFFECT THE CENTRAL NERVOUS SYSTEM BUT DO NOT HAVE KNOWN HYPOCHOLESTEROLEMIC EFFECTS.
- A150 EFFECTS OF ANOXIA ON BRAIN METABOLISM IN THE NEWBORN, (1) NS 6163-03, (2) NS 6163-04, THURSTON, JEAN H., WASHINGTON UNIVERSITY MEDICAL SCHOOL ST. LOUIS, MISSOURI, (1) 10/67-9/68, (2) 10/68-9/69, RENEWAL, (1) \$29,050 (2) \$28,877. 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 EFFECT OF MALNUTRITION IN EARLY LIFE HD-02581-09 BARNES, RICHARD H., CORNELL UNIVERSITY, ITHACA, NEW YORK, 4/69-3/71 RENEWAL \$39,178. NICHHD
- 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).

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- A160 EFFECTS OF MATERNAL HYPOXEMIA ON INFANT DEVELOPMENT** HD4075e01; WHITTEMORE RUTH; YALE UNIVERSITY; NEW HAVEN, CONNECTICUT; 3/69-2/74; INITIAL; \$21,748; 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-2275-10, PENTSCHER, ANGEL, CENTRAL ANATOMIC LABORATORY, MARYLAND MEDICAL-LEGAL FOUNDATION, BALTIMORE, MARYLAND, 9/68-8/69, RENEWAL \$46,791. 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.
- A170 ENVIRONMENTAL LEAD INTOXICATION IN CHILDREN** HD-01584-04 HARDY, HARRIET L., MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS 4/69-3/70 RENEWAL, \$9,247 NICHD
- THIS RESEARCH PROPOSES TO INVESTIGATE THE POSSIBLE HAZARD OF REPEATED LEAD INTAKE FROM ENVIRONMENTAL SOURCES--THE INTAKE TOO LOW TO PRODUCE RECOGNIZABLE LEAD POISONING AT THE TIME. THERE IS CONSIDERABLE LITERATURE NOTABLY FROM EUROPE SUGGESTING THAT ACUTE AND CHRONIC LEAD INTOXICATION LEADS TO NOT ONLY BRAIN DAMAGE BUT IF IT OCCURS IN ADULT FEMALES MAY DAMAGE PROGENY.
- A175 ENZYMIC FORMATION OF BILE PIGMENTS**, (1), NS 5367-05, (2) NS 5367-05S1, LEV IN, EPHRAIM Y., JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE, MARYLAND, (1) 9/68-8/69, (2) 5/69-8/69, RENEWAL, (1) FY 68, \$14,883, (2) \$5,102. 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 MODERATE 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, RENEWAL, FY 67, \$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.
- A185 EXPERIMENTAL MODEL OF PHENYLKETONURIA-LIKE CONDITIONS**, NS-6905-03, LISS, LEOPOLD, OHIO STATE UNIVERSITY, COLUMBUS, OHIO, 2/69-1/70, RENEWAL \$22,856. NINDS
- THIS RESEARCH PROPOSES TO INVESTIGATE THE MECHANISMS WHICH CAUSE MENTAL RETARDATION IN ACCUMULATION DISEASES.
- A190 FACTORS INFLUENCING NEURAL TUBE DIFFERENTIATION** NS-6367-04, LYSER KATHERINE M., HUNTER COLLEGE OF THE CITY UNIVERSITY OF NEW YORK, NEW YORK, N.Y., 12/68-11/69, RENEWAL, \$16,901. 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.
- A195 FUNCTIONAL ANALYSIS OF THE HUMAN SKULL**, NS-965-14, MOSS, MELVIN L., COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, NEW YORK, N.Y. 4/69-3/70, RENEWAL, \$9,662. 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.
- A200 FURTHER INVESTIGATION ON INFANT MALNUTRITION** HD3741-08; MONCKEBERG, FERNANDO B.; UNIVERSITY OF CHILE; SANTIAGO, CHILE; 1/69-12/71; INITIAL; \$33,815; 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.
- A205 GALACTOSEMIA GENETICS, INCIDENCE AND PATHOPHYSIOLOGY** HD-01974-04 BEUTLER, ERNEST, CITY OF HOPE MEDICAL CENTER, DUARTE, CALIFORNIA. 2/69-1/72 RENEWAL, \$54,823. NICHD
- THIS RESEARCH CONCERNS THE SCREENING FOR GALACTOSE-1-PHOSPHATE URIDYL TRANSFERASE DEFICIENCY AND MUTATION EFFECTING THE ELECTRO-PHORETIC 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.
- A210 GANGLIOSIDES IN WHITE MATTER AND IN MYELIN**, NS-7944-01, SUZUKI, KUNIHICO, ALBERT EINSTEIN COLLEGE OF MEDICINE, YESHIVA UNIVERSITY, BRONX, N.Y., 5/68-4/69, INITIAL, \$30,435. NINDS
- THIS RESEARCH WILL ATTEMPT TO CLARIFY THE LOCALIZATION AND NATURE OF THE GANGLIOSIDE RECOVERED IN THE MYELIN FRACTION. ISOLATION AND CHARACTERIZATION OF MYELIN FROM BRAINS WITH TAY-SACHS DISEASE WILL BE DONE.
- A215 GENETIC FACTORS IN HUMAN SEX DEVELOPMENT** HD-00516-09, MILLER, ORLANDO JACK, COLUMBIA UNIVERSITY, NEW YORK, NEW YORK, 10/68-9/70, RENEWAL, \$40,294. NICHD
- THIS RESEARCH CONCERNS THE RELATION BETWEEN CHROMOSOMAL ABNORMALITIES AND SEX DIFFERENTIATION. THE ROLE OF CHROMOSOMAL ABNORMALITIES IN INTERSEXUALITY, OTHER DEVELOPMENTAL SEXUAL ABNORMALITIES OR REPRODUCTIVE FAILURE, THE ETIOLOGY OF THESE CHROMOSOMAL ABNORMALITIES, IDENTIFICATION OF INDIVIDUAL CHROMOSOMES MAPPING GENE LOCI TO SPECIFIC CHROMOSOMES, AND USE OF NEW TECHNIQUES TO LEARN MORE ABOUT CELL DIVISION.
- A220 GENETIC STUDIES OF TAPETO-RETINAL DEGENERATIONS**, NS-4590-06 KLEIN, DAVID, INSTITUT UNIVERSITAIRE DE GENETIQUE MEDICALE, GENEVA, SWITZERLAND, 6/69-5/70, RENEWAL, \$6,250. NINDS
- THIS RESEARCH INVESTIGATES THE ASSOCIATION OF TAPETO-RETINAL DEGENERATIONS WITH HEREDITARY DISORDERS SUCH AS NIEMAN-PICK DISEASE AND FAMILIAL AMAUROTIC IDIOTCY. BIOCHEMICAL AND BLOOD EXAMINATIONS OF AFFECTED FAMILIES WILL BE MADE.
- A225 HASHIMOTOS STRUMA AND CONGENITAL HYPOTHYROIDISM**, HD-00688-12 BEIERWALTES, WILLIAM H., UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, 4/69-3/70, RENEWAL \$32,889. NICHD
- THIS RESEARCH CONCERNS (1) THE STUDY OF LYMPHOID THYROIDITIS SIMULATING HASHIMOTOS STRUMA IN THE HUMAN IN AN INBRED BEAGLE COLONY AND (2) IN HUMANS, EFFECT OF DIETARY IODINE ON THE INCIDENCE OF HASHIMOTOS THYROIDITIS AND THE INCIDENCE OF LOW THYROID RESERVE FROM HASHIMOTOS THYROIDITIS IN MOTHERS OF CRETINS AND MOTHERS WITH DEMONSTRABLE CIRCULATING ANTIBODIES WITH NO CRETINOUS OFFSPRING.
- A230 IMMEDIATE AND LONG-TERM EFFECTS OF ASPHYXIA NEONATORUM** HD-03417-02, WINDLE, WILLIAM F., NEW YORK UNIVERSITY, N.Y., 3/69-2/71, RENEWAL, \$107,324. 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.
- A235 IMMUNOCHEMICAL STUDIES OF NEURAL DIFFERENTIATION**, NS-7141-03, SAMSON, FREDERICK E., UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, 9/68-8/69, RENEWAL, \$11,530. NINDS
- THIS RESEARCH PROPOSES TO CONTINUE WORK ON THE CHEMICAL FRACTIONATION OF CHICKEN BRAIN ANTIGENS AND THE

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- ISOLATION OF ANTIBODIES THERETO, SO THAT THE ANTIGEN INVOLVED IN THE PROCESS OF DIFFERENTIATION MAY BE DISTINGUISHED FROM THOSE WHICH ARE PRESENT BEFORE THE CELL ASSUMES ITS DEFINITIVE NATURE.
- A240** INHIBITION ASSAY - DETECTION AND STUDY OF INBORN ERRORS, NS-5290-05, NOW (HD-NB-3967-06 AS OF 11/68) GUTHRIE, ROBERT, RESEARCH FOUNDATION OF STATE UNIVERSITY, OF NEW YORK, ALBANY, N.Y., 4/68-3/69, RENEWAL, FY 68, \$48,074. (NINDS)
- THIS RESEARCH CONCERNS MULTIPLE MICROBIOLOGICAL TESTS AND A MULTIPLE INHIBITION ASSAY FOR DETECTION OF INBORN ERRORS IN THE NEWBORN INFANT. A POSSIBLE NEW INBORN ERROR ASSOCIATED WITH SEVERE MENTAL RETARDATION AND RELATED TO HISTIDINEMIA HAS BEEN DISCOVERED.
- A245** INTELLECTUAL DEVELOPMENT AND ORPHANAGE EXPERIENCE (MH-10226-04) HUNT, J. MCVICKER, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS 9/69 RENEWAL \$12,890. NIMH
- THIS RESEARCH CONCERNS WHETHER INCREASING THE VARIABILITY OF AUDITORY AND VISUAL INPUT DURING THE FIRST YEAR DECREASES THE DEGREE TO WHICH INFANTS IN AN ORPHANAGE ARE RETARDED, AND WHETHER ADOLESCENTS RAISED IN THE SAME ORPHANAGE SETTING SHOW GREATER INTELLECTUAL DEFECTS THAN FAMILY-REARED CHILDREN.
- A250** INTELLECTUAL STIMULATION OF CULTURALLY DEPRIVED INFANTS (MH-9224-04) FURFEY, PAUL H., CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.C. 9/69 RENEWAL \$70,978. NIMH
- 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 TUTORED INFANTS SHOW MORE INTELLECTUAL PROGRESS THAN UNTUTORED.
- A260** INTRAUTERINE FETAL MALNUTRITION IN RATS HD4610-01; OH, WILLIAM; LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL; TORRANCE, CALIFORNIA; 6/69-6/70; INITIAL; \$22,028; NICHD
- THE PURPOSE OF THIS PROJECT IS TO INVESTIGATE THE BIOCHEMICAL LESIONS OF INTRAUTERINE FETAL MALNUTRITION IN RATS. THE FOLLOWING STUDIES WILL BE EMPHASIZED: GLUCOSE AND OTHER SUBSTRATE TRANSPORT ACROSS THE PLACENTA, GLYCOGEN SYNTHESIS IN THE PLACENTA, LIVER, BRAIN, AND MUSCLES AND GLUCOSE UTILIZATION IN THESE ORGANS, PARTICULARLY IN THE BRAIN.
- A265** LP AND ASSOCIATED MUTATIONS, (NS-684-14), STEIN, KATHRYN F., MOUNT HOLYOKE COLLEGE, SOUTH HADLEY, MASSACHUSETTS, 10/67-9/69, RENEWAL, FY 68, \$12,360. NINDS
- THIS RESEARCH CONCERNS THE MUTATION LP IN THE MOUSE, WHICH IN HOMOZYGOUS EMBRYOS PREVENTS CLOSURE OF THE NEURAL FOLDS, AND SEVERAL ASSOCIATED MUTATIONS.
- A270** MATERNAL AND FETAL METABOLISM OF STEROIDS AND DRUGS HD3825-01; HEINRICHST WILLIAM L.; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 12/68-11/71; INITIAL; \$20,196; 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.
- A275** MENTAL RETARDATION CLINICAL RESEARCH CENTER HD-00370-07SI KUGEL, ROBERT, UNIVERSITY OF NEBRASKA, OMAHA, NEBRASKA 10/68-9/69 RENEWAL \$213,517. 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.
- A276** MENTAL RETARDATION CONFERENCE ON PHYSICAL TRAUMA, PH 43-68-700, ANGLE, CAROL, UNIVERSITY OF NEBRASKA, LINCOLN, NEBR., 4/68-3/69. INITIAL, \$28,000. NINDS
- NO ABSTRACT
- A280** METABOLIC DISEASES OF THE BRAIN, (1) NS-6938-04, (2) NS-6938-04S1, MENKES JOHN H., UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF., (1) 4/69-3/70, (2) 4/69-3/70, RENEWAL (1) \$64,510, (2) \$14,681. NINDS
- THIS RESEARCH PROPOSES TO INVESTIGATE THE INTERRELATION BETWEEN THE METABOLIC DEFECT IN VARIOUS INBORN ERRORS OF METABOLISM AND THE DEVELOPMENT OF NEUROLOGIC ABNORMALITIES.
- A285** METABOLISM OF GAMMA-HYDROXYBUTYRIC ACID, NS-5062-04, (NOW NS 8447-01), 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 LACTONIZES 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-2967-09, GATT, S., HEBREW UNIVERSITY-HADASSAH MEDICAL SCHOOL, JERUSALEM, ISRAEL, 4/69-5/70, RENEWAL, \$30,666. 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 8197-01, SILBERBERG, DONALD H., UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA., 12/68-11/69, INITIAL, \$37,730. NINDS
- TISSUE CULTURE RESEARCH ON LIVING CNS TISSUE TO REPRODUCE THE CELLULAR ENVIRONMENT OF METABOLIC DISORDERS EXHIBITING NEUROLOGICAL DYSFUNCTIONS (PKU, MAPLE SYRUP DISEASE, KERNICTERUS, REFSUM'S DISEASE) AND TO MAKE MORPHOLOGIC AND BIOCHEMICAL OBSERVATIONS.
- A300** MINIMAL BRAIN DYSFUNCTION, PH 43-67-61, CHALFANT, JAMES C., UNIVERSITY OF ILLINOIS, URBANA, ILL., 7/68-4/69, RENEWAL, \$4,900. NINDS
- NO ABSTRACT
- A305** MUCOPOLYSACCHARIDES IN NEUROLOGICAL DISORDERS NS-5947-03, RENUART, ADHEMAR W., MURDOCH CENTER, BUTNER, NORTH CAROLINA, 5/67-12/68 RENEWAL FY 67, \$19,959. NINDS
- THIS RESEARCH PROPOSES TO ELUCIDATE THE ENZYME SYSTEM FOR THE DEGRADATION OF ACID MUCOPOLYSACCHARIDES, AS SHOWN BY OTHERS, HYALURONIDASE IS ASSOCIATED MAINLY WITH THE LYSOSOMAL FRACTION OF CELLS. THE SEARCH IS CONTINUING FOR A SYSTEM IN ANIMAL TISSUES FOR DEGRADING SULFATED MUCOPOLYSACCHARIDES.
- A310** NATURE AND MECHANISMS OF CONGENITAL INFECTIONS HD-01687-04 ALFORD, CHARLES A., UNIVERSITY OF ALABAMA, BIRMINGHAM, ALABAMA 9/68-8/71, RENEWAL, \$34,421. 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.
- A315** NEONATAL PHARMACOLOGY HD4162-01; WILSON, JOHN T.; CHILDREN'S HOSPITAL AND ADULT MEDICAL CENTER; SAN FRANCISCO, CALIFORNIA; 1/69-12/71; INITIAL; \$63,066; NICHD
- THE PURPOSE OF THIS PROJECT IS TO INVESTIGATE MECHANISMS UNDERLYING SOME OF THE METABOLIC DIFFERENCES, FOR EXAMPLE DRUG METABOLISM AND BILIRUBIN CONJUGATION, BETWEEN FETAL, NEONATAL, YOUNG, AND ADULT ANIMALS. THESE MECHANISMS MAY INVOLVE HUMORAL OR ENVIRONMENTAL FACTORS WHICH, WHEN UNDERSTOOD, WILL IMPROVE THE MANAGEMENT OF AGE-SPECIFIC PROBLEMS.
- A320** NEUROLOGICAL DEVELOPMENT--INFANTS OF DIABETIC MOTHERS (HD-01813-08) HUBBELL, JOHN P., JR., BOSTON HOSPITAL FOR WOMEN, BOSTON, MASS. 6/69-5/72 RENEWAL \$10,822. 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

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- COLLABORATIVE NEONATAL STUDY OF THE NINDB. 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.
- A325 NEW AMINO ACID DISORDERS IN CEREBRAL DISEASE, NS-5096-06, SHIH, VIVIAN E., MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASS., 1/69-8/69, RENEWAL, \$22,896. 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 HD3888-01; WINICK, MYRON; CORNELL UNIVERSITY; NEW YORK, NEW YORK; 3/69-2/72; INITIAL; \$32,098; 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
- A335 NUTRITION AND DEVELOPMENT OF CHILDREN IN RURAL AREAS HD-03942-02, CHAVEZ, ADOLFO, INSTITUTO NACIONAL DE LA NUTRICION, MEXICO, D.F., MEXICO, 5/69-4/71, RENEWAL, \$23,076. 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-02912-02, METCOFF, JACK, MICHAEL REESE HOSPITAL AND MEDICAL CENTER, CHICAGO, ILL., 3/69-2/71 RENEWAL, \$36,197. 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 HD3692-01; UNGLAUB, WALTER G.; TULANE UNIVERSITY; NEW ORLEANS, LOUISIANA; 6/69-5/74; INITIAL; \$89,246; 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.
- A350 ONTOGENESIS OF ACTIVITY IN CEREBRAL NEURONS, NS-7105-03, HUTTENLOCHER, PETER R., YALE UNIVERSITY SCHOOL OF MEDICINE, NEW HAVEN, CONN., 9/68-8/69, RENEWAL, \$15,639. NINDS
- THIS RESEARCH CONCERNS THE DEVELOPMENT OF NEORONAL ACTIVITY IN IMMATURE MAMMALIAN CEREBRAL CORTEX. IT IS HOPED TO EVENTUALLY CORRELATE DEVELOPMENT OF NEORONAL FUNCTIONING WITH ANATOMICAL DEVELOPMENT OF CORTEX, AND WITH BIOCHEMICAL CHANGES OBSERVED DURING MATURATION OF THE BRAIN.
- A355 PATHOGENESIS AND MECHANICS OF PULMONARY HYPOPLASIA HD3639-01; DE LORIMIER ALFRED A.; UNIVERSITY OF CALIFORNIA; SAN FRANCISCO, CALIFORNIA; 11/68-10/71; INITIAL; \$49,113; 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.
- A360 PATHOGENESIS OF NEONATAL PHYSIOLOGIC JAUNDICE HD3783-01; GARTNER, LAWRENCE MITCHEL; YESHIVA UNIVERSITY; NEW YORK, NEW YORK; 11/68-10/71; INITIAL; \$27,118; 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 HD4308-01; CHOW, BACON F.; JOHNS HOPKINS UNIVERSITY; BALTIMORE, MARYLAND; 6/69-5/72; INITIAL; \$23,210; 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 HD4183-01; LANG, DAVID J.; DUKE UNIVERSITY; DURHAM, NORTH CAROLINA; 8/68-7/69; INITIAL; \$45,122; 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.
- A380 PHYLOGENY AND ONTOGENY OF THE CEREBRAL CORTEX, NS-3473-08, NOBACK, R., COLUMBIA UNIVERSITY, COLLEGE OF PHYSICIANS AND SURGEONS, CHARLES, NEW YORK, N.Y., 9/68-8/69, RENEWAL, FY 68, \$18,808. 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 CORTICOCORTICAL AND CORTICOSPINAL FIBERS AND VISUAL PATHWAYS TO THE CORTEX ARE BEING STUDIED IN TUPAIA GLIS AND SOME LOWER PRIMATES.
- A385 PHYSIOLOGY OF NORMAL AND ABNORMAL GROWTH AMINO ACIDS HD4588-01; NYHAN, WILLIAM L.; UNIVERSITY OF CALIFORNIA; SAN DIEGO, CALIFORNIA; 6/69-5/74; INITIAL; \$29,682; 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.
- A390 PHYSIOLOGICAL RESIDUA OF LUNG INFECTIONS IN CHILDREN HD3805-01; WISEMAN, DANIEL H.; LOS ANGELES COUNTY DEPARTMENT OF HOSPITALS; LOS ANGELES, CALIFORNIA; 12/68-11/71; INITIAL; \$26,874; NICHD
- THE PURPOSE OF THIS RESEARCH IS TO DESCRIBE THE PATHOPHYSIOLOGY OF SPECIFIC LOWER RESPIRATORY INFECTIONS IN CHILDREN AND TO DETERMINE WHETHER SIGNIFICANT RESIDUAL EFFECTS MAY PERSIST AFTER A SINGLE ACUTE EPISODE. THE ULTIMATE GOAL IS TO DEFINE THOSE ABNORMALITIES OF PULMONARY FUNCTION ASSOCIATED WITH ACUTE LOWER RESPIRATORY INFECTIONS IN ORDER THAT CLINICAL AND ROUTINE LABORATORY PROCEDURES COULD BE EMPLOYED TO TAILOR THE MOST EFFECTIVE RESPIRATORY CARE TO EACH INDIVIDUAL PATIENT.
- A395 PLANNING GRANT, STUDY OF NEONATAL HYPERBILIRUBINEMIA, NS-7936-01, DRORBAUGH, JAMES E., CHILDREN'S HOSPITAL MEDICAL CENTER, BOSTON, MASS., 11/67-2/69, INITIAL, FY 68, \$6,000. NINDS
- THE PURPOSE OF THIS RESEARCH IS TO EXPLORE THE VALUE AND FEASIBILITY OF A PAIRED GRANT PROGRAM FOR THE STUDY OF NEUROLOGICAL SEQUELAE RESULTING FROM HYPERBILIRUBINEMIA IN THE NEWBORN PERIOD.

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- A400 PRE-NATAL AND POST-NATAL MONOAMINES IN BRAIN AND HEART NS-7124-02.** LICATA, RICHARD H., DESERT RESEARCH INSTITUTE, UNIVERSITY OF NEVADA, RENO, NEVADA, 2/68-1/69, RENEWAL, FY 68, \$11,762. 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 (6282-03)** METTLER, FRED A., COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, NEW YORK, N.Y., 6/69-5/70, RENEWAL, \$19,500. 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.
- A410 PSYCHOSOCIAL DEVELOPMENT IN PRIMATES HD3915-01;** MASON, WILLIAM A.; TULANE UNIVERSITY; NEW ORLEANS, LOUISIANA; 9/68-8/73; INITIAL; \$128,390; 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 HD4067-01;** BRADY, JUNE P.; UNIVERSITY OF CALIFORNIA; SAN FRANCISCO, CALIFORNIA; 2/69-1/72; INITIAL; \$18,766; 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 RADIATION AND MORPHOLOGIC AND BEHAVIORAL DEVELOPMENT, NS-3861-07.** HICKS, SAMUEL P., UNIVERSITY OF MICHIGAN MEDICAL CENTER, ANN ARBOR, MICHIGAN, 9/68-8/69, RENEWAL, \$21,055. 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 HOMOZYGOTES AND HETEROZYGOTES OF WILSON'S DISEASE.
- A430 RED CELL AND SERUM FACTORS AS GENE MARKERS IN CHILDREN HD-02723-03** DIAMOND, LOUIS K., BLOOD GROUPING LABORATORY OF BOSTON, INC., BOSTON, MASS. 12/68-11/69. RENEWAL \$50,111. 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.
- A435 ROLE OF BRANCHED CHAIN AMINO ACIDS IN BRAIN MATURATION, NS-7588-02.** COPENHAVER, JOHN H., UNIVERSITY OF NEBRASKA, LINCOLN, NEBR., 9/68-8/69, RENEWAL, \$10,830. 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 8050-01.** WILD, GAYNOR C., UNIVERSITY OF NEW MEXICO MEDICAL SCHOOL, ALBUQUERQUE, NEW MEXICO, 12/68-11/69, INITIAL, \$24,222. 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 SEX LINKED TRAITS IN TURNERS SYNDROME - FAMILY STUDY HD3742-01;** GARRON, DAVID C.; PRESBYTERIAN-ST LUKES HOSPITAL; CHICAGO, ILLINOIS; 11/68-10/70; INITIAL; \$17,087; NICHD
- THIS RESEARCH IS CONCERNED WITH HYPOTHESIS THAT SPATIAL AND NUMERICAL 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.
- A450 STRUCTURAL AND DEVELOPMENTAL GENES IN CHILDREN (HD-02724-03).** GERALD, PARK S., CHILDREN'S HOSPITAL MEDICAL CENTER, BOSTON, MASS. 1/69-2/70, RENEWAL \$30,921. NICHD
- THIS RESEARCH PROPOSES TO DETERMINE THE ORGANIZATION OF GENES (BOTH STRUCTURAL AND DEVELOPMENTAL GENES) ON THE HUMAN CHROMOSOMES, SPECIFICALLY THE CORRELATION OF INDIVIDUAL GENETIC LOCI AND LINKAGE GROUPS WITH THE MORPHOLOGICALLY IDENTIFIABLE CHROMOSOMES TO WHICH THEY ARE LINKED.
- A455 STUDIES IN TAY-SACHS DISEASE, NS-5124-06.** BALINT, JOHN A., ALBANY MEDICAL COLLEGE, ALBANY, NEW YORK, 1/69-12/69, RENEWAL, \$15,666. 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.
- A460 STUDY OF BRAIN GANGLIOSIDES. NS-4834-06).** LEDEEN, ROBERT W., ALBERT EINSTEIN COLLEGE OF MEDICINE OF YESHIVA UNIVERSITY, BRONX, NEW YORK, 9/68-8/69, RENEWAL, \$28,587. 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-1733-11.** PORTER, HUNTINGTON, NEW ENGLAND CENTER HOSPITAL, BOSTON, MASS., 9/68-8/69, RENEWAL, \$28,457. 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-4607-06.** ZEMAN, WOLFGANG INDIANA UNIVERSITY MEDICAL CENTER, INDIANAPOLIS, INDIANA, 1/69-12/69, RENEWAL, \$42,207. 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 STUDY OF HEREDITARY NEUROMUSCULAR DISEASES, NS-6493-03.** SCHEINBERG, I. HERBERT, ALBERT EINSTEIN COLLEGE OF MEDICINE, YESHIVA UNIVERSITY, BRONX, N.Y., 6/68-8/69, RENEWAL, FY 68, \$107,443. NINDS
- THIS RESEARCH IS COLLECTING GENETICALLY ORIENTED INFORMATION AND ANALYZING BLOOD FROM YOUNG CHILDREN TO DETECT: 1. WILSON'S DISEASE 2. AGAMMAGLOBULINEMIA 3. HEREDITARY ANGIONEUROTIC EDEMA.

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- A480 STUDIES IN GENETICALLY-DETERMINED NEUROLOGICAL DISEASES, NS-7701-03, (FORMERLY 3255-07), AUSTIN, JAMES H., UNIVERSITY OF COLORADO MEDICAL CENTER, DENVER, COLO., 9/68-8/69, RENEWAL, \$52,530. 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.
- A485 TERATOLOGICAL STUDIES WITH INBRED MICE HD-03502-02, KALTER, HAROLD, CHILDRENS HOSP, RESEARCH FDN., CINCINNATI, OHIO, 5/69-4/71, RENEWAL, \$18,782. NICHD**
THIS STUDY IS CONCERNED WITH EXTRINSICALLY INDUCED AND SPONTANEOUS MALFORMATIONS IN MICE. HEREDITARY AND NON-HEREDITARY FACTORS OF SUSCEPTIBILITY WILL BE INVESTIGATED.
- A490 THE GROWTH OF COGNITIVE ABILITIES IN YOUNG CHILDREN (MH-8498-06) BLANK, MARION S., YESHIVA UNIVERSITY COLLEGE OF MEDICINE, NEW YORK, N.Y. 1/69 RENEWAL \$18,745. 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-6448-04 MEIER, HANS, JACKSON LABORATORY, BAR HARBOR, MAINE, 1/69-12/69, RENEWAL, \$31,932. 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, Y., (1) 9/68-12/69 (2) 5/69-12/69, RENEWAL (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 HD3908-01; BEARD, ALICE GAMBLE; UNIVERSITY OF ARKANSAS; LITTLE ROCK, ARKANSAS; 9/68-8/71; INITIAL \$20,878; 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.
- A510 THREE PROBLEMS IN EXPERIMENTAL PATHOLOGY, NS-3670-08, VOGEL, F. STEPHEN, DUKE UNIVERSITY, DURHAM, NORTH CAROLINA, 6/68-5/69, RENEWAL, FY 68, \$43,934. NINDS**
THIS RESEARCH CONCERNS THE COUNT OF MITOCHONDRIA OF AGARICUS CAMPESTRIS ESTABLISHED IN EXTRACELLULAR CULTURES USING POLYSTYRENE BEADS AS THE MARKER AND EM FOR VISUALIZATION. DIPHASIC GROWTH WAS OBSERVED WHEREIN A SEVERAL-FOLD INCREMENT OCCURRED DURING THE FIRST 2 DAYS, FOLLOWED BY A DECREASE AND THEN BY A FURTHER INCREMENT DURING DAYS 4 AND 5. ALTHOUGH NUCLEIC ACID SYNTHESIS WAS DEMONSTRABLE DURING THE EARLY PHASE, PROTEIN SYNTHESIS WAS LARGELY CONFINED TO THE LATTER.
- A515 THYROID FUNCTION IN THE FETUS AND NEWBORN HD4270-01; FISHER, DELBERT ARTHUR; LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL; TORRANCE, CALIFORNIA; 6/69-5/72; INITIAL; \$60,013; NICHD**
THESE STUDIES UTILIZE THE FETAL AND NEWBORN LAMB AS EXPERIMENTAL MODELS FOR THE EXAMINATION OF THYROID AND PITUITARY-THYROID PHYSIOLOGY. IT IS BELIEVED THAT THESE STUDIES WILL FURTHER THE UNDERSTANDING OF MECHANISMS FOR ADAPTATION TO EXTRAUTERINE LIFE AND WILL CONTRIBUTE TO THE HANDLING OF THYROID DISORDERS DURING GESTATION AND TO THE CARE OF THE NEWBORN. SOME OF THESE DISORDERS HAVE PROFOUND EFFECTS ON BRAIN MATURATION.
- A520 TISSUE CULTURE IN HEREDITARY DISORDERS HD4252-01; NADLER, HENRY L.; CHILDRENS MEMORIAL HOSPITAL; CHICAGO, ILLINOIS; 5/69-4/72; INITIAL; \$31,934; 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.
- A525 TRANSFER OF VIRAL INFECTIONS ACROSS THE PLACENTA HD-02289-03 HILDEBRANDT, RICHARD J., UNIVERSITY OF FLORIDA, GAINESVILLE, FLA. 7/68-6/69, RENEWAL, \$34,247. NICHD**
THIS RESEARCH FOCUSES ON THE TRANSFER OF CYTOMEGALOVIRUS ACROSS THE PLACENTA IN VARIOUS SPECIES OF MAMMALS, USING VIROLOGIC TECHNIQUES WHICH ARE BEING USED IN THE LABORATORY OF THE SECTION ON INFECTIOUS DISEASES. EVIDENCE HAS IMPLICATED THIS VIRUS IN INFECTIONS OF BOTH THE FETUS AND THE NEWBORN.
- A530 VIRAL HEMORRHAGIC ENCEPHALITIS, NS-7019-03, NATHANSON, NEAL, JOHNS HOPKINS UNIVERSITY SCHOOL OF HYGIENE AND PUBLIC HEALTH, BALTIMORE, MARYLAND, 2/69-1/70, RENEWAL, \$31,621. 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.
- A535 VIRUS-CELL INTERACTION REPLICATION AND DIFFERENTIATION, NS-5545-05, MARGOLIS, GEORGE, DARTMOUTH MEDICAL SCHOOL, DARTMOUTH COLLEGE, HANOVER, NEW HAMPSHIRE, 1/69-12/69, RENEWAL, \$78,288. 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.

EPIDEMIOLOGY

- B005 EPIDEMIOLOGY OF MENTAL RETARDATION IN A RURAL COUNTY H-34 IMRE, PAUL D., JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND, 12/68-5/70 RENEWAL, \$50,000, SRS-CB**
THIS RESEARCH PROPOSES TO UNCOVER EVERY CASE OF MENTAL RETARDATION IN AN ENUMERATED AND CLINICALLY 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.
- B010 HUMAN CHROMOSOMAL DEFECTS-EPIDEMIOLOGY & ETIOLOGY HD-00622-05A1 ROBINSON, ARTHUR, UNIVERSITY OF COLORADO, DENVER, COLO. 7/68 6/70 RENEWAL \$19,666. 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.
- B015 SOCIOBEHAVIORAL STUDY CENTER FOR MENTAL RETARDATION (MH-8667-05) DINGMAN, HARVEY F., PACIFIC STATE HOSPITAL, POMONA, CALIFORNIA 10/69 RENEWAL \$468,109. 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 HD3367-01A1; ALEXANDER, E RUSSEL; UNIVERSITY OF WASHINGTON; SEATTLE, WASHINGTON; 9/68-8/72; INITIAL; \$69,409; NICHD**

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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.

- B025** WORKSHOP ON HEREDITARY NEUROMUSCULAR DISEASES, NS-7668-01, JANEWAY, CHARLES A., NATIONAL FOUNDATION FOR NEUROMUSCULAR DISEASES, INC., NEW YORK, N.Y., 6/67-5/69, INITIAL, FY 67, \$20,000. NINDS

THIS PROJECT WILL DEVELOP A LIMITED ATTENDANCE WORKSHOP CONFERENCE ON NEUROMUSCULAR DISEASES. THE GOAL OF THIS EFFORT IS THE DETECTION OF INDIVIDUALS GENETICALLY PREDETERMINED TO DEVELOP SERIOUS AND DEBILITATING DISEASES.

PATHOPHYSIOLOGY

- C005** ABNORMAL AMINO ACID METABOLISM IN MENTAL RETARDATION HD-01326-05 GREER, MELVIN, UNIVERSITY OF FLORIDA, GAINESVILLE, FLA. 1/69-12/69 RENEWAL \$13,080. NICHD

THIS RESEARCH CONCERNS THE DETECTION, WITH THE AID OF GAS- LIQUID CHROMATOGRAPHY, OF CERTAIN DISORDERS OF METABOLIC ORIGIN CAUSING CEREBRAL DYSFUNCTION AND MENTAL RETARDATION. THE CLINICAL COURSE MAY BE OBSERVED BY MEASUREMENT OF CERTAIN BIOCHEMICAL PARAMETERS.

- C010** A CENTER FOR RESEARCH IN HUMAN LEARNING HD-01136-05 DARLEY, JOHN G., UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINN. 9/68-8/72 RENEWAL \$130,862. 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.

- C015** AMINE METABOLISM IN PKU AND MENTAL DISORDERS HD4113-01; BLAU, KARL F.; UNIVERSITY OF NORTH CAROLINA; CHAPEL HILL, NORTH CAROLINA; 2/69-1/72; INITIAL; \$34,926; 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.

- C020** AMINO ACID INTERRELATIONS IN HUMAN METABOLIC DISEASE (HD-02609-06S) NYHAN, WILLIAM L., UNIVERSITY OF MIAMI, MIAMI, FLA., 1/69-5/69 RENEWAL \$6,714. NICHD

THIS RESEARCH PROPOSES TO INVESTIGATE THE INTERRELATIONSHIPS OF AMINO ACIDS IN METABOLIC DISEASES. A NEW DISORDER OF AMINO ACID METABOLISM IS UNDER STUDY 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.

- C025** AMNIOTIC FLUID CONSTITUENTS IN FETAL ERYTHROBLASTOSIS HD-02239-04 CHERRY, SHELDON H., MT. SINAI, SCHOOL OF MEDICINE, NEW YORK, N Y 6/69-5/70, RENEWAL, \$34,900. NICHD

THIS RESEARCH PROPOSES TO INVESTIGATE THE QUALITATIVE AND QUANTITATIVE DIFFERENCES BETWEEN THE CONSTITUENTS OF AMNIOTIC FLUID IN NORMAL PREGNANCIES AND THOSE COMPLICATING THE PRESENCE OF FETAL ERYTHROBLASTOSIS AND THEREBY IMPROVE OUR UNDERSTANDING OF THE PATHOGENESIS AND ANTE-NATAL MANAGEMENT OF THIS DISEASE.

- C030** BACTERIURIA IN THE PREMATURE INFANT HD-03382-02, HODGMAN, JOAN E., LOS ANGELES COUNTY DEPT OF HOSP, LOS ANGELES, CALIF., 4/69-3/72, RENEWAL, \$43,832. 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.

- C035** BASIC CORRELATES OF NEONATAL SUCKING BEHAVIOR HD-02458-03 KAYE, HERBERT, EMORY UNIVERSITY, ATLANTA, GEORGIA, 1/69-12/69 RENEWAL \$38,731. NICHD

THIS RESEARCH PROPOSES TO EXAMINE SIMPLE BEHAVIORAL AND PSYCHO- PHYSIOLOGICAL PATTERNS IN INFANTS FROM NORMAL AND SUSPECT POPULATIONS AND TO RELATE SPECIFIC DIFFERENCES IN PATTERNS TO PRE-AND PERINATAL FACTORS, TO CONDUCT STUDIES TO REFINE BASIC LEARNING AND SENSORY ASSESSMENT TECHNIQUES NOW USING THE SUCKING RESPONSE, AND TO RELATE THIS WORK TO THE GENERAL LAWS OF BEHAVIOR.

- C040** BEHAVIOR FOLLOWING REARING IN A RANDOM ENVIRONMENT HD-02325-03 MILES, RAYMOND C, UNIVERSITY OF COLORADO, BOULDER, COLO., 10/68 9/69 RENEWAL \$22,415. NICHD

THIS RESEARCH PROPOSES TO SYSTEMATICALLY ASSESS BEHAVIORAL EFFECTS OF REARING IN AN ENVIRONMENT WHERE PRACTICALLY ALL EXTERNAL STIMULUS CHANGES OCCUR IN AN UNPREDICTABLE MANNER.

- C045** BEHAVIOR IN THE PROGENY OF UNDERFERED MOTHERS HD-02984-03, CHOW, BACON F., JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND, 6/69-5/72 RENEWAL, \$26,574. 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.

- C050** BILIRUBIN DISPOSITION IN THE NEWBORN, NS-5841-05, SCHENKER, STEVEN, UNIVERSITY OF TEXAS SOUTHWEST MEDICAL SCHOOL, DALLAS, TEXAS, 9/68-4/70, RENEWAL, FY 68, \$29,239. NINDS

THIS RESEARCH PROPOSES TO STUDY THE INTERFERENCE WITH CEREBRAL ENERGY METABOLISM DUE TO EXCESS NH₃ AS A CAUSE OF HEPATIC ENCEPHALOPATHY.

- C055** BILIRUBIN METABOLISM DURING THE PERINATAL PERIOD HD-03148-02, THALER, M. MICHAEL, UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIF., 2/69-1/70 RENEWAL, \$40,949. NICHD

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

- C060** BIOCHEMICAL AND ANIMAL STUDIES IN MENTAL RETARDATION HD-00341-09 WAISMAN, HARRY AARON, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN, 6/69- 5/70 RENEWAL, \$147,330. NICHD

THIS RESEARCH CONCERNS -MAPPING- OF IN VIVO BRAIN PROTEIN SYNTHESIS BY DEAE CELLULOSE 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.

- C065** BIOCHEMICAL AND MOLECULAR BASIS OF MENTAL DISEASE HD-01594-05, SHAW, KENNETH N.F., CHILDREN'S HOSPITAL OF LOS ANGELES, LOS ANGELES, CALIFORNIA, 6/69-5/70 RENEWAL \$97,170. 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.

- C070** BIOCHEMICAL CORRELATES OF CHROMOSOMAL ANOMALIES HD-02044-03 PAINE, RICHMOND S., CHILDREN'S HOSPITAL OF D.C., WASHINGTON, D.C. 8/68-7/69 RENEWAL \$36,149. NICHD

THIS RESEARCH AIMS TO DETECT CORRELATIONS BETWEEN BIOCHEMICAL AND CHROMOSOMAL ABNORMALITIES IN PATIENTS AND IN CLINICALLY NORMAL CARRIERS, AND TO COMPARE THESE WITH PHYSICAL FINDINGS, DERMATOGLYPHICS, INTELLIGENCE AND OTHER CLINICAL DATA. THIS IS AN EXTENSION OF STUDIES OF TRISOMIC AND TRANSLOCATION MONGOLS UNDER A CONTRACT WITH THE DIVISION OF CHRONIC DISEASES, AND ITS EXTENSION TO CHROMOSOMAL ABERRATIONS OTHER THAN MONGOLISM.

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- C075 BIOCHEMICAL DEFECTS RELATED TO CONGENITAL ANOMALIES** HD-03448-02, SCHAFER, IRWIN A., CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, 9/68-8/73, RENEWAL, \$48,443. 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 MYELINATION**, NS 5300-05, (NOW NS 8719-01), MCKHANN GUY M., JOHNS HOPKINS HOSPITAL, BALTIMORE, MD., 1/69-12/69, 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, MOSCATELLI, EZIO A., UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL SCHOOL, DALLAS, TEXAS, 9/68-4/70, RENEWAL, \$10,976. 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.
- C090 BIOLOGIC EFFECTS OF ABO HETEROSPECIFIC PREGNANCY**, (1) HD-01461-11S1, (2) HD-01461-13, KAPLAN, EUGENE, SANAI HOSPITAL OF BALTIMORE, BALTIMORE, MARYLAND, (1) 3/68-3/70, (2) 4/69-3/70, RENEWAL (1) \$6,570, (2) \$49,861. NICHD
THIS RESEARCH CONCERNS THE SIGNIFICANCE OF REDUCED RED CELL ACETYLCHOLINESTERASE ACTIVITY IN NEWBORN INFANTS OF ABO HETEROSPECIFIC PREGNANCY UNDER CONTINUED INVESTIGATION BY CLINICAL, BIOCHEMICAL, AND ANIMAL STUDIES.
- C095 BIOSYNTHESIS OF PULMONARY SURFACE ACTIVE LIPIDS** HD-02354-03 MORGAN, THOMAS E., JR., UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON, 9/68-8/69, RENEWAL, \$23,377. 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.
- C100 BRAIN BARRIER SYSTEM MECHANISMS FOR AMINO ACIDS**, NS-4360-07, LAJTHA, ABEL, RESEARCH FOUNDATION FOR MENTAL HYGIENE, INC., ALBANY, N.Y., 1/69-12/69, RENEWAL, \$30,385. 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-3262-08, (COMBINED WITH NB 4792-05 TO (NOW FORM NS 8359-01) SIDMAN, RICHARD L., HARVARD MEDICAL SCHOOL, BOSTON, MASS., 1/69-12/69, RENEWAL, \$133,462. 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-7457-03, WILSON JOHN E., UNIVERSITY OF NORTH CAROLINA SCHOOL OF MEDICINE, CHAPEL HILL, N.C., 3/69-2/70, RENEWAL, \$36,093. 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-4928-05, POSNER, JEROME B., CORNELL UNIVERSITY MEDICAL COLLEGE, NEW YORK, N.Y., 9/68-8/69, RENEWAL, FY 68, \$29,165. NINDS
- C120 CENTER FOR NORMAL AND ABERRANT ADAPTIVE DEVELOPMENT** HD-00719-08 BIRCH, HERBERT G., YESHIVA UNIVERSITY, NEW YORK, N.Y., 10/68-9/73 RENEWAL \$330,639. 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.
- C125 CENTRAL NERVOUS SYSTEM SEQUELAE OF PREMATURITY** HD-02081-03 GOLDMAN, HERBERT I., LONG ISLAND JEWISH HOSPITAL, NEW HYDE PARK, NEW YORK, 1/69-12/69 RENEWAL \$27,548. 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 4% 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.
- C130 CELL ORGANELLE DYSFUNCTION IN NEUROLOGICAL DISEASE**, NS 8276-01, HERMAN, MARY M., STANFORD UNIVERSITY, STANFORD, CALIF., 2/69-1/70, INITIAL, \$37,024. 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-6294-04, SELLINGER, O.Z., UNIVERSITY OF MICHIGAN SCHOOL OF MEDICINE, ANN ARBOR, MICH., 6/69-5/70, RENEWAL, \$55,195. NINDS
THIS RESEARCH INVOLVES DELINEATION OF THE MODE OF ATTACHMENT OF CEREBRAL GLUTAMINE SYNTHETASE TO SUBCELLULAR MEMBRANES, INVESTIGATING THE DIVERSITY IN SUBCELLULAR LOCALIZATION OF CEREBRAL LYSOSOMAL HYDROLASES AND STUDY OF THE MECHANISMS WHEREBY METHIONINE SULFOXIMINE, A CONVULSANT WITH PERIODIC ACTION INACTIVATES THE ENZYME GLUTAMINE SYNTHETASE.
- C140 CEREBROVASCULAR RESPONSE TO EMBRYONIC OVERGROWTH** HD-01679-04 BURDA, DORIS J., STANFORD UNIVERSITY, STANFORD, CALIF., 2/69-8/69 RENEWAL \$24,628. NICHD
THIS RESEARCH CONCERNS DEVELOPMENTAL INTERRELATIONSHIPS BETWEEN THE CEREBROVASCULAR SYSTEM AND THE EMBRYONIC BRAIN. A STUDY WILL BE MADE OF CHANGES IN THE INTRACRANIAL ARTERIAL PATTERN IN THE BRAINS OF CHICK EMBRYOS.
- C145 CHEMICAL EVALUATION OF FETAL RESPIRATION AND DISTRESS** HD-03356-02, SEEDS, ASA ELMORE JR., JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD., 3/69-2/71, RENEWAL, \$19,007. NICHD
THIS RESEARCH IS CONCERNED WITH THE DEVELOPMENT OF A CLINICALLY USEFUL CHEMICAL INDEX OF FETAL STATUS IN UTERO VIA ACID BASE MEASUREMENTS OF AMNIOTIC FLUID AND FETAL CAPILLARY BLOOD DURING LABOR.
- C150 CHEMICAL STUDY OF CONGENITAL MENTAL DEFECTS** HD-00198-11, HOLT, L. EMMETT, JR., NEW YORK UNIVERSITY, NEW YORK, N.Y., 9/68-8/71 RENEWAL \$38,694. NICHD
THIS RESEARCH CONCERNS DIETOTHERAPY AND CLOSE OBSERVATION OF CHILDREN PRESENTLY UNDER TREATMENT FOR MAPLE SYRUP URINE DISEASE. THE FORMATION OF ALLOISOLEUCINE AFTER A LOAD OF ISOLEUCINE WILL BE INVESTIGATED AS A POSSIBLE MEANS OF DIFFERENTIATING THE HETEROZYGOUS CARRIER OF THE DISEASE FROM THE NORMAL.
- C155 CNS MATURATION & EVOKED RESPONSES IN PREMATURE INFANT** HD-01405-04SI WEITZMAN, ELLIOT D., YESHIVA UNIVERSITY, NEW YORK, N.Y., 1/69-6/69 RENEWAL \$7,560. NICHD
THIS RESEARCH PROPOSES TO CORRELATE THE ELECTROENCEPHALOGRAPHIC FINDINGS, SENSORY EVOKED RESPONSES

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- 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.
- C160 COGNITION & ATTITUDE IN TURNERS SYNDROME HD-01716-04 GARRON, DAVID C., PRESBYTERIAN-ST. LUKE'S HOSPITAL, CHICAGO, ILL., 9/68-8/69 RENEWAL \$14,074 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.
- C165 CONGENITAL MALFORMATIONS IN MAMMALS HD-00502-09, WARKANY, JOSEF, CHILDREN'S HOSPITAL RESEARCH FOUNDATION, CINCINNATI, OHIO, 9/68-8/70 RENEWAL \$70,353. 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.
- 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.
- C175 COMMUNICATION DISORDERS OF THE MENTALLY RETARDED, SCHIEFELBUSCH, R.L., UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, (1) HD-00870-04\$2, (2) HD-00870-06, (1) 4/67-9/70, (2) 10/68-9/70, RENEWAL, (1) \$2,357, (2) \$313,471. 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.
- C180 COMPLEX GLYCOLIPIDS OF BRAIN AND RELATED SYSTEMS, NS 8258-01, ROSENBERG, ABRAHAM G., PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA., 10/68-9/69, INITIAL, \$94,209. 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.
- C185 CORRELATIVE REFLEX STUDIES IN MAN AND ANIMALS, NS-367-18, MAGLADERY, J.W., JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE, BALTIMORE, MD., 8/67-4/69, RENEWAL, FY 68, \$6,863. NINDS
THIS RESEARCH IS CONCERNED WITH THE INTEGRATIVE MECHANISMS ASSOCIATED WITH MYOTATIC AND CUTANEOUS REFLEX ACTIVITY IN ORDER TO UNDERSTAND FEATURES OF TONE, POSTURE AND VOLUNTARY AND INVOLUNTARY MOVEMENT AND THEIR ALTERATION IN DISEASE, DEVELOPMENT AND AGING.
- C190 CORTICAL DENDRITES, NS-7870-02, (FORMERLY NB-4239-05), COLEMAN, PAUL, UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY, ROCHESTER, N.Y. 1/69-12/69, RENEWAL, \$25,885. 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-2255-11, TERRY, ROBERT D., ALBERT EINSTEIN COLLEGE OF MEDICINE YESHIVA UNIVERSITY, BRONX, N.Y., 12/68-1/69, RENEWAL, \$50,874. 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 DEVELOPMENT OF HIGH VOLTAGE ELECTROPHORESIS USES HD-00040-06 MABRY, C. CHARLTON, UNIVERSITY OF KENTUCKY, LEXINGTON, KY., 2/69-1/70, RENEWAL \$14,248. NICHD
THIS RESEARCH INCLUDES DEVISING HYPER MEANS FOR THE RAPID PARTITION OF CERTAIN ORGANIC SUBSTANCES IN BIOLOGIC FLUIDS AND PERFECTING THEIR SUBSEQUENT QUANTITATIVE MEASUREMENT BY APPROPRIATE COLOR DEVELOPMENT AND DIRECT DENSITOMETRY. THE CLINICAL PHASE OF THE PROJECT INCLUDES THE SCREENING AND STUDYING PATIENTS WITH PERINEUROLOGIC AND/OR METABOLIC DEFICITS POSSIBLY INVOLVING THE ORGANIC SUBSTANCES TO BE MEASURED IN THEIR SERA AND URINE.
- C205 EARLY EXPERIENCE-INTELLECTUAL AND ADAPTIVE DEVELOPMENT HD-03720-02, DAVENPORT, RICHARD K. JR., EMORY UNIVERSITY, ATLANTA, GA., 6/69-5/71, RENEWAL, \$31,155. NICHD
THIS STUDY WILL INVESTIGATE THE INTELLECTUAL AND SOCIAL CONSEQUENCES OF DIFFERENT TYPES OF EARLY ENVIRONMENTS IN CHIMPANZEES.
- C210 EFFECT OF AMINO ACID LEVELS ON PROTEIN BIOSYNTHESIS HD-03691-02, RUDOLPH, NATHAN, MAIMONIDES MEDICAL CTR, NEW YORK, N.Y., 5/69-4/71, RENEWAL, \$15,152. 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.
- C215 EFFECT OF AMINO ACIDS ON METABOLISM, EEG, AND BEHAVIOR, HD-01823-07, MCKEAN, CHARLES M., CALIFORNIA STATE DEPT OF MENTAL HYGIENE ELDRIDGE, CALIFORNIA, 4/69-3/73, RENEWAL, \$112,023. 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.
- C220 EFFECT OF GROWTH ON BULK RNA AND A NEW RNA FRACTION, NS-6734-02, PENN., NATHAN W., WILLOWBROOK STATE SCHOOL, STATEN ISLAND, N.Y., 2/68-8/69, RENEWAL, FY 68, \$11,180. NINDS
THIS RESEARCH CONCERNS THE STUDY OF THE PARTICIPATION OF DRNA IN THE INCORPORATION OF AMINO ACIDS INTO BRAIN PROTEIN.
- C225 EFFECTS OF ACUTE BILIRUBIN INTOXICATION ON THE CNS, NS-6899-03, SCHUITA, HENRY S., PENNSYLVANIA HOSPITAL, PHILADELPHIA, PA., 1/69-12/69, RENEWAL, \$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.
- C230 EFFECTS OF VIRUSES ON HUMAN CHROMOSOMES HD-02774-03, EISEN, JAMES D., UNIVERSITY OF NEBRASKA, OMAHA NEBR., 10/68-9/69, RENEWAL, \$24,419. NICHD
THIS RESEARCH ATTEMPTS TO FURTHER ELUCIDATE THE ROLE 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 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.
- C235 ELECTROENCEPHALOGRAPHIC STUDIES IN NEWBORN AND YOUNG INFANTS, NS-3166-09 ENGEL, RUDOLF C.H., UNIVERSITY OF OREGON MEDICAL SCHOOL, PORTLAND, ORE. 1/69-12/69 RENEWAL \$25,536. NINDS

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- 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.
- C240 ELECTRON MICROSCOPY AND BIOCHEMISTRY OF LIPIDOSES, VOLK, BRUNO W., ISAAC ALBERT**
RESEARCH INSTITUTE OF JEWISH CHRONIC DISEASE, (1) NS 2977-07, (2) NS-2977-07S1, (3) NS-2977-07S2, HOSPITAL, BROOKLYN, NEW YORK, (1) 8/67-12/68, (2) 5/68-12/68, (3) 5/68-12/68, RENEWAL, (1) \$24,513, (2) \$5,540, (3) \$2,718. NINDS
- THIS RESEARCH PROPOSES TO DETERMINE WHETHER A CELLULAR DEFICIENCY OF AN ACID HYDROLASE IS BASIC TO THE PATHOGENESIS OF SOME LIPIDOSES, TO INVESTIGATE THE DEVELOPMENT OF THESE LESIONS TO DETERMINE THEIR MORPHOGENESIS AND RELATIONSHIP TO OTHER CELLULAR ORGANELLES AND TO EVALUATE THE STORAGE PROCESS IN SEVERAL STRAINS OF SERIALY SACRIFICED MICE WITH HEREDITARY STORAGE OR DEMYELINATING DISEASES.
- 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.
- C250 ELECTRON MICROSCOPY OF NUTRITIONAL ENCEPHALOPATHY, NS-6918-02, YOUNG PAUL A., ST. LOUIS UNIVERSITY SCHOOL OF MEDICINE, ST. LOUIS, MO., 2/68-8/69, RENEWAL, FY 68, \$23,553. NINDS**
- THIS RESEARCH PROPOSES TO PRODUCE CEREBELLAR DEGENERATION IN NEWLY-HATCHED CHICKENS BY FEEDING THEM ON DIETS HIGH IN UNSATURATED FATS AND DEFICIENT IN VITAMIN E. CHICKENS FED ON NORMAL DIETS WITH ADEQUATE AMOUNTS OF VITAMIN E WILL BE USED AS CONTROLS. AT SELECTED TIMES EXPERIMENTAL AND CONTROL ANIMALS WILL BE KILLED AND THE CEREBELLAR TISSUE REMOVED AND PROCESSED FOR ELECTRON MICROSCOPIC STUDY.
- C255 EMBRYOGENESIS OF THE ADRENERGIC NERVOUS SYSTEM, NS-7255-03, MIRKIN, BERNARD L., UNIVERSITY OF MINNESOTA SCHOOL OF MEDICINE MINNEAPOLIS, MINN., 6/69-5/70, RENEWAL, \$23,012. 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.
- C260 ENGAGE IN A PROGRAM FOR INVESTIGATIONS OF HISTOLOGICAL FACTORS RESPONSIBLE FOR NEURO AND SENSORY DISORDERS PH 43-68-1041, MYERS, RONALD, UNIVERSITY OF PUERTO RICO, SAN JUAN, PUERTO RICO, 7/68-6/70, RENEWAL, \$50,000. NINDS CONTRACT**
NO ABSTRACT
- C265 ETIOLOGY OF PERINATAL BRAIN DAMAGE, NS 1620-09, COWEN, DAVID, COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, NEW YORK, N.Y., 4/67-3/70, RENEWAL, FY 67, \$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.
- C270 EXPERIMENTAL CNS LESIONS AND PSYCHOSOMATIC MATURATION HD-02277-04 KLING, ARTHUR, UNIVERSITY OF ILLINOIS, CHICAGO, ILL., 6/69-5/70 RENEWAL \$60,262. NICHD**
- THIS RESEARCH PROPOSES TO CONTINUE ITS INVESTIGATIONS INTO THE DIFFERENTIAL EFFECTS OF EARLY VS. LATE LOCALIZED BRAIN INJURY IN CARNIVORS AND PRIMATES. THE PROGRAM IS BEING EXTENDED TO INVESTIGATE THE NEUROL MECHANISMS BY WHICH FUNCTIONAL SPARING FOLLOWING ABLATIONS OF ANATOMICALLY DEFINED BRAIN AREAS OCCURS BY EXTENDING THE ABLATIONS TO INCLUDE RELATED CORTICAL REGIONS AND RELATED SUBCORTICAL STRUCTURES IN CAT AND MONKEY.
- C275 EXPERIMENTAL METABOLIC ENCEPHALOPATHIES, NS-7336-02, FISHMAN, ROBERT A., UNIVERSITY OF CALIFORNIA MEDICAL CENTER, SAN FRANCISCO, CALIF., 6/68-5/69, RENEWAL, FY 68, \$70,075. 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.
- C280 EXPERIMENTAL PKU INDUCED BY ENZYME INHIBITORS HD-01972-04, MITOMA, CHOZO, STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIF., 4/69-3/72 RENEWAL, \$30,847. 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.
- C285 EXPERIMENTAL PHENYLKETONURIA IN INFANT RATS HD 02669-03 LONGENECKER, J.B., UNIVERSITY OF TEXAS, AUSTIN, TEXAS, 1/69-12/69 RENEWAL, \$22,326. NICHD**
- THIS RESEARCH PROPOSES TO PRODUCE A PERMANENT MENTAL DEFECT IN RATS BY NUTRITIONAL AND/OR BIOCHEMICAL MEANS WHICH MAY DUPLICATE THOSE FOUND IN PHENYLKETONURIA AND LEAD TO THE SAME TYPE PERMANENT BRAIN DAMAGE AS OCCURS IN THE HEREDITARY DISEASE. THE EVENTUAL AIM IS TO USE THIS EXPERIMENTAL SYSTEM TO DETERMINE WHETHER THE SEVERE AMINO ACID IMBALANCE IN THE BLOOD CAN AFFECT PROTEIN SYNTHESIS IN THE BRAIN IN SUCH A WAY SO THAT MENTAL DEVELOPMENT IS PERMANENTLY IMPAIRED.
- C290 FACTORS INFLUENCING EXPERIMENTAL KERNICTERUS HD-02015-04, LUCEY, JEROLD F., UNIVERSITY OF VERMONT, BURLINGTON, VT., 2/69-1/71 RENEWAL \$26,359. 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 NEWBORN ANIMAL SPECIES. ASPHYXIA, ACIDOSIS, HYPOGLYCEMIA, HYPOALBUMINEMIA, HYPOCALCEMIA AND RESPIRATORY DISTRESS WILL BE CONSIDERED.
- C295 FETAL AND NEONATAL DETOXIFICATION MECHANISMS HD-02800-03 BROWN, AUDREY K., MEDICAL COLLEGE OF GEORGIA, AUGUSTA, GA., 10/68-9/71 RENEWAL, \$26,036. NICHD**
- THIS RESEARCH PROPOSES TO INVESTIGATE FACTORS INFLUENCING EXCRETION OF BILIRUBIN AND TO STUDY THE FUNCTION OF EXCRETION OF BILIRUBIN AND THE RATE OF BILE FLOW IN NEWBORN ANIMALS. THE BILE WILL BE ASSESSED FOR BILIRUBIN C-14 AND BSP S-35 WHICH WILL BE INFUSED THROUGH THE FEMORAL VEIN.
- C300 FETAL AND NEONATAL PITUITARY-THYROID PHYSIOLOGY HD-02200-02, SCHINDLER, WILLIAM J., BAYLOR UNIVERSITY, HOUSTON, TEX., 9/68-8/70, RENEWAL, \$23,140. NICHD**
- THIS STUDY WILL INVESTIGATE THE EFFECTS OF THYROID LEVEL DURING FETAL AND NEONATAL PERIODS ON BIOCHEMICAL, BEHAVIORAL AND PHYSIOLOGICAL DEVELOPMENT.
- C305 DYNAMICS OF RAT FETAL INSULIN SECRETION HD-02171-03, STEINKE, JURGEN, HARVARD UNIVERSITY, BOSTON, MASS., 7/68-6/71 RENEWAL, \$29,972. NICHD**
- THIS RESEARCH CONCERNS ELEVATED LEVELS OF ACID ETHANOL EXTRACTABLE PANCREATIC INSULIN IN FETUSES OF MOTHERS WITH DIABETES, MOTHERS TREATED WITH LARGE DOSES OF STEROIDS OR SEX HORMONES DURING PREGNANCY, AND IN BABIES WITH SEVERE ERYTHROBLASTOSIS FETALIS. THE LATTER FINDING WAS COMPLETELY UNEXPECTED AND HAS PROMPTED A DETAILED STUDY.
- C310 FINE STRUCTURE OF ABNORMAL NEUROGENESIS HD-01922-03, MC DONALD, THOMAS F., MEDICAL COLLEGE OF GEORGIA, AUGUSTA, GA., 8/68-12/69 RENEWAL, \$22,842. NICHD**
- THIS RESEARCH PROPOSES A BROAD STUDY OF MALFORMATIONS OF THE CENTRAL NERVOUS SYSTEM USING ELECTRON MICROSCOPY TO INVESTIGATE THE EARLY DEVELOPMENT OF MALFORMATIONS AS FOUND IN EXPERIMENTAL ANIMALS AFTER TREATMENT WITH VARIOUS TERATOGENS AND AS MAY BE SEEN IN CONCEPT COLLECTED FROM HUMAN ABORTIONS.

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- C315 FUNCTIONAL ASPECTS OF PULMONARY IMMATUREITY** HD-02644s03, AULD, PETEOIA M., CORNELL UNIVERSITY, NEW YORK, N.Y., 1/69-12/69 RENEWAL, \$21,399. 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.
- C320 GANGLOSID INDUCTION DURING EMBRYONIC**
DEVELOPMENT, NS-5104-05, DAIN, JOEL A.,
UNIVERSITY OF RHODE ISLAND, KINGSTON, R.I., 9/68-
8/69, RENEWAL, \$12,522. NINDS
THIS RESEARCH IS CONCERNED WITH GLYCOLIPID SIALYL-
TRANSFERASE AND GLYCOLIPID GALACTOSYL TRANSFERASE
INDUCTION AND THE GANGLOSID LEVELS IN THE GERM
LAYERS AT THE LATE GASTRULA IN THE FROG. IT WILL AT-
TEMPT TO CORRELATE THE INDUCTION OF SYNTHESIS OF 4
MAJOR GANGLOSIDES WITH THE FORMATION OF NEUROLOGI-
CAL STRUCTURE.
- C325 GENETICS OF BRAIN ANATOMY AND BEHAVIOR** HD-
02491-03, WIMER, RICHARD E., JACKSON
LABORATORY, BAR HARBOR, MAINE, 2/69-1/72,
RENEWAL, \$44,480. NICHD
THIS RESEARCH PROPOSES TO DETERMINE THE RELATIONSHIP
BETWEEN BEHAVIOR AND CHOSEN ANATOMICAL CHARAC-
TERISTICS OF THE BRAIN. BY SELECTIVE BREEDING OF MICE,
PHENOTYPIC EXTREMES IN RELATIVE AMOUNTS OF TOTAL
BRAIN TISSUE, NEOCORTX, AND HIPPOCAMPUS SHALL BE
PRODUCED AND ASSOCIATED CHANGES IN BEHAVIOR SHALL BE
SOUGHT AND ANALYZED.
- C330 STORAGE DISEASE - INTRACELLULAR TRANSPORT AND**
DIGESTION, 6856-02 GOLDFISCHER, SIDNEY L.,
ALBERT EINSTEIN COLLEGE OF MEDICINE OF
YESHIVA UNIVERSITY, BRONX, NEW YORK, 2/69-1/70,
RENEWAL, \$41,085. NINDS
THIS RESEARCH PROPOSES TO INVESTIGATE INTRACELLULAR
TRANSPORT, DIGESTION AND STORAGE, PARTICULARLY IN
HEPATOCYTES, KUPFER CELLS, NEURONS AND GLIA. COM-
BINED CYTOCHEMICAL ELECTRON MICROSCOPIC AND ELEC-
TRON PROBE MICRO-ANALYTICAL TECHNIQUES WILL BE EM-
PLOYED TO STUDY THE INTRACELLULAR LOCALIZATION OF
HYDROLASES AND THE UPTAKE AND STORAGE OF PROTEINS
AND METALS.
- C335 HISTOPATHOLOGIC PATTERNS IN THE BRAIN, NS-7388-**
03, TERPLAN, KORNELL L., RESEARCH FOUNDATION
OF STATE UNIVERSITY OF NEW YORK, ALBANY, NEW
YORK, 5/69-4/70, RENEWAL, \$27,881. NINDS
THIS RESEARCH PROPOSES THE STUDY OF THE CENTRAL
NERVOUS SYSTEM IN RELATION TO CONGENITAL HEART DISEASE
WITH PARTICULAR ATTENTION TO THE FUNCTIONAL TYPES.
- C340 HORMONAL FUNCTION & GROWTH & DEVELOPMENT**
IN CHILDHOOD, HD-00371-15, BONGIOVANNI, ALFRED
M., CHILDREN'S HOSPITAL OF PHILADELPHIA,
PHILADELPHIA, PA., 9/68-8/73, RENEWAL, \$61,804.
NICHD
THIS RESEARCH CONCERNS ASSAYS FOR GROWTH HORMONE
AND INSULIN IN PLASMA OF NORMAL CHILDREN AND OF CHIL-
DREN WITH ILLNESS. IT IS PLANNED TO ESTABLISH AN ASSAY
FOR ADRENOCORTICOTROPHIC HORMONE AND THEN TO
DEFINE THOSE PHYSIOLOGIC STIMULI WHICH CONTROL THE
SECRETION AND RELEASE OF THESE HORMONES IN HEALTHY
CHILDREN AND COMPARE THESE FINDINGS WITH THE STUDY OF
CHILDREN WITH VARIED DISEASES.
- C345 HYPOXEMIA, ACIDEMIA AND CAPILLARY**
PERMEABILITY HD-02704-03, TAYLOR, PAUL
MITCHELL, MAGEE-WOMEN'S HOSPITAL,
PITTSBURGH, PENNSYLVANIA 1/69-12/71, RENEWAL,
\$21,344. 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.
- C350 HYPOXIA, METABOLISM, AND NEONATAL**
THERMOREGULATION (HD-02531-03) BAUM, DAVID,
UNIVERSITY OF WASHINGTON, SEATTLE, WASH.,
10/68-9/69 RENEWAL \$14,185. 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.
- C355 INFANT PSYCHOPHYSIOLOGICAL SYSTEMS** HD-00869-
07, CROWELL, DAVID H. UNIVERSITY OF HAWAII,
HONOLULU, HAWAII, 9/68-8/69 RENEWAL \$56,172.
NICHD
THIS RESEARCH PROPOSES TO DELINEATE DIFFERENCES IN THE
BASAL LEVELS OF CENTRAL AND AUTONOMIC NERVOUS
SYSTEM ACTIVITY, AND TO ESTABLISH THEIR PATTERNING,
AND TO EVALUATE THE CO-VARIATIONS OF CENTRAL AND AU-
TONOMIC NERVOUS SYSTEM ACTIVITY AS A FUNCTION OF
SPONTANEOUS BEHAVIORAL ACTIVITY CHANGES, REACTIVITY
TO SENSORY STIMULATION AND REACTIVITY TO CONDITIONS
OF MINIMAL AND MODERATE STRESS.
- C360 INTEGRATED APPROACHES TO NEUROBIOLOGICAL**
PROBLEMS, NS-6827-03, SNIDER, RAY S., UNIVERSITY
OF ROCHESTER, ROCHESTER, N.Y., 9/68-8/69,
RENEWAL, \$95,765. NINDS
THIS RESEARCH IS ON THE STUDIES WITH NEURAL TRANS-
PLANTS IN SALAMANDERS, ARTIFICIAL AUDITORY END OR-
GANS, CEREBELLUM-ULTRASTRUCTURAL ACTIVITIES RELATED
TO ELECTRICAL ACTIVITY, AND THE INVESTIGATION OF THE
BIOCHEMICAL BASIS OF AUDIOLOGICAL SEIZURES.
- C365 INTERMEDIARY METABOLISM IN THE PREMATURE**
INFANT HD-00373-13, LUBCHENCO, LULA O.,
UNIVERSITY OF COLORADO, DENVER COLO., 9/68-
8/70 RENEWAL \$7,626. NICHD
THIS RESEARCH CONCERNS VARIOUS ASPECTS OF INTERMEDIA-
RY 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, NEU-
ROLOGICAL AND INTELLECTUAL HANDICAPS IN NEWBORNS
WITH SPECIAL METABOLIC PROBLEMS.
- C370 INTESTINAL TRANSPORT OF AMINO ACIDS IN PKU**
HD3956-01, YARBRO, MARINA T., UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY, 7/68-6/70,
INITIAL, \$29,114. NICHD
THIS PROJECT IS CONCERNED WITH THE INTESTINAL ABSORP-
TION OF AMINO ACIDS IN PHENYLKETONURICS. IN NORMAL
CONTROL SUBJECTS, AND IN HAMSTER EVERTED INTESTINAL
SACS. THE PURPOSE IS TO ESTABLISH THE EXISTENCE OF A COM-
MON TRANSPORT MECHANISM FOR PHENYLALANINE,
TYROSINE, AND TRYPTOPHAN THAT MAY HELP TO EXPLAIN
THE METABOLIC ABNORMALITIES ENCOUNTERED IN PKU.
- C375 INVESTIGATION OF THE PEPTIDES IN HUMAN SERUM**
AND URINE HD-02633-03 BUIST, NEIL ROBERTSON
MAC K., UNIVERSITY OF OREGON, PORTLAND, ORE.,
12/68-1/69 RENEWAL \$20,290. NICHD
THIS RESEARCH PROPOSES TO FURTHER THE INVESTIGATION OF
THE PEPTIDES IN HUMAN URINE AND SERUM AND TO APPLY THE
KNOWLEDGE ACQUIRED TO THE STUDY OF DISEASE STATES.
- C380 LEARNING AND TRANSFER IN NORMAL AND**
RETARDED CHILDREN HD3917-01 CAMPIONE, JOSEPH
C., UNIVERSITY OF WASHINGTON, SEATTLE,
WASHINGTON, 12/68-11/71, INITIAL, \$14,164. 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
TRANSPPOSITION OF BEHAVIOR IN NORMAL AND RETARDED
CHILDREN; AND 2) TO COMPARE THE ATTENTIONAL BEHAVIOR
OF NORMAL AND RETARDED SUBJECTS.
- C385 LOWER SES CHILD REARING AND COGNITIVE**
DIFFERENTIATION HD-02804-03 DEUTSCH, MARTIN,
NEW YORK UNIVERSITY, NEW YORK, N.Y., 3/69-2/70
RENEWAL \$88,588. NICHD
THIS RESEARCH CONCERNS THE ENUMERATION AND DESCRIPTION
OF COGNITIVE ABILITIES RELATED TO SCHOOL ACHIEVE-
MENT. PREVIOUS RESEARCH HAS DEALT WITH SUCH FACTORS
AS DEVELOPMENTAL DIFFERENCES IN COGNITIVE ABILITIES
AND DIFFERENCES BETWEEN SOCIOECONOMIC GROUPS.
- C390 LYSINE METABOLISM IN INFANTS & CHILDREN** HD-
02920-03, WOODY, NORMAN C., TULANE UNIVERSITY,
NEW ORLEANS, LA., 6/69-5/71, RENEWAL, \$16,967.
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.

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- C395 MECHANISM OF BILIRUBIN TOXICITY** HD-03302-05, LABBE, ROBERT F., UNIVERSITY OF WASHINGTON, SEATTLE, WASH., 1/69-12/70, RENEWAL, \$24,463. NICHD
THIS RESEARCH PROPOSES TO STUDY THE BIOCHEMICAL MECHANISMS OF TOXICITY, THE FACTORS INFLUENCING VULNERABILITY TO BILIRUBIN AND FACTORS AFFECTING ALBUMIN BINDING OF BILIRUBIN.
- C400 METABOLIC AND CIRCULATORY STUDIES IN INFANTS** HD-00251-08, ADAMS, FORREST HOOD, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF., 5/69-4/70 RENEWAL \$31,762. NICHD
THIS RESEARCH PROPOSES TO CALCULATE SYSTEMIC AND PULMONIC FLOWS AND TO DETERMINE THE EFFECT OF ACETYLCHOLINE ON PULMONARY CIRCULATION IN NORMAL TERM AND PREMATURE INFANTS AND IN INFANTS WITH RESPIRATORY DISTRESS AND TO DETERMINE THE OPTIMAL AMBIENT TEMPERATURE FOR BABIES WITH PULMONARY DISTRESS SYNDROME HYALINE MEMBRANE DISEASE AND WITH HEART DISEASE.
- C405 METABOLIC DISORDERS AND MENTAL DEFICIENCY** HD-00324-14, BERRY, HELEN K., CHILDREN'S HOSPITAL, RESEARCH FDN., CINCINNATI, OHIO, 4/69-3/70, RENEWAL, \$58,618. NICHD
THIS RESEARCH INVOLVES STUDIES OF CHILDREN WITH HYPERGLYCEMIA 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 MUCOPOLY-SACCHARIDES AND SKIN FIBROBLASTS GROWN IN TISSUE CULTURE.
- C410 METABOLIC DISORDERS IN CHILDREN** HD-02870-07, AUERBACH, VICTOR H., ST. CHRISTOPHERS HOSP FOR CHILDREN, PHILADELPHIA, PA., 9/68-8/70, RENEWAL, \$45,218. 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-03011-03, MC COY, ERNEST E., UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VA., 10/68-9/70 RENEWAL \$36,421. 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.
- C420 METABOLISM OF DRUG SUBSTRATES BY HUMAN PLACENTA**, (1) HD-02991-02S1, (2) HD-2991-03, JUCHAU, MONT R., STATE UNIVERSITY OF NEW YORK, BUFFALO, N.Y., (1) 7/68-4/70, (2) 5/69-4/70, RENEWAL, (1) \$743, (2) \$17,921. NICHD
THIS RESEARCH PROPOSES TO EXPLORE SYSTEMATICALLY THE CAPABILITIES OF HUMAN PLACENTAL TISSUE AT VARIOUS GESTATIONAL STAGES TO METABOLIZE DRUG SUBSTRATES. THE STUDIES ARE NEEDED BECAUSE OF POSSIBLE RELATIONSHIPS OF PLACENTAL DRUG METABOLIC PROCESS TO ABNORMAL OR UNUSUAL EFFECTS OF DRUGS ON THE PREGNANT MOTHER AND THE EFFECTS OF DRUGS ON THE FETUS AND NEWBORN.
- C425 METABOLISM AND FUNCTION OF COMPLEX LIPIDS**, NS-2946-10, KENNEDY, EUGENE P., HARVARD UNIVERSITY, BOSTON, MASS., 12/68-1/69, RENEWAL, \$39,930. 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**, NS-7563-02, BASS NORMAN H., UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE, CHARLOTTESVILLE, VA., 9/68-8/69, RENEWAL, \$33,003. 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 8682-01, O'BRIEN, JOHN S., UNIVERSITY OF CALIFORNIA SCHOOL OF MEDICINE, LA JOLLA, CALIF., 6/69-5/70, INITIAL, \$61,067. NINDS
THE OBJECTIVE IS TO DELINEATE THE MOLECULAR BASIS OF IN-BORN 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 IDIOCY' WILL BE STUDIED.
- C440 MOLECULAR NEUROBIOLOGY-PROTEINS IN THE NERVOUS SYSTEM**, NS-4270-07, SHOOTER, ERIC M., STANFORD UNIVERSITY, STANFORD, CALIF., 12/68-11/69, RENEWAL, \$74,213. NINDS
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.
- C445 MORPHOLOGY AND CYTOCHEMISTRY OF DEVELOPING SYNAPSES**, (1) NS-4179-06, (2) NS-4176-06S1, MAYNARD, EDITH A., UNIVERSITY OF MICHIGAN, ANN ARBOR MICHIGAN, (1) 9/67-12/69 (2) 5/69-12/69, RENEWAL, (1) FY 68, \$19,826, (2) \$1,218. (NINDS)
THIS RESEARCH INVOLVES A FINE STRUCTURAL AND ELECTRON-MICROSCOPIC CYTOCHEMICAL STUDY OF SYNAPSES IN THE LOBSTER'S STOMATOGASTRIC 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.
- C450 NEONATAL CLINICAL RESEARCH FACILITY** HD-03031-02, OLIVER, THOMAS K., JR. UNIVERSITY OF WASHINGTON, SEATTLE, WASH., 7/8-, 6/70, RENEWAL, \$88,104. NICHD
THIS PROJECT WILL EXTEND THE CLINICAL RESEARCH POTENTIAL OF THE EXISTING CLINICAL RESEARCH CENTER TO ALLOW STUDY OF PREMATURE AND NEWLY BORN INFANTS.
- C455 NEUROPATHOLOGY IN MENTAL ILLNESS AND DEFICIENCY (MH-8603-0551)** WOODWARD, JOHN S., CAMARILLO STATE HOSPITAL, CAMARILLO, CALIF., 1/69 RENEWAL \$1,389. NIMH
THIS RESEARCH INTENDS TO DEFINE BETTER THE INCIDENCE OF EACH MORPHOLOGIC CRITERION OF BRAIN ABNORMALITY AND THE SPECIFIC RELATIONSHIP IF ANY TO MENTAL DISORDER. A PRACTICAL METHOD WILL BE DEVELOPED FOR ROUTINE EXAMINATION OF THE BRAIN IN CASES OF MENTAL DISORDER, ESPECIALLY IN THE ABSENCE OF GROSS PATHOLOGY. THIS STUDY IS DESIGNED FOR THE PROCUREMENT OF SELECTED AND MORPHOLOGICALLY EVALUATED BRAIN TISSUES FOR SPECIAL STUDIES INCLUDING BIOCHEMICAL ANALYSIS.
- C460 NEURAL MECHANISMS OF LEARNING AND BEHAVIOR**, NS-7458-03, LICKEY, MARVIN E., UNIVERSITY OF OREGON, EUGENE, ORE., 3/69-2/70, RENEWAL, \$11,779. 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.
- C465 NEUROLOGICAL CLINICAL RESEARCH CENTER**, (1) NS-3359-07, (2) NS-3359-07S1, MERRITT, H. HOUSTON, COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, NEW YORK, N.Y., (1) 10/67-4/69, (2) 10/67-4/69, RENEWAL (1) FY 68, \$182,751, (2) \$6,054. NINDS
THIS RESEARCH IS A STUDY OF BRAIN AND MUSCLE DISEASE AT A CELLULAR LEVEL USING CHEMICAL, ULTRASTRUCTURAL, HIGH IMPEDENCE, CYTOCHEMICAL AND EMBRYOLOGIC TECHNIQUES. STUDIES INCLUDE INTERMEDIARY METABOLISM AND EXPERIMENTAL ANIMAL PATHOLOGY.
- C470 NEUROPATHOLOGY OF THE AGING MENTAL RETARDATE**, (NS-6882-03), SOLITARE, GILBERT B., YALE UNIVERSITY SCHOOL OF MEDICINE, NEW HAVEN, CONN., 8/68-7/69, RENEWAL, \$10,036. NINDS

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- 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-3354-08, VAN ALLEN, MAURICE W., UNIVERSITY OF IOWA, IOWA CITY, IOWA, 10/68-9/69, RENEWAL, \$274,355. NINDS
- THIS PROJECT SUPPORTS INVESTIGATIONS, BOTH INDIVIDUAL AND COLLABORATIVE IN NEUROLOGY, OPHTHALMOLOGY AND PSYCHOLOGY.
- C480 ONTOGENY OF VISUAL AND AUDITORY EXPLORATION IN INFANTS HD-03386-02, SIQUELAND, EINAR R., BROWN UNIVERSITY, PROVIDENCE, R.I., 2/69-1/71, RENEWAL, \$30,915. 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.
- C485 PATHOGENESIS OF CENTRAL NERVOUS SYSTEM MALFORMATIONS HD-01503-05 CHAMBERLAIN, JACK G., UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIF., 6/69-5/71 RENEWAL \$30,956. 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 WITH OTHER DIETARY DEFICIENCIES KNOWN TO BE TERATOGENIC IN MAMMALS.
- C490 PERINATAL VASCULAR CAUSES OF NEONATAL ATELECTASIS HD-02406-03 BARKER, JUNE NORTHROP, NEW YORK UNIVERSITY, NEW YORK, N.Y., 1/69- 12/69 RENEWAL \$24,306. NICHD
- THIS RESEARCH CONCERNS PULMONARY MORPHOMETRIC AND HEMODYNAMIC PARAMETERS MEASURED IN PREMATURE AND TERM RATS, RABBITS AND GUINEA PIGS IN ORDER TO TEST THE VALIDITY OF THE FOLLOWING WORKING HYPOTHESIS(NON-OPTIMAL TISSUE TURGIDITY AND LOCAL UNEVENNESS OF TISSUE TURGIDITY AT THE MOMENT OF BIRTH ARE CONSIDERED TO BE THE FINAL COMMON PATHWAY TO NEONATAL ATELECTASIS.
- C495 PHENYLALANINE AND TRYPTOPHAN HYDROXYLATION IN PKU HD-02643-02SI HSIA, DAVID YI-YUNG, CHILDREN'S MEMORIAL HOSPITAL, CHICAGO, ILLINOIS, 7/68-11/69, RENEWAL \$7,043. NICHD
- THIS RESEARCH PROPOSES TO DEFINE MORE PRECISELY THE NATURE OF THE ENZYME DEFECT IN PHENYLKETONURIA AND RELATED DISTURBANCES IN THE LIGHT OF THE MORE RECENTLY ACQUIRED INFORMATION ON THE HYDROXYLATION OF PHENYLALANINE AND TRYPTOPHAN IN THE LIVER AND BRAIN.
- C500 PHENYLALANINE AND TRYPTOPHAN HYDROXYLATION IN PKU HD4346-01, HSIA, DAVID YI-YUNG, LOYOLA UNIVERSITY, HINES, ILLINOIS, 1/69-12/69, INITIAL, \$21,725 NICHD
- THIS PROJECT IS CONCERNED WITH THE DIFFERENCE BETWEEN PATIENTS WITH PHENYLKETONURIA, MANY OF WHOM SUFFER FROM MENTAL DEFICIENCY WHEN UNTREATED, AND THOSE WITH HYPERPHENYLALANINEMIA, WHO DO NOT APPEAR TO BE HARMED. BIOCHEMICAL TECHNIQUES ARE BEING DEVELOPED TO FURTHER EXAMINE THE HYDROXYLASE ACTIVITY IN BOTH SYNDROMES.
- C505 PHOSPHOLIPID METABOLISM DURING DEVELOPMENT HD-02871-03, WEINHOLD, PAUL A., UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH., 5/69-4/70 RENEWAL \$15,306. NICHD
- THIS RESEARCH PROPOSES TO DESCRIBE THE PHOSPHOLIPID METABOLISM OF LIVER AND LUNG DURING THEIR FUNCTIONAL DEVELOPMENT IN THE RAT.
- C510 PHYSIOLOGIC STUDIES IN NEWLY BORN HUMAN INFANTS HD-00747-07, OLIVER, THOMAS K., JR., UNIVERSITY OF WASHINGTON, SEATTLE, WASH., 12/68-11/72 RENEWAL \$20,096. NICHD
- THIS RESEARCH INVOLVES STUDIES OF THERMOREGULATION, ACID-BASE BALANCE IN HEALTH AND DISEASE, STUDIES OF INFANTS OF LOW BIRTHS WEIGHT AND OF THE ALTERATION IN BODY FLUID COMPARTMENTS OF INFANTS BORN BY ELECTIVE CAESAREAN SECTION AS COMPARED TO THOSE BORN VAGINALLY.
- C515 PREGNANCY ISOIMMUNIZATION IN THE MOUSE, HD-01287-07, GOODLIN, ROBERT C., STANFORD UNIVERSITY, STANFORD, CALIF., 1/69-12/69, RENEWAL, \$44,847. NICHD
- THIS RESEARCH PROPOSES TO STUDY THE EFFECTS OF IMMUNIZATION OF MATERNAL MICE TO PATERNAL GAMMAGLOBULIN ISOANTIGENS ON YOUNG MICE. USING AN ISOTOPICALLY LABELED ANTIGEN GAMMA GLOBULIN LEVELS OF YOUNG MICE ARE DETERMINED AFTER EITHER IN UTERO OR NURSING EXPOSURE TO ANTI-ALLOTYPE ANTIBODY.
- C520 PRENATAL STIMULATION OF CORTICAL-NEURON PROLIFERATION HD-01909-04 ZAMENHOF, STEPHEN, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF., 2/69-1/70 RENEWAL \$16,613. NICHD
- THIS RESEARCH PROPOSES TO INVESTIGATE THE POSSIBILITY OF EXPERIMENTAL INCREASE IN THE NUMBER OF CORTICAL NEURONS BY INJECTING PITUITARY GROWTH HORMONE DURING PRENATAL PERIOD (PREGNANT RATS), I.E., BEFORE THESE NEURONS CEASE TO DIVIDE. PRELIMINARY EXPERIMENTS DEMONSTRATE THE FEASIBILITY OF SUCH A PROJECT. THE TREATED ANIMALS RATS AT MATURITY SHOWED ALSO AN INDICATION OF IMPROVED LEARNING ABILITY.
- C525 QUANTITATIVE HISTOCHEMICAL STUDIES UPON CEREBRAL CORTEX, NS-361-16, POPE, ALFRED, MCLEAN HOSPITAL, BELMONT, MASS., 9/68-12/69, RENEWAL, \$16,086. 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
- C530 RESEARCH PROGRAM OF RETARDED INTELLECTUAL DEVELOPMENT HD-00973-06 STEDMAN, DONALD J., GEORGE PEABODY COLLEGE FOR TEACHERS, NASHVILLE, TENN. 6/69-5/71 RENEWAL \$247,732. 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.
- C535 RESPIRATORY STUDIES IN THE NEWBORN PERIOD HD-00281-09, AVERY, MARY ELLEN, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD., 9/68-8/73 RENEWAL \$23,831. NICHD
- THIS RESEARCH CONCERNS STUDIES ON ACID-BASE CHANGES IN SPINAL FLUID OF EXTERIORIZED FETAL LAMBS. THE TIME COURSE OF CHANGES IN PH DURING INDUCED ALKALOSIS AND ACIDOSIS WILL BE MEASURED AND RELATED TO RESPIRATORY ACTIVITY. THE EFFECTS OF RATES OF CHANGE IN H₂O CONCENTRATION IN BLOOD AND SPINAL FLUID ON RESPIRATION WILL BE INVESTIGATED.
- C540 RNA AND PROTEIN METABOLISM IN NEUROLOGIC DISORDERS, NS 7872-03, APPEL, STANLEY H., DUKE UNIVERSITY, DURHAM, N.C., 5/69-4/70, RENEWAL, \$27,464. 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.
- C545 SHORT-TERM MEMORY IN THE RETARDED CHILD HD-02898-03, SCOTT, KEITH G., UNIVERSITY OF ILLINOIS, URBANA, ILL., 6/69-5/70 RENEWAL \$19,917. 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.
- C550 STIMULUS FACTORS IN VERBAL LEARNING OF RETARDATE, HD-02588-04, BAUMEISTER, ALFRED A., UNIVERSITY OF ALABAMA, TUSCALOOSA, ALA., 6/69-5/71, RENEWAL, \$25,295. NICHD

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- NO ABSTRACT SUPPLIED
- C555 STORAGE DISEASE - INTRACELLULAR TRANSPORT AND DIGESTION, NS-6856-03, STUDIES IN EXPERIMENTAL ERYTHROBLASTOSIS FETALIS HD-01385-05 JACKSON, BENJAMIN T., BOSTON UNIVERSITY, BOSTON, MASS., 1/69-12/72 RENEWAL \$49,896. 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.
- C560 STUDIES IN HUMAN GENETICS HD-00486-14, CHILDS, BARTON, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD., 10/68-9/73 RENEWAL, \$50,317. NICHD
- THIS RESEARCH CONCERNS CYTOGENETIC STUDIES OF PATIENTS WITH CHROMOSOME ABNORMALITIES, ENZYME VARIATIONS IN DROSOPHILA, AND STUDY OF LIPID METABOLISM IN A PATIENT WITH HYPERGLYCINEMIA.
- C565 STUDIES OF NEONATAL BLOOD DISORDERS HD-00254-09, BERNSTEIN, SELDON E., JACKSON LABORATORY, BAR HARBOR, ME., 12/68-11/70 RENEWAL \$26,482. NICHD
- THIS RESEARCH PROPOSES TO OBTAIN INFORMATION ON THE NATURE OF THE REGULATORY MECHANISMS THAT CONTROL HEMATOPOIESIS, THROUGH AN ANALYSIS OF ACTION OF MUTANT GENES WHICH ALTER THE NORMAL GROWTH AND DEVELOPMENT OF BLOOD-FORMING TISSUE. SEVEN OF THE 11 KNOWN HEREDITARY ANEMIAS OF MICE ARE CURRENTLY UNDER STUDY.
- C570 STUDIES ON THE RESPIRATORY DISTRESS SYNDROME HD-03554-02, CROPP, GERD J UNIVERSITY OF COLORADO, DENVER, COLO., 5/69-4/71, RENEWAL, \$16,421. 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.
- C575 STUDIES OF TETRAPLOID DNA STATUS OF PURKINJE CELLS, NS-7100-03, LAPHAM, LOWELL W., UNIVERSITY OF ROCHESTER MEDICAL CENTER, ROCHESTER, NEW YORK, 2/69-1/70, RENEWAL, \$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.
- C580 STUDY OF BRAIN HISTOLOGY IN THE PERINATAL PERIOD, NS-3889-06, RORKE, LUCY B., PHILADELPHIA GENERAL HOSPITAL, PHILADELPHIA, PA., 9/67-8/69, RENEWAL, FY 68, \$6,002. NINDS
- THIS RESEARCH PROPOSES AN INVESTIGATION OF THE ANATOMIC SUBSTRATA OF INFANTILE CEREBRAL PALSY AND MENTAL RETARDATION BY EVALUATING THE DEGREE OF MATURATION OF THE BRAIN IN THE PERINATAL INFANT, AND INVESTIGATION OF OCCULT LESIONS PREDISPOSING TO DEFECTIVE POSTNATAL BRAIN DEVELOPMENT.
- C585 A STUDY OF INBORN ERRORS OF SPHINGOLIPID METABOLISM, NS-1847-11, ROUSER, GEORGE, CITY OF HOPE MEDICAL CENTER, DUARTE, CALIF., 10/68-9/69, RENEWAL, \$52,932. 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 HD4594-01, MELNYK, JOHN, CITY OF HOPE MEDICAL CENTER, DUARTE, CALIFORNIA, 4/69-3/70, INITIAL \$40,953; 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.
- C595 STUDY OF NERVOUS SYSTEM LIPIDS, NS-1006-15, NORTON, WILLIAM T., ALBERT EINSTEIN COLLEGE OF MEDICINE YESHIVA UNIVERSITY, BRONX, N.Y., 4/69-3/70, RENEWAL, \$48,237. 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.
- C600 SURFACE AREA AND PATTERNS OF CORTICAL NEURONS, NS-3048-08, SCHADET JCPC NETHERLANDS CENTRAL INSTITUTE FOR BRAIN RESEARCHT AMSTERDAMT THE NETHERLANDS, 1/69-12/69, RENEWAL, \$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-7537-02, CHASE H. PETER, UNIVERSITY OF COLORADO MEDICAL CENTER, DENVER, COLO., 9/68-8/69, RENEWAL, \$22,174. 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 THE INFANTS VOCALIZATIONS HD-00332-11, KARELITZ, SAMUEL, LONG ISLAND JEWISH HOSPITAL, NEW HYDE PARK, N.Y., 4/69-3/70 RENEWAL, \$24,792. NICHD
- THIS RESEARCH PROPOSES TO DETERMINE WHETHER EARLY CRYING ACTIVITY AND OTHER SUBSEQUENT VOCALIZATIONS ARE DIAGNOSTIC OF THE CURRENT STATUS OF THE CHILD'S CENTRAL NERVOUS SYSTEM AND WHETHER THEY ARE PREDICTIVE OF HIS FUTURE INTELLECTUAL AND SPEECH DEVELOPMENT.
- C615 TRANSPLENTAL PASSAGE OF FETAL ERYTHROCYTES HD-00505-10, COHEN, FLOSSIE, CHILD RESEARCH CENTER OF MICHIGAN, DETROIT, MICH., 4/69- 3/70 RENEWAL, \$42,564. NICHD
- THIS RESEARCH CONCERNS THE TRANSPLENTAL PASSAGE OF FETAL CELLS AND ITS RELATIONSHIP TO ISOIMMUNIZATION OF PREGNANCY. 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.
- C620 ULTRASTRUCTURAL STUDIES IN MAMMALIAN TERATOGENESIS. HD-02616-03 FERM, VERGIL H., DARTMOUTH COLLEGE, HANOVER, N.H., 2/69-1/70 RENEWAL \$23,602. NICHD
- THIS RESEARCH PROPOSES TO INVESTIGATE SEQUENTIALLY THE FINE STRUCTURAL ALTERATIONS IN PLACENTAL AND SELECTED EMBRYONIC TISSUES FOLLOWING THE INTRODUCTION OF KNOWN TERATOGENIC AND EMBRYONIC AGENTS INTO THE PREGNANT LABORATORY ANIMAL. THE USE OF SPECIFIC AGENTS AND TECHNIQUES ADAPTABLE TO ELECTRON MICROSCOPIC INVESTIGATION WILL CONSTITUTE THE EXPERIMENTAL BASIS FOR THESE OBJECTIVES.
- C625 ULTRASTRUCTURAL STUDIES OF THE LUNG HD-02459-03, KIKKAWA, YUTAKA, YESHIVA UNIVERSITY, NEW YORK, N.Y., 9/68-8/69 RENEWAL \$25,226. NICHD
- THIS RESEARCH CONCERNS A COMBINED BIOCHEMICAL AND MORPHOLOGICAL STUDY USING RADIOACTIVE PALMITIC ACID TO ASSESS THE PATHWAY OF PALMITATE IN THE LUNG, PARTICULARLY IN TYPE II EPITHELIAL CELL THE RELATIONSHIP OF MITOCHONDRION AND INCLUSION BODY AND THE CHEMICAL NATURE OF THE INCLUSION BODY AND THE SURFACE LINING LAYER.
- C630 UPTAKE OF AMINO ACIDS BY THE FETUS OF THE EWE HD-03255-02, CURET, LUIS B., UNIVERSITY OF WISCONSIN, MADISON, WISC., 5/69-4/72, RENEWAL, \$23,689. 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.
- C635 VITAMIN B6 AND CENTRAL NERVOUS SYSTEM FUNCTION, NS-5789-05, COURISIN, DAVID B., ST. JOSEPH HOSPITAL, LANCASTER, PA., 6/69-5/70, RENEWAL, \$23,440. 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

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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.

DIAGNOSIS AND/OR EVALUATION

- D005 A COMPREHENSIVE EVALUATION OF HIGH-RISK PREGNANCIES** HD-03338-02, HON. EDWARD HARRY, YALE UNIVERSITY, NEW HAVEN, CONN., 2/69-1/71, RENEWAL, \$210,345. NICHD
- THIS PROJECT WILL DETERMINE FACTORS WHICH CONTRIBUTE TO (HIGH RISK) PREGNANCY AND TAKE APPROPRIATE STEPS WHERE POSSIBLE TO CORRECT UNFAVORABLE FETAL ENVIRONMENT.
- D010 A FORTY YEAR FOLLOW-UP OF MENTAL RETARDATES** (1) HD-2671-01A1S1, (2) SACRAMENTO, CALIF., (1) 1/69-4/69, (2) 5/69-4/72, RENEWAL, (1) \$17,411, HD-2671-02, ROSS, ROBERT, TO CALIF STATE DEPT OF MENTAL HYGIENE, (2) \$100,491. 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.
- D015 ADAPTIVE BEHAVIOR AND EEG IN MENTAL RETARDATES** HD-01798-04, KUN, KARDLY J., MASS STATE DEPT OF MENTAL HEALTH, WRENTHAM, MASS., 7/68-6/70, RENEWAL, \$26,259. NICHD
- THIS RESEARCH PROPOSES TO RELATE PARTICULAR EEG PHENOMENA THAT HAVE BEEN FOUND TO RELATE IMPORTANTLY TO MENTAL RETARDATION, TO THE ADAPTIVE BEHAVIOR OF RETARDS AS SHOWN BY RETARDS PERFORMANCE IN THE AREAS OF PERSONAL SELF-CARE, SOCIAL BEHAVIOR, INTELLECTUAL FUNCTIONING, EDUCATIONAL ACHIEVEMENT, AND OCCUPATIONAL STATUS.
- D020 AN AUTOMATED PSYCHOLOGICAL TESTING BOOTH** (MH-14864-03) ELWOOD, DAVID L., BARTHOLOMEW COUNTY MENTAL HEALTH CLINIC, COLUMBUS, INDIANA, 1/69 RENEWAL, \$33,231. 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.
- D025 ANALYTIC STUDIES OF VISUAL PERCEPTION** (MH-8061-06) LEIBOWITZ, HERSCHEL W., PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA., 9/69 RENEWAL, \$24,238. 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 BY EEG OF THE MENTAL RETARDED** (NS-7480-02), SHIMIZU, HIROSHI, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD., 9/68-8/69, RENEWAL, \$2,454. 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 STUDY OF MENTALLY RETARDED CHILDREN** (MH-12711-03) CHESS, STELLA, NEW YORK UNIVERSITY MEDICAL CENTER, NEW YORK, N.Y., 10/69 RENEWAL, \$37,903. NIMH
- THIS RESEARCH USES 50 MIDDLE-CLASS CHILDREN TO STUDY PERSONALITY AND BEHAVIORAL ORGANIZATION OF MENTALLY SUBNORMAL INDIVIDUALS. THIS GROUP, WHOSE I.Q. IS 50-75, M.A. 4-6, AND LIVING IN THEIR HOMES, MINIMIZES COMPLICATING FACTORS SUCH AS SOCIAL AND ECONOMIC IMPOVERISHMENT, INSTITUTIONAL EXCLUSION FROM THE COMMUNITY, AND PHYSICAL HANDICAPS.
- D040 BIOCHEMISTRY OF HUMAN CHROMOSOMAL ANEUPLOIDY** HD-00588-07, MELLMANT, WILLIAM J., UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA., 6/69-5/71, RENEWAL, \$35,600. 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.

- D045 CELLULAR ASPECTS OF HUMAN GENETICS AND IMMUNOLOGY** HD-02552-03, HIRSCHHORN, KURT, MT. SINAI SCHOOL OF MEDICINE, NEW YORK, N.Y., 9/68-8/71 RENEWAL, \$155,980. NICHD
- NO ABSTRACT SUPPLIED
- D050 CEREBRAL CORTICAL BIOPSIES**, NS-5572-05, GONATAS, NICHOLAS K., UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA., 9/68-8/69, RENEWAL, FY68, \$20,567. NINDS
- THIS RESEARCH IS CONCERNED WITH ULTRASTRUCTURAL AND CYTOCHEMICAL STUDIES OF HUMAN CEREBRAL CORTICAL BIOPSIES.
- D055 CEREBRAL IMPEDANCE AND HOMEOSTASIS**, NS-7267-03, BIRZIS, LUCY, STANFORD UNIVERSITY, STANFORD, CALIFORNIA, 9/68-8/69, RENEWAL, \$43,661. 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.
- D060 CNS PLASTICITY DURING CRITICAL PERIODS OF DEVELOPMENT** HD-03113-02 BERMAN, A.J., JEWISH HOSPITAL OF BROOKLYN, NEW YORK, N.Y., 1/69-12/70, RENEWAL, \$208,032. 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-03008-02, ZIGLER, EDWARD F., YALE U., NEW HAVEN, CONN., 9/68-8/70, RENEWAL, \$241,735. 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 RETARDATES WITH VARYING ETIOLOGIES AND M.A.'S AND C.A.'S WILL BE STUDIED.
- D070 COGNITIVE ASSESSMENT PROGRAM** HD 3107-01A1, CALLAWAY, ENOCH, LANGLEY PORTER NEUROPSYCH INSTITUTE, SAN FRANCISCO, CALIFORNIA, 12/68-11/71, INITIAL \$19,947. 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, MICH., 1/69-12/69, RENEWAL, \$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 CORTICAL CORRELATE OF ATTENTION IN MENTAL DEFECTIVES** HD3762-01, KARRER, RATHE, ILLINOIS STATE DEPARTMENT MENTAL HEALTH, CHICAGO, ILLINOIS, 11/68-2/70, INITIAL \$6,861. NICHD
- THIS IS A PILOT STUDY TO DETERMINE THE APPROPRIATE STIMULUS CONDITIONS FOR PRODUCTION OF THE EXPECTANCY WAVE IN THE EEG OF MENTAL DEFECTIVES. WORK WILL BE ATTEMPTED WITH BOTH HIGH-GRADE ABOVE 40 I. Q., AND LOW-GRADE BELOW 40 I. Q. RETARDATES BETWEEN THE AGES OF FIVE AND TEN YEARS. THE INVESTIGATORS HOPE TO CONTINUE PRELIMINARY INVESTIGATIONS OF THE VARIABLES AFFECTING THE APPEARANCE OF THE EXPECTANCY WAVE SUCH AS REINFORCEMENT PATTERNS, STIMULUS COMPLEXITY, AND SENSORI-MOTOR MODALITY.

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- D090 DEFICITS IN BRAIN DAMAGE, NS-5359-05, VEGA, ARTHUR, JR., OKLAHOMA MEDICAL RESEARCH FOUNDATION, OKLAHOMA CITY, OKLA., 9/68-12/69, RENEWAL, \$45,971. 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.
- D095 DEVELOPMENT OF EEG AND BEHAVIORAL RESPONSES TO STIMULI HD-02296-04 BARNET, ANN B., CHILDREN'S HOSPITAL RESEARCH OF D.C., WASHINGTON, D.C., 11/68-10/70 RENEWAL, \$70,310 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.
- D100 DERMATOGLYPHICS IN MENTAL RETARDATION, HD-1507-04 03S1, ALTER, MILTON, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINN., 11/68-10/71, RENEWAL, \$29,654. 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.
- D105 DIAGNOSTIC ASPECTS OF ELECTROENCEPHALIC AUDIOMETRY, NS-4799-06, SHEPHERD, DAVID C., JEWISH HOSPITAL OF ST. LOUIS, ST. LOUIS, MO., 4/69-3/70, RENEWAL, \$41,168. 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 IN INFANTS HD4008-01, PARMELEE, ARTHUR H. JR., UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA, 1/69-12/70, INITIAL, \$28,146. NICHD**
THIS RESEARCH DEALS WITH METHODS OF ASSESSING DEVELOPMENT OF THE CENTRAL NERVOUS SYSTEM IN THE NEWBORN AND YOUNG INFANT, USING PHYSIOLOGIC AND 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.
- D115 EEG RESPONSES IN NEWBORNS RECEIVING INTENSIVE CARE HD4174-01, GRAZIANI, LEONARD, JEFFERSON MEDICAL COLLEGE OF PHILADELPHIA, PHILADELPHIA, PENNSYLVANIA, 6/69-5/71, INITIAL, \$71,635. NICHD**
THE AIM OF THIS STUDY IS TO COMPARE EEG SENSORY EVOKED RESPONSES AND MEASUREMENTS OF BLOOD GASES, PH, ELECTROLYTES, GLUCOSE, AND BILIRUBIN IN NEWBORN INFANTS. PREMATURE AND FULL-TERM INFANTS WITH RESPIRATORY DISTRESS, ACIDOSIS, HYPOXIA, AND APNEIC EPISODES WILL BE STUDIED.
- D120 ELABORATIVE FACILITATION AND LEARNING IN CHILDREN HD3869-01, ROHWER, WILLIAM D. JR., UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA, 1/69-12/71, INITIAL, \$36,945. NICHD**
THIS PROJECT INVOLVES A DETAILED EXAMINATION OF FACTORS RELATING TO THE ROLE OF ELABORATIVE ACTIVITIES IN CHILDREN'S LEARNING. THERE ARE TWO MAJOR AREAS OF INVESTIGATION: RESEARCH ON ELABORATION AND LEARNING PROCESSES, AND RESEARCH ON ELABORATION AND LEARNING ABILITY.
- 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, \$23,000. SRS-ORDT**
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, WISC., 2/69-1/70, 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-3223-10) HOLTZMAN, WAYNE, UNIVERSITY OF TEXAS, AUSTIN, TEXAS, 9/69 RENEWAL, \$40,200. 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 LAB INDICIES OF HUMAN FETOPLACENTAL FUNCTION HD-02042-02S1, CARRINGTON ELSIE R., WOMANUS MEDICAL COLLEGE OF PENNSYLVANIA, PHILADELPHIA, PA., 5/68-5/69 RENEWAL, \$564. NICHD**
THIS RESEARCH PROPOSES TO REDUCE PERINATAL LOSSES AND TO PREVENT INTRAUTERINE DAMAGE PARTICULARLY NEUROLOGIC AND METABOLIC INCURRED BY THE FETUS IN HIGH RISK PREGNANCIES. THE PRODUCTION AND EXCRETION OF ESTRIOL WILL BE STUDIED IN NORMAL AND ABNORMAL PREGNANCIES.
- D145 LEARNING AND TRANSFER PROCESSES IN MENTAL DEFECTIVES (MH-1099-14) ZEAMAN, DAVID, UNIVERSITY OF CONNECTICUT, STORRS, CONNECTICUT, 9/69 RENEWAL, \$66,052. 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-00325-13, MONEY, JOHN, JOHNS HOPKINS UNIVERSITY, BALTIMORE, MD., 6/69-5/70 RENEWAL, \$34,836. NICHD**
THIS RESEARCH CONCERNS HOMOSEXUALITY, PRECOCIOUS PUBERTY AND OTHER SYNDROMES CHILDHOOD AND ADULT MATERNALISM IN ENDOCRINE AND CYTOGENETIC SYNDROMES TOMBOYISHNESS AND ADRENOGENITAL SYNDROME MALE HERMAPHRODITISM, SEX REASSIGNMENT REQUESTS IN HERMAPHRODITISM TESTICULAR FEMINIZING SYNDROME PERSONALITY IN THE XXY AND XO SYNDROMES AND BODY IMAGE IN HOMOSEXUALITY AND TRANSSEXUALISM AND OTHER PARAPHILIAS.
- D155 MEASUREMENT AND REMEDIATION OF SOCIAL COMPETENCY DEFICITS RD-3142-P, DE JUNG, JOHN E., UNIVERSITY OF OREGON, EUGENE, OREGON, 5/1/69-4/30/70 INITIAL, \$69,772 SRS-ORDT**
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.
- D160 NEONATAL ASSESSMENTS AND FOLLOW-UP VALIDATIONS HD-02559-09 ROSENBLITH, JUDY F., BROWN UNIVERSITY, PROVIDENCE, R.I., 6/69-5/70 RENEWAL, \$25,813. NICHD**
THIS RESEARCH PROPOSES TO DETERMINE WHETHER BEHAVIORAL ASSESSMENTS OF THE NEWBORN CAN SERVE A USEFUL FUNCTION IN THE EARLY DETECTION OF NEUROLOGICALLY IMPAIRED CHILDREN.
- D165 NEONATAL CRY-SOUND ANALYSIS IN PEDIATRIC DIAGNOSIS HD4155-01, TRUBY, HENRY M., UNIVERSITY OF MIAMI, CORAL GABLES, FLORIDA, 9/68-6/70, INITIAL, \$50,024. NICHD**

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- THE PURPOSE OF THIS PROJECT IS TO DEMONSTRATE AND CORROBORATE THE TECHNIQUE OF CRYPTING, IN ORDER TO PROVIDE CLINICAL DATA INDICATIVE OF THE PHYSIOLOGICAL OR PATHOLOGICAL STATUS OF AT BIRTH OR DURING THE NEONATAL PERIOD. CRYPTING APPEARS TO BE A RELIABLE DEMONSTRATION OF THE PHYSICAL AND, UNDER CERTAIN CONDITIONS, EVEN THE NEUROLOGICAL STATE OF THE NEONATE.
- D170** **PROBLEM SOLVING AND DEVELOPMENT OF SOCIAL AND WORK SKILLS OF MENTALLY RETARDED RD-3058-P, BUTLER, ALFRED J., UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN, 3/17/69 - 3/31/70 INITIAL, \$58,640 SRS ORDT**
- 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.
- D175** **PERCEPTION IN PREMATURE, TERM, AND DEFECTIVE INFANTS HD4212-01, FANTZ, ROBERT L., CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, 5/69-4/72, INITIAL, \$57,082. NICHD**
- TWO AIMS OF THIS PROJECT ARE TO EXTEND VISUAL PREFERENCE TESTING TO AS EARLY A POINT IN INFANT 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-02860-03 NEURATH, PETER W., NEW ENGLAND MEDICAL CENTER HOSPITALS, BOSTON, MASS., 6/69-5/70 RENEWAL, \$27,564. 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** **THE CYTOGENETICS OF EMBRYONIC MALDEVELOPMENT HD-00549-08, MACINTYRE, M. NEIL, CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, 1/69-12/69 RENEWAL, \$48,463. NICHD**
- THIS RESEARCH PROPOSES TO DETERMINE THE BIOCHEMICAL ACTIVITY OF CERTAIN CHROMOSOMES BY IN VITRO BIOCHEMICAL STUDIES OF ABNORMAL HUMAN CELL LINES IN WHICH A SPECIFIC CHROMOSOMAL ABERRATION EXISTS, AND PURSUE STUDIES OF THE CAUSES AND MEANS OF DETERMINING CHROMOSOMAL DAMAGE.
- D190** **THE REASONING, MORAL JUDGEMENT, AND MORAL CONDUCT OF RETARDATES - PHASE TWO RD-3143-P, STEPHENS, WILL BETH, TEMPLE UNIVERSITY, PHILADELPHIA, PA. 5/1/69 - 4/30/70 INITIAL, \$66,200 SRS ORDT**
- TO ASSESS THE DEVELOPMENT OF MORAL REASONING, MORAL JUDGEMENT, AND MORAL CONDUCT AMONG MENTAL RETARDATES.
- D195** **TECHNIQUES FACILITATING DISCRIMINATION LEARNING RD-2286-P, WUNDERLICH, RICHARD A., CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.C., 7/1/68- 6/30/69 RENEWAL, \$26,151. SRS-ORDT**
- THIS RESEARCH PROPOSES TO INVESTIGATE SEVERAL TECHNIQUES WHICH ARE EXPECTED TO FACILITATE THE LEARNING OF CHILDREN UNDER ADVERSE CONDITIONS OF CONTIGUITY. BOTH NORMAL AND RETARDED CHILDREN WILL BE STUDIED. THE PROPOSED EXPERIMENTS HAVE THEORETICAL AND PRACTICAL SIGNIFICANCE TO HUMAN LEARNING.

PREVENTION

- E005** **AUTOMATED MONITORING OF SICK INFANTS HD4138-01 VEASY, L. GEORGE, PRIMARY CHILDREN'S HOSPITAL, SALT LAKE CITY, UTAH, 2/69-1/71, INITIAL, \$36,607. 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.

- E010** **COLLABORATIVE CROSS-CULTURAL CHILD REARING STUDY (MH-9228-03) LOURIE, REGINALD S., CHILDREN'S HOSPITAL, WASHINGTON, D.C., 4/69 RENEWAL, \$40,812 NIMH**
- THIS RESEARCH IS A CROSS-CULTURAL STUDY OF CHILD REARING PATTERNS BETWEEN THE CHILDREN'S HOSPITAL OF THE DISTRICT OF COLUMBIA, AND THE QUEEN ANNA-MARIA INSTITUTE FOR CHILD HEALTH IN ATHENS, GREECE. CULTURAL AND ENVIRONMENTAL FACTORS WHICH PREDISPOSE TO DISTURBANCES OF HEALTHY EMOTIONAL, COGNITIVE, AND PHYSICAL DEVELOPMENT IN THE EARLIEST YEARS OF LIFE ARE THE FOCUS OF SPECIAL ATTENTION.
- E015** **DIAGNOSTIC-THERAPEUTIC STUDIES OF HIGH-RISK PREGNANCY H-192, STONE, MARTIN L., NEW YORK MEDICAL COLLEGE, NEW YORK, N.Y., 7/1/69 6/30/70 RENEWAL, \$184,038. SRS-CB**
- 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).
- E020** **ENZYME STUDIES IN CULTIVATED FETAL CELLS HD4339-01, NADLER, HENRY L., CHILDREN'S MEMORIAL HOSPITAL, CHICAGO, ILLINOIS, 1/69-12/69, INITIAL, \$26,516. 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.
- E025** **PREVENTION OF CULTURALLY DETERMINED RETARDATION (MH-10421-05) LOURIE, REGINALD S., CHILDREN'S HOSPITAL, WASHINGTON, D.C., 10/68 RENEWAL, \$72,000. NIMH**
- THIS RESEARCH PROPOSES TO ESTABLISH PROGRAMS FOR THE FIRST YEARS OF LIFE TO PREVENT CULTURALLY DETERMINED MENTAL RETARDATION. THE PROJECT INCLUDES DEVELOPMENT OF METHODOLOGIES FOR DOCUMENTATION OF INDIVIDUAL PROGRESS IN PHYSICAL, INTELLECTUAL AND EMOTIONAL DEVELOPMENT, AND METHODS OF CHILD-REARING FOR DAY-CARE AND FULL-TIME INSTITUTIONAL CARE OF CHILDREN FROM DEPRIVED BACKGROUNDS.
- E030** **PREVENTION OF HEMOLYTIC DISEASE OF THE NEWBORN HD-01955-04, GORMAN JOHN G., COLUMBIA UNIVERSITY, NEW YORK, N.Y., 2/60-1/71 RENEWAL, \$13,967. NICHD**
- THIS RESEARCH INVOLVES THE RH IMMUNO-GLOBULIN 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.

AMELIORATION

- F005** **LEARNING POTENTIAL AMONG THE EDUCABLE RETARDED (MH-10588-53) BUDOFF, MILTON, CAMBRIDGE MENTAL HEALTH ASSOCIATION, CAMBRIDGE, MASS., 9/69 RENEWAL, \$59,512. NIMH**
- THIS RESEARCH PROPOSES TO CONTINUE TO STUDY AND MODIFY A LEARNING POTENTIAL APPROACH TO CLASSIFY LOW SCHOOL ACHIEVERS0 ABILITY TO PROFIT FROM EXPERIENCE, RE-STANDARDIZE THE KOHS BLOCK DESIGN TEST ON NORMAL POPULATIONS AND COMPARE THE EMR GROUPS TO SAMPLES OF LOW AND GRADE LEVEL ACHIEVERS OF DULL TO AVERAGE ABILITY OF SIMILAR CHRONOLOGICAL AND MENTAL AGES.
- F010** **REMEDICATION OF DISTURBED AND RETARDED CHILDREN (MH-7346-05) QUAY, HERBERT C., UNIVERSITY OF ILLINOIS, URBANA, ILL., 9/69 RENEWAL, \$346,822. 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-14877-06) SCHIEFELBUSCH, R.L., UNIVERSITY OF KANSAS, LAWRENCE, KANS., 9/69 RENEWAL, \$102,604. NIMH**

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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 06/01/69-12/31/70 INITIAL \$682,683 OE**
- THIS CENTER WILL STIMULATE, FACILITATE, CARRY OUT, AND COORDINATE A VARIETY OF RESEARCH AND DEVELOPMENT EFFORTS TO IMPROVE EDUCATIONAL PRACTICE WITH THE MENTALLY RETARDED. THE GOALS OF SUCH IMPROVEMENTS ARE: (1) ENABLE MOVE 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 NONRETARDED, FUNCTIONAL, AND ACCEPTABLE MEMBERS OF SOCIETY.
- G010 A COMPARISON OF AN ACHIEVEMENT BATTERY WITH TWO TESTS OF ABILITY WITH EDUCABLE MENTAL RETARDES OE6-0-9-192061-0774 MACKINNON, RONALD C FLORIDA STATE UNIVERSITY TALLAHASSEE FLORIDA 09/01/68-05/31/69 INITIAL \$1,743 OE BEH**
- THIS STUDY WILL STUDY THE CONCURRENT VALIDITY OF TWO SCHOLASTIC APTITUDE TESTS AND A SCHOLASTIC ACHIEVEMENT TEST WHEN THE TESTS ARE APPLIED TO CHILDREN WITH MENTAL RETARDATION
- 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., 6/1/66-6/30/70 RENEWAL, \$52,655. OE**
- THIS RESEARCH CONCERNS A CENTER TO DEVELOP AND PROVIDE A COMPREHENSIVE PROGRAM IN SOCIAL LEARNING FOR SPECIAL TEACHERS OF THE EDUCABLE MENTALLY RETARDED.
- G020 A DEMONSTRATION OF THE USE OF THE TEACHER INITIATED STEP-BY-STEP TEACHING SEQUENCE AS A MEANS OF IMPLEMENTATION OF CURRICULAR CONTENT IN CLASSROOMS FOR MILDLY (EDUCABLE) MENTALLY RETARDED OEG-3-6-061910- 1599, THORSELL, MARGUERITE, KANSAS STATE DEPARTMENT OF PUBLIC INSTRUCTION, TOPEKA, KANSAS, 6/1/66-8/31/70 RENEWAL, \$34,500. OE**
- THIS RESEARCH PROPOSES TO DEVELOP THE STEP-BY-STEP TEACHING SEQUENCE AS A MEANS OF IMPLEMENTING CURRICULAR CONTENT, AND TO DEVELOP A PROGRAM OF REGIONAL DEMONSTRATION CLASSES TO BE USED FOR PRACTICE TEACHING AND AS VISITATION CENTERS FOR INSERVICE TRAINING PROGRAMS.
- 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 INSTRUCTIONAL MATERIALS FOR A (WORK EXPERIENCE AND OCCUPATIONS) COURSE FOR EDUCABLE MENTALLY RETARDED STUDENTS TO ASSIST THEM IN DEVELOPING VOCATIONAL SKILLS AND ATTITUDES NECESSARY TO OBTAIN AND RETAIN JOBS.
- 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 INITIAL \$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, CHALFANT, JAMES C., UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS, 9/1/67-8/31/70, RENEWAL, \$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-02863-03 GERALD, HAROLD B., UNIVERSITY OF CALIFORNIA, RIVERSIDE, CALIFORNIA, 6/69-5/72 RENEWAL, \$212,523. NICHD**
- THIS RESEARCH EXAMINES THE ANTECEDENTS, CONCOMITANTS, AND CONSEQUENCES OF SUCCESSFUL INTEGRATION OF NEGRO, MEXICAN-AMERICAN, AND WHITE CHILDREN IN THE ELEMENTARY GRADES OF THE PUBLIC SCHOOL SYSTEM. IT ASSESSES BOTH LONG TERM AND SHORT TERM EFFECTS OF DESEGREGATION. THE MAJOR INDICES OF SUCCESS ARE ACADEMIC ACHIEVEMENT AND EMOTIONAL ADJUSTMENT.
- G045 AN EVALUATION OF THE FISHER WORD ATTACKS AID SYSTEM USE WITH SECONDARY EDUCABLE MENTALLY RETARDED STUDENTS OE6-0-9-452137-4232 FISHER, ROBERT H. JEFFERSON LOCAL BOARD OF EDUCATION GAHANNA, OHIO 6/15/69-8/14/70 INITIAL \$23,715 OE**
- THE OBJECTIVE OF THIS STUDY IS TO EVALUATE THE FISHER WORD ATTACK AID SYSTEM (FWAAS), A SYSTEM OF WORD PRONUNCIATION THROUGH THE USE OF MONO-SYLLABIC KEY WORDS IN PLACE OF DIACRITICAL MARKS, TO DETERMINE ITS USEFULNESS WITH SECONDARY EMR'S. AFTER A PERIOD OF SELECTION AND PREPARATION OF FWAAS MATERIALS, THE SYSTEM WILL BE PRESENTED TO EIGHT CLASSES OF JUNIOR AND SENIOR HIGH EMR'S WHOSE TEACHERS HAVE BEEN TRAINED IN ITS USES. EACH GROUP WILL RECEIVE INSTRUCTION IN THE USE OF THE DICTIONARY DIACRITICAL SYSTEM. THE RELATIVE MERIT OF THE TWO SYSTEMS WILL THEN BE EVALUATED
- G050 AN INTENSIVE TRAINING CURRICULUM FOR THE EDUCATION OF YOUNG EDUCABLE MENTALLY RETARDED CHILDREN OE60-9-142106-2444 ROSS SHIELA A AND ROSS DOROTHEA M PALO ALTO MEDICAL RESEARCH FOUNDATION PALO ALTO CALIFORNIA 01/01/69/12/31/71 INITIAL \$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, SEITZ SUE, AUSTIN STATE SCHOOL, AUSTIN, TEXAS, 9/1/67-3/31/70, RENEWAL \$35,459. 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.
- G060 AN OPINIONNAIRE STUDY ON THE HABILITATION OF RURAL EDUCABLE MENTALLY RETARDED ADOLESCENTS. OE6-0-9-362020-0790 COPPLE, C ROCKNE EASTERN MONTANA COLLEGE BILLINGS, MONTANA 12/15/68-11/14/69 INITIAL \$7,710 OE**
- THE PURPOSE OF THIS PROJECT IS TO PROVIDE SUGGESTIONS FOR IMPROVING THE EDUCATIONAL EXPERIENCES OF EMR ADOLESCENTS WHO RESIDE IN SPARSELY POPULATED AREAS WHERE SPECIAL CLASSES ARE NOT FEASIBLE. CURRENT AND CONCEIVABLE THE RURAL EMR'S, THEIR PARENTS, COUNSELORS AND SCHOOL ADMINISTRATION.
- G065 AUDITORY PERCEPTUAL ABILITY RELATED TO LANGUAGE ACQUISITION IN MENTALLY RETARDED CHILDREN GRAHAM, JAMES T., PURDUE UNIVERSITY, LAFAYETTE, INDIANA, 9/1/67-8/31/70, RENEWAL, \$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

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REQUIRED FOR THE GENERATION OF MODELS OF LANGUAGE STIMULATION AND THERAPY PROGRAMS.

- G070 BENNINGTON COUNTY DAY PROGRAM FOR PRE-SCHOOL MENTALLY RETARDED CHILDREN FORMAN, W. F., BENNINGTON COUNTY DAY SCHOOL, BENNINGTON, VERMONT, 3/1/68-2/28/70, RENEWAL \$43,867. 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.
- G075 CLASS SIZE AND TEACHER AIDES AS FACTORS IN THE ACHIEVEMENT OF THE EDUCABLE MENTALLY RETARDED OEG-3-6-062620-1879, BLESSING, KENNETH R., WISCONSIN STATE DEPARTMENT OF PUBLIC INSTRUCTION, MADISON, WISC., 6/15/66-12/14/69 RENEWAL, \$53,952 OE**
THIS RESEARCH PROPOSES TO RESOLVE, IN PART, THE MANPOWER PROBLEM IN SPECIAL EDUCATION WHILE MAINTAINING OR IMPROVING THE PROFESSIONAL POTENTIALITY OF PRESENTLY AVAILABLE SPECIAL TEACHING PERSONNEL. THREE VOLUNTEER TEACHERS OF EMR CLASSES IN THE MILWAUKEE SCHOOL SYSTEM WILL BE ASSIGNED ON A RANDOM BASIS TO EACH OF THE 8 CELLS OF A 2-CUBED COMPLETE FACTORIAL DESIGN.
- G080 CLASSICAL CONDITIONING IN RETARDATES AND NORMALS (MH-10235-05) ROSS, LEONARD E., UNIVERSITY OF WISCONSIN, MADISON, WISC., 9/69 RENEWAL, \$29,386 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.
- G085 COGNITIVE TRAINING WITH RETARDED CHILDREN -III CORTER, HAROLD M., NORTH CAROLINA STATE UNIVERSITY, RALEIGH, N.C., 6/1/67- 6/30/70, RENEWAL, \$135,136. OE**
THIS RESEARCH PROPOSES TO DETERMINE THE EFFECTIVENESS OF FLEXIBILITY- RIGIDITY AND PRODUCTIVITY-RESPONSIVENESS TRAINING WITH RETARDED CHILDREN. TO DEVELOP THE PREVIOUSLY TESTED SIMILARITIES-DIFFERENCES CONCEPT FORMATION PROGRAM TO A FUNCTIONAL LEVEL, AND TO DEVELOP NEW PROGRAMS FOR TESTING AND COGNITIVE TRAINING IN AREAS OF JUDGMENT AND DISCRIMINATION, PERCEPTUAL TRAINING, DEUTERO LEARNING, AND CREATIVITY AND ORIGINALITY.
- G090 CONTEXTUAL USE IN READING PERFORMANCE AS A FUNCTION OF TYPE OF MATERIAL AND LEVEL OF INTELLIGENCE OE6-5-9-452204-0071 HARGIS, CHARLES H KENT STATE UNIVERSITY KENT OHIO 9/15/69- 9/14/70 INITIAL \$9,495 OE BEH**
THE SPECIFIC OBJECTIVES OF THIS RESEARCH ARE TO COMPARE NORMAL AND MENTALLY RETARDED SUBJECTS (1) ABILITY TO UTILIZE CONTEXT IN MATERIAL WHICH HAS BEEN ALTERED IN ITS CONTEXTUAL PROPERTIES (2) COMPREHENSION OF MATERIAL READ AS A FUNCTION OF OVERTLY USING CONTEXT VS COVERTLY USING CONTEXT (3) READING COMPREHENSION AS A FUNCTION OF MATERIAL CONTEXTUAL PROPERTIES CLOZE (EVERY FIFTH WORD DELETED) VS MODIFIED CLOZE (NONSENSE SYLLABLE SUBSTITUTED FOR EVERY FIFTH WORD) VS COMPLETE UNALTERED PASSAGE
- G095 DEMONSTRATION OF DISSEMINATION PRACTICES ON SPECIAL CLASS INSTRUCTION FOR THE MENTALLY RETARDED, UTILIZING MASTER TEACHERS AS INSERVICE EDUCATORS OEG-3-7-062883-0499, CARR, DONALD AND MEYEN, EDWARD, UNIVERSITY OF IOWA, DES MOINES, IOWA, 11/1/66-10/31/69 RENEWAL \$127,820. OE**
THIS RESEARCH PROPOSES TO DEMONSTRATE THAT A STATE-WIDE COORDINATED INSERVICE EDUCATION PROGRAM USING MASTER TEACHERS CAN BE EFFECTIVE IN THE IMPROVEMENT OF PROGRAMS FOR EDUCABLE MENTALLY RETARDED CHILDREN, TO DISSEMINATE MATERIAL AND INFORMATION ON INSTRUCTIONAL METHODS TO SPECIAL CLASS TEACHERS, AND TO BRIDGE THE GAP BETWEEN RESEARCHER AND CLASSROOM TEACHER.
- G100 DETERMINING CRITERIA FOR ASSESSMENT AND REMEDIATION PROCEDURES IN SELECTE DEVELOPMENTAL PHYSICAL SKILLS OF TRAINABLE MENTALLY RETARDED AND MULTI- HANDICAPPED PUPILS OE6-0-9-142709-3463 CARR, DOROTHY B. LOS ANGELES CITY SCHOOLS LOS ANGELES CALIFORNIA 04/28/69-12/27/70 INITIAL \$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
- G105 EARLY INTELLECTIVE TRAINING AND SCHOOL PERFORMANCE, HD-02253-03SI (HD-02253-03), PALMER, FRANCIS H., CITY OF NEW YORK, N.Y., (1) 7/67-5/70, N.Y., (1) 7/68-5/70, (2) 6/69-5/70, RENEWAL, (1) \$2,632. (2) \$92,839. NICHD**
THIS RESEARCH PROPOSES TO DETERMINE THE EFFECTS OF TRAINING CHILDREN AGED 2 AND 3 UPON SUBSEQUENT PERFORMANCE IN THE FIRST GRADE TO INVESTIGATE THE MAIN AND INTERACTIVE EFFECTS OF TRAINING, AGE OF TRAINING, AND SOCIAL CLASS ON SUBSEQUENT CLASS-ROOM PERFORMANCE AND TO DETERMINE THE RELATIONSHIP BETWEEN EDUCATION OF PARENTS, ORDINAL POSITION, SIZE OF FAMILY, AND OTHER BACKGROUND CHARACTERISTICS.
- G110 EVALUATING AN INTEGRATED APPROACH TO THE MANAGEMENT OF CEREBRAL PALSY OE6-0-9-592149- 4540 HOUSE JAMES B WISCONSIN STATE UNIVERSITY, EAV CLAIRE WISCONSIN 6/1/69-8/31/70 INITIAL \$85,910 OE**
THE PURPOSE OF THIS PROPOSAL IS TO EVALUATE THE EFFECTS OF AN INTEGRATED TREATMENT AND EDUCATIONAL APPROACH TO CEREBRAL PALSY PATTERNED AFTER THE 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 ATHETOID CHILDREN WORKING AND LIVING AS A GROUP
- G115 FACILITATION OF COGNITIVE DEVELOPMENT AMONG CHILDREN WITH LEARNING DEFICITS BURGARELLA, ROSARIA, MICHIGAN STATE UNIVERSITY, EAST LANSING, MICHIGAN, 2/1/68-1/31/71, RENEWAL \$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.
- G120 FACTORS RELATED TO SPEECH HEARING BY MENTALLY RETARDED CHILDREN SIEGENTHALER, BRUCE M., PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA., 6/24/68-12/23/69, INITIAL, \$74,421. OE**
THIS RESEARCH WILL INVESTIGATE THE AUDITORY BEHAVIOR OF MENTALLY RETARDED CHILDREN TESTED ON THRESHOLD BY IDENTIFICATION OF PICTURES (TIP) AND DISCRIMINATION BY IDENTIFICATION OF PICTURES (DIP) TO ESTABLISH SPEECH LEARNING CHARACTERISTICS OF THE SUBJECTS.
- G125 INVESTIGATION OF SYSTEMATIC INSTRUCTIONAL PROCEDURES TO FACILITATE ACADEMIC ACHIEVEMENT IN MENTALLY RETARDED DISADVANTAGED CHILDREN OE6-0-9- 572167-4270 HARING, NORRIS G. UNIVERSITY OF WASHINGTON, SEATTLE WASHINGTON 6/15/69-6/14/71 INITIAL \$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 BUDOFF, MILTON, CAMBRIDGE MENTAL ASSOCIATION, CAMBRIDGE, MASS. 6/17/68-6/16/70, RENEWAL, \$312,187. OE**
THIS RESEARCH WILL FOCUS ON DISCRIMINATING AMONG THE SUBGROUPS WITHIN THE NON-GAINER CATEGORY AND SEEK A

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- 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.
- G135 MATHEMATICS CURRICULUM INNOVATION AND EDUCATION FOR EDUCABLY MENTALLY RETARDED ARMSTRONG, JENNY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN, 6/17/68-8/16/69, RENEWAL, \$8,369. OE
- THIS INVESTIGATION COMPARES THE RELATIVE EFFICACY OF FOUR DIFFERENT MATHEMATICS CURRICULUMS FOR EDUCABLE MENTALLY RETARDED PUPILS. REPETITION USED FOR REINFORCEMENT AND THE USE OF MINIPULATIVE AIDS MAKE UP THE CHIEF DIFFERENCES IN THE CURRICULUMS TO BE TESTED.
- G140 MOBILE RECREATION AND PHYSICAL EDUCATION UNIT OE6-0-9-272707-4263 MARSHALL, WAYNE KENTUCKY ASSOCIATION FOR RETARDED CHILDREN FRANKFORT, KY 6/16/69-6/15/70 INITIAL \$51,572 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 DEVISE, 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
- G145 PRODUCTION AND EVALUATION OF INDIVIDUALIZED CURRICULUM FOR THE EDUCABLE MENTALLY RETARDED CHILD OE6-0-9-322215-4509 RUNGE, LILLIAN THE BOARD OF EDUCATION OF THE SCHOOL DISTRICT OF THE CITY OF DETROIT, DETROIT, MICHIGAN 6/27/69-6/26/70 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
- G150 PROPOSED RESEARCH CURRICULUM FOR TRAINABLE RETARDED CHILDREN OES6-9-35202 6-0058 COLLINS D. HARDIN A. ST LOUIS UNIVERSITY ST LOUIS MISSOURI 10/1/68- 9/30/69 INITIAL \$10,000 OE
- THIS PROJECT PROPOSES A RESEARCH CURRICULUM FOR TRAINABLE RETARDED CHILDREN AND IS BASED ON AN OPERANT CONDITIONING METHODOLOGY. THE TWO MAIN AREAS OF CONCENTRATION WILL BE (1) ADAPTIVE BEHAVIOR AND COGNITIVE STIMULATION. THE OBJECTIVES OF THE PROGRAM WILL BE FOUR FOLD: (1) CHILD (2) FAMILY (3) RESEARCH (4) TRAINING VARIABLES.
- G155 RESEARCH TESTING THE FEASIBILITY OF PARENT TRAINING IN PRECISE BEHAVIOR MANAGEMENT WITH MENTALLY RETARDED CHILDREN OE6-8-9-542135-2023 RICKERT, DAVOE C UTAH STATE UNIVERSITY LOGAN, UTAH 5/1/69-11/30/69 INITIAL- \$3,537 OE
- THE MAJOR CONCERN OF THIS STUDY IS THE QUESTION: CAN THE PARENTS OF RETARDED CHILDREN BE TRAINED TO BECOME MORE EFFICIENT MANAGERS OF THEIR CHILD'S BEHAVIOR WHEN PARENTS ARE INVOLVED AND INSTRUCTED IN A BEHAVIOR MODIFICATION SYSTEM RELYING ON PERFORMANCE RATE DATA AND CHARTED BEHAVIORIAL OBSERVATION.
- G160 RETARDED AND EMOTIONALLY DISTURBED PRE-SCHOOL CHILDREN OE6-0-9-232030-076 2 BIJOU, SIDNEY W UNIVERSITY OF ILLINOIS URBANA ILLINOIS 9/1/68-8/31/71 INITIAL \$167,497 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
- G165 ROLE TAKING BEHAVIOR IN THE MENTALLY RETARDED OE6-0-9-422029-0713 FEFFER, MELVIN. YESHIVA UNIVERSITY, NEW YORK, NEW YORK 8/19/68-1/18/70 INITIAL- \$25,401 OE
- THE IMMEDIATE AIM OF THE RESEARCH IS THE ADAPTATION OF A PROJECTIVE ROLE- TAKING TASK (RTT) FOR USE WITH MENTALLY RETARDED INDIVIDUALS. THE RTT WILL FIRST BE GIVEN TO SMALL SAMPLES OF MENTALLY RETARDED SUBJECTS REPRESENTING A RANGE OF MENTAL AND CHRONOLOGICAL AGE. ON THE BASIS OF THEIR RESULTS MODIFICATIONS WILL BE MADE IN REGARD TO STIMULUS MATERIAL INSTRUCTIONS AND SCORING CRITERIA. THE AMENDED RTT WILL THEN BE ADMINISTERED TO A LARGE GROUP OF RETARDED SUBJECTS. INTERJUDGE AND TEST RELIABILITY WILL THEN BE EVALUATED IN COMPARISON TO THAT FOUND IN PREVIOUSLY STUDIED SAMPLES OF NORMAL ADULTS AND CHILDREN.
- 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., 6/1/65-5/31/69 RENEWAL, \$65,582. 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 PO1 03144-02, SCHIEFELBUSCH, R.L., UNIVERSITY OF KANSAS, LAWRENCE, KANS., 10/68-9/72, INITIAL, \$199,798. NICH
- 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 OE6-0-9-142710-4449 CRATTY, BRYANT J UNIVERSITY OF CALIF LOS ANGELES CALIFORNIA 06/11/69-10/10/70 INITIAL \$40,668 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
- G185 THE EFFECT OF INTERPOLATING SUCCESS EXPERIENCES INTO CLASSES FOR THE RETARDED OE6-5-9-242086-0029 SPICKER, HOWARD H INDIANA UNIVERSITY FOUNDATION BLOOMINGTON, INDIANA 11/15/68-11/14/69, INITIAL \$9,973 OE
- SINCE THE INCEPTION OF POTTERS SOCIAL LEARNING THEORY THE INTEREST IN STUDYING SUCCESS AND FAILURE EXPERIENCES AS THEY AFFECT THE MENTALLY RETARDED CHILD HAS BEEN RAPIDLY INCREASING AND APPROACHING THE GOAL OF PRACTICAL APPLICATIONS. THIS STUDY WILL LOOK CLOSELY AT VARIOUS ASPECTS OF THE SUCCESS CONDITION. AN ACTUAL CLASSROOM ACTIVITY WILL BE USED TO MEASURE THE EFFECTS OF SUCCESS UPON PERFORMANCE.
- G190 THE MEASUREMENT AND COMPARISON OF VARIABLES RELATED TO DRIVE HIGHWAY SAFETY BETWEEN EDUCABLE MENTALLY RETARDED AND NORMAL HIGH SCHOOL AGE PUPILS IN PENNSYLVANIA OE6-0-9-482062-1362 KETTERING, W. RICHARD AND MULLIN RAYMOND C. MILLERSVILLE STATE COLLEGE, MILLERSVILLE, 1/1/69-12/31/70 INITIAL- \$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
- G195 THE RELATIONSHIP AMONG VARIOUS DICHOTOMOUS DESCRIPTIVE PERSONALITY SCALES AND ACHIEVEMENT IN THE MENTALLY RETARDED RINGLEHEIM, DANIEL NEW YORK UNIVERSITY, NEW YORK, NEW YORK, 9/1/67-12/26/69 RENEWAL \$3,843. OE

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- THIS RESEARCH WILL EXAMINE THE RESPONSE CHARACTERISTICS OF RETARDED CHILDREN ON A BATTERY OF FIVE DICHOTOMOUS DESCRIPTIVE PERSONALITY SCALES, TO STUDY RELATIONSHIPS IN THE TEST RESULTS AND TO DEFINE PERSONALITY TRENDS IN THE CHILDREN.
- G200 THE USE OF PROGRAMMED LANGUAGE TRAINING AS A MEANS FOR DIFFERENTIAL DIAGNOSIS AND EDUCATIONAL REMEDIATION AMONG SEVERELY RETARDED CHILDREN OEG-2-7-070218-1639, BRICKER, WILLIAM, GEORGE PEABODY COLLEGE FOR TEACHERS NASHVILLE, TENN., 1/2/67-9/30/69, RENEWAL, \$33,389. OE
- THIS PROJECT WILL DEVELOP AND EVALUATE A LANGUAGE TRAINING PROGRAM FOR SEVERELY RETARDED CHILDREN. THE SUBJECTS WILL BE EXAMINED WITH RESPECT TO SENSORY IMPAIRMENT, SPECIFIC, AND GENERAL LEARNING DEFICITS, WITH ANALYSIS BASED ON THE FUNCTIONAL VARIABLES OF VERBAL BEHAVIOR ACQUISITION.
- ### AMELIORATION - VOCATIONAL REHABILITATION
- H005 AN AREA-WIDE EDUCATIONAL VOCATIONAL PREPARATION AND PLACEMENT PROGRAM FOR HIGH SCHOOL EDUCABLE MENTALLY RETARDED STUDENTS OF MUSKEGON COUNTY, MICHIGAN - A TOTAL COMMUNITY APPROACH OEG-32-32-0000-5019, ADAIR NORMAND, MUSKEGON AREA INTERMEDIATE SCHOOL DISTRICT, MUSKEGON, MICH., 9/1/66-8/31/69 RENEWAL, \$51,643. OE
- THIS RESEARCH PROPOSES TO DEVELOP A 4-YEAR PROGRAM FOR 250 STUDENTS WITH EMPHASIS ON SOCIAL ADJUSTMENT AND WILL CONSIST OF LIFE-ORIENTED ACADEMIC PREPARATION, JOB-ORIENTED PERSONAL AND WORK SKILLS EDUCATION, JOB EVALUATION, COUNSELING WITH PUPILS AND PARENTS, ON-THE-JOB TRAINING, JOB PLACEMENT, AND VOCATIONAL FOLLOW-UP.
- H010 ASSESSING OF WORK PERSONALITIES OF MENTALLY RETARDED ADULTS RD-2568-P, LLOYD H. LOFQUIST, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINN., 7/1/68-6/30/69 INITIAL, \$45,000. SRS-ORDT
- 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-2569-P, CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.D., 8/1/68-7/31/69, INITIAL, \$32,826. SRS-ORDT
- 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., 2/1/68-1/31/70, RENEWAL \$69,118. 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, 11/1/68-10/31/69 RENEWAL, \$98,645. SRS-ORDT
- 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., 5/1/69 - 4/30/70 INITIAL, \$32,257 SRS ORDT
- 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, \$91,449. SRS-ORDT
- 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.
- H040 GREATER CLEVELAND MENTAL RETARDATION DEVELOPMENT PROJECT RD-2056-G, BUCKMAN, RILMA OXLEY, WELFARE FEDERATION OF CLEVELAND, CLEVELAND, OHIO, 1/1/69-12/31/69, RENEWAL, \$72,750. SRS-ORDT
- 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., 6/1/69 - 5/31/70 INITIAL, \$54,713 SRS ORDT
- 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, 8/1/68-7/31/69. RENEWAL. \$56,893. SRS-ORDT
- 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., 7/1/68-6/30/69, RENEWAL, \$79,800. SRS-ORDT
- 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.
- H060 INTER-GENERATIONAL RELATIONSHIPS IN THE VOCATIONAL REHABILITATION OF MENTALLY RETARDED RD-2346-P, BAXT, ROLAND, FEDERATION EMPLOYMENT AND GUIDANCE SERVICE, NEW YORK, N.Y., 3/1/69-2/28/70, RENEWAL, \$53,000. SRS-ORDT
- THIS RESEARCH PROPOSES TO DEMONSTRATE THE VALUES OF A MULTI-DIMENSIONAL VOCATIONAL REHABILITATION PROGRAM FOR MENTALLY RETARDED ADULTS: A RELATIONSHIP BETWEEN THE RETARDED CLIENT AND AN OLDER DISABLED CLIENT TO PROMOTE THE FORMER'S FEELINGS OF SECURITY IN THE REHABILITATION SETTING AND TO ACCELERATE VOCATIONAL DEVELOPMENT WILL BE USED.
- H065 NEW APPROACHES TO COMPETITIVE EMPLOYMENT FOR THE MENTALLY RETARDED RD-2686-G, MARVIN BLANK, FLAME OF HOPE, HYANNIS PORT, MASS, 2/1/69-1/31/70, INITIAL, \$80,000. SRS-ORDT
- 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.

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- H070** **READING-FREE VOCATIONAL INTEREST INVENTORY**
BECKER, RALPH L., OHIO BUREAU OF MENTAL
RETARDATION, COLUMBUS, OHIO, 6/24/68-6/23/70
RENEWAL, \$26,336. OE
THIS PROJECT WILL DEVELOP AND TEST A READING-FREE VOCATIONAL INTEREST TEST FOR ADOLESCENT SLOW-LEARNERS AND YOUNG ADULT RETARDED ENROLLED IN WORK-STUDY AND PRE-VOCATIONAL PROGRAMS.
- H075** **RESTRUCTURING THE ROLE OF THE CONSUMER REPRESENTATIVE IN THE CHANGE PROCESS TO IMPROVE SERVICES FOR THE MENTALLY RETARDED**
RD-3705-P, SOKOLOFF, DAVID H., CALIFORNIA COUNCIL OF RETARDED CHILDREN, SACRAMENTO, CALIF., 5/1/69 - 12/31/69 INITIAL, \$25,000 SRS ORDT
A PILOT STUDY TO ANALYZE AND STRUCTURE A CHANGE PROCESS THAT WILL LEAD TO IMPROVEMENT IN THE SERVICES AVAILABLE TO THE RETARDED.
- H080** **SKILL ANALYSIS FOR PREDICTING VOCATIONAL SUCCESS OF THE MENTALLY RETARDED** RD-2599-P, HENRY VISCARDI JR., HUMAN RESOURCES CENTER ALBERTSON, N.Y., 7/1/68-6/30/69, INITIAL \$50,170. SRS-ORDT
THE PURPOSE OF THIS RESEARCH IS TO ANALYZE THE NATURE OF SPECIFIC INDUSTRIAL AND CLERICAL JOBS IN TERMS OF INTELLECTUAL, PHYSICAL AND PSYCHOMOTOR PREREQUISITES NECESSARY FOR PREDICTING VOCATIONAL SUCCESS WITH THE MENTALLY RETARDED. EVALUATIVE INSTRUMENTS TO PREDICT PERFORMANCE WILL BE DEVELOPED.
- H085** **SPECIAL SERVICES-RECREATION FOR THE HANDICAPPED** RD-2209-G, FREEBERG, WILLIAM H., SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE, ILL., 9/1/68-8/31/69, RENEWAL, \$20,000. SRS-ORDT
THIS RESEARCH PROPOSES TO DETERMINE THE SPECIFIC RECREATION NEEDS OF THE HANDICAPPED AND TABULATE THEM PERIODICALLY; DIGEST WRITTEN MATERIALS INTO 'RECOMMENDED READINGS'; EXAMINE EXISTING RECREATION PROGRAMS AND PREPARE DIGESTS OF THEM INTO 'RECOMMENDED PROGRAMS'; SOLICIT INFORMATION REGARDING PROCEDURES FROM EXISTING PROGRAMS AND PREPARE DIGESTS ENTITLED 'RECOMMENDED PROCEDURES'; CONTINUE PUBLICATION OF THE NEWSLETTER; AND UPDATE ANNUALLY THE BIBLIOGRAPHY.
- H090** **TRAINING NON-PROFESSIONAL COMMUNITY PROJECT LEADERS** (MH-0551-0551) MH-14821-0552) MADORE, C. ELIZABETH, DONA AND MENTAL HEALTH SERVICES, LAS VEGAS, NEW MEXICO, 10/69, RENEWAL, \$12,525. NIMH
THIS RESEARCH PROPOSES TO EXPLORE THE EFFECTIVENESS OF A SPECIAL METHOD OF SELECTING, ASSIGNING, TRAINING AND GIVING CONSULTATION TO NON-PROFESSIONAL MENTAL HEALTH WORKERS AS THEY AND THE COMMUNITY DEVELOP SPECIFIC MENTAL HEALTH SERVICES.
- 1020** **DEVELOPMENT OF PREVOCATIONAL 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 OBSESCENCE 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 03598-02, SPRAGUE, ROBERT L., UNIVERSITY OF ILLINOIS, URBANA, ILL., 6/69-5/71, RENEWAL, \$45,385. NICHHD
THIS PROJECT PROPOSES TO STUDY THE RELATIONSHIPS BETWEEN THE USE OF MEDICATION AND BEHAVIORAL THERAPY IN HYPERACTIVITY IN EXCEPTIONAL CHILDREN.
- 1040** **METABOLISM OF COPPER AND CALCIUM IN WILSON'S DISEASE** NS-3655-08, GOLDSTEIN, N. P., MAYO ASSOCIATION, ROCHESTER, MINN., 1/69-12/69, RENEWAL, \$31,628. 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-6298-04, ALEXANDER, GEORGE J., RESEARCH FOUNDATION FOR MENTAL HYGIENE, INC., NEW YORK, N.Y., 6/69-5/70, RENEWAL, \$16,708. 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.
- 1010** **CONVULSIVE AND ANTICONVULSIVE MECHANISMS IN CHILDREN** NS-5161-05, MILLICHAP, J. GORDON, CHILDREN'S MEMORIAL HOSPITAL, CHICAGO, ILL., 4/68-3/69, RENEWAL, FY68, \$21,384. NINDS
THIS RESEARCH IS CONCERNED WITH THE CONTROL OF SEIZURES AND EEG DISCHARGES AS RELATED TO CHANGES IN LEVELS OF AMINO ACIDS IN URINE AND BLOOD OF INFANTS AND CHILDREN WITH VARIOUS EPILEPSIES.
- 1015** **DEMONSTRATING ADAPTIVE BEHAVIOR-PSYCHIATRIC PROBLEM** (MH-14901-05) LELAND, HENRY, AMERICAN ASSOCIATION ON MENTAL DEFICIENCY, COLUMBUS, OHIO, 12/69, RENEWAL, \$115,792. NIMH
THIS RESEARCH PROPOSES TO PROVIDE NEW INFORMATION ON THE USE AND FUNCTION OF ADAPTIVE BEHAVIOR. THIS INFORMATION WILL FURTHER OUR UNDERSTANDING OF THE TREATMENT AND TRAINING NEEDS OF EMOTIONALLY DISTURBED AND MENTALLY RETARDED INDIVIDUALS.
- 1050** **PEPTIDURIA IN MENTAL RETARDATION** (MH-12320-02) BERLOW, STANLEY, MICHAEL REESE HOSPITAL AND MEDICAL CENTER, CHICAGO, ILLINOIS, 1/69, RENEWAL, \$9,216. NIMH
THIS RESEARCH PROPOSES TO STUDY PEPTIDES IN URINE OF RETARDED SUBJECTS IN AN EFFORT TO CHARACTERIZE NEW INBORN ERRORS OF METABOLISM.
- 1055** **PERINATAL STRESS AND PREMATURITY** HD 01420-04, BORNHOFEN, JOHN H., UNIVERSITY OF ARKANSAS, LITTLE ROCK, ARKANSAS, 2/69-1/70, RENEWAL, \$13,300. NICHD
THIS RESEARCH PROPOSES TO CONTINUE INVESTIGATING THE OUTCOME UP TO 5 YEARS OF AGE OF A GROUP OF OVER 200 PREMATURE INFANTS WHO HAD PREVIOUSLY BEEN STUDIED AS NEONATES.

AMELIORATION - MEDICAL TREATMENT

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- 1060 PHYSIOLOGY OF GROWTH, ACID-BASE AND ENERGY METABOLISM HD3993-01A1, WINTERS, ROBERT W., COLUMBIA UNIVERSITY, NEW YORK, NEW YORK, 1/69-12/73, INITIAL, \$355,074. 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.
- 1065 TREATMENT OF PATIENTS WITH HOMOCYSTEINURIA, NS 8532-01, (PRECEDED BY AM-NB 12431-01) WONG, PAUL W., CHICAGO MEDICAL SCHOOL, CHICAGO, ILL., 10/68-9/69, INITIAL, \$23,841. NINDS
OBJECTIVES TO DETERMINE THE OPTIMAL QUANTITIES OF HOMOSERINE, CYSTEINE AND METHIONINE REQUIRED IN THE DIETARY TREATMENT OF PATIENTS WITH HOMOCYSTEINURIA 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.
- 1070 TREATMENT OF SEROTONIN DEFICIENCY IN MONGOLS, H-256, COLEMAN, MARY, CHILDREN'S HOSPITAL OF THE DISTRICT OF COLUMBIA, WASHINGTON, D.C., 3/7/69-2/28/70, RENEWAL, \$21,311. SRS-CB
NO ABSTRACT SUPPLIED

OTHERS

- J005 A COMMUNICATION SCIENCES RESEARCH PROGRAM, NS-6459-04, MOORE, PAUL, UNIVERSITY OF FLORIDA, GAINESVILLE, FLA., 2/69-1/70, RENEWAL, \$197,850. 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 03352-02, HEBER, RICK F., UNIVERSITY OF WISCONSIN, MADISON, WIS., 3/69-2/71, RENEWAL, \$176,600. NICHD
NO ABSTRACT SUPPLIED
- 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. SRS-CB
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 BEHAVIORAL CLASSIFICATION OF NEUROLOGICAL PATIENTS, NS-3535-08, MURRAY, MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASS., 5/69-4/70, RENEWAL, \$85,894. 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.
- J025 CENTER GRANT FOR MENTAL RETARDATION RESEARCH CENTER HD4583-01, DORFMAN, ALBERT, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS, 6/69-5/74, INITIAL, \$439,110. 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.
- J030 CENTER GRANT JFK CENTER - GEORGE PEABODY COLLEGE HD4510-01, HOBBS, NICHOLAS, GEORGE PEABODY COLLEGE FOR TEACHERS, NASHVILLE, TENNESSEE, 6/69-5/74, INITIAL, \$287,612. 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 HD4024-01, O'BRIEN, DONOUGH, UNIVERSITY OF COLORADO, DENVER, COLORADO, 1/69-12/71, INITIAL, \$93,451. NICHD
THE PURPOSE OF THIS PROJECT IS TO ESTABLISH A CENTER FOR RESEARCH IN MENTAL RETARDATION AND RELATED ASPECTS OF HUMAN DEVELOPMENT.
- J040 CLINICAL AND LABORATORY STUDIES ON RUBELLA HD 00737-05, SCHIFF, GILBERT MARTIN, UNIVERSITY OF CINCINNATI, CINCINNATI, OHIO, 2/69- 1/72 RENEWAL \$36,634. 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.
- J045 DECISION CRITERIA IN ENDOGENOUS MENTALLY RETARDED ADULTS, RD-2625-P, WILSON P. TANNER, JR., UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH., 4/1/68- 5/31/69, INITIAL, \$26,570. SRS-ORDT
THIS RESEARCH WILL STUDY THE ROLE OF DECISION CRITERIA IN DECISION MAKING BY ENDOGENOUS MENTALLY RETARDED ADULTS. EXPERIMENTAL CASE STUDY TECHNIQUES WILL BE DEVELOPED WITHIN THE FRAMEWORK OF SIGNAL DETECTABILITY.
- 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. SRS-CB
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, 1/69-12/69, 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 OF OBSTETRICIANS AND GYNECOLOGISTS, CHICAGO, ILLINOIS, 8/1/69-7/31/70, RENEWAL, \$54,362. SRS-CB
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., 7/1/69-6/30/70, RENEWAL \$54,422. SRS-CB
NO ABSTRACT SUPPLIED
- J070 EVALUATION OF NUTRITIONAL STATUS OF PRE-SCHOOL CHILDREN IN THE UNITED STATES H-170, OWEN, GEORGE M., CHILDREN'S HOSPITAL RESEARCH FOUNDATION, COLUMBUS, OHIO, 7/1/69-6/30/70, RENEWAL, \$498,199. SRS-CB
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, 7/1/69-6/30/70, RENEWAL, \$283,974. SRS-CB

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- 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 FETAL LIFE STUDY -- THE ROLE OF PRENATAL INFLUENCES H-151, MELLIN, GILBERT W., COLUMBIA UNIVERSITY, NEW YORK, N.Y., 7/1/69-6/30/70, RENEWAL, \$62,000. SRS-CB**
- THIS RESEARCH IS A CLINICAL EPIDEMIOLOGICAL APPROACH TO THE STUDY OF NATURAL AND PATHOLOGY OF HUMAN REPRODUCTION TO DETERMINE THE INCIDENCE OF FETAL DEATHS, NEONATAL DEATHS, BIRTH INJURIES AND CONGENITAL MALFORMATIONS IN A SELECTED POPULATION.
- J085 HAWAII CHILD STUDY PROJECT, PH-201, WERNER, EMMY E., UNIVERSITY OF CALIFORNIA, DAVIS, CALIF., 7/1/68-6/30/70, RENEWAL, \$7,700. SRS-CB**
- THE PURPOSE OF THIS PROJECT IS TO PREPARE A MONOGRAPH ON THE KAUAI PREGNANCY AND CHILD STUDY, A LONGITUDINAL STUDY FROM THE PERINATAL PERIOD TO AGE 10 OF 1,000 CHILDREN.
- J090 HIGH-RISK INFANT FOLLOW-UP STUDY H-224, LULA O. LUBCHENCO UNIVERSITY OF COLORADO MEDICAL CENTER, DENVER, COLORADO, 7/1/69-6/30/70, RENEWAL, \$16,144. SRS-CB**
- 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 INTEGRATION OF EDUCABLE RETARDATES IN NORMAL GROUPS, PUMPHREY, MURIEL, JEWISH COMMUNITY CENTERS ASSOCIATION, ST. LOUIS, MISSOURI, NIMH RO1 (MH-14424-05) 6/1/69, RENEWAL, \$111,977. NIMH**
- THIS RESEARCH SEEKS TO IDENTIFY CHARACTERISTICS IN RETARDATES WHICH ARE CRUCIAL TO THEIR INTEGRATION INTO NORMAL GROUPS. THE INVESTIGATOR HOPES TO DEVELOP A SOCIAL READINESS SCALE FROM TWO INSTRUMENTS, THE SIGNIFICANT INCIDENT, AND THE GROUP PARTICIPATION REPORT FILLED OUT BY GROUP LEADERS. THE SCALE WILL PROVIDE GUIDELINES FOR PEOPLES WORKING WITH RETARDATES IN SUCH GROUPS.
- J100 INTENSIFICATION OF RESEARCH IN MENTAL RETARDATION HD 02553-03 WARKANY, JOSEF, CHILDREN'S HOSPITAL, RESEARCH FDN., CINCINNATI, OHIO, 9/68-8/71, RENEWAL \$126,718. 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.
- J105 INTRINSIC AND EXTRINSIC OCULAR DISEASE INVESTIGATIONS, NS-5691-04, COGAN, DAVID G., MASSACHUSETTS EYE AND EAR INFIRMARY, BOSTON, MASS., 9/68-8/69, RENEWAL, \$425,201. NINDS**
- THIS PROJECT-CENTER IS CONCERNED WITH CLINICAL RESEARCH IN THE FIELDS OF GLAUCOMA, UVEITIS, NEUROOPHTHAMOLOGY, RETINAL ANOMALIES, STRABISMUS AND CORNEAL PROBLEMS.
- 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 SRS-CB**
- 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-3418-06, TORRES FERNANDO, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINN., 39/68-8/69, RENEWAL, 14,611. 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.
- J120 MENTAL RETARDATION RESEARCH CENTER, UCLA HD4612-01, TARJAN, GEORGE, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA, 6/69-5/73, INITIAL, \$441,040. 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.
- J125 MENTAL RETARDATION RESEARCH PROGRAM - IMPLEMENTATION HD3773-01, BARLOW, CHARLES F., CHILDREN'S HOSPITAL MEDICAL CENTER, BOSTON, MASSACHUSETTS, 9/68-8/73, INITIAL, \$214,958. 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.
- J130 NEUROLOGICAL CLINICAL RESEARCH CENTER, NS 8075-02, ROWLAND, LEWIS P., UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA., 4/69-3/70, RENEWAL, \$228,751. 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 02528-03, SCHIEFELBUSCH, R.L., UNIVERSITY OF KANSAS, LAWRENCE, KANSAS, 1/69-12/70, RENEWAL \$141,367. 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., 5/1/69-4/30/70. INITIAL, \$28,500. SRS-ORDT**
- NO ABSTRACT SUPPLIED
- J145 RESEARCH IN MENTAL RETARDATION AND CHILD DEVELOPMENT HD 02274-03 THIEME, FREDERICK P., UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON, 7/68-6/69, RENEWAL, \$96,002 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 RESEARCH IN MENTAL RETARDATION AND HUMAN DEVELOPMENT HD 01799-04, GORDON, HARRY H., YESHIVA UNIVERSITY, NEW YORK, N.Y., 9/68-8/69 RENEWAL, \$69,924. 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.
- J155 RESEARCH IN MENTAL RETARDATION HD4147-01, MOSER, HUGO W., WALTER E. FERNALD STATE SCHOOL, WAVERLEY, MASSACHUSETTS, 1/69-12/71, INITIAL, \$87,471. NICHD**
- THE PURPOSE OF THIS PROJECT IS TO ESTABLISH A CENTER FOR RESEARCH IN MENTAL RETARDATION. THE CENTER WILL PRO-

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- VIDE IN-PATIENT METABOLIC AND BEHAVIOR MODIFICATION UNITS, SPECIALIZED DIAGNOSTIC FACILITIES, AND LABORATORIES FOR BIOMEDICAL RESEARCH.
- J160 RESEARCH IN MENTAL RETARDATION HD 02712-03, TARJAN, GEORGE, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF. 4/69-3/72, RENEWAL, \$181,235. NICHD
THIS RESEARCH PROPOSES TO ESTABLISH AN INTERDISCIPLINARY RESEARCH PROGRAM AIMED AT SOLVING PROBLEMS IN MENTAL RETARDATION AND RELATED ASPECTS OF HUMAN DEVELOPMENT. BIOMEDICAL AS WELL AS BEHAVIORAL RESEARCH WILL FORM COMPONENTS OF THE PROGRAM, WITH EMPHASIS ON BOTH BASIC AND CLINICAL RESEARCH.
- J165 SENSORY INTEGRATIVE PROCESSES AND LEARNING DISORDERS, H-1261, AYRES, A. JEAN, UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CALIFORNIA, 7/1/69-6/30/70, RENEWAL, \$37,714. SRS-CB
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. SRS-CB
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 THE BEHAVIORAL BIOLOGY LABORATORY HD4335-01, CHAPMAN, LORING, UNIVERSITY OF CALIFORNIA, DAVIS, CALIFORNIA, 6/69-5/72, INITIAL, \$220,907. 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.
- J180 THE CHILD AND THE STATE H-91, ELIOT, MARTHA M., AMERICAN PUBLIC HEALTH ASSOCIATION, NEW YORK, N.Y., 6/1/69-5/31/70, RENEWAL, \$78,108 SRS-CB
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. SRS-CB
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 03110-02, MILLER, C. ARDEN, UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, N.C., 9/87-8/69, RENEWAL, \$196,445. 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, AND HUMAN RIGHTS. IT IS PROPOSED THAT THE RESEARCH BE USED.

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- A235 IMMUNOCHEMICAL STUDIES OF NEURAL DIFFERENTIATION, \$11,530
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 F015 THERAPY FOR RETARDATE WITH COMMUNICATION DISORDERS \$102,604
 G020 A DEMONSTRATION OF THE USE OF THE TEACHER INITIATED \$34,500
 G175 THE DEVELOPMENT OF CULTURALLY DEPRIVED CHILDREN \$199,798
 J135 PROGRAM FOR A RESEARCH CENTER IN MENTAL RETARDATION \$141,367
- KENTUCKY**
- C200 DEVELOPMENT OF HIGH VOLTAGE ELECTROPHORESIS USES \$14,248
 C370 INTESTINAL TRANSPORT OF AMINO ACIDS IN PKU \$29,114
 G140 MOBILE RECREATION AND PHYSICAL EDUCATION UNIT \$51,572
- LOUISIANA**
- A345 NUTRITION IN PREGNANCY AND EARLY CHILDHOOD \$89,246
 A410 PSYCHOSOCIAL DEVELOPMENT IN PRIMATES \$128,390
 C390 LYSINE METABOLISM IN INFANTS & CHILDREN \$16,967
- MAINE**
- A495 THE PATHOGENESIS OF HEREDITARY NEUROLOGICAL DISORDERS, \$31,932
 C325 GENETICS OF BRAIN ANATOMY AND BEHAVIOR \$44,480
 C565 STUDIES OF NEONATAL BLOOD DISORDERS \$26,482
 D125 COMMUNITY ADJUSTMENTS OF DISCHARGED RETARDATE, \$23,000
- MARYLAND**
- A080 CARBOHYDRATE METABOLISM IN NEONATE \$31,870
 A165 ENERGY SUPPLY DISORDERS AFFECTING THE FETAL-INFANTILE CNS,\$46,791
 A175 ENZYMIC FORMATION OF BILE PIGMENTS, \$5,102
 A365 PERINATAL MALNUTRITION AND DEVELOPMENT OF THE OFFSPRING, \$23,210
 A530 VIRAL HEMORRHAGIC ENCEPHALITIS, \$31,621
 B005 EPIDEMIOLOGY OF MENTAL RETARDATION IN A RURAL COUNTY \$50,000
 C045 BEHAVIOR IN THE PROGENY OF UNDERFED MOTHERS \$26,574
 C080 BIOCHEMICAL STUDIES OF MYELINATION, \$18,630
 C090 BIOLOGIC EFFECTS OF ABO HETEROSEXUAL PREGNANCY, \$49,861
 C145 CHEMICAL EVALUATION OF FETAL RESPIRATION AND DISTRESS \$19,007
 C185 CORRELATIVE REFLEX STUDIES IN MAN AND ANIMALS, \$6,863
 C535 RESPIRATORY STUDIES IN THE NEWBORN PERIOD \$23,831
 C560 STUDIES IN HUMAN GENETICS \$50,317
 D030 AUDIOLOGICAL STUDY BY EEG OF THE MENTALLY RETARDED, \$2,454
 D150 LONGITUDINAL AND RELATED PSYCHOHORMONAL STUDIES \$34,836
 J075 EVALUATION STUDIES ON MATERNAL AND INFANT CARE PROJECTS \$283,974
- MASSACHUSETTS**
- A060 BRAIN LIPIDS IN DIFFUSE DEMYELINATIVE DISEASES \$45,150
 A115 CYTOGENESIS OF EMBRYONIC HUMAN CENTRAL NERVOUS SYSTEM, \$21,477
 A170 ENVIRONMENTAL LEAD INTOXICATION IN CHILDREN \$9,247
 A265 LP AND ASSOCIATED MUTATIONS, \$12,360
 A320 NEUROLOGICAL DEVELOPMENT-INFANTS OF DIABETIC MOTHERS, \$10,822
 A325 NEW AMINO ACID DISORDERS IN CEREBRAL DISEASE \$22,896
 A395 PLANNING GRANT, STUDY OF NEONATAL HYPERBILIRUBINEMIA, \$6,000
 A430 RED CELL AND SERUM FACTORS AS GENE MARKERS IN CHILDREN \$50,111
 A450 STRUCTURAL AND DEVELOPMENTAL GENES IN CHILDREN \$30,921
 A465 STUDY OF COPPER PROTEINS IN NORMAL AND DISEASED BRAIN, \$28,457
 C105 BRAIN DEVELOPMENT IN NORMAL AND MUTANT MICE, \$133,462
 C305 DYNAMICS OF RAT FETAL INSULIN SECRETION \$29,972
 C425 METABOLISM AND FUNCTION OF COMPLEX LIPIDS, \$39,930
 C525 QUANTITATIVE HISTOCHEMICAL STUDIES UPON CEREBRAL CORTEX, \$16,086
 C555 STORAGE DISEASE - INTRACELLULAR TRANSPORT AND DIGESTION, \$49,896
 D015 ADAPTIVE BEHAVIOR AND EEG IN MENTALLY RETARDATE \$26,259
 D180 QUANTITATIVE HUMAN CHROMOSOME STUDY AIDED BY COMPUTER \$27,564
 F005 LEARNING POTENTIAL AMONG THE EDUCABLE RETARDED \$59,512
 G130 LEARNING POTENTIAL AND EDUCABILITY \$312,187
 H065 NEW APPROACHES TO COMPETITIVE EMPLOYMENT \$80,000
 J020 BEHAVIORAL CLASSIFICATION OF NEUROLOGICAL PATIENTS, \$85,894
 J105 INTRINSIC AND EXTRINSIC OCULAR DISEASE INVESTIGATIONS, \$425,201
 J125 MENTAL RETARDATION RESEARCH PROGRAM \$214,958
 J155 RESEARCH IN MENTAL RETARDATION \$87,471
- MICHIGAN**
- A145 DRUGS ON BRAIN CHOLESTEROL DURING DEVELOPMENT AND AGING, \$18,986
 A225 HASHIMOTOS STRUMA AND CONGENITAL HYPOTHYROIDISM, \$32,889
 A420 RADIATION AND MORPHOLOGIC AND BEHAVIORAL DEVELOPMENT, \$21,055
 C135 CEREBRAL ENZYMES IN NORMAL AND CONVULSIVE STATES, \$55,195
 C170 CNS AND NUTRITIONAL INFLUENCES OF AMINO ACIDS IN PKU \$14,728
 C445 MORPHOLOGY AND CYTOCHEMISTRY OF DEVELOPING SYNAPSES, \$1,218
 C505 PHOSPHOLIPID METABOLISM DURING DEVELOPMENT \$15,306

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- C615 TRANSPLACENTAL PASSAGE OF FETAL ERYTHROCYTES \$42,564
- 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
- H005 AN AREA-WIDE EDUCATIONAL VOCATIONAL \$51,643
- J045 DECISION CRITERIA IN ENDOGENOUS MENTALLY RETARDED ADULTS, \$26,270
- MINNESOTA**
 - A135 DEVELOPMENTAL NERVOUS DISORDERS KRABBE'S DISEASE, \$17,731
 - A140 DIRECT AND INDIRECT CALORIMETRY IN NEWBORNS, \$24,375
 - C010 A CENTER FOR RESEARCH IN HUMAN LEARNING \$130,862
 - C255 EMBRYOGENESIS OF THE ADRENERGIC NERVOUS SYSTEM, \$23,012
 - D100 DERMATOGLYPHICS IN MENTAL RETARDATION, \$29,654
 - H010 ASSESSING OF WORK PERSONALITIES \$45,000
 - H055 INTER-DISTRICT SCHOOL REHABILITATION PROGRAM \$79,800
 - I040 METABOLISM OF COPPER AND CALCIUM IN WILSON'S DISEASE, \$31,628
 - J115 LONGITUDINAL STUDY OF EEG PATTERNS IN CHILDREN, \$14,611
- MISSISSIPPI**
 - J095 INTEGRATION OF EDUCABLE RETARDATE IN NORMAL GROUPS, \$111,977
- MISSOURI**
 - A050 BIOSYNTHESIS AND METABOLISM OF GALACTOLIPIDS, \$28,005
 - A150 EFFECTS OF ANOXIA ON BRAIN METABOLISM IN THE NEWBORN, \$28,877
 - A375 PHENYLALANINE ANTIMETABOLITE EFFECT ON NERVOUS SYSTEM, \$23,730
 - C250 ELECTRON MICROSCOPY OF NUTRITIONAL ENCEPHALOPATHY, \$23,553
 - D105 DIAGNOSTIC ASPECTS OF ELECTROENCEPHALIC AUDIOMETRY, \$41,168
 - G150 PROPOSED RESEARCH CURRICULUM \$10,000
 - H050 INDUSTRIAL TRAINING RESOURCES IN REHABILITATION PROGRAMS \$56,893
- MONTANA**
 - G060 AN OPINIONNAIRE STUDY ON THE HABILITATION OF RURAL EDUCABLE \$7,710
- NEBRASKA**
 - A180 ENZYME ACTIVITIES IN BRAINS, \$17,099
 - A275 MENTAL RETARDATION CLINICAL RESEARCH CENTER \$213,517
 - A276 MENTAL RETARDATION CONFERENCE ON PHYSICAL TRAUMA, \$28,000
 - A435 ROLE OF BRANCHED CHAIN AMINO ACIDS IN BRAIN MATURATION, \$10,830
 - C230 EFFECTS OF VIRUSES ON HUMAN CHROMOSOMES \$24,419
 - J055 DEVELOPMENT OF BRAIN ELECTRICAL ACTIVITY OF INFANTS, \$45,597
- NEVADA**
 - A400 PRE-NATAL AND POST-NATAL MONOAMINES IN BRAIN AND HEART \$11,762
- NEW HAMPSHIRE**
 - A535 VIRUS-CELL INTERACTION REPLICATION AND DIFFERENTIATION, \$78,288
 - C620 ULTRASTRUCTURAL STUDIES IN MAMMALIAN TERATOGENESIS. \$23,602
- NEW MEXICO**
 - A440 SEROTONIN AND GANGLIOSIDES IN BRAIN DEVELOPMENT, \$24,222
 - H090 TRAINING NON-PROFESSIONAL COMMUNITY PROJECT LEADERS \$12,525
- NEW YORK**
 - A005 A TYPICAL HUMAN PLASMA CHOLINESTERASE, \$20,736
 - A015 ABO ERYTHROBLASTOSIS \$90,474
 - A040 BIOCHEMICAL CAUSES OF MENTAL RETARDATION \$64,370
 - A105 CONGENITAL CATARACTS AND ASSOCIATED ANOMALIES, \$5,779
 - A125 DETECTION AND STUDY OF INBORN ERRORS \$46,920
 - A130 DETECTION OF BLOOD GALACTOSE IN NEWBORN CHILDREN \$28,023
 - A155 EFFECT OF MALNUTRITION IN EARLY LIFE \$39,178
 - A190 FACTORS INFLUENCING NEURAL TUBE DIFFERENTIATION \$16,901
 - A195 FUNCTIONAL ANALYSIS OF THE HUMAN SKULL, \$9,662
 - A210 GANGLIOSIDES IN WHITE MATTER AND IN MYELIN, \$30,435
 - A215 GENETIC FACTORS IN HUMAN SEX DEVELOPMENT \$40,294
 - A230 IMMEDIATE AND LONG-TERM EFFECTS OF ASPHYXIA NEONATORUM \$107,324
 - A240 INHIBITION ASSAY - DETECTION AND STUDY OF INBORN ERRORS, \$48,074
 - A330 NUTRITION AND CELL GROWTH DURING BRAIN DEVELOPMENT \$32,098
 - A360 PATHOGENESIS OF NEONATAL PHYSIOLOGIC JAUNDICE \$27,118
 - A380 PHYLOGENY AND ONTOGENY OF THE CEREBRAL CORTEX, \$18,808
 - A405 PRODUCTION OF ABNORMAL MOVEMENTS OF NEUROLOGIC ORIGIN \$19,500
 - A455 STUDIES IN TAY-SACHS DISEASE, \$15,666
 - A460 STUDY OF BRAIN GANGLIOSIDES. \$28,587
 - A475 STUDY OF HEREDITARY NEUROMUSCULAR DISEASES, \$107,443
 - A490 THE GROWTH OF COGNITIVE ABILITIES IN YOUNG CHILDREN \$18,745
 - A500 THE ROLE OF THE THYROID GLAND IN BRAIN METABOLISM, \$7,803
 - B025 WORKSHOP ON HEREDITARY NEUROMUSCULAR DISEASES, \$20,000
 - C025 AMNIOTIC FLUID CONSTITUENTS IN FETAL ERYTHROBLASTOSIS \$34,900
 - C100 BRAIN BARRIER SYSTEM MECHANISMS FOR AMINO ACIDS, \$30,385
 - C115 BRAIN FUNCTIONS IN METABOLIC DISORDERS, \$29,165

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C120 CENTER FOR NORMAL AND ABERRANT ADAPTIVE DEVELOPMENT \$330,639
 C125 CENTRAL NERVOUS SYSTEM SEQUELAE OF PREMATURITY \$27,548
 C150 CHEMICAL STUDY OF CONGENITAL MENTAL DEFECTS \$38,694
 C155 CNS MATURATION & EVOKED RESPONSES IN PREMATURE INFANT \$7,560
 C190 CORTICAL DENDRITES, \$25,885
 C195 CYTOLOGIC STUDIES IN DISEASES OF THE NERVOUS SYSTEM, \$50,874
 C210 EFFECT OF AMINO ACID LEVELS ON PROTEIN BIOSYNTHESIS \$15,152
 C220 EFFECT OF GROWTH ON BULK RNA AND A NEW RNA FRACTION, \$11,180
 C240 ELECTRON MICROSCOPY AND BIOCHEMISTRY OF LIPIDOSES, \$2,718
 C245 ELECTRON MICROSCOPY OF THE NERVOUS SYSTEM, \$23,386
 C265 ETIOLOGY OF PERINATAL BRAIN DAMAGE, \$95,265
 C315 FUNCTIONAL ASPECTS OF PULMONARY IMMATURITY \$21,399
 C330 STORAGE DISEASE - INTRACELLULAR TRANSPORT AND DIGESTION, \$41,085
 C335 HISTOPATHOLOGIC PATTERNS IN THE BRAIN, \$27,881
 C360 INTEGRATED APPROACHES TO NEUROBIOLOGICAL PROBLEMS, \$95,765
 C385 LOWER SES CHILD REARING AND COGNITIVE DIFFERENTIATION \$88,588
 C420 METABOLISM OF DRUG SUBSTRATES BY HUMAN PLACENTA, \$17,921
 C465 NEUROLOGICAL CLINICAL RESEARCH CENTER, \$6,054
 C490 PERINATAL VASCULAR CAUSES OF NEONATAL ATELECTASIS \$24,306
 C575 STUDIES OF TETRAPLOID DNA STATUS OF PURKINJE CELLS, \$15,313
 C595 STUDY OF NERVOUS SYSTEM LIPIDS, \$48,237
 C610 THE INFANTS VOCALIZATIONS \$24,792
 C625 ULTRASTRUCTURAL STUDIES OF THE LUNG \$25,226
 D035 BEHAVIORAL STUDY OF MENTALLY RETARDED CHILDREN \$37,903
 D045 CELLULAR ASPECTS OF HUMAN GENETICS AND IMMUNOLOGY \$155,980
 D060 CNS PLASTICITY DURING CRITICAL PERIODS OF DEVELOPMENT \$208,032
 E015 DIAGNOSTIC-THERAPEUTIC STUDIES OF HIGH-RISK PREGNANCY \$184,038
 E030 PREVENTION OF HEMOLYTIC DISEASE OF THE NEWBORN \$13,967
 G015 A CURRICULUM CENTER IN SOCIAL LEARNING \$52,655
 G105 EARLY INTELLECTIVE TRAINING AND SCHOOL PERFORMANCE, \$92,839
 G165 ROLE TAKING BEHAVIOR IN THE MENTALLY RETARDED \$25,401
 G195 THE RELATIONSHIP AMONG VARIOUS DICHOTOMOUS \$3,843
 H020 COGNITIVE DEVELOPMENT IN CHILDREN WITH BRAIN DAMAGE \$69,118
 H060 INTER-GENERATIONAL RELATIONSHIPS \$53,000
 H080 SKILL ANALYSIS FOR PREDICTING VOCATIONAL SUCCESS \$50,170
 I045 MODE OF ACTION OF CONVULSIVE AGENTS, \$16,708
 I060 PHYSIOLOGY OF GROWTH, ACID-BASE AND ENERGY METABOLISM, \$355,074
 J015 AIDING COGNITIVE GROWTH IN DISADVANTAGED PRESCHOOLER \$107,926
 J050 DEVELOPMENT OF A DEMONSTRATION DAY CARE CENTER \$349,788
 J065 ENHANCEMENT OF RECREATION SERVICE TO DISABLED CHILDREN \$54,422
 J080 FETAL LIFE STUDY -- THE ROLE OF PRENATAL INFLUENCES \$62,000
 J150 RESEARCH IN MENTAL RETARDATION AND HUMAN DEVELOPMENT \$69,924
 J180 THE CHILD AND THE STATE \$78,108

NORTH CAROLINA

A010 ABO ERYTHROBLASTOSIS-IMMUNOLOGIC STUDIES, \$17,556
 A305 MUCOPOLYSACCHARIDES IN NEUROLOGICAL DISORDERS, \$19,959
 A370 PERSISTENT CONGENITAL AND NEONATAL VIRUS INFECTIONS, \$45,122
 A510 THREE PROBLEMS IN EXPERIMENTAL PATHOLOGY, \$43,934
 C015 AMINE METABOLISM IN PKU AND MENTAL DISORDERS, \$34,926
 C110 BRAIN FUNCTION AND THE METABOLISM OF MACROMOLECULES, \$36,093
 C540 RNA AND PROTEIN METABOLISM IN NEUROLOGIC DISORDERS, \$27,464
 G085 COGNITIVE TRAINING WITH RETARDED CHILDREN, \$135,136
 J170 SUPPLEMENTAL DAYTIME CARE OF INFANTS, \$120,734
 J190 UNC CHILD DEVELOPMENT AND MENTAL RETARDATION INSTITUTE, \$196,445

OHIO

A070 BRAIN PROTEIN SYNTHESIS IN RELATION TO MENTAL RETARDATION, \$50,169
 A085 CARBOHYDRATE METABOLISM IN THE NEWBORN, \$23,854
 A185 EXPERIMENTAL MODEL OF PHENYLKETONURIA-LIKE CONDITIONS, \$22,856
 A485 TERATOLOGICAL STUDIES WITH INBRED MICE, \$18,782
 C075 BIOCHEMICAL DEFECTS RELATED TO CONGENITAL ANOMALIES, \$48,443
 C165 CONGENITAL MALFORMATIONS IN MAMMALS, \$70,353
 C405 METABOLIC DISORDERS AND MENTAL DEFICIENCY, \$58,618
 D175 PERCEPTION IN PREMATURE, TERM, AND DEFECTIVE INFANTS, \$57,082
 D185 THE CYTOGENETICS OF EMBRYONIC MALDEVELOPMENT, \$48,463
 G045 AN EVALUATION OF THE FISHER WORD ATTACKS AID SYSTEM, \$23,715
 G090 CONTEXTUAL USE IN READING PERFORMANCE, \$9,495
 H040 GREATER CLEVELAND MENTAL RETARDATION DEVELOPMENT PROJECT, \$72,750
 H070 READING-FREE VOCATIONAL INTEREST INVENTORY, \$26,336
 I015 DEMONSTRATING ADAPTIVE BEHAVIOR-PSYCHIATRIC PROBLEM, \$115,792
 J040 CLINICAL AND LABORATORY STUDIES ON RUBELLA, \$36,634
 J070 EVALUATION OF NUTRITIONAL STATUS OF PRE-SCHOOL CHILDREN, \$498,199
 J100 INTENSIFICATION OF RESEARCH IN MENTAL RETARDATION, \$126,718
 J185 TRAINING AND RESEARCH FACILITY IN CHILD WELFARE, \$503,447

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D090 DEFICITS IN BRAIN DAMAGE, \$45,971

OREGON

C235 ELECTROENCEPHALOGRAPHIC STUDIES IN NEWBORN, YOUNG INFANTS \$25,536
C375 INVESTIGATION OF THE PEPTIDES IN HUMAN SERUM AND URINE, \$20,290
C460 NEURAL MECHANISMS OF LEARNING AND BEHAVIOR, \$11,779
D115 MEASUREMENT AND REMEDIATION OF SOCIAL COMPETENCY DEFICITS, \$69,772

PENNSYLVANIA

A295 METABOLIC STUDIES IN NERVOUS SYSTEM TISSUE CULTURE, \$37,730
C180 COMPLEX GLYCOLIPIDS OF BRAIN AND RELATED SYSTEMS, \$94,209
C225 EFFECTS OF ACUTE BILIRUBIN INTOXICATION ON THE CNS, \$22,740
C340 HORMONAL FUNCTION & GROWTH & DEVELOPMENT IN CHILDHOOD, \$61,804
C345 HYPOXEMIA, ACIDEMIA AND CAPILLARY PERMEABILITY, \$21,344
C410 METABOLIC DISORDERS IN CHILDREN, \$45,218
C580 STUDY OF BRAIN HISTOLOGY IN THE PERINATAL PERIOD, \$6,002
C635 VITAMIN B6 AND CENTRAL NERVOUS SYSTEM FUNCTION, \$23,440
D025 ANALYTIC STUDIES OF VISUAL PERCEPTION, \$24,238
D040 BIOCHEMISTRY OF HUMAN CHROMOSOMAL ANEUPLOIDY, \$35,600
D050 CEREBRAL CORTICAL BIOPSIES, \$20,567
D115 EEG RESPONSES IN NEWBORNS RECEIVING INTENSIVE CARE, \$71,635
D140 LAB INDICIES OF HUMAN FETOPLACENTAL FUNCTION, \$564
D190 THE REASONING, MORAL JUDGEMENT, AND MORAL CONDUCT, \$66,200
G120 FACTORS RELATED TO SPEECH HEARING, \$74,421
G190 THE MEASUREMENT AND COMPARISON OF VARIABLES HIGHWAY SAFETY, \$74,956
I005 ALBUMIN BINDING CAPACITY AND KERNICTERUS, \$27,706
J130 NEUROLOGICAL CLINICAL RESEARCH CENTER, \$228,751

RHODE ISLAND

C320 GANGLOSID INDUCTION DURING EMBRYONIC DEVELOPMENT, \$12,522
C480 ONTOGENY OF VISUAL AND AUDITORY EXPLORATION IN INFANTS, \$30,915
D160 NEONATAL ASSESSMENTS AND FOLLOW-UP VALIDATIONS, \$25,813

TENNESSEE

A075 CARBAMYL PHOSPHATE SYNTHESIS IN BRAIN, \$2,658
A110 CYSTATHIONINE METABOLISM IN BRAIN, \$10,883
C530 RESEARCH PROGRAM OF RETARDED INTELLECTUAL DEVELOPMENT, \$247,732
G170 SENSORY-PERCEPTUAL LANGUAGE TRAINING, \$65,582
G200 THE USE OF PROGRAMMED LANGUAGE TRAINING, \$33,389
I020 DEVELOPMENT OF PREVOCATIONAL SKILLS IN TMR CHILDREN, \$21,137
J030 CENTER GRANT JFK CENTER - GEORGE PEABODY COLLEGE, \$287,612

TEXAS

C050 BILIRUBIN DISPOSITION IN THE NEWBORN, \$29,239
C085 BIOCHEMISTRY OF SPHINGOSINE AND SPHINGOLIPIDS, \$10,976
C285 EXPERIMENTAL PHENYLKETONURIA IN INFANT RATS, \$22,326
C300 FETAL AND NEONATAL PITUITARY-THYROID PHYSIOLOG, \$23,140
D135 INKBLOT PERCEPTION AND PERSONALITY, \$40,200
G030 A RESEARCH AND TRAINING PROGRAM \$93,179
G055 AN INVESTIGATION OF FACTORS INFLUENCING LEARNING, \$35,459
I025 ENVIRONMENTAL CRITERIA: MR DAY CARE FACILITIES, \$90,135

UTAH

E005 AUTOMATED MONITORING OF SICK INFANTS, \$36,607
G155 RESEARCH TESTING THE FEASIBILITY OF PARENT TRAINING, \$3,537

VIRGINIA

A020 ABNORMAL DEVELOPMENT OF THE NERVOUS SYSTEM, \$32,939
C415 METABOLIC STUDIES IN MONGOLISM, \$36,421
C430 MICROCHEMICAL PATHOLOGY OF CEREBRAL CORTEX MATURATION, \$33,003

VERMONT

C290 FACTORS INFLUENCING EXPERIMENTAL KERNICTERUS, \$26,359
G070 BENNINGTON COUNTY DAY PROGRAM, \$43,867

WASHINGTON

A270 MATERNAL AND FETAL METABOLISM OF STEROIDS AND DRUGS, \$20,196
B020 THE EPIDEMIOLOGY OF MATERNAL - NEONATAL INFECTIONS, \$69,409
C095 BIOSYNTHESIS OF PULMONARY SURFACE ACTIVE LIPIDS, \$23,377
C350 HYPOXIA, METABOLISM, AND NEONATAL THERMOREGULATION, \$14,185
C380 LEARNING AND TRANSFER IN NORMAL AND RETARDED CHILDREN, \$14,164
C395 MECHANISM OF BILIRUBIN TOXICITY, \$24,463
C450 NEONATAL CLINICAL RESEARCH FACILITY, \$88,104
C510 PHYSIOLOGIC STUDIES IN NEWLY BORN HUMAN INFANTS, \$20,096
G125 INVESTIGATION OF SYSTEMATIC INSTRUCTIONAL PROCEDURES, \$127,669
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C630 UPTAKE OF AMINO ACIDS BY THE FETUS OF THE EWE, \$23,689
D130 HYPO-RESPONSIVENESS IN BRAIN-DAMAGED CHILDREN, \$24,441
D170 SKILLS OF MENTALLY RETARDED, \$58,640
G075 CLASS SIZE AND TEACHER AIDES AS FACTORS, \$53,952
G080 CLASSICAL CONDITIONING IN RETARDED AND NORMALS, \$29,386
G110 EVALUATING AN INTEGRATED APPROACH TO THE MANAGEMENT, \$85,910
G135 MATHEMATICS CURRICULUM INNOVATION AND EDUCATION, \$8,369
H030 COMPARATIVE EFFORTS IN COMMUNITY ORGANIZATION, \$32,257
J010 A PROGRAM OF CENTER RESEARCH, \$176,600

HAWAII

C355 INFANT PSYCHOPHYSIOLOGICAL SYSTEMS, \$56,172

CHILE

A200 FURTHER INVESTIGATION ON INFANT MALNUTRITION \$33,815

GREECE

A100 CHROMOSOMAL ABNORMALITIES AND LOCALIZATION OF GENES, \$17,850

JERUSALEM

A290 METABOLISM OF THE SPHINGOLIPIDS AND C24 FATTY ACIDS, \$30,666

MEXICO

A335 NUTRITION AND DEVELOPMENT OF CHILDREN IN RURAL AREAS, \$23,076

NETHERLANDS

C600 SURFACE AREA AND PATTERNS OF CORTICAL NEURONS, \$7,000

PUERTO RICO

C260 RESPONSIBLE FOR NEURO AND SENSORY DISORDERS, \$50,000

SWITZERLAND

A220 GENETIC STUDIES OF TAPETO-RETINAL DEGENERATIONS, \$6,250