Quantitative Study Of Genetics Gets NIGMS Support

One of the most comprehensive efforts in the application of mathematical genetics to the study of inheritance of quantitative characteristics will receive grant support from the National Institute of General Medical Sciences.

The Quantitative Genetics Research Program-Project is underway at North Carolina State of the University of North Carolina at Raleigh, under the direction of Dr. C. Clark Cockerham, Professor of Genetics and Experimental Statistics at North Carolina State.

Dr. Cockerham joined the staff of North Carolina State in 1952. Previously he had been working in Animal Science at Iowa State University while obtaining his Ph.D. in Animal Breeding and Genetics, awarded in 1952.

In addition to his own segment of the research program, Dr. Cockerham will coordinate the investigations of 15 senior researchers who are participating in the Program-Project.

Participants in the White House Conference on Mental Retardation at Airlie House leave the circle pavilion where the general sessions were held.

In a message relayed by telephone to the 375 persons attending the recent White House Conference on Mental Retardation, President Kennedy said:

"We want to assure the probability that every American child born will be well born—born of a mother who has had good health care, born with increased chances of avoiding the hazards of infancy and childhood that sometimes result in lifelong mental retardation."

The President's message was heard by 235 delegates representing all 50 States and U.S. Territories at the 2-day conference, September 19-20, at Airlie House in Warrenton, Va.

Mme. Albe-Fessard on First U.S. Visit Conducts 4 Seminars Here in 5 Days

A French scientist who was finally able to accept a long-standing invitation from Dr. Wade Marshall, Chief of the Laboratory of Neurophysiology, NIMH and NINDS, put in five bustling days here, September 28-27, before continuing on to New York, Boston, and Canada.

Madame Denise Albe-Fessard, Professor of Psychophysiology at the University of Paris, conducted four well-attended seminars for NIMH and NINDS, relating to her experiments in central somatic mechanisms in cats and monkeys.

She also consulted with scientists at Walter Reed Army Institute of Research before taking a 2-day holiday break in her first visit to America.

Prof. Albe-Fessard brought with her a butane-cooled probe developed at her laboratory, where several recent White House Conference on Mental Retardation at Airlie House leave the circle pavilion where the general sessions were held.

Dr. Nirenberg Is Misquoted

The story on Dr. Marshall Nirenberg's winning of the American Chemical Society's Paul-Lewis Award (NIH Record, September 24, 1963) carried statements attributed to him. The statements, as reported to and published by the Record, were in error. The NIH Record regrets the error.

UGF Rally Heats Speakers Launch Campaign Here

Dr. James M. Hundley, Assistant Surgeon General of the Public Health Service, helped open the United Givers Fund campaign at the National Institutes of Health Friday, September 27, telling assembled keymen the "causes supported by UGF are essential and worthy of your best efforts in their behalf."

"Most of the agencies helped by the Drive are welfare agencies," he said. "The community will look upon our performance in this campaign as a measure of our belief in the cause of good health. In the Greater Washington area, PHS has 62 percent of the total personnel in Department, and NIH has 66 percent of the total PHS personnel. You can see where the burden of proof must be."

"A task worthy doing is worth doing well. I'm certain NIH will do its part. It always does, but it takes considerable time. Perhaps this year we can reduce the time-lag and simultaneously the burden.

Prof. Denise Albe-Fessard during her visit here, holds the butane-cooled probe developed in her laboratory at the University of Paris, now used by Dr. Wade Marshall in experiments on localized cooling of the visual system in cats.—Photo by Bob Pumphrey.
**NEWs from PERSONNEL**

'OPEN SEASON' REMINDER

There are only seven days remaining in which to take advantage of the "Open Season" under the Federal Employees Health Benefits Program.

Employees who are eligible and plan to enroll or make changes in enrollment must act before October 15.

Names of Institute/Division Registration Assistants are posted on NIH Bulletin Boards and are also available in I/D Personnel Offices.

Sign up today or before October 15th!

EXAM FOR MEDICAL OFFICERS

A new Civil Service Commission examination announcement (No. 312B) for Medical Officers was issued on September 10.

The examination will be administered by the Board of Examiners of the Food and Drug Administration.

Further information is available from I/D Personnel Officers.

NIAID 'Common Cold' Study Needs Additional Volunteers

The Laboratory of Infectious Diseases, NIAID, is seeking paid volunteers with autumn colds for the continuation of its study of the "common cold" group of infections.

Volunteers desiring to take part in the study—preferably those whose colds are within the first three days of infection—may obtain additional information by calling Mrs. Hilda Kennedy, Ext. 65811.

**Flu Season Approaching: Vaccinations Urged for High-Risk Groups Now**

Although the winter season of 1963-64 is not expected to produce widespread outbreaks of influenza similar to those of last year, the Public Health Service recently warned that certain "high risk" groups of the population should get vaccinated promptly.

Influenza is particularly dangerous to persons suffering from chronic ailments such as cardiovascular, pulmonary, renal, and metabolic disorders, and to pregnant women.

Persons over 45, particularly those over 65, should also be immunized.

"Long experience proves that those groups run the greatest risk of severe illness or death if they contract influenza," Dr. Luther I. Terry, Surgeon General of the Public Health Service, said.

**Time Element Important**

Immunization should begin right away and be completed by mid-December, according to Dr. Terry. There is a 2-week delay in the development of antibodies which give the protection, so it is important that the individual be vaccinated well before exposure to the virus.

The Surgeon General said the flu vaccine for this coming winter has been modified to give greater protection against the changing strains of both A2 (Asian) and B strains.

There were widespread outbreaks of influenza A2 last winter, with the exception of the West Coast, and there was a nationwide epidemic of influenza B in 1961-62.

Because the two types commonly occur in several-year cycles, health authorities do not anticipate large scale attacks this winter.

**EHS Schedules Flu Shots Starting Week of Oct. 14**

The NIH Employee Health Service announced today that influenza immunizations will again be available this year to all employees.

Employees immunized in 1963 need only one booster inoculation. Others will require two inoculations, approximately two months apart.

The vaccine, the announcement said, contains two new virus strains to afford broader protection throughout the coming year.

Details on scheduling will be sent to each employee. The program will begin in the Clinical Center Health Unit during the week of October 14, to be followed by clinics in selected outlying office buildings. The schedules for these areas will also be included in the memo to employees.

An innovation of considerable interest this year will be the use of the Jet Injector which eliminates the use of needles. The inoculation is virtually painless and at least six times faster than with the use of the syringe and needle.

**Dr. Dale Lindsay, Former DRG Chief, Receives Meritorious Service Award**

Dr. Dale R. Lindsay, former Chief of the Division of Research Grants, received the Meritorious Service Award September 20 at an informal ceremony in the office of Dr. James A. Shannon, Director of NIH.

The award, presented by Dr. Shannon in the presence of his immediate staff, was in acknowledgment of Dr. Lindsay's "outstanding leadership and direction" of the Division of Research Grants. Dr. Lindsay did not know he was to receive the award prior to the ceremony.

Dr. Lindsay retired from the PHS Commissioned Corps last July to accept a position at the Massachusetts General Hospital in Boston.

J oins DRG in 1953

He joined DRG in 1953 and was successively Chief of the Program Analysis Section, Scientific Director, Assistant Chief, and, since 1960, Division Chief.

"Highlights of his tenure as DRG Chief include the launching of the annual Research Grants Index, establishment of the Grants Associates Program, chairmanship of the Interbureau Advisory Committee for Extramural Programs, and production of the Manual to Facilitate Administration of Research and Training Grants."

**DRG Names McCarthy Study Section Secretary**

Dr. Thomas McCarthy was recently appointed Executive Secretary of the Health Services Research Study Section of the Division of Research Grants.

"The study section, one of 46 scientific panels advising the Public Health Service on the merits of research grant applications, has been served since 1960 by Glenn G. Lamsom, Jr., who has left the post to undertake a year of training at the University of Pittsburgh."

**Area Orchestra Seeks Students, Adults With Musical Talent**

The Kensington-Wheaton Community Symphony Orchestra is now accepting applications from talented musical students of area secondary schools and colleges. Adults with musical ability are also encouraged to apply.

Prospective members will be selected by an auditioning committee.

Applications and inquiries should be addressed to the Musical Director of the orchestra, 22055 Connecticut Ave., Wheaton, Md.

**Vaccinations Urged for High-Risk Groups Now**

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make proposed legislative weapons effective.

Anthony J. Celebreze, Secretary of Health, Education, and Welfare, in his welcoming remarks at the opening session, warned that unless this Nation soon makes some major breakthroughs leading to effective prevention of mental retardation, the number of retarded will climb from the present figure of more than 5.4 million to over 6 million by 1970. At least half of those affected, he said, would be children.

Dr. Warren Cites Aims

Mr. Celebreze said he had high hopes that the President's mental retardation program will soon become a reality.

Dr. Stafford L. Warren, Special Assistant to the President on Mental Retardation, said that the main target of the conference was to prevent some 65,000 Americans each year from joining the ranks of the mentally retarded.

This number, about one-half of those developing mental retardation symptoms annually, can be helped, he said.

Speaking of those who develop retardation despite preventive efforts, he said, "We want them to be able to lead lives as normal as the full development of their capabilities will allow."

Dr. Aldrich Discusses Approach

Dr. Robert A. Aldrich, Director of the National Institute of Child Health and Human Development, spoke on approach to the problem of mental retardation through training and research. He said two major goals of the conference were (1) to provide for the needs and capabilities of the mentally retarded, and (2) to build the means of preventing mental retardation into both State and Federal programs.

Dr. Aldrich said, "It is my persuasion that a comprehensive plan for combatting mental retardation should have its base on a statewide program utilizing fully (all) the services, administrative mechanisms, and research training facilities available."

Urges Planning Cooperation

He also told the conference it was particularly crucial that all resources for research and training, whether of universities, research hospitals or other resources, be involved in mental retardation planning.

"The returns from research and research training," he said, "are our best guarantee that we will eventually have the means to liquidate the problem of mental retardation."

In a conversational huddle between conference sessions at Airlie House are, left to right: Dr. Robert Cooke, Pediatrician-in-Chief, Johns Hopkins Hospital; Mrs. Eunice Kennedy Shriver, Executive Vice President of the Joseph P. Kennedy, Jr., Foundation; David Ray, Legislative Consultant to Dr. Stafford L. Warren; and Dr. Gunnar Dybwad, Executive Director of the National Association for Retarded Children.

Engaged in an informal discussion on the steps of Airlie House, site of the White House Conference on Mental Retardation, are, left to right: Jack Pickering of Hearst Headline Service, Associated Press; Gregory of the Detroit News, Dr. Stafford L. Warren, Special Assistant to the President on Mental Retardation, and Dr. Murdock Head, Airlie Conference Center Director.

RML Develops Purified CTF Vaccine; Method May Apply to Other Vaccines

Scientists at the Rocky Mountain Laboratory of the National Institute of Allergy and Infectious Diseases have reported on the preparation of a vaccine by a method that may be applicable to the preparation of vaccines of related viruses.

Colorado Tick Fever (CTF), a relatively benign disease acquired by tick bite, is a frequent cause of morbidity among people engaged in outdoor activities in certain western areas of the United States during the tick season.

A satisfactory vaccine could be of value to such persons.

A purified CTF vaccine has now been developed by scientists at the Rocky Mountain Laboratory.

Since there is a great danger of inducing allergic encephalomyelitis with vaccines prepared from adult mouse brain, the group succeeded in preparing a purified vaccine that was antigenic and had a greatly reduced capacity to produce allergic encephalomyelitis by using suckling mice.

This procedure can serve as a prototype in developing vaccines against other arthropod-borne viruses of medical importance.

Before testing the efficacy of the vaccine in humans, the immunogenicity of the vaccine was tested in mice, and significant protection was demonstrated in all test animals.

Volunteers Tested

Thirty human volunteers were tested at the Montana State Prison, Deer Lodge, Mont. The basic schedule of vaccination consisted of two doses of either 0.5 or 1.0 ml of undiluted vaccine given subcutaneously a month apart.

Two months following the second vaccination 24 of 26 sera had significant antibody titers, but only eight of 19 sera had significant titers after six months.

Twelve individuals received a third vaccination and all had significant titers one month later.

Intradermal skin tests gave evidence of specific sensitization to the viral antigen and not to brain material.

A report of the development of the vaccine by Dr. Leo A. Thomas, Dr. Carl M. Eklund, Dr. Robert N. Philip, and Mary Casey appeared in the American Journal of Tropical Medicine and Hygiene.
Authorities From 3 Nations Participate In NIAID Seminar on Schistosomiasis

Means of eradicating schistosomiasis, a disease affecting an estimated 150 million people in the tropics and subtropics, was the subject of a recent seminar here in which schistosomiasis authorities from Egypt, Tanganyika and England participated.

The seminar, sponsored by the Laboratory of Parasitic Diseases of the National Institute of Allergy and Infectious Diseases, was moderated by Dr. William B. DeWitt and Dr. Theodor von Brand of LIDP.

The program participants were Dr. Naguib Ayad, Director-General of the Bilharziasis and Enemic Diseases Department of the United Arab Republic Ministry of Health, Cairo, Egypt; Dr. A. F. Sherif, Professor of Parasitology, High Institute of Public Health, Alexandria, Egypt; Dr. S. R. Smithers, of the scientific staff, National Institute of Medical Research, Mill Hill, London; Dr. Peter Jordan, Director, East African Institute for Medical Research, Mwanza, Tanganyika; and G. Webbe, medical biologist, East African Institute for Medical Research.

Problem Is Age-Old

Noting that the disease has been a health problem since antiquity, Dr. Ayad pointed out that schistosoma eggs have been found in mummified viscera and that the disease is mentioned in early Egyptian papyri.

Their government's approach to schistosomiasis eradication, Drs. Ayad and Sherif said, is manifold and diverse. Educational programs, including subtle and subtle presentations, are conducted for all age groups.

In addition to conventional control methods such as the use of molluscicides, sanitation programs, improved irrigation and agricultural practices, they said, the UAR applies moral persuasion on the population.

Currentlly, Dr. DeWitt is collaborating with Dr. Sherif on a project being conducted near Alexandria on the use of the drug Astin for the suppressive control of the disease.

Dr. Jordan stressed the quantitative aspects of the evaluation of treatment rather than definite cure rates.

Mr. Webbe cited the importance of climatic factors in determining a plan of action against the snail population that serve as intermediate hosts, since the snail population is determined by climate. Snails can survive through dry spells for as long as eight months, he said.

Discusses Acquired Resistance

Dr. Smithers discussed his research concerning the possibility of acquired resistance and other forms of immunization. Acquired resistance has been achieved in the laboratory with rats and rhesus monkeys.

Schistosomiasis, also known as bilharziasis, is widespread across tropical Africa, along the Mediterranean coast, in the Nile Valley, in certain areas of China and the Philippines, and in Japan. Its occurrence in the Western Hemisphere is centered mainly in Puerto Rico, Venezuela, and Brazil.

The disease is transmitted to humans through snails that serve as intermediate hosts. The larval forms of the worms are able to penetrate the skins of people who enter contaminated waters, and the disease is then perpetuated by human reservoirs through the passage of eggs in the urine and feces.

Heavy infestation of the schistosoma worms most often causes anemia, weakness, increased susceptibility to other diseases, and may result in death.

NIMH Exhibit on Display In Clinical Center Lobby

A National Institute of Mental Health exhibit, entitled "A Comprehensive Psychiatric Center," was placed on display yesterday (October 7) in the lobby of the Clinical Center.

The exhibit, which will be on view there until October 16, is based on a clinical research project, "Concept of a Model Psychiatric Clinic," published in the September issue of the American Journal of Psychiatry.

Co-authors of both the research project and exhibit are Dr. Fritz A. Freyhan, Director of Clinical Studies, Clinical Neuropharmacology Research Center, NIMH, and Dr. Julia A. Mayo, Chief of Clinical Social Work and Psychosocial Research, Clinical Neuropharmacology Research Center, NIMH.

The purpose of the exhibit is to present a conceptual scheme for comprehensive psychiatric treatment and to demonstrate the organization and function of an actual comprehensive treatment center.

The setting for the study is the William A. White Building at St. Elizabeth's Hospital, Washington, D.C., which functions as a clinical research center and is sponsored jointly by NIMH and St. Elizabeth's Hospital.

A comprehensive treatment center established there is shown in the exhibit.

Prepared by the Medical Arts and Photography Branch of the Division of Research Services, the exhibit already has been shown at the 4-day meeting of the Mental Hospitals Institute, held September 29-26 in Cincinnati, Ohio.

Following its 10-day showing in the Clinical Center, the exhibit will be displayed at the divisional meeting of the American Psychiatric Association, November 8-9, at the New York Hilton Hotel, New York City.

Joseph A. Staton Joins PMB as Exec. Sec't. of NIH Grants Associates

John M. Sangster, Chairman of the Personnel Management Branch, OAM, has announced the appointment of Joseph A. Staton to the PMB staff, effective October 1.

Mr. Staton, who has been Deputy Chief of the Clinical and Professional Education Branch of the Clinical Center, will serve as Executive Secretary of the NIH Grants Associates Program. He replaces Dr. Dwight C. Monier, recently appointed Assistant Chief for Training of the Career Development Review Branch, Division of Research Grants.

As time permits, Mr. Staton will later assist the PMB in the accomplishment of other professional objectives.

Experience Cited

Mr. Staton joined the PHS Commissioned Corps in 1953 and was assigned to the United States Operations Mission to Lebanon as a Public Health Education Consultant.

While in Lebanon, Mr. Staton also served on the faculty of the American University at Beirut as a lecturer on public health education. In this capacity he introduced to student nurses and sanitarians the concept of group dynamics as applied in the solving of public health problems.

On completion of the Lebanon assignment, Mr. Staton joined the Clinical and Professional Education Branch as Assistant to the Chief in 1955. He was made Deputy Chief in 1959.

Has M.P.H. Degree

A native of Greenville, N.C., Mr. Staton received the B.A. and B.S. degrees from East Carolina College in Greenville. Following duty as a Marine Corps Officer during World War II, he obtained the M.P.H. degree from the University of North Carolina in Greensboro.

From 1947 to 1949 Mr. Staton was Director of Health Education for the North Carolina Tuberculosis Association. He also served as Director of Health Education for the Denver Tuberculosis Society, Denver, Colo., from 1949 to 1955.

A sure sign you’re getting older is when the kids come home from school and tell you about their history lesson and you realize that when you went to school the same items were called “current events.”

—The Washington Post,
UGF RALLY
(Continued from Page 1)

Arnold Urges Research
For Disease Prevention
In Science of Dentistry

The dental profession has a responsibility not only to care for teeth that have been affected by disease but to advance the knowledge that will treat and prevent such disease," Dr. Francis A. Arnold, Jr., Director of the National Institute of Dental Research, said in accepting the 1968 Callahan Award presented by the Ohio State Dental Association in Cleveland.

The award is the highest honor granted by the Association. It is presented at the Association’s annual meeting to “a person who has made a contribution of exceptional value to dental science.”

Space Age Relationship

Speaking to the Ohio dentists on the theme of this year’s meetings—The Space Age and Dentistry—Dr. Arnold said, “You are thinking not only of the speed of the space age but of its implications for behavior, relationships, activities and professional direction in today's world. The applications of space disciplines to medicine and dentistry are part of this picture.”

Dr. Arnold told his audience that dentistry is part of the total health research effort, seeking answers to the causes and prevention of disease and the answers to the fundamental factors in the life processes themselves.

Alluding to trends in dental research he said, “The dental research scientist takes his place in the total stream of biomedical research, working in the same fields and toward the same ends as his colleagues in any of the research canvassing on a personal basis and to skip no one.”

Dr. Eugene Confrey, Acting Chief of DRG and NIH Campaign Vice Chairman, served as master of ceremonies.

Qualitative Disturbances in Patterns of Sleep Seen as Suicide Prediction Aid

By Bonnie Gregory

Qualitative disturbances in sleep patterns may be used in predicting suicide, according to a theory advanced by Dr. Edwin S. Shneidman of the Suicide Prevention Center, Los Angeles, Calif., at the 17th International Congress of Psychology.

Sleep, said Dr. Shneidman, may represent a temporary cessation of the conscious being, a chance to escape the strain and stress of everyday living. When a severely troubled person cannot achieve this temporary escape, he may react by taking his own life.

Observations at the Suicide Prevention Center indicate that a person contemplating suicide very often does not intentionally wish to die, nor does he usually run out and jump off the nearest bridge when it offers his only way home. He may, however, go home and brood about his problems.

The emotionally healthy individual can find relief from the crises of life in sound and peaceful sleep. When sleep does not come, Dr. Shneidman theorized, another crisis occurs which can cause a troubled person to seek the "only way out," suicide.

Dr. Shneidman believes, may be caused, not by forgetting the line but rather by a second or in-between crisis (called a "meta-crisis"), the fear of appearing foolish before a large number of people.

Dr. Shneidman places insomnia in the category of a second crisis, in between the original critical situation and the ultimate reaction to it. In the suicidal person, these in-between crises—insomnia, psychosomatic disease and so on—tend to accumulate and set up the original crisis, setting up a vicious cycle. The individual cannot help reacting, often by suicide.

Sleep Form Devised

Because of the many similarities between sleep and death, the Suicide Prevention Center has developed a Sleep Form to record the number of hours of sleep, quality of sleep, feeling upon awakening and retiring, etc., in an attempt to relate an individual's sleep behaviors to daily fluctuations in his behavior regarding suicide.

Dr. Shneidman expressed the hope that sleep studies would result in some valid research findings.

"If definite correlations can be drawn between sleep habits and suicide patterns," he said, "we will be more successful in dealing with suicidal patients in a truly scientific manner."

The Suicide Prevention Center is supported in part by grants from the National Institute of Mental Health, administered through the University of Southern California School of Medicine.
ALBE-FESSARD
(Continued from Page 1)

eral NIH scientists have worked and where three Americans are currently working under NIH fellowship grants. Dr. Marshall is now using the probe in his experiments on localized cooling of the visual system in cats.

The comely scientist, who combines family and marriage names to avoid confusion when she and her husband publish, is the wife of Alfred Fessard, Professor of Neurophysiology at College de France and a member of the French Academy.

Dr. Karl Frank, Acting Associate Director, Intramural Research, NINDB, worked for one year in the laboratory of the Institute of Maret, of which Prof. Alfred Fessard is director.

Reports on Other Work

While here, Madame Albe-Fessard reported some success in work done jointly with Dr. Girard Guiot, neurologist at Foch Hospital, Paris. The pair have been employing electrophysiological means to pinpoint disturbed areas of the brain in amelioration of Parkinson's Disease.

After seeing the sights of New York, Madame Albe-Fessard will spend 10 days working with Dr. Walter Rosenblith at the Massachusetts Institute of Technology. She had earlier air-freighted to him cats in which electric neurological probes had been implanted. Then she will go on to Montreal for a French exposition of scientific work, before flying home on October 18.

One of Prof. Albe-Fessard's chief interests is charting possible nerve impulse pathways from the skin to the brain, other than those already known. While here, she learned that a 2-year grant from NIH for pursuing this work had been approved.

Dr. May Is Ass't Editor
And Alumni President

Dr. Everette L. May, Chief of the Section on Medicinal Chemistry of the Laboratory of Chemistry, National Institute of Arthritis and Metabolic Diseases, was recently appointed Assistant Editor of the Journal of Medicinal Chemistry, a publication of the American Chemical Society, and elected President of the Alumni Association of Bridgewater College, Va.

In 1959 Dr. May was given the Alumni Association's Gold Award for his association in recognition of outstanding vocational achievement and devotion to college activities.

Dr. May is well known for his part in developing phenoxazine, an anti-septic more powerful than morphine but less addictive.

Study Indicates Sons Influenced More by Early Maternal-Child Behavior Patterns

Sons are more likely to be influenced in the long run by the way their mothers behaved toward them in early years than are daughters, according to National Institute of Mental Health psychologists.

Investigators have pinpointed four maternal traits significant in predicting a child's development. The far-reaching influence of the mother in the child's first three years has been measured and shown to predict aspects of his development, according to two psychologists of the National Institute of Mental Health and the Fels Research Institute, Yellow Springs, Ohio.

Their report was based on recent analyses of data from a long-term study of 36 boys and 36 girls from infancy to adulthood at the Fels Institute.

Maternal Behavior Found Significant in Predicting Children's Development

Investigators have pinpointed four maternal traits significant in predicting a child's development. The far-reaching influence of the mother in the child's first three years has been measured and shown to predict aspects of his development, according to two psychologists of the National Institute of Mental Health and the Fels Research Institute, Yellow Springs, Ohio.

Their report was based on recent analyses of data from a long-term study of 36 boys and 36 girls from infancy to adulthood at the Fels Institute.

Study Covers 2 Decades

Children and mothers were intensively observed, tested, and interviewed over a period of 30 years. The researchers selected four maternal traits for study with the following results:

(1) Proteviveness—The protective, affectionate mother, one who is interested in making a special effort to help her child, produced boys who excel in intellectual activity.

(2) Restrictiveness—A restrictive mother who insists on rigid standards and rules turns out independent, self-reliant sons, possibly in rebellion against the mother's intolerance.

(3) Hostility—The caring, critical mother strives achievement in her sons. Curiously, daughters of these mothers reacted differently and, in contrast to the boys, became independent, intellectually, and more impulsive.

(4) Acceleration—The mother who demands accelerated achievement from her child surprisingly enough often gets what she wants. Both her boys and girls show a high level of achievement and success as adults.

The mother's behavior is the foremost influence on personality and possibly on intelligence as well, the report said.

This influence is so inseparable that while it may not appear in the child for some time, it can be traced back to infancy to adulthood at the Fels Institute.

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Science Group Conducts
Book Fair October 7-18

The Foundation for Advanced Education in the Sciences, Inc., sponsoring organization of the NIH Graduate Program, yesterday opened its first annual Book Fair in Room B1B83 in Building 31.

Publishers have been invited to display publications and books, published since January 1 of this year, of interest to scientists in the broad fields of chemistry, biology, psychology, mathematics, physics, and subjects related to the basic and clinical sciences.

Additionally, they will have on display current titles of their selections in the aforementioned scientific fields.

The 2-week fair is open to all. Interested parties are invited to visit and browse Monday through Friday from 10 a.m. to 4 p.m., up through October 18.

and Dr. Jerome Kagan, Chairman, Department of Psychology, Fels Research Institute, presented their paper at a symposium at the American Psychological Association's annual meeting.
Drs. Isbell, Wikler and Fraser to Retire Soon From Addiction Center

Three key scientists of the National Institute of Mental Health Addiction Research Center, Lexington, Ky., are retiring from the Public Health Service this fall. Their combined PHS service totals 84 years.

They are Dr. Harris Isbell, until recently Director of the Center, with 28 years in the Service; Dr. Abraham Wikler, Associate Director, 25 years; and Dr. Havelock Frank Fraser, Associate Director, 31 years.

Dr. William R. Martin, 42, a pharmacologist, has been Chief of the Addiction Research Center since July, when he succeeded Dr. Isbell. A native of Aberdeen, S. Dak., he received his M.D. and M.S. in Pharmacology in 1932 from the University of Illinois College of Medicine. He joined the Public Health Service and the Center staff in 1937.

Dr. Isbell, 53, the Nation's leading authority on the addicting properties of drugs and the nature of addiction, was born and reared in Aberdeen. He graduated from the Tulane University Medical School in New Orleans in 1941; joined the Public Health Service the next year, and nine years later became Director of the Addiction Research Center.

Dr. Wikler, 55, was born in New York City and received his M.D. from the Long Island College of Medicine in 1935. He joined the Public Health Service in 1938, was assigned to the Addiction Research Center as an experimental psychiatrist in 1942, and became head of its Section on Experimental Neuropsychiatry in 1952.

He is known for his demonstration that addiction to morphine is associated with a definite physiological change in all portions of the nervous system. Upon retirement he will become a professor in the Department of Psychiatry at the University of Kentucky Medical Center.

Dr. Fraser, 59, a pharmacologist, is a native of Saskatchewan, Canada. After receiving his degree from Cornell University in 1932, he entered the Public Health Service. He has been with the Addiction Research Center since 1949.

He received the Meritorious Service Award from Dr. Felix in 1962 for “his world reputation as a scientist in the field of clinical pharmacology,” and for his research in controlling drug and alcohol addiction.

After his retirement November 1, Dr. Fraser will join Eli Lilly Research Laboratories in Cincinnati, Ohio, as a consultant.

Two Fire Prevention Films Added to Oct. 11 Program

The program in observance of Fire Prevention Week, to be held Friday at 8 p.m. in the Clinical Center auditorium, will feature two one-half hour films on fire prevention, in addition to the program announced in the Record of September 24.

Prior to the showing of the films, entitled “Science of Fire” and “Why, Daddy?,” Fire Marshall Kenneth W. Gettings and his staff will present a brief discussion on fire precautions. A question-and-answer period will follow the movies.

Dr. Martin Dr. Fraser

Federal Hospitals Executives To Be Guests of Dr. Terry

Surgeon General Luther L. Terry will host for the luncheon of Federal Hospitals Executives during the annual convention of the Tri-State Hospital Association, next Monday (Oct. 14), in Washington.

Dr. F. Ellis Kelsey, Special Assistant to the Surgeon General for Scientific Communications, will speak on "The Hospital—Matrix of Medical Communications."

This is the first major report by Dr. Kelsey on developing patterns of medical communications in hospitals, and the importance of such communications to improvement of the quality of medical care.

Tickets for the luncheon may be obtained from Miss Margaret Badger at the Clinical Center, Ext. 63227.

PHS Notes World-Wide Rise in Smallpox Cases

The Public Health Service reports that smallpox is increasing in most areas of the world. According to preliminary figures for the first eight months of this year, PHS said, 39 countries have reported 31,839 smallpox cases, compared with 44,876 cases in 16 countries for the same period in 1962.

The largest numbers of cases have been reported in India, 31,184; Pakistan, 4,314; the Republic of the Congo, 4,398; and Indonesia, 3,397.

At present North America and Australia are the only continents free of smallpox.

Persons planning trips abroad should make sure they have been successfully vaccinated at least within the past three years. Travellers into smallpox-infected areas should have been vaccinated within the past six months.

Information on infected areas is available from the Division of Foreign Quarantine, Public Health Service, Washington 25, D.C., and from U.S. Quarantine Stations.

Two Fire Prevention Films Added to Oct. 11 Program

The program in observance of Fire Prevention Week, to be held Friday at 8 p.m. in the Clinical Center auditorium, will feature two one-half hour films on fire prevention, in addition to the program announced in the Record of September 24.

Prior to the showing of the films, entitled “Science of Fire” and “Why, Daddy?”, Fire Marshall Kenneth W. Gettings and his staff will present a brief discussion on fire precautions. A question-and-answer period will follow the movies.

Dr. Martin Dr. Fraser

Dr. J. R. Beem Named Associate Director of National Heart Institute

Dr. John R. Beem, Medical Director of Warner-Lambert Research Institute, has been appointed Associate Director for Program Planning and Scientific Information of the National Heart Institute, Dr. Ralph E. Knutti, Director, announced yesterday.

Dr. Beem will be responsible for coordinating scientific and technical communication and compiling the planning, development and analysis of a wide range of programs.

A native of Grelley, Colo., Dr. Beem received his B.S. degree from Northwestern University in 1941 and his M.D. degree from the Medical College of Virginia in 1946.

Dr. Beem served as intern and resident at the St. Louis City Hospitals from 1946 to 1950. He was a Fellow in Medicine at the Washington University School of Medicine in St. Louis from 1950 to 1951. From 1951 to 1955 he was a Research Fellow in Medicine and Cardiology at the same institution.

He has served as Assistant Director for Clinical Investigation at the Merck, Sharp & Dohme Research Laboratories from 1953 to 1959. He joined Warner-Lambert Research Institute, Morris Plains, N. J., in 1959 as Director of Clinical Research.

Research Contributions Noted

Dr. Beem has been Medical Director at Warner-Lambert since 1960. Since 1958 he also served on the faculty of the University of Pennsylvania School of Medicine.

He is the author of many scientific papers, especially in the field of hypertension and cardiovascular dynamics, and has been a consultant in cardiology to a number of hospitals and medical institutions.

Dr. Beem is a member of the American Heart Association's research councils on arteriosclerosis, circulation, clinical cardiology, and high blood pressure.

Other Memberships

He is also associated with a number of other health and professional organizations, including the Aerospace Medical Association, American College of Cardiology, American College of Physicians, American College of Clinical Pharmacologists, American Geriatrics Society, and American Medical Writers' Association.
program-Project. They are affiliated with the Genetics, Experimental Statistics, Forestry, and Animal Science departments.

In announcing the award of $293,544 for the first year of a 7-year project, Dr. Luther L. Terry, Surgeon General of the Public Health Service, noted that the facility conducting this research is already internationally known for its program in quantitative genetics.

Study Is Broad

Broadly based, the work ranges from theoretical studies on mathematical models descriptive of the nature of the action of genes to the exploration of these models in a wide range of experimental studies.

Dr. Cockerham believes that present-day mathematical genetics research offers the best basis available for understanding the inheritance of complex characters, for predicting the characteristics of future generations, and for attempting to modify new generations.

The Program-Project will be concerned with three major areas of scientific inquiry: (1) genetic and environmental effects; (2) population dynamics; and (3) experimental evolution.

Systems Are Varied

The systems being studied in the experimental phase of the program are varied—both (first-crosstailed and self-crosstailed), mice, fruit flies and wasps. Each of these systems has been included because of characteristics of special value for genetic exploration.

The study material has been selected for its usefulness to the comprehension of all life processes. The program will emphasize theoretical and experimental aspects of the problems in plant and animal development in both natural and experimental populations.

Specific measures of fitness in animals—fecundity, fertility, and survival at various stages—will add basic knowledge of these factors in the animals chosen for study.

Co-Director Named

In addition to the Program Director, the Program-Project has as its co-director Dr. H. F. Robin- son, Director of the Institute of Biological Sciences, who has been on the staff of North Carolina State since 1945.

Dr. Robinson is also Professor of Genetics, and Assistant Director of Research of the Agricultural Experiment Station. He holds a Ph.D. in Plant Breeding from the University of Nebraska.

Dr. Robert Felix, NIMH, Wins Psychiatry Award

Dr. Robert H. Felix, Director of the National Institute of Mental Health, has received the annual Nolan D. C. Lewis Award for "outstanding contributions to psychiatry."

The award was presented to Dr. Felix last month by the New Jersey Psychiatric Institute in Princeton, one of the State's leading research and treatment facilities.

The award was established six years ago by the Chairs of the Institute to honor its retiring research director, Dr. Nolan D. C. Lewis, famous analyst, teacher, and researcher in psychiatric diagnosis.

Dr. Arnold M. Kallen, President of the New Jersey Psychiatric Association, presented the award at the 11th Annual Institute Day.

In announcing the award of $293,544 for the first year of a 7-year project, Dr. Luther L. Terry, Surgeon General of the Public Health Service, noted that the facility conducting this research is already internationally known for its program in quantitative genetics.

In ceremonies at the Pentagon, Capt. Boris J. Osheroff (left) receives from Maj. Gen. Marshall Stubbins, Director of Chemical, Biological, and Radiological Operations, a Certificate of Appreciation for Petticoat Civilian Service from the Department of the Army. The award was for his performance as PHS Liaison Officer to the U.S. Army Materiel Command Biological and Chemical Research and Development Laboratories, 1960-63, while he was attached to NIAID.

Studies Reinforce Prior Conclusion That CI-501 Aids in Malaria Control

In separate investigations two teams of scientists have reported results which reinforce previous conclusions that a new drug, CI-501, may help control malaria, the world's most prevalent disease.

Also known as chloroquine trisulfate, CI-501 is a combination of two drugs: chloroquin and diethylaminoethanol acetic acid. The new compound is highly resistant to malaria, but can be used in treatment and prophylaxis.

In studies conducted by scientists from the National Institute of Allergy and Infectious Diseases at the Federal Penitentiary at Atlanta, Ga., CI-501 protected 24 percent of the volunteers exposed to tertian malaria for periods ranging from 169 to 426 days.

Four other infected control volunteers were treated therapeutically with the drug. Within 24 hours the parasite counts decreased by 80 percent, blood smears were negative for all four within 72 hours, and none relapsed during the observation periods of 181 to 246 days.

Exerts Long-Term Protection

These results indicate that "CI-501 has the capacity to exert long-term protection and is therapeutically effective against human vivax malaria."

The Christ Hospital research was supported in part by a grant from the National Institute of Allergy and Infectious Diseases and was conducted by L. L. Schmidt, Richard N. Rossan, and Kathleen Fisher.

The NIH research was reported by Dr. G. Robert Costney, Dr. Peter G. Contacos, Dr. Joseph S. Lunn, and John W. Kilpatrick, of the Laskinon and Intestinal Chemotherapy Program, NIAID, and Dr. Harvey A. Elder, formerly with NIAID, now with Boston City Hospital.

The papers were published in the American Journal of Tropical Medicine and Hygiene.