

NIH



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PUBLIC HEALTH SERVICE NATIONAL INSTITUTES OF HEALTH

PHS GRANTS, AWARDS TOTAL \$146 MILLION

A total of 10,096 PHS grants and fellowships amounting to nearly \$146 million dollars were awarded through NIH to non-Federal institutions and scientists in fiscal year 1957.

The majority of grants were awarded to universities and other institutions to support research projects in health, medicine, and allied fields. Research fellowships were awarded to predoctoral and postdoctoral candidates for additional training necessary for research careers.

Construction grants helped to build and equip facilities for health research. Training grants assisted in developing better specialized medical and research instruction in universities and other institutions.

These grants and awards were made only after thorough evaluations by panels comprised largely of non-Federal scientists and health leaders. Most were awarded to scientists in universities. It is estimated that during calendar year 1957, approximately 40 percent of the Nation's medical research was conducted or supported by NIH.

Dr. W. O. Baker To Give NIH Lecture January 22

Dr. W. O. Baker, well-known physical chemist and vice president in charge of research at the Bell Telephone Laboratories, will present the second in a series of three public lectures sponsored annually by NIH. He will speak on January 22 at 8:15 p.m. in the CC Auditorium.

The title of Dr. Baker's lecture will be "The Relation of Physical Science to Life Science: Communication Theory." He will discuss the

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AAAS Rosenthal Award Presented To Dr. Hertz



Dr. Roy Hertz

Dr. Roy Hertz, Chief of the NCI Endocrinology Branch, has been named the 1957 winner of the \$1,000 AAAS-Anne Frankel Rosenthal Memorial Award for Cancer Research. The award, administered by the American Association for the Advancement of Science, is presented annually "for outstanding research by a scientist in the U. S."

Dr. Hertz is the second NCI scientist to receive the coveted award. Dr. Lloyd W. Law, Head of the Leukemia Studies Section of NCI's Laboratory of Biology, received the first award in 1955 for his studies in leukemia.

The award to Dr. Hertz was given in recognition of his studies on vitamin-hormone interrelations in the control of the growth of the uterus. In collaboration with Dr. William W. Tullner, he developed a non-hormonal substance called Ampheneone, which inhibits the hormonal output of the adrenal gland, as well as adrenal cancers.

More recently Dr. Hertz, with Dr. M. C. Li and Dr. D. M. Bergenstal, developed the use of folic acid

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SCIENTISTS NAMED TO POLIO HALL OF FAME

Two NIH scientists are among 15 scientists and two laymen selected by the National Foundation for Infantile Paralysis for inclusion in the newly created Hall of Fame at Warm Springs, Ga.

Dr. Charles Armstrong, Medical Director, PHS, retired, and former Chief of the NIH Division of Infectious Diseases, and Dr. Joseph L. Melnick, Chief of the DBS Laboratory of Viral Products, were honored for their contributions to knowledge of infantile paralysis. Bronze busts of those named to the Hall of Fame were unveiled at a recent ceremony, which marked the 20th anniversary of the founding of the March of Dimes campaign.

Others honored included Dr. Jonas E. Salk, who developed the first polio vaccine, and the late President Franklin D. Roosevelt, founder of the NFIP.

Dr. Armstrong, who retired in 1950, has continued his work at NIH on a volunteer basis. Among his many major contributions to medical research was his successful adaptation of the Lansing strain of human polio virus to rodents. This adaptation, which provided fresh impetus for poliomyelitis research, made possible the use of mice in experiments that previously required monkeys.

Dr. Melnick, who recently joined the staff of DBS, has contributed to the knowledge of poliomyelitis and allied diseases by devising and applying new methods to virus research, and by improving tissue culture methods of growing viruses. He has also done much toward elucidating the properties and relationships of many viruses that have been confused with polio virus.

PHS GRANTS PROGRAM AIDED BY STUDY SECTIONS



The morphology and genetics study section convenes here to review grant applications.

Twenty-seven study sections, composed of specialists in various fields of research, are meeting between January 3 and 25 to review applications for research grants.

Each of the study sections is composed of from 10 to 20 recognized leaders in medical research and public health fields. Members are chiefly non-Federal scientists nominated by the Chief, DRG, subject to the NIH Director's approval and appointment.

Last year approximately 10,000 grant applications were submitted to PHS. It is the study sections' responsibility to decide which proposals are most likely to make significant contributions to their area of medical, biological, or behavioral science.

Each application is evaluated by one or more members of a study section who are expert in the subject of the proposed research. It may also be referred to a scientist not a member of the section, who is familiar with specialized aspects of the proposal. Study section members may make a "site visit" to clarify or evaluate the promise of the research under consideration.

The proposal is then introduced and discussed at the next meeting of the section. All applications are then submitted to one of nine National Advisory Councils for policy review. The Council submits recommendations to the Surgeon General, who makes awards only on the advice of the Council.

Study sections also survey the status of research and may recommend to appropriate Institutes that research be initiated or expanded in certain fields. The section may undertake to stimulate interest by sponsoring symposia, seminars, and conferences.

Study section meetings are held three times a year, usually at NIH. Thirteen sections have already held meetings here this month. The following meetings will be held from January 15-25.

Jan. 15-19, Biophysics and Biophysical Chemistry, Conf. Rm. A, Stone House; Jan. 16-19, Mental Health, Conf. Rm. C, Stone House; Jan. 16-18, Cancer Chemotherapy, Rm. 10N-320, Bg. 10; Jan. 16-18, Metabolism and Nutrition, Rm. 114, Bg. 1; Jan. 17-19, Pharmacology and Experimental Therapeutics, Rm. 1S-213, Bg. 10; Jan. 17-18, Biochemistry, Conf. Rm. B, Stone House; Jan. 19-20, Sensory Diseases, Rm. 114, Bg. 1; Jan. 20-21, Public Health Research, Conf. Rm. A, Stone House; Jan. 24-25, Physiology, Conf. Rm. A, Stone House.

NIH RECORD

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Publication Preview

The following manuscripts were received by the SRB Editorial Section between October 10 and October 31.

CC

Masur, J. Responsibilities of the hospital administrator.

DRG

Nadel, E. M.; Young, B. G.; and Hilgar, A. C. Urinary corticosteroids in Hartley, strain 2 and strain 13 guinea pigs.

DBS

Eddy, B. E.; Stewart, S. E.; Young, R.; and Mider, G. B. Neoplasms in hamsters induced by mouse tumor agent passed in tissue cultures.

NCI

Andervont, H. B. Induction of hepatomas in strain C3H mice with 4-*o*-tolylazo-*o*-toluidine and carbon tetrachloride.

Banfield, W. G. The effect of growth hormone on the acetic acid-extractible collagen of hamster skin.

Endicott, K. M. The National Cancer Chemotherapy program.

Hueper, W. C. Experimental Studies in metal carcinogenesis. IX. Pulmonary lesions in guinea pigs and rats exposed to prolonged inhalation of powdered metallic nickel.

Landy, M.; Skarnes, R. C.; Rosen, F. S.; Trapani, R. J.; and Shear, M. J. Inactivation of biologically active polysaccharides by fresh human serum.

Lotz, M. The effect of adrenal steroids and sterile filtrates of bacteria on chemotaxis of polymorphonuclear leukocytes in vitro.

Schick, M.; Landau, B.; and Tschudy, D. P. The effect of hexose analogues of the growth of *E. Coli*.

Smith, F.; Ruth, H. J.; and Grenon, M. M. Antibody production in mice exposed intermittently to a radium gamma rays.

Steinfeld, J. L.; Green, F. E.; Tabern, D. L.; Paton, R. R.; and Flick, A. L. Degradation of iodinated human serum albumin prepared by various procedures.

Vogler, W. R.; Perdue, G. D.; and Wilkins, S. A. Malignant melanoma: a clinical evaluation.

Wollman, S. H.; Reid, J. C.; and Reed, F. E. Non-concentration of thiocyanate-C¹⁴ by the thyroid gland of the mouse.

Braunwald, E.; Sarnoff, S. J.; and Stainsby, W. N. Factors modifying the duration and mean rate of ventricular ejection.

Brodie, B. B.; Bogdanski, D. F.; and Shore, P. A. Biochemical and physiological interpretation of the action of psychotropic drugs.

NHI

Bronk, J. R., and Kiellley, W. W. Evidence for the point of action of 2,4-dinitrophenol on ATPase, ATP-P₃₂ exchange, ATP-ADP³² exchange and phosphorylation.

Gordan, R. S., Jr., and Cherkes, A. Production of unesterified fatty acids from isolated rat adipose tissue incubated in vitro.

Morrow, A. G.; Braunwald, E.; and Sharp, E. H. The clinical features and surgical treatment of congenital aortic stenosis.

Spector, S.; Prockop, D.; Shore, P. A.; and Brodie, B. B. Possible mechanism of antidepressant action of iproniazid.

NIAID

Bozicevich, J.; Bunim, J. J.; Freund, J.; and Ward, S. B. Bentonite flocculation test for rheumatoid arthritis.

Dalmat, H. T. Immunity of rabbits to Shope's fibroma virus.

German, J. L., and Huber, M. Frozen cells as the nuclear source in the L.E. cell phenomenon. Jeffery, G. M. Infectivity to mosquitoes of plasmodium vivax following treatment with cloquene and other antimalarials.

Luoto, L. Rickettsial diseases of animals transmissible to children.

Weinstein, P. P. Some projected uses for the axenic cultivation of helminths.

Wright, W. H. Introduction to the symposium on tropical zoonoses.

NIAMD

Federman, D.; Robbins, J.; and Rall, J. E. Effects of methyl testosterone on thyroid function and thyroxine-binding protein.

Heaney, R. P., and Whedon, G. D. Measurement of the miscible calcium pool and the rate of bone formation in man.

Heaney, R. P., and Whedon, G. D. Impairment of hepatic BSP clearance by two 17-substituted testosterone.

Jakoby, W. B. Aldehyde oxidation. II. Evidence for closely juxtaposed sulfhydryl groups on dehydrogenases.

Labaw, L. W., and Wyckoff, R. W. G. Molecular striae from an indanthrene dye.

Peterson, P. E. The thyroid and adrenal cortical function.

Reid, M. E. Guinea pig nutrition. Scott, E. M., and Hoskins, D. D. Congenital methemoglobinemia in Alaskan Eskimos and Indians.

Sharpless, N. E., and Gregory, D. A. The effects of sample particle size and matrix material on shapes and intensities of infrared spectral bands.

NIDR

Forscher, B. K., and Cecil, H. C. Effect of varidase on acute inflammation.

Jakoby, W. B., and Bhat, J. V. Microbial metabolism of oxalic acid.

Rogosa, M. The characteristics of lactobacillus salivarius var. salivarius and L. salivarius var. salicinius.

NIMH

Bayley, N. Predicting children's intelligence. Blough, D. S. Analysis of a method for obtaining visual thresholds from the pigeon.

Cardon, P. V., Jr. Psychic factors in hypertensive heart disease.

Chapman, K. W. Care and treatment of drug addicts.

Day, J. Psychodynamic effects of both lysergic acid diethylamide and reserpine in the long-term intensive psychoanalytically oriented therapy of a single patient.

Duhl, L. J. Your total health.

Greenberg, H. A., and Adland, M. L. Stress in administrative psychiatry and the use of a consultant.

Hollister, W. G. Antidotes for anxiety. Kramer, M. Comments on agenda item. Subjects for long-term studies of the effects of psychotropic agents.

Kramer, M., and Pollack, E. S. Problems in the interpretation of trends in the population movement of the public mental hospitals.

Ozarin, L. D. A review of mental health in industry.

Staff, Biometrics Branch, NIMH. Patients in mental institutions, 1955. Part III. Private hospitals for the mentally ill and general hospitals with psychiatric facilities.

Yarrow, M. R.; Campbell, J. D.; and Yarrow, L. J. Interpersonal dynamics in racial integration.

NINDB

Brady, R. O.; Spyropoulos, C. S.; and Tasaki, I. Intra-axonal injection of biologically active materials.

Cole, K. S. Membrane excitation of the Hodgkin-Huxley axon. Preliminary corrections.

Frank, K. The identification and analysis of single unit activity in the central nervous system.

Tasaki, I., and Spyropoulos, C. S. Membrane conductance and current-voltage relation in the squid axon under "voltage-clamp."

Tasaki, I., and Spyropoulos, C. S. Evidence for non-uniform response in the squid axon membrane under voltage-clamp.

Tower, D. B. Pyridoxine and cerebral activity.

Van Buren, J. M. A note regarding the radiographic localization of depth electrodes in the human temporal lobe.

NEWS BRIEFS

An annual survey conducted by the Office of Education, HEW, will forecast America's potential supply of scientists and mathematicians. Presently it will determine the number of college juniors now majoring in science and mathematics. The survey will help establish baselines for planning the Nation's expanding educational programs.

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Forty 5-year fellowships have been awarded by PHS to promising young scientists working in basic health research at 34 universities. This is the second year of a five-year Federal program to increase well-trained manpower for research in the basic health sciences.

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The Special Events Office, Rm. 1N-203, Bg. 10, is now a part of the Office of the Director, CC. Formerly a section of the Scientific Reports Branch, DRS, Special Events will continue to arrange special programs and to provide services for NIH visitors.

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Dr. Maurice A. Roe, Medical Director of the Dallas Regional Office, recently retired from PHS. Among Dr. Roe's many contributions to the Service are his establishment in 1938 of the first PHS laboratory for malaria chemotherapy investigation and his achievements in furthering State-Federal relations.

Foster Rowen, DBO, Dies

Foster J. Rowen, detective in the Plant Safety Branch, DBO, died suddenly January 21 after a short illness. A retired Metropolitan policeman, Mr. Rowen had been employed at NIH since May 1955.

Mr. Rowen was well known at NIH for his geniality and friendliness. His wide acquaintance and varied experience made it possible for him to resolve many puzzling cases. On call at all times, he devoted many hours of his own time to his work.

For the past year Mr. Rowen had been working on a master keying system to cover the entire reservation. This program will be carried out in the future.

Mr. Rowen is survived by his wife, Marguerite, and a daughter, Doris, of 9301 Milroy Place, Bethesda.

DR. SESSOMS NAMED NCI ASST. DIRECTOR

Dr. Stuart M. Sessoms, for three years Assistant Director of the CC, recently assumed his new duties as Assistant Director of NCI.

Dr. Sessoms replaces Dr. William S. Baum, who transferred to the Division of Indian Health, PHS, as Assistant Area Medical Officer for Hospital and Medical Care, Phoenix, Ariz.

Before joining the CC staff, Dr. Sessoms was with the NCI Clinical Medicine and Surgery Branch, and later served as Acting Chief of the NCI General Medicine Branch.

He came to NIH in 1953 from the Memorial Center for Cancer and Allied Diseases, where he was assistant resident in medicine.

Dr. Sessoms is a member of the American Medical Association, the Association of Military Surgeons of the U. S., and the American Hospital Association.

LECTURE Contd.

functional similarities between biological structures and complex physical systems such as electronic "brain" devices, and the ways in which knowledge of these contributes to the understanding of the structure of organic matter.

Dr. Baker began his research in physical chemistry at Bell Telephone Laboratories in 1939. He has concentrated on the study of macromolecules, and the basic elements of plastics, fibers, and animal and plant tissues. He was responsible for the discovery of a new kind of synthetic rubber, and has revealed new ways to apply purely synthetic materials to telephone and other communications systems.

More recently, Dr. Baker has been collaborating in the study of the movement of electrons through organic substances. He holds a number of patents on the subject of polymers, including a recent one on a method of increasing the strength of solid powders such as those used in rocket propellants.

Dr. Baker is a member of the President's Science Advisory Committee, the Industrial Research Institute, and the Committee in Industrial Chemistry of the National Research Council.

BLOODMOBILE TO VISIT

The Red Cross Bloodmobile will visit NIH on Thursday, January 23, from 9:30 a.m. to 3:30 p.m. All employees who are physically able are urged to make an appointment to donate blood.

Persons over 18 and under 60 years of age are accepted as donors. Blood donations can be made once every eight weeks but not more than five times a year. Employees are requested to avoid fatty foods for four hours before donating blood, and not to come to the blood center hungry.

The Bloodmobile will be stationed in Wilson Hall, Bg. 1, 3d floor. To make an appointment, return the form circulated for this purpose to the Employee Relations Section, Bg. 1, Rm. 21. For further information, call ext. 707.

NINDB Information Chief Accepts Post As Editor

Edward M. Glick, NINDB Information Officer, resigned January 10 to accept a senior editorial position with F-D-C Reports, Inc., a Washington publishing firm. Mr. Glick will serve as associate editor of Drug Research Reports, one of the firm's major publications.

A former Washington correspondent, Mr. Glick came to NIH in December 1956 from the Office of Vocational Rehabilitation, where he was assistant chief, Division of Publications and Reports. In his new post, he will be primarily concerned with reporting and analyzing Government activities in the drug, medical, and allied research fields.

Ophthalmology Society Holds Meeting At NIH

The 1958 meeting of the eastern section of the Association for Research in Ophthalmology will be held at NIH on January 17 and 18. A symposium on Electrophysiology of the Visual System will begin at 9 a.m. on January 16. Both sessions will be in Wilson Hall.

All those interested are invited to attend both meetings. Registration will be at 8:45 a.m., January 16, in the lobby of Wilson Hall. Those who do not attend the symposium may register at 1:30 p.m. on Friday, January 17.



HAMSTERS

The Hamsters, NIH's amateur drama group, announce the election of the following officers for 1958: Richard Williams, chairman (re-elected); Paul Blank, vice chairman; Alida McBirney, secretary; Marie Johnson, treasurer (re-elected); and Gertrude Quinn, custodian.

A combined business and social meeting is planned for Thursday, January 23, at 8 p.m. in Top Cottage. Policy and production plans for the coming year will be discussed. Employees interested in any phase of dramatics are invited to attend.

Sue Oliver has been selected to direct the one-act play to be entered in the D. C. Recreation Department play tournament in March. Casting for the play will begin this month.

CREDIT UNION MEMBERS TO ELECT JANUARY 15

The annual meeting of the NIH Federal Credit Union is scheduled for Wednesday, January 15, at 1 p.m. in the CC Auditorium. Elections will be held to fill vacancies on the Board of Directors and on Credit Union committees. Committee reports for 1957 will also be presented to the membership.

All Credit Union members are urged to attend. The door prize will be a \$50 Government Bond.

The following slate of candidates has been prepared by the nominating committee.

Board of Directors: Dr. Kenneth W. Chapman, CC; Dr. Max Halperin, DBS; Walter H. Magruder, NCI; and Ruby H. Peters, DBO. Supervisory Committee: Willis D. Wine, DBO.

Credit Committee: Josephine I. O'Connor, CC; Lloyd J. Bankard, DRS; and Thomas H. Keys, CC.

HERTZ Contd.

antagonists in the successful treatment of choriocarcinoma, a highly fatal form of uterine cancer in child-bearing women.

A member of the NCI staff since 1941, Dr. Hertz is a graduate of the Medical School of the University of Wisconsin, where he also received his Ph.D. degree.

SHORTHAND CLASS OPENS

Applications are now being accepted for the second semester of the Shorthand Refresher Classes, to begin on February 15. Classes are held at the following dictation levels: 60-80 words per minute, 80-100 wpm, and 100-120 wpm.

A pre-test will be given to new applicants before they are enrolled in a particular speed group. Applicants will be notified of the time, date, and place of this test.

Permission to participate must be obtained from the employee's immediate supervisor. Classes, lasting 30 minutes, are held in Wilson Hall two or three times each week.

For more information, contact the Employee Relations Section, Bg. 1, Rm. 21, ext. 2614, before Friday, January 24.

ARE YOU ELIGIBLE?

Government employees who are now receiving retirement annuities paid from Federal funds are not eligible for insurance coverage under the Federal Employees Group Life Insurance Program.

If you are receiving such an annuity, and deductions are being taken from your salary for Federal Employees Group Life Insurance, it is suggested that you contact the Employee Relations Section, Personnel Management Branch, Bg. 1, Rm. 21, ext. 707. A determination will be made as to whether you are eligible for this insurance.

It's not in? This's the library, isn't it?!

