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THE ROCKEFELLER INSTITUTE
FOR MEDICAL RESEARCH

Organization and Equipment

NEW YORK
THE ROCKEFELLER INSTITUTE
FOR MEDICAL RESEARCH
1917
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Communications should be addressed to The Rockefeller Institute for Medical Research, 66th Street and Avenue A, New York, N. Y.
SCIENTIFIC STAFF
1917

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IDA WILLIAMS PRITCHETT, A.B.; Pathology and Bacteriology
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HARRY DE WITT BURRELL, LL.B., Bursar
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MARY BRYCE THOMPSON, Assistant Superintendent of the Hospital
CHARLES BOROMEO SPIES, Ph.G., Purchasing Agent and Pharmacist
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EDITH CROWNINSHIELD CAMPBELL, A.B., in charge of Publications
LILLIA MARIE DONNELL TRASK, Librarian
KATHERINE MARGARET CHRISTHILF, Housekeeper of the Hospital
GRACE STUART BARKER, Secretary to the Manager
ANNA LOUISE VON DER OSTEN, Secretary to the Director of the Laboratories
ALICE RICHMOND LEAN, Secretary to the Director of the Hospital
NATHANIEL ELWOOD SHAW, Secretary to the Director of the Department of Animal Pathology
PURPOSES

THE Rockefeller Institute for Medical Research, founded in 1901, is a philanthropic corporation created under the laws of the State of New York. The charter states that:

"The objects of said Corporation shall be to conduct, assist, and encourage investigations in the sciences and arts of hygiene, medicine and surgery, and allied subjects, in the nature and causes of disease and the methods of its prevention and treatment, and to make knowledge relating to these various subjects available for the protection of the health of the public and the improved treatment of disease and injury. It shall be within the purposes of said Corporation to use any means to those ends which from time to time shall seem to it expedient, including research, publication, education, the establishment and maintenance of charitable or benevolent activities, agencies or institutions appropriate thereto, and the aid of any other such activities, agencies, or institutions already established or which may hereafter be established."

ENDOWMENT

THE Institute has been generously endowed by Mr. John D. Rockefeller by a series of gifts which have from time to time capitalized its growing needs and have established it in independence on the basis of its present annual expenditure. The endowment amounts at the beginning of the year 1917 to over $15,600,000 in real estate and buildings situated in New York City and near Princeton, New Jersey, and approximately $12,300,000 of invested funds.

The Institute's endowment also includes a legacy of $200,000 from the late Henry Rutherford, for the promotion of cancer research.

A fund of approximately $580,000 supports a system of pensions for members of the scientific staff.

GOVERNMENT

THE Institute's charter provides for a Board of Trustees and a Board of Scientific Directors. The Board of Trustees is charged with the maintenance and care of the endowment and property of the Institute. Income from the endowment, after taxes and other charges on the capital have been paid, is turned over to the Board of Scientific Directors. This Board is responsible for the conduct of the scientific work, and under its direction the income is spent in accordance with an annual budget. The budget is made up by a committee com-
posed of three members of the Board of Scientific Directors and two members of the Board of Trustees.

Further, the By-laws and Rules create three departments: the Laboratories, the Hospital, and the Department of Animal Pathology, at the head of each of which is a Director. Administrative responsibility is assigned to a Manager.

The personnel is given on pages 5, 6, 7, and 8 of this pamphlet, and the Charter, By-laws, and Rules are published in full in a separate pamphlet which may be had on application.

ORGANIZATION AND PRESENT SCOPE
OF THE WORK

The Laboratories were organized in 1905, under the direction of Dr. Simon Flexner, and include at present laboratories of Pathology and Bacteriology, Physiology and Pharmacology, Biological Chemistry, Experimental Biology, and Experimental Surgery.

The Hospital, of which Dr. Rufus Cole is the Director, was opened in 1910. It admits between fifty and sixty patients at a time. These patients are selected for admission because they are suffering from diseases which have been chosen for observation and study in the hospital. The equipment of the hospital includes bacteriological, pathological, physiological, and chemical laboratories, as well as clinical facilities, so that the staff is enabled to carry on studies of disease in its clinical aspects under conditions as near as possible to laboratory standards of exactness and efficiency, and is also able to engage, with the least possible waste of energy, in such laboratory researches as it may be profitable to correlate with the clinical studies.

The Department of Animal Pathology, organized in 1916, devotes itself to the study of animal diseases. The Department is under the direction of Dr. Theobald Smith, formerly of the Bureau of Animal Industry in Washington, and until recently Professor of Animal Pathology at the Harvard Medical School and Director of the Laboratories of the Massachusetts State Board of Health.

Not only are the diseases naturally occurring in domestic animals of great economic importance, but their investigation has been and doubtless will continue to be highly suggestive to the student of human disease. It has not thus far been the purpose of the Institute to spend its resources upon rare and strange diseases, or atypical cases of common diseases, in preference to those more prevalent or familiar. On the contrary, the diseases now under investigation, whether in
the laboratories or in the hospital, include some of those that are regarded as the chief scourges of mankind.

The scope of the Institute's work will thus be seen to be wider than the study of problems whose solution would have an immediate application to human pathology. It has, in fact, been the theory of the Institute's organization that it can best serve medical science by devoting a great deal of attention to the investigation of fundamental biological and chemical questions. Chemical laboratories in which such questions, rather than questions of clinical importance, have been investigated, and biological laboratories in which problems of fundamental biological interest were chosen, have absorbed a number of members of the staff and a considerable proportion of the Institute's annual budget. Further, in accordance with this view of the Institute's function the Directors recently established the Department of Animal Pathology.

The three Departments of the Institute are organized for research only. They give no instruction to students of any grade, and thus the Institute absolves its staff from the necessity of devoting time and energy to teaching or to the consideration of subjects and problems that would have to be chosen in the students' interest rather than because of their merit as subjects of research. In the hospital only graduate nurses are employed; no training school for nurses is maintained.

The Institute requires every one who serves on its staff to give full time to the work, permitting members of the staff to pursue no gainful occupations outside of its walls and paying to them a stipend fixed with reference to their complete devotion to whatever may be their different assignments.

Furthermore, the Institute assumes no obligation to the State or to the public which would pledge it to the discharge of routine duties, like the making of diagnoses, analyses, tests, the maintenance of a dispensary or general hospital, or the manufacture of drugs and sera.

It will thus be seen that what distinguishes the Institute from the medical school or experiment station is that it is completely dedicated to investigation, and that its organization is flexible and adaptable to the ever shifting requirements of research, so that its Directors can alter the emphasis of its work and can focus many different resources upon problems which have several aspects.
APPOINTMENTS TO THE SCIENTIFIC STAFF

APPOINTMENTS to the scientific staff are made by the Board of Scientific Directors, upon the recommendation of the Director of one of the Departments. The following grades are fixed by the rules of the Board: Member of the Institute, Associate Member of the Institute, Associate, Assistant, Fellow. Members of the medical staff of the hospital may have in addition to the appropriate Institute titles, as above, the following titles indicating their special functions: Physician to the Hospital, Assistant Physician to the Hospital, Resident Physician, Assistant Resident Physician. Appointments of Members of the Institute are made without limit of time; of Associate Members for a term of years; all other appointments are made for a term not exceeding one year.

As has been stated, all appointments to the scientific staff, whether in the laboratories or in the hospital, are made with stipend and engage the full time of the incumbents. No provision is made for the enrolment of individuals or classes for formal instruction in the medical sciences or in laboratory or clinical methods. Volunteer workers are sometimes, though rarely, admitted and then only when qualified to work upon problems determined by the Institute.

Applications for appointment may be made at any time. Blank forms of application are furnished on request. Appointments are ordinarily made only as vacancies occur. They may be sought for the purpose of permanent or indefinite association with the Institute, or for the purpose of temporary association with the Institute with one of the following objects: (1) experience in methods of investigation generally; (2) training in a special line of investigation; or (3) opportunity to work more or less independently on a particular problem. The qualifications for appointments to the scientific staff include preliminary training such as would be represented by a medical degree, and, in addition, a knowledge of methods of research; or a training such as would ordinarily be appropriate to the higher degrees in the biological or physical sciences.

GRANTS

BEFORE the Institute had organized and equipped its laboratories and hospital, the Directors voted a number of grants to carry on investigations in other institutions. Latterly grants have been limited to an aggregate of less than $10,000 a year and to the
support of investigations which seem to be related to studies conducted at the Institute. All applications for grants should be in the hands of the Manager before May 1. Blank forms of application are furnished on request. Grants are made for a single academic year ending June 30, unless otherwise agreed.

A grant may be used for any purpose required for the investigation, whether for the purchase of apparatus and materials or for the employment of assistants, subject to the following conditions: (1) A grant is never intended merely to eke out salaries or appropriations paid by other institutions for the same work; the use of each grant must be identified with the particular problem for which the support of the Institute is desired. The Board must be satisfied in the case of every application that the spirit of this rule will be observed. (2) Apparatus purchased from grants may, at the discretion of the Manager, be claimed as the property of the Institute upon the completion of the investigation. (3) The requirements concerning accounts, acknowledgments, and publication, of which a full statement will be sent on application, must be observed.

ADMISSION OF PATIENTS TO THE HOSPITAL

THE capacity of the hospital is about sixty beds. The work at any one time is confined to selected cases that bear upon a limited number of subjects chosen for investigation. Among the subjects chosen have been acute lobar pneumonia, acute anterior poliomyelitis, syphilis of the central nervous system, certain types of disturbed metabolism, diabetes, nephritis, certain types of heart disease, and cancer. Patients are admitted only by the Resident Physician, to whom they are referred by physicians or hospitals, or to whom they may apply directly. The Director issues bulletins from time to time informing physicians of the diseases chosen for investigation. While making the fullest use of its opportunities for observation and study, the Institute recognizes at all times the paramount right of the patient to receive the most effective treatment within the power of the attending physicians. A patient does not impair that right by the voluntary character of his application for admission.

Under the By-laws of the Corporation, no charge can be made to persons treated at the hospital, for professional care or service rendered, or for board or lodging.
DISCOVERIES AND INVENTIONS

ALL discoveries and inventions made by any person while receiving compensation from the Institute become the property of the Institute, to be placed freely by it at the service of humanity in accordance with the beneficent purposes of the founder.

EXPERIMENTS ON ANIMALS

THE Governing Boards of the Institute believe that the use of animals for the purpose of advancing the knowledge of disease, its prevention and cure, is justified on the grounds of humanity and necessity. They also believe that whenever the sacrifice of an animal is required by the welfare of human beings, or of the lower animals, that sacrifice should be exacted with the least possible infliction of pain or distress consistent with the attainment of the object in view. Members of the scientific staff are required to conform to this standard in all operations upon animals, and the chief of each laboratory is held responsible for the actions of his assistants in this regard.

PUBLICATIONS

RESULTS of the investigations conducted at The Rockefeller Institute for Medical Research and elsewhere under its grants are reported in a variety of journals and publications.

(1) The Institute publishes a Semiannual List stating the title and place of publication of these reports. This Semiannual List will be sent regularly upon application.

(2) The reports of investigations which are thus variously published in the first instance are ultimately reprinted in a series of volumes entitled Studies from The Rockefeller Institute for Medical Research. The Studies appear serially, but at irregular intervals. The first volume of the series was published in 1904, and in April, 1917, the twenty-sixth volume of the series had appeared. Each volume contains about 600 pages of text and is indexed. A complete index of Volumes 1 to 25 is in press. At present the Studies appear at the rate of two or three volumes a year.

Owing to the irregularity of publication, subscription rates are fixed not by the year but by the volume—at $2.00 per volume.

A special rate of $1.00 is made to those who subscribe to The Journal of Experimental Medicine or The Journal of Biological Chemistry.
(3) *The Journal of Experimental Medicine* is published by The Rockefeller Institute for Medical Research and is designed to cover the field of experimental medicine. It not only publishes reports of work conducted in the laboratories of the Institute or elsewhere under its grants, but it also accepts contributions from other sources.

Contributions should be addressed to the Editor of *The Journal of Experimental Medicine*, 66th Street and Avenue A, New York.

*The Journal of Experimental Medicine* is issued monthly, two volumes appearing in a year. Each volume contains more than 600 pages and many plates and text-figures. The subscription price per year is $5.00 (two volumes). Single copies cost 75 cents.

Subscriptions will not be accepted to begin in the middle of a volume. Subscribers should state whether they wish their subscription to begin with the January or July number, unless they wish to leave the decision to the option of the Publishers.


This is the only journal in the United States exclusively devoted to the publication of the results of biochemical research. It is issued monthly, and since its foundation in 1905, twenty-nine volumes of approximately 550 pages each have been completed.

The subscription price is $3.00 per volume to subscribers in the United States and Canada; $3.25 to those in other countries.

(5) The Institute also publishes a series of *Monographs*; i.e., papers which are so extensive, or require such elaborate illustration, as to render them unsuitable for current periodical issues. The *Monographs* are published at irregular periods, determined by the available material on hand.

*Monographs* will be sent post paid on application, at $1.00 each, payable in advance by check or draft on New York, or by postal money order.

Circulars giving further information may be obtained.

All inquiries, correspondence, and subscriptions should be addressed to the Publication Department of The Rockefeller Institute for Medical Research, 66th Street and Avenue A, New York.
THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

BUILDINGS AND EQUIPMENT
NEW YORK

The principal buildings of the Institute are situated on the cliff overlooking the East River and Blackwell’s Island, at the end of 66th Street, New York. The situation insures admirable light and air, and greater quiet than would be enjoyed in the more central parts of the city. The central building, the first one erected, is a laboratory building, containing five floors and a basement, and has an operating room and a number of dog houses on the roof. It covers a ground area of 136 feet by 60 feet. Another laboratory building, containing six floors and two basements and covering 150 feet by 62 feet of ground, was opened in 1916. It is shown at the left of the frontispiece. In both buildings each floor is arranged with laboratories and offices about a central corridor. The construction of both buildings is fireproof and such that all interior partitions can be altered or removed as occasion requires. Hot and cold water, steam, compressed air, suction, gas, and electric current are supplied to the laboratories. Refrigeration by means of a brine circulation is carried to central positions in the buildings, and several large thermostats are a part of the construction. Pipes and drains, vents and conduits, are exposed or carried through accessible ducts wherever possible, to facilitate inspection and alteration.

In addition to the laboratories these buildings provide administrative offices, an assembly room, library, publication department, a central supply room, illustration department, x-ray department, and facilities for microtomy, sterilization, and the making of culture media.

The animal house is an eastward extension of the new laboratory building. In it are kept small animals, such as rabbits, guinea pigs, monkeys, etc. There is also provision for ten horses and a smaller number of goats and sheep. Two cold rooms are arranged for aquaria. The building includes arrangements for the storage and preparation of foods, the repair and sterilization of cages, and the incineration of refuse. Walls and floors are finished so that they can be washed down with a hose. The cages are suspended on metal racks instead of being placed on the floor.

The hospital is an eight-story building, with two additional basement floors in the wall of the East River cliff, and a house-roof. It is connected by a covered bridge at the level of the third floor with a two-story and basement isolation pavilion, and with a laboratory building beyond. The first floor of the hospital provides for the administrat-
tion, the reception rooms, and the quarters of the resident staff. The second floor is entirely occupied by the nurses' quarters. The third floor contains a number of small rooms for the accommodation of one or two patients each. The fourth, fifth, and half of the sixth floors are arranged for ward patients. The hospital is planned with the idea of enabling the staff and nurses to give an unusual amount of attention to each of a small number of patients. It should not be an example of hospital planning except for a research hospital. The general wards are planned for only six or eight beds each. Enclosed balconies at each end of the building are large enough to permit all the beds to be rolled out in pleasant weather. The seventh floor of the hospital and half of the sixth are devoted to laboratories. On the eighth floor is a small operating suite. The equipment of this suite is simple, however, for it is not intended that the hospital shall undertake surgical work, except as emergency or special occasion requires. The x-ray department is reached by the covered bridge to the adjoining building. It has been the policy of the hospital to engage each member of the staff in both clinical and laboratory work, and to provide ample laboratory facilities, as near the wards as possible.

A power house built and operated by the Institute provides the buildings with heat, light, electric power, pressure, refrigeration, vacuum, and filtered water.

NEAR PRINCETON, NEW JERSEY

In the autumn of 1914 The Rockefeller Institute for Medical Research acquired about 400 acres of land on the east side of Carnegie Lake, opposite Princeton, in the town of South Brunswick, for the Department of Animal Pathology, which has been organized under the direction of Dr. Theobald Smith, and also for the accommodations for the serum horses and other animals which it had hitherto kept at Clyde, near New Brunswick. This tract of land is much larger than the Institute's present projects require, but in view of recent developments about Princeton it seemed advisable to secure a liberal provision for possible future expansion.

The important features of the building plan that has been carried out are: (1) a laboratory building; (2) buildings in which a considerable number of animals can be isolated; (3) such auxiliary services as a power house, sewage disposal plant, etc. The designing has been governed by certain general considerations. Low buildings seemed most suitable for the Princeton landscape. Thus the laboratory build-
ing, the principal structure, consists of two and a half stories and a basement. Next, as modern experimental work modifies its methods rapidly, and consequently its physical requirements, it is the Institute's policy to build as economically as is consistent with a good appearance and fire protection. The laboratory building is constructed of hollow tile walls covered with stucco, and a green tile roof. Finally, as the summer is apt to be the most active season of the year in animal work, the buildings have been placed on the highest part of the land and are so arranged inside as to take advantage of the prevalent summer winds. The power house supplies steam, refrigeration, and electric current, and air pressure and vacuum when needed. Pipes and ducts, which are the veins and arteries of a laboratory, are everywhere run in easily accessible conduits or are exposed inside the buildings, appearance being subordinated in this particular to convenience in inspection, repair, and alteration.

The laboratory building, which is 140 feet in length, is arranged and equipped to enable bacteriologists, pathologists, protozoologists, biochemists, etc., to carry on their work, and also contains a general office and library. The buildings for the isolation of animals are the only ones of novel construction. An attempt has been made to arrange them in such fashion that a considerable number of groups of animals may be kept, cared for, and observed without danger of infective material being transmitted from one group to another. A prevalent defect in the equipment of experiment stations and other institutions in which animal diseases are studied has been the inadequacy of their facilities for the complete isolation of animals. Exact observations are dependent upon a control of the conditions under which an infected animal is kept and studied, which should be no less than the control of conditions in the wards of a modern hospital.
Laboratory Building, Department of Animal Pathology

Isolation Building, Department of Animal Pathology

THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH, PRINCETON, NEW JERSEY, 1917