DESCRIPTIVE PAMPHLET, 1921

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CORPORATION

Board of Trustees

SIMON FLEXNER, M.D., Sc.D., LL.D.
*STARR JOCELYN MURPHY, A.B., LL.B., Secretary of the Corporation and of the Board
†RAYMOND BLAINE FOSDICK, A.B., A.M., LL.B.
TERM EXPIRES IN OCTOBER, 1921

JOHN DAVISON ROCKEFELLER, Jr., A.B.
JEROME DAVIS GREENE, A.B.
TERM EXPIRES IN OCTOBER, 1922

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WILLIAM HENRY WELCH, A.B., M.D., LL.D.
TERM EXPIRES IN OCTOBER, 1923

Board of Scientific Directors

THEOBALD SMITH, Ph.B., A.M., M.D., Sc.D., LL.D.
WINTHROP JOHN VANLEUVEN OSTERHOUT, A.B., A.M., Ph.D.
TERM EXPIRES IN OCTOBER, 1921

HERMANN MICHAEL BIGGS, A.B., M.D., LL.D.
THEOPHIL MITCHELL PRUDDEN, Ph.B., M.D., LL.D., Vice-President of the Board
WILLIAM HENRY WELCH, A.B., M.D., LL.D., President of the Board
TERM EXPIRES IN OCTOBER, 1922

SIMON FLEXNER, M.D., Sc.D., LL.D.
LUTHER EMMETT HOLT, A.B., A.M., M.D., Sc.D., LL.D., Secretary of the Board
TERM EXPIRES IN OCTOBER, 1923

Executive Officers

LOUIS GUERINEAU MYERS, Treasurer of the Corporation
EDRIC BROOKS SMITH, B.S., Business Manager

*Died, April 4, 1921
†Appointed to fill unexpired term created by the death of Starr Jocelyn Murphy
SCIENTIFIC STAFF
1921-1922

Members of the Institute

SIMON FLEXNER, M.D., Sc.D., LL.D.; Pathology and Bacteriology; Director of the Laboratories

RUFUS COLE, B.S., M.D.; Medicine; Director of the Hospital; Physician to the Hospital

THEOBALD SMITH, Ph.B., A.M., M.D., Sc.D., LL.D.; Director of the Department of Animal Pathology

ALEXIS CARREL, L.B., B.S., M.D., Sc.D.; Experimental Surgery

ALFRED EINSTEIN COHN, A.B., M.D.; Medicine

PHOEBUS AARON THEODOR LEVENE, M.D.; Chemistry

JACQUES LOEB, M.D., PH.D., Sc.D.; General Physiology

SAMUEL JAMES MELTZER, M.D., LL.D.; Physiology and Pharmacology

HIDEYO NOGUCHI, M.D., M.S., Sc.D.; Pathology and Bacteriology

PEYTON ROUS, A.B., M.D.; Pathology and Bacteriology

DONALD DEXTER VAN SLYKE, A.B., Ph.D.; Chemistry

Associate Members of the Institute

HAROLD LINDSAY AMOSS, B.S., M.S., M.D., Dr.P.H.; Pathology and Bacteriology

JOHN AUER, B.S., M.D.; Physiology and Pharmacology

OSWALD THEODORE AVERY, A.B., M.D.; Bacteriology

FRANCIS GILMAN BLAKE, A.B., M.D.; Medicine

WADE HAMPTON BROWN, B.S., M.D.; Pathology and Bacteriology

HARRY CLARK, B.S., M.S., A.M., Ph.D.; Biophysics

EDMUND VINCENT COWDRY, A.B., Ph.D.; Pathology and Bacteriology

FREDERICK LAMONT GATES, A.B., M.D.; Pathology and Bacteriology

WALTER ABRAHAM JACOBS, A.B., A.M., Ph.D.; Chemistry

FREDERIC SOWDEN JONES, V.M.D.; Animal Pathology

JAMES BUMGARDNER MURPHY, B.S., M.D.; Biophysics

JOHN HOWARD NORTHROP, B.S., A.M., Ph.D.; General Physiology

PIERRE LECOMTE DU NOUY, Ph.B., LL.B., Sc.D.; Experimental Surgery

HOMER FORDYCE SWIFT, Ph.B., M.D.; Medicine

Associates

JAMES HAROLD AUSTIN, B.S., M.D.; Medicine; Acting Resident Physician

*Died, November 7, 1920
JAMES HOWARD BROWN, B.S., M.S., Ph.D.; Animal Pathology
GLENN ERNEST CULLEN, A.B., B.Ch.E., Ph.D.; Chemistry
PAUL HENRY De KRUIF, B.S., Ph.D.; Pathology and Bacteriology
LLOYD DERR FELTON, A.B., M.D.; Pathology and Bacteriology
RUDOLF WILLIAM GLASER, A.B., Sc.D.; Animal Pathology
HENRY WEBSTER GRAYBILL, B.S., A.M., V.M.D.; Animal Pathology
MICHAEL HEIDELBERGER, B.S., A.M., Ph.D.; Chemistry
PAUL EDWARD HOWE, B.S., A.M., Ph.D.; Animal Pathology
RAYMOND GARRISON HUSSEY, M.D.; Biophysics
ISRAEL JACOB KLIGLER, B.S., A.M., Ph.D.; Bacteriology
ROBERT LOUIS LEVY, A.B., M.D.; Medicine
RALPH BULKLEY LITTLE, V.M.D.; Animal Pathology
GUSTAVE MORRIS MEYER, B.S., C.E., Sc.D.; Chemistry
PETER KOSCIUSKO OLITSKY, M.D.; Pathology and Bacteriology
LOUISE PEARCE, A.B., M.D.; Pathology and Bacteriology
WILLIAM CHRISTOPHER STADIE, B.S., M.S., M.D.; Medicine; Asst. Resident Physician
EDGAR STILLMAN, A.B., M.D.; Medicine
ERNEST GOODRICH STILLMAN, A.B., M.D.; Medicine
EDUARD UHLENHUTH, Ph.D.; Pathology
MARTHA WOLLSTEIN, M.D.; Pathology and Bacteriology

Assistants

CARL ALFRED LANNING BINGER, A.B., M.D.; Medicine; Asst. Resident Physician
RALPH HENDERSON BOOTS, M.D.; Medicine; Asst. Resident Physician
GoronwY Owen BrouN, A.B., M.D.; Pathology and Bacteriology
ALBERT HENRY EBELING, M.D.; Experimental Surgery
HELEN LILLIAN FALES, B.S.; Chemistry
ALBERT FISCHER, M.D.; Experimental Surgery
LAURA FLORENCE, A.M., B.S., Ph.D.; Animal Pathology
WILLIAM ARTHUR HAGAN, V.M.D., M.S.; Animal Pathology
ALBERT BAIRD HASTINGS, B.S., Ph.D.; Chemistry
ALMA ELIZABETH HILLER, B.S.; Chemistry
CLARA JULIA LYNCH, B.L., A.M., Ph.D.; Biophysics
PHILIP DURYÉE McMASTER, B.S., M.D.; Pathology and Bacteriology
LOUIS ALOIS MIKESKA, A.B., A.M., Ph.D.; Chemistry
CHARLES PHILIP MILLER, Jr., B.S., M.D., M.S.; Medicine; Asst. Resident Physician
HUGH JACKSON MORGAN, B.S., M.D.; Medicine; Asst. Resident Physician
WARO NAKAHARA, A.M., Ph.D.; Biophysics
FREDRIC MAX NICHOLSON, B.S.; Pathology and Bacteriology
MARION LELAND ORCUTT, A.B.; Animal Pathology
EUGENE VERNON POWELL, M.D.; X-ray
IDA PAULINE ROLF, B.S., Ph.D.; Chemistry
FRED ANDERSON TAYLOR, Ph.B.; Chemistry
THEODOR THJOTTA, M.D.; Medicine; Asst. Resident Physician
JAMES DOWLING TRASK, JR., Ph.B., M.D.; Medicine; Asst. Resident Physician
LESLIE TILLOTSON WEBSTER, A.B., M.D.; Pathology and Bacteriology

Fellows

ELIZABETH BRAKELEY, A.B., A.M., Ph.D.; General Physiology
KATHARINE MARY DOUGHERTY, B.S.; Pathology and Bacteriology
ANDRE LÉON EDOUARD GRATIA, M.D.; Pathology and Bacteriology
DAVID INGERSOLL HITCHCOCK, A.B., A.M.; General Physiology
THOMAS JOHN Le BLANC, B.S., M.S.; Pathology and Bacteriology
GIOVANNI MARTINAGLIA, V.S., B.V.Sc., M.S.; Animal Pathology
JAMES MAFFET NEILL, B.S.; Medicine
HENRY SWAIN SIMMS, B.S.; Chemistry
MARIAN SYBIL TAYLOR, A.B.; Animal Pathology

ADMINISTRATIVE AND OTHER APPOINTMENTS

EDRIC BROOKS SMITH, B.S.; Business Manager
FREDERICK STANLEY HOWE, A.B.; Asst. Business Manager
ALBERT DOVELL ROBERTSON; Bursar
ERNEST WILLIAM SMILLIE, V.M.D.; Superintendent of the Department of Animal Pathology
NANCY POULTNEY ELLICOTT; Superintendent of the Hospital
MARY BRYCE THOMPSON; Asst. Superintendent of the Hospital
CHARLES BOROMEO SPIES, Ph.G.; Purchasing Agent and Pharmacist
EDITH CROWNINSHIELD CAMPBELL, A.B.; In charge of Division of Publication
LOUIS SCHMIDT; In charge of Division of Illustration
LILLIA MARIE DONNELL TRASK; Librarian
KATHERINE MARGARET CHRISTHILF; Housekeeper of the Hospital
IRENE ERMA McFAUL; Supervising Nurse, Division of Experimental Surgery
EDITH LUCINDA RAINS; Social Service Nurse
ANNA LOUISE VON DER OSTEN; Secretary to the Director of the Institute
HELEN AURELIA STIEBELING, A.B.; Secretary to the Director of the Hospital
MABEL DENNIS REED; Secretary to the Director of the Department of Animal Pathology
DORA ELDRIDGE RISLEY; Cashier
HAZEL REED OLMSTEAD; Secretary to the Business Manager
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 through a series of gifts which have from time to time provided for its growing needs, including the establishment of a service pension fund for members of the scientific staff. The Institute also administers a legacy from the late Henry Rutherford for the promotion of cancer research.

ADMINISTRATION

THE Institute’s charter provides for a Board of Trustees and a Board of Scientific Directors. The Board of Trustees, which includes two representatives of the Board of Scientific Directors, 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 available for expenditure by the Board of Scientific Directors. The Board of Scientific Directors has control of all the scientific work and of the administration of the several departments of the Institute. Its stated meetings are held quarterly. The expenditures are made under its direction in accordance with an annual budget framed by a Budget Committee consisting of three members of the Board of Scientific Directors and two members of the Board of Trustees.
There are three Departments of the Institute: the General Laboratories, the Hospital, and the Department of Animal Pathology. At the head of each of these Departments is a Director.

The routine administration of the Institute is in charge of an Executive Committee of the Board of Scientific Directors which acts chiefly through a Business Manager. The fiscal year begins July 1.

The Trustees of the Institute, who are the custodians of its property, and the Scientific Directors, who have unrestricted charge of all phases of its scientific work, together constitute the Corporation which meets at least once a year to receive reports from the Trustees and Directors, who consider together, from a common standpoint, the affairs of the institution as a whole. This organization of the Governing Boards has fostered in a most gratifying way the aims of the Institute, giving as it does to the Scientific Directors the advantage of wise and sympathetic counsel in the relationships of the institution to the community, and affording to the Trustees opportunity to share in the problems, the outlooks, and the successes which are the inspiration of the scientific staff.

The names of the members of the Board of Trustees, of the Board of Scientific Directors, of the Scientific Staff, and of the higher Executive Officers, are given on pages 5, 6, 7, and 8 of this circular.

**ORGANIZATION AND PRESENT SCOPE OF THE SCIENTIFIC WORK**

**THE DEPARTMENT OF THE GENERAL LABORATORIES**

Dr. Simon Flexner, Director of the Institute, is also the Director of the Department of the General Laboratories which was organized in 1905. The work of these laboratories, which has since undergone considerable expansion and differentiation, is conducted under several divisions and subdivisions as follows:

*The Division of Pathology and Bacteriology* is in direct charge of Dr. Flexner and with him are associated Drs. Amoss, Gates, Olitsky, Wollstein, Felton, De Kruif, and Webster, and Mr. Le Blanc and Miss Dougherty.
Subdivisions in Pathology are conducted by Dr. Noguchi; by Dr. Rous, assisted by Drs. McMaster and Broun; by Drs. Wade H. Brown and Pearce; by Drs. Jacobs and Heidelberger; by Dr. Uhlenhuth; and by Dr. Cowdry, assisted by Mr. Nicholson.

The Division of Chemistry is conducted by Dr. P. A. Levene, associated with Dr. Meyer and assisted by Drs. Mikeska and Rolf, and Mr. Taylor and Mr. Simms.

The Division of Experimental Surgery is conducted by Dr. Alexis Carrel, assisted by Drs. du Noüy, Ebeling, and Fischer.

The Division of General Physiology is conducted by Dr. Jacques Loeb, assisted by Dr. Northrop and Mr. Hitchcock.

The Division of Biophysics is conducted by Dr. James B. Murphy, associated with Dr. Harry Clark and assisted by Drs. Hussey, Nakahara, and Lynch.

Special lines of investigation relating to cancer are pursued in this division with the support of the Rutherford Fund.

The lines of research pursued in the several divisions and subdivisions of the General Laboratories are numerous and varied and can be best surveyed by reference to the Studies from The Rockefeller Institute in which are assembled at intervals the published scientific work of the Staffs of all the Departments.

THE DEPARTMENT OF THE HOSPITAL

In the course of the orderly development of the Institute, the Department of the Hospital was added to the Department of General Laboratories in 1910. It is obvious that many of the investigations undertaken in the General Laboratories have for their ultimate end the amelioration and even the prevention of disease in man. However, to attain these ends, it is important that the manifestations of any given disease be studied not only in animals experimentally infected but also in human beings in whom the disease has naturally arisen. Moreover, at present it is impossible to transmit certain human diseases to animals. Hence, in a fairly complete program of research into the sources, incitants, prevention, and cure of disease in man, the Hospital is an essential component. Moreover, the direct study of disease in man affords
not only inspiration and stimulation to research in new directions, but it tends to prevent certain lines of collateral inquiry from straying too far from the practical problems relating to its control.

Dr. Rufus Cole has been Director of the Hospital since its establishment in 1910. The Hospital has been so organized and equipped that, first, the patients may receive due attention to their personal comfort and the benefit of the best forms of modern treatment; and second, the manifestations of disease in the patient may be observed with the highest standards of exactness and the observations carefully recorded and preserved. It is, moreover, believed to be important that special lines of inquiry suggested by the observation of patients should be pursued by the physicians themselves who make these observations, and for this purpose the hospital has been provided with laboratories equipped for the employment of methods developed in such contributing sciences as chemistry, physics, physiology, and bacteriology. It has been found advisable to have certain of the laboratories under the immediate charge of men devoted to these special collateral sciences, but who do not themselves assume the responsibility for the care of patients. Thus the chemical laboratory of the hospital is under the direction of Dr. Donald D. Van Slyke, and associated with him are Drs. Cullen and Hastings, and Miss Hiller and Mr. Neill. Similarly, Dr. Oswald T. Avery has charge of the work in the bacteriological laboratory and associated with him is Dr. Ernest G. Stillman.

The care and study of patients is conducted by the following physicians who are at present investigating special groups of diseases as follows:

1. Infectious Diseases.
   Drs. Rufus Cole, Homer F. Swift, and Francis G. Blake, associated with whom are Drs. Stadie, Thjötta, Miller, Boots, Trask, and Morgan.

2. Cardiac Diseases.
   Dr. Alfred E. Cohn, with the cooperation of Drs. Levy and Binger.

3. Metabolic Diseases.
   Drs. J. Harold Austin and Edgar Stillman.

Only graduate nurses are employed in the hospital.
THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

THE DEPARTMENT OF ANIMAL PATHOLOGY

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HIS Department, of which Dr. Theobald Smith is Director, was organized in 1916 and the buildings were completed in 1917. The object of this undertaking was to develop a comparative pathology of animal life, which is to open the way for a study of the general processes of disease and recovery, and in virtue of the close relation existing between the higher animals and man in the biological sense, is to throw light upon obscure details of human disease. Such a comparative pathology is founded on an accurate concrete knowledge of the diseases of various groups of animals. Knowledge of these diseases is in a more or less incomplete, fragmentary state. This is true of the economically as well as medically important diseases of our domestic animals and birds, and for this reason the resources of the department since the beginning have been largely directed towards a renewed study of these diseases.

In animal life, living agents such as bacteria, protozoa, and higher animal parasites dominate the disease processes. Bacteriology and parasitology have, therefore, up to the present formed the major lines of research. Intimately associated with these are pathological conditions due to food poisons and to inadequate food rations. To disentangle these conditions and to assign to each one its proper place in the production of disease will be the most important work of the near future. These problems are being approached from the directions of bacteriology, parasitology, immunology, pathology, anatomy, and biochemistry.

The scientific staff of the department is made up at present as follows:

Associate Member—Dr. F. S. Jones.
Fellow—Dr. G. Martinaglia.

The three Departments of the Institute are organized for research only. Under normal conditions they give no instruction to students
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 chosen in the student's interest rather than because of their
value and promise for the advancement of science.

The scope of the Institute's work is wider than the study of problems
whose solution has 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, physical, and chemical subjects.
Chemical laboratories in which this aspect of science as well as those
of direct clinical importance have been constantly under investigation,
and laboratories in which problems of general biological interest were
chosen, have largely occupied certain of the scientific staff and have used
a considerable share of the Institute's annual budget. Furthermore,
while the larger part of the research work of the Institute is carried on
in its laboratories in New York and Princeton, from time to time field
expeditions in the United States and elsewhere are undertaken for the
solution of special emergency problems.

The Institute requires all who serve on its scientific staff to give full
time to the work, permitting them to pursue no gainful occupations
outside of its organization and paying to them a stipend fixed with
reference to their complete devotion to whatever may be their special
assignments.

While the various phases of research which are being carried for­
ward at the Institute are more or less independently conducted in
several Departments and Divisions, it is aimed, as far as is possible, so
to coordinate them that they may be mutually helpful and stimulating.
Thus through frequent symposia, by the common services of publica­
tion, illustration, library, and other accessory divisions of service, and
the lunch room shared by the scientific staff, a gratifying and helpful
community of interest is maintained.

It is not the aim of the Institute to perpetuate the lines of investiga­
tion in which it may engage, or even Departments and Divisions, should
the usefulness or promise of these at any time become doubtful, from
changes in the requirements and outlooks of science, or from lack of
leaders of vision or achievement. On the other hand, the elucidation
of fundamental problems may proceed under favorable conditions and with adequate support for an indefinite period, unhurried and unhindered by the urgency of obviously practical or immediate results. The organization of the Scientific Staff of the Institute is thus flexible and adaptable to the ever shifting requirements of research, so that its Directors at any time may alter the emphasis of its work, and focus its various resources upon different aspects of complex problems.

SERVICES AUXILIARY TO RESEARCH

The organization of the Institute provides for the maintenance of a series of Auxiliary Divisions in which center various phases of technical service to members of the scientific staff, so that the latter may be relieved of such personal routine as can be wisely delegated to specially trained persons.

Thus at present the following Auxiliary Divisions are in operation:

- **Publication** Miss Campbell, Chief of Division
- **Illustration** Mr. Schmidt, Chief of Division
- **Library** Miss Trask, Librarian
- **Purchasing and Stock** Mr. Spies, Chief of Division

In addition to these are the following Auxiliary Services: Section Cutting, Culture Media and Sterilization, Animal House, Power House, Machine and Apparatus Shop.

The Department of Animal Pathology at Princeton maintains a series of Auxiliary Divisions similar to these but less comprehensive in scope.

Besides these organized agencies contributing to the efficiency and convenience of research, it is the aim of the Institute, as far as is practicable, to sustain the work of the scientific staff with technicians, adequate secretarial service, and competent personal laboratory helpers.

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. The clinical 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 and Associates for a term of years; while 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 enrollment 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 the 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 an M.D. or a Ph.D. degree and, in addition, a knowledge of research, or a training such as would ordinarily be appropriate to the higher degrees in the biological or physical sciences.

ADMISSION OF PATIENTS TO THE HOSPITAL

The work of the hospital at a particular time is limited to a small number of subjects. Bulletins are issued from time to time stating the forms of disease then the subject of study. Only patients suffering from one of these diseases are admitted for treatment. They are admitted only by the Resident Physician, to whom they are referred by physicians or hospitals, or to whom they may apply directly. While making the fullest use of its opportunities
for observation and study, the Institute recognizes at all times the para-
mount 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.

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 largely to the support of investigations related to studies con­
ducted at the Institute. All applications for grants should be in the
hands of the Business Manager before May 1. Grants are made for a
single academic year ending June 30, unless otherwise agreed.

DISCOVERIES AND INVENTIONS

ALL discoveries and inventions made by any person while receiv­
ing 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 the
lower animals for the advancement of knowledge, the preven­
tion of disease, and the saving of life is justifiable in the interest of
the general welfare both of man and animals. Though this is sometimes
asserted by the ignorant, cruelties are not inflicted upon experimental
animals, every effort being made to minimize discomfort or distress.
The scientific staff conforms to this aim in all experiments upon
animals and the chief of each laboratory is responsible for the actions
of his assistants in this regard.
THE work of the Institute, comprised in the Departments of the
General Laboratories and the Hospital, is carried on in a group
of buildings situated in New York City, on the cliff overlooking the
East River and lying between 64th and 68th Streets (see frontispiece).
This location insures excellent light and air, and greater quiet than could be
secured in the more accessible parts of the city. The group consists of
two laboratory buildings with an animal house, a hospital with isolation
pavilion, and a central power house, all connected by service tunnels.

The Central Building, containing laboratories, library, and administration
offices, was completed in 1906. It covers an area of 136 feet by 60
feet, and contains five main floors, a light basement, and a suite of surgical
rooms and kennels on the roof. The second or North Laboratory Building,
opened in 1916 and covering 150 feet by 62 feet, contains six floors
and two basements. Both the above buildings are fire-proof and so
constructed that all interior partitions may be altered or removed as
occasion requires. Provision is made for supplying hot and cold water,
steam, gas, compressed air, suction, and electricity to all laboratories.
Refrigeration by means of a brine circulation is carried to central positions in
these buildings, and numerous incubator rooms form part of
the permanent equipment. Pipes, drains, vents, and conduits are
either exposed or carried in accessible ducts wherever possible, to facilitate
inspection or alteration. In these buildings largely devoted to laboratories are the assembly room and quarters for the various auxiliary
divisions such as publication, illustration, library, storeroom, x-ray,
section cutting, and media preparation.

The Animal House occupies a building by itself, 77 feet by 66 feet,
six stories in height, constructed as an easterly extension of the north
laboratory building. In this building are kept small animals such as
rabbits, guinea pigs, monkeys, etc., as well as sheep, goats, and horses.
Its special equipment includes two cold rooms for serum and aquaria,
rooms for the storage and preparation of foods, the sterilization of
cages, the incineration of refuse, and a garage. All walls and floors are
finished so that they can be washed down, and cages are suspended from ceilings on metal racks rather than being placed on the floor.

The Hospital, opened in 1910 and covering 165 feet by 54 feet, is a seven-story building, with two additional basement floors in the wall of the East River cliff, and a roof enclosure. It is connected by a covered bridge at the level of the third floor with a two-story and basement isolation pavilion, and with the laboratory building beyond. The first floor of the hospital provides for the administration and reception rooms, and for 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. The general wards are for only six or eight beds each. The balconies at each end of the building are large enough to permit all the beds to be rolled out in suitable weather. The seventh floor of the hospital and half of the sixth are devoted to laboratories. On the roof is a small operating suite and an electrocardiograph station with its accessory laboratories and dark rooms.

A Power House built and operated by the Institute provides the buildings with heat, light, electric power, pressure, refrigeration, vacuum, and filtered water. It has ample reserve capacity for future buildings.

Children’s Gardens. The founder of the Institute has made generous provision for its future physical growth by the gift of land lying between Avenue A and the East River water-front, and, including a recent addition, extending from 64th to 68th Streets. Unoccupied portions of this property adjoining Avenue A, for some years have been placed at the disposal of the National Plant, Flower, and Fruit Guild, for the maintenance of Children’s Gardens. In 1920, on the removal of the War Demonstration Hospital, the entire Avenue A frontage from 64th to 67th Streets was devoted to this expression of good will to the mothers and youngsters of the neighborhood. Pending the development of the scope of the work of the Institute, which may require the use of the northerly plot, between 67th and 68th Streets with its high bluff facing the river, the Trustees have arranged for its temporary assignment to such form of
park and playground activities as the site and the neighborhood condi-
tions may invite. Control, administration, and support of this play-
ground and its equipment were assumed in June, 1921, by the Lenox
Hill Neighborhood Association of New York.

BUILDINGS OF THE DEPARTMENT OF ANIMAL PATHOLOGY
NEAR PRINCETON, NEW JERSEY

In the autumn of 1914, the Institute acquired about 400 acres of land
on the east side of Carnegie Lake, opposite Princeton, in the town-
ship of Plainsboro, for the Department of Animal Pathology. Here,
in addition to the research work of this Department, serum horses of the
Institute and other animals are cared for.

Those general features of the building plan which have been carried
out (see cut facing this page) are as follows:

1. A Laboratory Building which is equipped for work in pathology, bac-
teriology, protozoology, and biochemistry. This contains the library
and general offices. It is 140 feet long by 37 feet wide, is of hollow tile
and stucco construction, and is placed on the highest part of the land,
facing Princeton and overlooking Carnegie Lake. It is three and a half
stories high, the floor of the first being below ground level. The equipment
is such as to be easily changed as new problems are taken up. The furni-
ture is largely movable, except in the chemical laboratory. It is furnished
with the modern requirements of biological laboratories, such as hot and
cold water, steam, gas, electricity, refrigeration, pressure, and vacuum.

2. Animal Buildings which are designed for the maintenance of large
and small animals. Two of the buildings are divided into units in which
animals may be kept isolated for the study of infectious diseases. Each
unit contains hot and cold water, steam, gas, and electricity, and the
floor is drained. The stall partitions are removable. Provisions are
made for the changing of the outer garments and footwear of attendants.
A third large building erected in 1917 for the production of curative
serums to meet the urgent requirements of the war will eventually be
used for experiments on a larger scale than was contemplated for the
isolation units.

3. Outdoor Enclosures for large and small animals under exper-
imentation.

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The buildings stand on slightly rising ground, facing Princeton across Carnegie Lake. At the left are the laboratory and the power house; at the right, in the rear of the laboratory, are grouped the series of isolation pavilions for animals.
4. A *Power House* which supplies the necessary heat, electricity, refrigeration, and water from a deep driven well.

5. An intermittent filtration *Sewage Plant* to provide for the safe disposal of fluid wastes from laboratory and animal buildings.

6. *Farm*. As a necessary adjunct to the scientific work conducted by the laboratories a considerable part of the land is under cultivation, requiring an organization and equipment of farm buildings appropriate to its needs.

7. *Tenants' Houses*. The location of the Department being remote from thickly settled sections of the town, it has been necessary to develop the community by the erection on the Institute property of a number of homes which are rented at moderate cost to the staff and employees. An appropriate residence has also been built for the Director of the Department in a central portion of the grounds.

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EDITED BY

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