

Cornell University  
Announcements  
Medical College  
1971-72





# Cornell University

## Medical College

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# 1971-72

### **Cornell University Announcements**

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The courses and curricula described in this *Announcement*, and the teaching personnel listed herein, are subject to change at any time by official action of Cornell University.

# Medical College Calendar

1971-72

## First and Second Years

Labor Day

Registration and orientation for first-year students;  
registration for second-year students

Opening exercises, 3:00 p.m.

Instruction begins, 9:00 a.m.

Fall term ends, 5:00 p.m.

Thanksgiving holiday

Examinations

Winter term begins

Christmas recess

Instruction suspended 5:00 p.m.

Instruction resumed 9:00 a.m.

Winter term ends, 5:00 p.m.

Examinations for second-year students

Examinations for first-year students

Spring recess for second-year students

Spring term begins

Spring recess for first-year students

Memorial Day, holiday

Spring term ends for second-year students,  
5:00 p.m.

Examinations for second-year students

Spring term ends for first-year students, 5:00 p.m.

Examinations for first-year students

Monday, September 6

Wednesday, September 8-Friday, September 10

Friday, September 10

Monday, September 13

Wednesday, November 24

Thursday, November 25-Friday, November 26

Monday, November 29-Saturday, December 4

Monday, December 6

Friday, December 17

Monday, January 3

Friday, March 3

Monday, March 6-Saturday, March 11

Monday, March 6-Sunday, March 19

Sunday March 12-Sunday, March 19

Monday, March 20

Saturday, April 8-Sunday, April 16

Monday, May 29

Friday, June 2

Monday, June 5-Wednesday, June 7

Friday, June 9

Monday, June 12-Wednesday, June 14

## Third Year

Registration; instruction begins

First rotation of Section II, Divisions C, D, and E

Thanksgiving Day, holiday

Tuesday, September 7

Monday, November 1

Thursday, November 25

Rotation of Section I, Divisions A and B	Monday, November 29
Christmas recess	
Instruction suspended, 1:00 p.m.	Saturday, December 18
Instruction resumed, 8:00 p.m.	Monday, January 3
Second rotation of Section II, Divisions C, D, and E	Monday, January 3
Midyear rotation of all divisions of Sections I and II	Monday, February 28
Spring recess	Monday, April 17–Sunday, April 23
First rotation of Section I, Divisions C, D, and E	Monday, April 24
Rotation of Section II, Divisions A and B	Monday, May 22
Memorial Day, holiday	Monday, May 29
Second rotation of Section I, Divisions C, D, and E	Monday, June 12
Independence Day, holiday	Tuesday, July 4
Instruction ends	Saturday, August 5

#### **Fourth Year**

Registration	Tuesday, September 7
Thanksgiving Day, holiday	Thursday, November 25
Christmas recess	Saturday, December 18–Monday, January 3
Instruction ends, 1:00 p.m.	Thursday, May 25
Commencement, 3:00 p.m.	Wednesday, May 31

#### **Elective Modules**

A	September 7–October 23	(7 weeks)
B	October 25–December 18	(8 weeks)
C	January 3–February 19	(7 weeks)
D	February 21–April 8	(7 weeks)
E	April 10–May 25	(7 weeks)







# Cornell University

## The Medical College

### Purpose and History

Cornell University Medical College has as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that in the ideal medical school high-quality teaching and widely ranging investigations in the life sciences are carried on concurrently with optimal care of patients.

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the College for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

The first dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists as Dr. Lewis A. Stimson, professor of surgery; Dr. James Ewing, professor of pathology; and Dr. Graham Lusk, professor of physiology. The College has been well known, from the time of its establishment, for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900, the College occupied its first permanent headquarters at Twenty-eighth Street and

First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

### Facilities for Instruction

#### The Medical College

Instruction in the medical sciences is conducted in the buildings along York Avenue from Sixty-eighth to Seventieth Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the Library are on the first floor of this building. The Medical College Alumni Office (Room C-140) and the Office of Admissions and Student Affairs (Room C-118) are located directly behind the Library. The B and D areas of the Medical College adjoin the Wood Building on the north and south sides. Additional research and teaching facilities as well as the central animal care laboratories are located between the A and B buildings in the new William Hale Harkness Medical Research Building. The upper floors of the central portion of the Medical College house the Departments of Microbiology, Pathology, Physiology and Biophysics, and Public Health, along with the research laboratories for several of the clinical departments. The Department of Anatomy is in the building at Seventieth Street (Area A), and the building at the Sixty-eighth Street end of the College (Area E) houses the Departments of Biochemistry and Pharmacology. The central buildings are joined to the main hospital buildings on each of the seven floors. The College auditorium, the student laboratories and lecture rooms for the basic science departments, and the extensive research facilities for staff and students are also housed in the buildings along York Avenue.

## Graduate School of Medical Sciences

The Graduate School of Medical Sciences, one of the three academic units on Cornell's New York City campus, was organized in 1952 as a semiautonomous component of the Graduate School of Cornell University and is responsible for administering all advanced general degrees granted for study in residence on the New York City campus. The school is composed of two divisions: the Medical College Division consisting of faculty members principally from the basic science departments of the Cornell University Medical College, and the Sloan-Kettering Division consisting of staff members from the Sloan-Kettering Institute for Cancer Research.

The faculty of the Graduate School of Medical Sciences currently offers graduate programs leading to the M.S. and Ph.D. degrees in eleven biomedical fields: Biochemistry, Biological Structure and Cell Biology, Biology, Biomathematics, Biophysics, Genetics, Microbiology, Neurobiology and Behavior, Pathology, Pharmacology, and Physiology. These programs are designed for students interested in careers in teaching and research in the various basic biomedical sciences.

All of the facilities of the Cornell University Medical College and the Sloan-Kettering Institute for Cancer Research are available to graduate students. Such facilities include, in addition to well-equipped classrooms and libraries, unexcelled modern laboratories and equipment for research. For further details, refer to the *Announcement of the Graduate School of Medical Sciences*.

## The New York Hospital

Clinical instruction is given in the eleven separate departments forming the New York Hospital. The medical and surgical departments occupy the central hospital building; the women's clinic (Lying-In Hospital), the pediatric department, and the psychiatric department (Payne Whitney Clinic) extend from north to south, overlooking the East River. Each clinic contains facilities for bed patients, an outpatient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building, with semiprivate areas for bed patients, three floors for the outpatient department, and extensive laboratories for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semiprivate beds and outpatient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are six floors containing 128 rooms for private patients. Living quarters for the resident staff are in the new house-staff residence across York Avenue. The entire Hospital has a capacity of approximately 1,076 beds. The Westchester Division in White Plains, New York, contains an additional

281 beds. This Division, together with the Payne Whitney Clinic, forms the Department of Psychiatry of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the Hospital. He is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the College and the Hospital. Other members of the faculty devote part of their time to private practice.

## The Hospital for Special Surgery

The Hospital for Special Surgery, maintained by The New York Society for the Relief of the Ruptured and Crippled, was founded in 1863 as the first institution in the United States for the treatment of orthopedic conditions. It affiliated with The New York Hospital-Cornell Medical Center in 1949 and moved to its present location at 535 East Seventieth Street in 1955. The Hospital consists of a modern facility containing 204 beds, caring for some 3,500 inpatients a year and 11,000 outpatients in 19 subspecialty clinics. Twenty-four residents are trained in a three-year program in orthopedic surgery with an elective fourth year. The Hospital maintains a school for the training of practical nurses.

The Philip D. Wilson Research Foundation was opened in 1960 to investigate the causes, prevention, and improvement in the treatment of orthopedic and rheumatic diseases.

The Hospital for Special Surgery provides the orthopedic and rheumatic diseases services for The New York Hospital-Cornell Medical Center.

## The Burke Rehabilitation Center

The Burke Rehabilitation Center, 785 Mamaroneck Avenue, White Plains, New York, was founded in April 1915 by John Masterson Burke as a tribute to the memory of his mother, Winifred Masterson Burke. On March 14, 1968, the Burke Center became affiliated with The New York Hospital-Cornell Medical Center.

A 150-bed rehabilitation center accredited by the Joint Commission on Accreditation of Hospitals, the Burke Rehabilitation Center offers a multidisciplinary approach to the rehabilitation phase of total medical care. Since the primary objective of its program is the integration of the disabled patient into the community as a responsible individual functioning at his maximum potential, the Center offers its diagnostic, evaluative, and treatment services to those of all ages who have need for medical rehabilitation care.

The comprehensive program includes: services of physicians trained in rehabilitation and all other medical specialties; nursing care; nutritional research and application; occupational therapy; physical therapy, speech and hearing services; psychological and psychiatric services; social

services; and vocational evaluation and training.

Among the research and study programs being conducted at the Burke Rehabilitation Center are: a demonstration research program in nutrition and metabolic research, a stroke research study, a Parkinsonism research study, a cardiopulmonary study, and sociomedical research.

### **Memorial Hospital for Cancer and Allied Diseases**

Memorial Hospital is the clinical unit of the Memorial Sloan-Kettering Cancer Center. The Sloan-Kettering Institute for Cancer Research is the research unit.

In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with Cornell University Medical College in 1914. The agreement between Memorial Hospital and the College requires that the professional staff of the Hospital be named by the Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital, which includes the James Ewing Pavilion, has 449 beds.

### **Manhattan Eye, Ear and Throat Hospital**

One of the world's principal centers for the diagnosis and treatment of disorders of sight, hearing, and speech, Manhattan Eye, Ear and Throat Hospital became affiliated with Cornell University and The New York Hospital in 1968. In addition to its programs of patient care and treatment, this hospital now serves as Cornell University Medical College's teaching facility in ophthalmology and otorhinolaryngology and as a patient referral center for those specialties. Medical teaching is under the direction of the Medical College which, along with The New York Hospital, provides a wide range of consultative and other services not ordinarily available in a specialty hospital.

### **North Shore Hospital**

North Shore Hospital is a 430-bed, acute-care, voluntary institution in Manhasset, Long Island, serving heavily populated portions of Nassau, Suffolk, and Queens Counties. It became formally affiliated with Cornell University in 1969.

All members of the medical staff of North Shore Hospital are appointed to the faculty of the Medical College and participate in its teaching programs. In addition, each clinical service has a staff of full-time faculty members involved in research, teaching, and clinical activities. Through outpatient and educational services, emergency facilities, and outreach clinics, North Shore Hospital's community-oriented program provides an

important experience for the Medical College. Opportunities for clinical instruction are provided in medicine, neurology, surgery, pediatrics, pathology, radiology, and obstetrics-gynecology at the second-, third-, and fourth-year-student levels. Since 1967, joint programs of internship, residency, and fellowship training have been offered in conjunction with The New York Hospital and Memorial Hospital.

### **The Loomis Laboratory**

The original Loomis Laboratory, which was founded in 1886, at 414 East Twenty-sixth Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

### **The Russell Sage Institute of Pathology**

The Russell Sage Institute of Pathology has been associated with the Medical College since 1913 and was incorporated into The New York Hospital in 1932. The Institute supports work in metabolism and human genetics which is conducted by members of the Departments of Medicine and Physiology. The Medical Director of the Institute is Dr. Alexander G. Bearn, Professor of Medicine.

## **Libraries**

### **Samuel J. Wood Library**

The library of the Medical College is located on the first floor of the Samuel J. Wood Library and Research Building to the right of the 1300 York Avenue entrance at Sixty-ninth Street.

Fifteen hundred current journals are received and the total collection has reached more than 100,000 volumes. Participation in communication and library networks enables the Library to produce needed items speedily.

The library is equipped with a communications terminal linked to a computer to provide searches of the medical literature. The information and reference department receives requests for these searches. Typing and duplicating services and, most importantly, a staff willing to help are also available.

The library is open during the week from 8:45 a.m. until 11:00 p.m., on Saturdays from 9:00 a.m. until 5:00 p.m., and on Sundays from 1:00 p.m. until 11:00 p.m. The library is closed on Christmas and New Year's Day and the other holidays noted in the calendar, pp. 4-5.

### **Department Libraries**

Several departments also have libraries housing journals and books pertaining to specific areas. These collections, photocopies of materials from other libraries, including the National Library of Medicine and all major medical and academic libraries in the United States, supplement the holdings of the main library.

### The Oskar Diethelm Historical Library

Begun in 1936, the Oskar Diethelm Historical Library has grown to be an excellent collection of nearly 10,000 original works published before 1920 relating to the history of psychiatry and allied subjects. Together with a modern reference collection, the Library serves as the center of research and training activities of the section on the history of psychiatry and the behavioral sciences in the Department of Psychiatry.

## Admissions

### Requirements

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical professions, attaches particular importance to the liberal and general education implied by the acquisition of a college degree. Cornell was one of the first medical colleges in the United States to require a college degree as a standard of admission. Only the following persons will be admitted to Cornell University Medical College as candidates for the degree of Doctor of Medicine: (1) graduates of approved colleges or scientific schools or (2) seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission in this way must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. A student who fails to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill in order to qualify for admission to the study of medicine in New York State are set forth in the *Regulations of the Commissioner of Education*. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing an irreducible minimum. Only exceptional students are admitted with this minimal preparation as background.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for a student planning to study medicine. The faculty of the Cornell

Medical College recommends two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for a medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that thorough basic training in the sciences is essential. A science major should not overlook the broad educational value of work in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects that will lay a broad foundation for medical study rather than to anticipate courses required in the medical curriculum.

Each year the Committee on Admissions selects a class of ninety-one students from a group of more than 2,000 applicants. The members of the Committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, and soundness of personality that will enable them to complete satisfactorily their course in the Medical College. Moreover, a medical school must acknowledge its serious obligation to society. It must graduate only those who can be expected, with reasonable certainty, to do creditable work in medicine after graduation. The Committee on Admissions selects from all the applicants those who best seem to fulfill these requirements.

In selecting a relatively small class from a large group of well-qualified applicants, the Committee attempts to select candidates with varied backgrounds—from various geographic areas, from different socioeconomic groups, and from varying types of educational institutions. The Committee needs to satisfy itself that the applicant's scholastic record, both in courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Committee on Admis-



sions looks at each applicant as a total individual, insofar as that is possible with the information obtainable.

It is the policy of Cornell University to support actively the American ideal of equality of opportunity for all, and no student shall be denied admission or be otherwise discriminated against because of race, color, creed, religion, or national origin.

Admission policies are also in conformity with the policy of New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule, the courses given in professional schools, such as pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as adequate to fulfill the admission requirements.

### Summer Fellowship Program for Minority Students

A summer fellowship program for minority-group premedical students has the specific aim of increasing the number of minority-group students in leading medical schools. Premedical students who have completed their junior year spend ten weeks as summer Fellows at the Medical Center. They work at a variety of research activities with sponsors who are faculty members from different departments. The students in this program are involved jointly with medical students who hold similar fellowships. The Fellows receive a stipend of \$100 per week. All students are housed in Olin Hall, the medical student's dormitory. A series of seminars, scheduled twice weekly, provides information on medical careers and includes such topics as procedures for application to medical schools and means of obtaining scholarship aid. Also, students take part in a series of discussions on the health problems of ghetto communities.

Information regarding applications for fellowships and all other aspects of minority-group admissions can be obtained by writing to James Curtis, M.D., Associate Dean, Cornell University Medical College. Application should be made early in the junior year and not later than April 15.

### Application

Requests for application forms should be addressed to the Committee on Admissions, Cornell University Medical College, 1300 York Avenue, New York, New York 10021. For entrance in September, application forms are available after July 1 of the previous year.

To apply for admission, the student must accomplish the following:

1. He must complete the application form and return it to the Committee on Admissions. No application will be accepted after November 30; early application is generally advised. A nonrefundable charge of \$20 is made for filing an application. Checks or money orders should be made payable to Cornell University Medical College.

2. He must submit official transcripts of all undergraduate and graduate studies, including summer school, to the Committee on Admissions.

3. He must request that two letters of recommendation from individual faculty members who know the applicant or from the college premedical advisory committee be sent to the Committee on Admissions.

4. He must take the Medical College Admissions Test (MCAT). Information and applications may be obtained from the Psychological Corporation, 304 East Forty-fifth Street, New York, New York 10017.

Although the Committee on Admissions will attempt to notify the applicant if his application is incomplete, the responsibility for completing these requirements is the applicant's.

When a completed application has been received together with official transcripts, letters of recommendation, and MCAT scores, the Committee on Admissions reviews the application and requests personal interviews from applicants in whom it has serious interest. Because of the large number of applications, only about one-third of the applicants are invited for an interview. Any student who is attending a college at a distance from New York City, however, is invited to request an interview if he is visiting in the New York City area. In these cases, every effort will be made to arrange personal conferences with members of the Committee on Admissions. Members of the Committee also routinely visit a number of distant schools each year at which time personal interviews can be arranged. With few exceptions, all students accepted for admission to Cornell University Medical College have been interviewed personally by the Committee or its representatives.

Applicants are promptly notified of the final decision of the Committee on Admissions beginning some time after mid-December. If the Committee takes favorable action, a letter of acceptance is forwarded to the applicant, who has two weeks either (1) to hold a place in the class in order to make a final decision at a later date, but not later than March 1, or (2) to accept a place in the class by sending a deposit of \$50. This deposit is not refundable after March 1 but is credited toward the first tuition payment.

### Advanced Standing

When vacancies occur, students may be admitted to advanced standing. Applications for a place in one of the upper classes should be filed according to the procedure described for admission to the first-year class. Applicants who are accepted are required to make a deposit of \$50. Candidates seeking admission to advanced standing must furnish evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class which they wish to enter. In addition, these candidates must have completed the conditions of admission to the first-year class at Cornell University Medical College. These applicants must present a certificate of honorable dismissal from the medical

school, or schools, they have attended, and they may be required to take examinations in any of the medical courses taken in another school.

Although a certain number of students are regularly admitted from other institutions to enter the third-year class at Cornell University Medical College, rarely have students been accepted to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to appear before the clinical departments for a thorough examination before final action is taken on their applications.

### Special Students

*All students not registered in the Cornell University Graduate School of Medical Sciences and not registered for the M.D. degree are special students.*

Such students are *special students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises. There is a matriculation fee of \$10 and an administration fee of \$5. Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

## Educational Policies and Plan of Instruction

The Medical College is divided into seventeen departments. Seven of the departments are primarily concerned with the sciences underlying clinical medicine; they are the Departments of Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, Physiology and Biophysics, and Public Health. Ten departments have as their major function the study, treatment, and prevention of human diseases, and maternity care. They are the Departments of Anesthesiology, Medicine, Neurology, Obstetrics and Gynecology, Ophthalmology, Otorhinolaryngology, Pediatrics, Psychiatry, Radiology, and Surgery.

The heads of major departments together with the president of the University and the dean, constitute the executive faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. The courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation with the degree of Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regu-

lar medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine who are not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study in the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one year, and often many more years, of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not a requirement for graduation, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of great technical proficiency in the various special fields of clinical medicine is not expected during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, neural sciences, and introductory medicine, including the basic elements of physical examination, interviewing techniques, and the sociological determinants of disease. Clinical conferences are presented in these courses to illustrate the application of the basic sciences to clinical medicine. A series of weekly interdisciplinary sessions explore a wide range of medical topics, again emphasizing the interrelationships of the basic sciences to each other and to clinical medicine.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third-year class meets one hour daily for clinical lectures and demonstrations.

**Elective Time.** In addition to scheduled free time in the curriculum of the first three years, the summers following the first and second years are free and may be used to acquire or to further experience in investigative work if a student wishes.

**Third-Year Curriculum.** Clerkships of seven to twelve weeks' duration in the forty-five week



(September through July), third-year curriculum provide a sound basic introduction to all the major clinical fields. When a student has completed this clinical "core" curriculum, he is sufficiently acquainted with the various clinical specialties to have identified his primary areas of interest, both in the clinical and basic science fields. Accordingly, he is prepared to plan an educational program for his final medical school year which is best suited to his interests and needs.

**Fourth-Year Curriculum.** The fourth-year program is entirely elective. Thirty-five weeks long, it is divided into elective periods which match the modules of the third year. This enables students who have sound educational reasons to defer certain modules of the third-year core curriculum until the final year.

In the spring of the third year each student chooses a senior faculty member as an adviser to help him in planning his fourth-year program. Numerous elective opportunities available in The Cornell Medical Center are described in the *Catalog of Electives*. Other electives in The Center or in other educational institutions may be arranged with the approval of the student's elective adviser.

**Summer Fellowships.** Several fellowships paying a stipend of \$750 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

**One-Year Research Fellowships.** Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

### Coordinated Doctor of Medicine and Doctor of Philosophy Programs

In association with the Cornell University Graduate School of Medical Sciences, the Medical College offers a coordinated M.D.-Ph.D. degree program through which selected applicants may satisfy requirements for both degrees in a minimum of six years. Although medical students may be admitted to the program at any time during their regular medical education, interested applicants should apply for admission to the Graduate School of Medical Sciences at the same time that they apply for admission to the Medical College.

Under the coordinated program, a student generally completes the first two years of the pre-

clinical curriculum in the basic sciences, after which he may spend two years as a full-time graduate student in one or more of the eleven biomedical fields in which a Ph.D. degree program is offered. By satisfactorily passing a special examination administered by the Graduate School of Medical Sciences on the basic sciences taken during the first two years, the student can also have transferred a maximum of two units of residence credit (the equivalent of one year) from the Medical College to the Graduate School.

By another approach to the coordinated M.D.-Ph.D. program, a medical student may complete the first three years of the required M.D. curriculum and, having successfully applied for admission to the Graduate School of Medical Sciences during the third year, may complete the fourth elective year toward the M.D. degree while matriculated and in residence in the Graduate School of Medical Sciences as a candidate for the Ph.D. degree. Under this plan, the student will receive the M.D. degree at the end of the fourth year, and he will have earned two units of residence credit during this fourth year toward the Ph.D. requirements. In addition, the student is eligible for transfer of a maximum of two units of residence credit to the Graduate School of Medical Sciences if he performs satisfactorily on a special evaluation examination.

For further information, refer to the *Announcement of the Graduate School of Medical Sciences*.

## Advancement and Examination

The medical curriculum is divided into four successive academic years, each of which builds upon the subject material of the preceding year. A student must complete all of the course work of one academic year before he can be approved for advancement by the faculty. Any student, who, by quality of work or by conduct, indicates an unfitness to enter the medical profession, may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the end of each academic term, examinations are normally given in all of the courses of that term. Final examinations are usually given at the conclusion of courses which extend for more than one term. A student's final rating in a course is determined by his performance in all of the course work and includes an evaluation of his effort, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of examinations.

A final rating is made for each student at the end of the academic year based on the results of his performance in all of the courses in the curriculum of that year. These final ratings are made by formal action of the faculty after review of recommendations of the committee on promotion and graduation. The faculty finally rates students into one of four groups:

1. *Passed.* Students with no encumbrances in any subject are recorded as "passed." This rating confers eligibility for readmission into the

Medical College in the next higher class, unless by reason of serious psychological or moral problem the faculty considers the student unsuited for the medical profession.

2. *Conditioned.* Students who fail any required courses are recorded as "conditioned." A "conditioned" student may be reexamined only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Make-up work and reexaminations will be given during the summer in the case of first- and second-year students. If a student fails a reexamination, he may be permitted to enter the next higher class if the failed material can be repeated at the same time. If the failure involves a course that cannot be fitted into his program, the student will be required to repeat the year. Students with failures in two courses after reexamination will be required to repeat the year.

All elective courses must be passed. An elective that is failed must be made up and the student reevaluated by the faculty member in charge of the course.

3. *Not passed.* If after reexamination a student has failures in three required courses in any one year, he is recorded as "not passed." A rating of "not passed" carries ineligibility for readmission to the Medical College.

4. *Special Review.* Students with uniformly low grades in most courses for two or more years are subject to special review by the faculty. Students with a record of this kind may be deemed unqualified to enter the medical profession and ineligible for readmission to the Medical College.

At the close of every academic year, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

## Requirements for Graduation

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the president and trustees of Cornell University for the degree of Doctor of Medicine.

## Examinations for Medical Licensure

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

## Fees and Expenses

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room D-07, 1300 York Avenue, New York, New York 10021. Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.

### Application Fee

A charge of \$20 is made for reviewing each application.

### Acceptance Deposit

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee of \$50 is paid. The fee is credited toward the tuition charge and is not refundable if the student fails to enter.

### Tuition

Tuition for one academic year is \$2,400 (as of July 1971). It is payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth-year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance. The following are included in the tuition fee:

1. Matriculation Fee.

2. Student Hospitalization Insurance. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

3. Personnel Health Service. (See p. 23).

4. Graduation Fee and Rental Fee for cap and gown for graduation exercises.

### Books, Instruments, and Microscopes

The average cost of books and instruments is distributed approximately as follows: first year, \$275; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. The instrument should have scanning (3-5  $\times$ ), low-power (10  $\times$ ), and medium-power (40  $\times$ ) dry objectives. It is important that the coarse adjustment of the scope permit a clearance of at least 30 mm between the 10  $\times$  objective and the stage. The scope should also be equipped with a well-working oil immersion system. The oil immersion objective, substage condenser, and light source should produce sharp images of good resolution in a well-illuminated viewing field. Arrangements can be made to purchase a microscope from the College Book Store after arrival if the student desires. Monocular microscopes are available for rental at \$35 to \$50 a year. Anyone wishing to rent one should write to the Office of Admissions to make reservations as early as possible.

## Financial Aid

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and loans.

### Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the admissions committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Financial Aid.

**Vivian B. Allen Scholarship.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid

needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

**The Siegfried and Josephine Bieber Scholarship Fund.** The income from the endowment, given by Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

**The Lois and Max Beren Foundation** will award a scholarship to a promising student accepted for admission at Cornell University Medical College in an amount to be determined by consultation between the College and the Foundation. The student shall be selected by the College subject to the approval of the Foundation, and may be a candidate for either the Ph.D. or M.D. degree. It is the desire of the Foundation to assist a student who possesses great eagerness to pursue his studies but who would find it impossible or impracticable to do so without the financial support of the Foundation.

**The John V. Bohrer Scholarship Fund** was established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer. Scholarships from this fund are awarded to students "who express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

**The Lucien and Ethel Brownstone Merit Medical Scholarship.** Generous gifts of \$80,000 each to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four-year scholarship to one or two students. The donors hope to "stimulate the most innately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award was made in 1968.

**The Mary E. C. Cantle Scholarship Fund.** The income from this fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.

**The Lillian M. Charles Scholarship Fund.** The income from this fund, which was established by a generous gift from Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

**The Coppermines Foundation Scholarship.** Endowed by a generous gift from the Coppermines Foundations, Inc., the fund provides financial assistance for needy and worthy students.

**Dr. Harry Eno Scholarship Endowment.** Established in 1955 by the gift of Dr. Harry Eno, the

income from this endowment provides scholarships for needy and worthy students in the Medical College.

**The Equitable Life Assurance Society Grant.** A \$5,000 grant is made annually by the Society to provide scholarships for students who are in need of financial aid.

**The Jeremiah S. Ferguson Scholarship** was established in memory of Jeremiah S. Ferguson, who, throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000 and the income from it is awarded annually by the Committee on Financial Aid to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid and who, by their conduct and scholarship, have proved worthy investments.

**The Joseph P. Ferrigan Fund.** The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

**The Wallace D. Garrabrandt Scholarship,** established by Mabel G. Gormley, is awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

**The Judge and Mrs. Samuel Jordan Graham Memorial Scholarship Fund,** established by a bequest from the estate of E. Norman P. Graham, provides scholarship assistance for deserving students of the Medical College.

**Connie Guion Scholarship.** Providing annual tuition for a student of the Medical College, this scholarship was established by Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

**Mary F. Hall Scholarship.** The income from a fund established by bequest of Miss Mary F. Hall is available to any woman student in Cornell University Medical College who needs its aid, who is a bona fide resident of the state of New York, and was such prior to admission to the College.

**Lawrence W. Hanlon Scholarship Fund.** This fund was established in memory of Dr. Lawrence W. Hanlon, who had given twenty-five years to the service of the Medical College. In the last fifteen of those years, he was associate dean and, in that role, did as much as any one person ever has to shape the lives and careers of the students. Contributions from his associates and friends make this fund possible.

**Health Professions Scholarship Program.** At the present time the Health Professions Scholar-

ship Program, administered by the Public Health Service of the U.S. Department of Health, Education, and Welfare, contributes approximately \$16,000 per year for each enrolled class. Individual awards may not exceed \$2,500 per year, and all awards are based on demonstrated financial need.

**The Dr. John A. Heim Scholarships.** This fund which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated medical students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible.

**Maier and Shantsya Hitzig Scholarship.** Through a gift of \$5,000, Dr. William M. Hitzig '29 established this scholarship in memory of his father and mother. The income is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

**The Dr. Edward Hoenig Scholarship Fund** was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40 in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

**The Ruth Hollohan Scholarship Fund** was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is used for scholarships in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

**Elizabeth and Neill Houston Scholarship Fund.** The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

**The Dr. Charles I. Hyde '10 and Eva Hyde Scholarship Fund.** Established in memory of their daughter, Anita Shirley Hyde, this endowment provides that income be available annually to meritorious students who have completed one year of the regular medical course and who are in need of assistance.

**The Mary Putnam Jacobi—Anna Forrest Rowe Scholarship.** A bequest from William Vincent Rowe endowed this fund. The income provides assistance, preferably for women medical students.

**The Dick Katzin M.D. Scholarship Fund** was established in 1966 by Dick Katzin '65. The income will be used to give financial aid to needy students.



**Samuel Farrar Kelley M.D. Scholarship Fund.** Endowment for this fund was given by Mrs. Lillian E. Kelley in memory of her husband. Support from this fund is available to students in good standing who need financial assistance.

**The Elise Strang L'Esperance Scholarship,** established by a bequest from Dr. L'Esperance, provides financial assistance for women students at Cornell University Medical College.

**The Dr. Thomas Lowry Scholarship Fund** was established by Dr. Elizabeth C. Lowry, a member of the class of 1935, in memory of her late husband, Dr. Thomas Lowry, who was also a member of that class. The income is to be used to provide financial assistance to women students in the Medical College. If in any year there is no woman student in need of such assistance, the income available may be awarded to a woman candidate for a Ph.D. in the Graduate School of Medical Sciences.

**The 1936 John and Katherine Mayer Scholarship Fund** of \$5,000 was established in 1936. The income is available annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be utilized for research work or other projects as determined by the faculty or trustees.

**The 1939 John and Katherine Mayer Scholarship Fund** of \$5,000 was established in 1939. The income is available annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be used for research work or other projects as determined by the faculty or trustees.

**The Dr. George A. and Nora W. Newton Scholarship** provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Committee on Financial Aid on the basis of high scholarship and character.

**New York Community Trust Scholarship.** These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "scholarship assistance to needy and overburdened medical students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

**The Evelyn Buckalew Ochester and Charles W. Ochester Memorial Scholarship Fund.** This permanent endowment fund was created by Alfred

J. and LeMoine R. Buckalew in memory of their sister, Evelyn Buckalew Ochester, and her husband, Charles W. Ochester. Income from the fund is used to provide financial assistance or incentive recognition awards to worthy students who are in need.

**Dr. E. Cooper Person Memorial Scholarship Fund.** Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

**The Pfizer Laboratories Scholarship.** The amount of \$1,000, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.

**The John Metcalf Polk Scholarship.** A gift under the will of William Mecklenburg Polk, the first dean of the Medical College, is awarded annually by the faculty.

**Fund for Training in Psychiatry.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

**The Thomas Rennie Scholarship Fund.** Friends of the late Dr. Rennie, professor of social psychiatry, have set up a fund; a portion of the income is available to students interested in carrying out research work in social psychiatry.

**The Anna E. Ray Robinson Education Fund.** The income from this fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for medical students. A preference is to be given to descendants of Anna E. Ray Robinson and her husband.

**The Dr. Jacques Saphier Scholarship Fund** was established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., U.S.N.R.), Class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The income is awarded annually to a meritorious student of Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

**The Carl J. Schmidlapp Memorial Fund** was established by Dr. Jean Schmidlapp Humes '49 in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income is awarded

annually to a deserving student in any class of Cornell Medical College selected by the faculty on the basis of need and ability.

**The Thorne Shaw Scholarship Fund** provides three scholarships. One scholarship is available to students after at least two years of study in the Medical College and two scholarships are available to students after at least one year of study in the Medical College.

**The Robert E. Speno Scholarship Fund** was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a room-rent scholarship.

**The Charles Rupert Stockard Scholarship.** A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-39. The interest from this fund is to be awarded either to one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that Department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the Department of Anatomy.

**The Walter C. Teagle Scholarship Fund,** established July 1, 1963, by The Teagle Foundation, Inc., is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is the desire of the Directors of the Foundation that each student given an award be urged—but in no sense required in a legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

**The Leona E. Todd Scholarship.** Under the terms of the will of Alzina T. Elliott, a scholarship fund is available to women students in the Medical College.

**The Weld Fund Scholarship.** Established by David and Mary Blake Weld, the income from this fund provides scholarship assistance for needy students who are in good academic standing.

**The Philip G. Woodward Scholarship Fund.** The income from this fund, which was established by a bequest to The Society of the New York Hospital from Philip G. Woodward, is available to be used for Philip G. Woodward Scholarships, to be awarded to third- or fourth-year medical students of the Cornell University Medical College who have demonstrated interests, initiative, and ability in the fields of psychiatry, neurology, and/or behavioral biology.

**Mary Louise Wuester Scholarship.** The income from this fund, which was established in memory of his mother by Dr. William O. Wuester, is awarded annually to a regularly matriculated medical student of good scholarship who is in need of financial aid.

#### New York State Scholarships for State Residents

Information about scholarships for New York State residents may be obtained by writing to the Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

**Scholar Incentive Program.** Applications should be filed before July 1 for each academic year but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. Annual application is required.

**Regents Scholarships for Graduate Study in Medicine and Dentistry.** Applications should be filed by October of the last year of preprofessional study.

#### Bursary for Women Students

**The Marie and John Zimmerman Fund.** A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms: "It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession." The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

#### General Aid

**The Benjamin T. Burton Memorial Fund** has been established through the bequest of Benjamin T. Burton, long-time friend of Cornell University Medical College and a member of the class of 1922, Cornell University. It was his wish that these funds be used for any purpose that the dean of Cornell University Medical College deems to be in the best interest of the students.

#### Loan Funds

**The 1923 Loan Fund.** The income from this fund is available as a loan to a student needing financial assistance.

**Alumni Association Loan Funds.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses through the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from



these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

**Student Loan Fund.** A revolving fund contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits. Students are required to clear themselves of all indebtedness to the College, with the exception of formal loans, before graduation.

**Joseph C. Hinsey Loan Fund.** Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

**Federal Loan Fund.** The Medical College has participated with the Department of Health, Education, and Welfare in establishing a Health Professions Student Loan Fund, pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963. Loans up to \$2,000 may be made yearly if justified by financial need. Interest is not charged until three years after graduation and then is assessed at the federal interest rate current at the time the loan was made. Loans are to be repaid during a ten-year period beginning three years after graduation.

**Lawrence W. Hanlon Student Loan Fund.** This fund was established by the Medical College in memory of Dr. Lawrence W. Hanlon, associate dean in charge of students, who died in 1970. Dr. Hanlon devoted his life to the welfare of the students at the Medical College, and this fund is designed to help continue his good work.

#### **New York State Guaranteed Loans for State Residents**

Students seeking New York State guaranteed loans should apply to the New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

#### **Prizes**

**The Mary Aldrich Fund.** In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writ-

ing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

The Prizes for 1971 were awarded to John A. Kessler and John J. Janick.

**The Clarence C. Coryell Prize in Medicine** was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The Prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

For 1971 this Prize was awarded to Henry A. Pitt.

**The Clarence C. Coryell Prize in Surgery** was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The Prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

**The Sarah O'Loughlin Foley Prize in Clinical Medicine.** Dr. William T. Foley, clinical associate professor of medicine and a member of the class of 1937, established this annual prize in memory of his mother. The recipient, a member of the graduating class, is selected for excellence in clinical medicine by the chairman of the Department of Medicine.

**The Good Physician Award.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "The Good Physician."

In 1971, the Award was presented to Wynn H. Hemmert.

**The Samuel Hollander Prize.** The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Financial Aid.

**Charles L. Horn Prize Fund.** The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

The Prize in 1971 was awarded to Kent R. Gamette.

**The Herman L. Jacobius Prize in Pathology** was

established in 1945 by a gift from Dr. Lawrence Jacobius and his friends in memory of his son, Dr. Herman L. Jacobius '39, who was killed in action in the Netherlands on September 28, 1944. The income is available annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction, the award will be withheld.

**The George S. Meister Prize in Pediatrics** has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was held. The Prize consists of income derived annually from a fund contributed by members of his family, his close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the Prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics.

**The Alfred Moritz Michaelis Prize for Efficiency in General Medicine.** The income is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at Cornell University Medical College.

In 1971 this Prize was awarded to Wynn H. Hemmert.

**National Foundation Merit Award.** The National Foundation offers a Merit Award of \$250 to the medical student who is judged by the Committee on Prizes in Research to have written the best thesis, or equivalent, on any subject relating to birth defects. The thesis should be submitted in quintuplicate by April 15.

**The Gustave J. Noback Memorial Fund for Advanced Study and Teaching in the Field of Anatomy.** In 1963, a second fund to honor Dr. Gustave J. Noback was established by Miss Berthe Manent to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income is to be awarded yearly at the discretion of the professor in charge.

**The Gustave J. Noback Memorial Fund in Anatomy.** Established in 1962 by Miss Berthe Manent, a graduate of the New York Hospital School of Nursing, in memory of Dr. Gustave J. Noback. Dr. Noback is remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income of this fund is to be awarded yearly, at the discretion of the professor in charge, to a student who has performed outstanding work in anatomy.

**The Arthur Palmer Prizes for Efficiency in Otorhinolaryngology.** This prize is made available from the Arthur Palmer Fund which was provided by the members of the Division of Otolaryngology in honor of Dr. Palmer. The prize is given to the student in the graduating class who makes the best record in this specialty.

In 1971 Prizes were awarded to W. Robert Brinton and Stephen W. Burke.

**The John Metcalfe Polk Prizes for General Efficiency.** Three Prizes are given in commemoration of John Metcalfe Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The Prizes are presented at the end of the fourth year to the three students who have the highest academic standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

For 1971, the Prizes were awarded to Arnold W. Cohen, Wynn H. Hemmert, and Henry A. Pitt.

**The Gustav Seeligman Prizes for Efficiency in Obstetrics.** Two prizes, endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics.

In 1971 the Prizes were awarded to Julian Bindler and Arnold W. Cohen.

**The Sondra Lee Shaw Memorial Fund.** The fund supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the medical student who has produced an outstanding research paper in the fields of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes in Research.

The Award for 1971 was presented to Paul A. Bunn, Jr.

**The Mitchell Spivak Memorial Prize in Pediatrics.** Various donors contributed to the endowment for this Prize as a memorial to the father of Jerry L. Spivak, class of 1964. The Prize is awarded annually to the member of the graduating class who has made the best record in pediatrics.

In 1971 the Prize was awarded to Michael P. Weinstein.

**The T. Campbell Thompson Prize for Excellence in Orthopedic Surgery.** A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

In 1971 the Prize was awarded to Russell J. Vergess.

**The William C. Thro Memorial Fund** was established in memory of William C. Thro '01 whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is given to the student who attains the best record in the clinical pathology course. The candidate for the prize is recommended by the Professor of Clinical Pathology.

**The Upjohn Achievement Award.** This annual award to a member of the graduating class is given in recognition of outstanding achievement in research. Consisting of a cash award and a plaque, the Award is supported by the Upjohn Company.

The Award for 1971 was presented to Ronald F. Altman.

**The Anthony Seth Werner M.D. Memorial Prize** was established by Dr. Aaron S. Werner to honor the memory of his son, Dr. Anthony Seth Werner, who was an assistant professor in the Department of Medicine at the time of his death in 1968. The Prize is awarded annually to a member of the graduating class for excellence in the study of infectious diseases.

In 1971 the Prize was awarded to Henry A. Pitt.

**The Harold G. Wolff Research Prize** is presented in memory of the late, famed chief of neurology at The New York Hospital-Cornell Medical Center, Dr. Harold G. Wolff. The Prize consists of a cash award and a selection of the writings which represents Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Prize for 1971 was awarded to Roger Pancoast Simon.

## Named Professorships

The following are the endowed, named professorships at Cornell University Medical College.

**The James J. Colt Professorship of Urology in Surgery** was established in 1970 through a gift from the James J. Colt Foundation. The first and present occupant of this chair is Dr. Victor F. Marshall, who is surgeon-in-charge of the James Buchanan Brody Urological Foundation at The New York Hospital.

**The Livingston Farrand Professorship of Public Health and Preventive Medicine**, established in 1944 upon receipt of a gift from the Milbank Memorial Fund and the Rockefeller Foundation

Fund, is named for Livingston Farrand, who was the president of Cornell University at the time The New York Hospital-Cornell Medical Center was organized. The first and current occupant of the chair is Dr. Walsh McDermott, chairman of the Department of Public Health.

**The Given Foundation Professorship of Obstetrics and Gynecology** was established in 1963 with funds from Irene Heinz Given and the John La-Porte Given Foundation. The Foundation's gift was designed to provide endowed support for the chairman of the Department of Obstetrics and Gynecology. Dr. Fritz Fuchs, present occupant of the chair, has as his principal research interest the endocrinology and physiology of human reproduction.

**The Roland Harriman Professorship of Cardio-Vascular Medicine** was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The first and present occupant of the chair is Dr. Thomas Killip III, head of the Division of Cardiology in the Department of Medicine. Dr. Killip, a 1952 graduate of the Medical College, has specialized in research studies aimed at reducing mortality from myocardial infarction.

**The Hilda Altschul Master Professorship** was established in 1971 in memory of the late Mrs. Master, who was the wife of Dr. Arthur M. Master '21. Endowment of the chair is made possible by gifts from Dr. Master, Mr. Arthur M. Master, Jr.; Mrs. Herbert H. Lehman, sister of Mrs. Master; and the Overbrook Foundation, whose president is Mr. Frank Altschul, Mrs. Master's brother. The first occupant is Dr. Edward H. Ahrens, Jr., professor at Rockefeller University as well as professor of medicine at Cornell University Medical Center.

**The Barklie McKee Henry Professorship of Psychiatry**, established in 1968, honors the memory of the late Mr. Henry, who was president of The Society of the New York Hospital in 1940 and a moving force in the development of The New York Hospital-Cornell Medical Center's Department of Psychiatry into the eminent treatment, research, and teaching unit it is today. Dr. William T. Lhamon, chairman of the department and professor of psychiatry since his appointment at Cornell in 1962, is the first occupant of the chair.

**The Joseph C. Hinsey Professorship of Anatomy**, established in 1966 upon receipt of a gift from Nicholas Noyes, is the only professorship named for a living member of the faculty. A former dean of Cornell University Medical College, Dr. Hinsey was director of the Center until his retirement in 1966. He is an emeritus professor in the Department of Anatomy of the Medical College. The first and present occupant of this chair is Dr. Roy C. Swan, a 1947 graduate of the Medical College, who has been professor of anatomy and chairman of the Department since 1959.

**The Israel Rogosin Professorship of Biochemistry** was established in 1965 when Mr. Rogosin made a substantial gift to The New York Hospital-Cornell Medical Center's Fund for Medical Progress. Dr. Vincent du Vigneaud, who received the Nobel Prize in chemistry in 1955, was Cornell's first Israel Rogosin Professor. The chair has been held since Dr. du Vigneaud's retirement in 1967 by Dr. Alton Meister, current chairman of the Department of Biochemistry, whose research centers on the chemistry and intermediary metabolism of amino acids.

**The Lewis Atterbury Stimson Professorship of Surgery** was established in 1935 by an anonymous gift presented to the Medical College in memory of Dr. Stimson, who was Cornell's first professor of surgery. A second gift was added to the endowment in 1944 by the late Candace C. Stimson, Dr. Stimson's daughter. The present Lewis Atterbury Stimson Professor of Surgery is Dr. C. Walton Lillehei. He succeeded Dr. Frank Glenn upon Dr. Glenn's retirement in 1967.

**The Anne Parrish Titzell Professorship in Neurology** was established in 1958 by a substantial gift from a grateful patient of the late Dr. Harold G. Wolff, head of neurology at The New York Hospital-Cornell Medical Center from 1932 until his death in 1962. Dr. Wolff's successor to the chair is Dr. Fred Plum, current chairman of the Department of Neurology.

**The Maxwell M. Upson Professorship of Physiology and Biophysics**, established in 1970, honors the memory of Mr. Upson who had been a member of the Cornell University Board of Trustees for thirty-five years. The first and present occupant of this chair is Dr. Robert F. Pitts, who has been chairman of the Department of Physiology and Biophysics since 1950.

In addition to the professorships described above, a chair, occupied by Dr. Alexander G. Bearn, chairman of the Department of Medicine, has been endowed by Mr. Rogosin but not yet named.

**The William D. Stubenbord Visiting Professorships** were established in 1968 with an endowment from the Louis Calder Foundation "in memory of Louis Calder, Sr., and Louis Calder, Jr., and in recognition of the outstanding professional services and long friendship of William D. Stubenbord '31 for them and members of their families." The departments of the College will, in rotation, be host to visiting scholars. Each visiting professor will reside at the College for approximately one week and in that time will deliver a special lecture and hold seminars with faculty and students.

## Form of Bequests

The Society of the New York Hospital is associated with the Cornell University Medical Col-

lege, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$..... for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to The Society of the New York Hospital, the sum of \$....."

If for the Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$....."

## Honorary Societies

### Alpha Omega Alpha

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship and satisfactory moral qualifications. It was organized at the College of Medicine of the University of Illinois, Chicago, on August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1971 were Alan S. Bahler, Richard S. Bailyn, Francis J. Bia, Paul A. Bunn, Stephen W. Burke, Arnold W. Cohen, James R. Cohen, Jay G. DuBois, Jeanette A. Easton, Robert D. Gordon, Wynn H. Hemmert, Ronald S. Kahan, David R. Kalifon, Henry A. Pitt, Robert L. Protell, Louis E. Rambler, Peter G. Sohnle.

### Sigma Xi

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of



Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

## Alumni Association

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year except for members of the three most recent graduating classes, whose dues are \$3 a year. The activities of the Association include an annual reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The Association maintains an office in Room C-140. An annual appeal for unrestricted funds for the Medical College is made to the members of the Association.

### Officers

Albert L. Rubin '50, President  
Walter F. Riker, Jr., M'43, Vice President  
Frederic T. Kirkham, Jr., '47, Secretary  
George R. Holswade, D'43, Treasurer  
William A. Barnes '37, Chairman, Medical College Fund

### Directors

*Three-year term:* Irving S. Wright '26; John T. Queenan '58  
*Two-year term:* C. Stephen Connolly '59; George E. Eddins, Jr., '45; Alexander G. Reeves '63  
*One-year term:* Lawrence Scherr '57  
*Executive Secretary:* Carol Ashley Becker

### Editorial Board of the *Alumni Quarterly*

Lawrence Scherr '57, Editor  
Irwin Merkatz '58, Associate Editor  
Arthur H. Hayes, Jr. '64, Associate Editor  
Ari Kiev '58, Associate Editor  
Marvin Raeburn, Managing Editor  
William W. Goodhue '70, Graduate Student Editor  
Gene Resnick, Student Editor

## Military Advisers

The following members of the faculty are available to students for consultation on the program offered by the various military units:

E. Lovell Becker, Professor of Medicine (Air Force)  
Carl A. Bernstein, Clinical Assistant Professor of Medicine (Navy)  
August H. Groeschel, Assistant Professor of Public Health (Army)  
Paul A. Skudder, Clinical Associate Professor of Surgery (Coordinator of the Medical Education for National Defense Program)

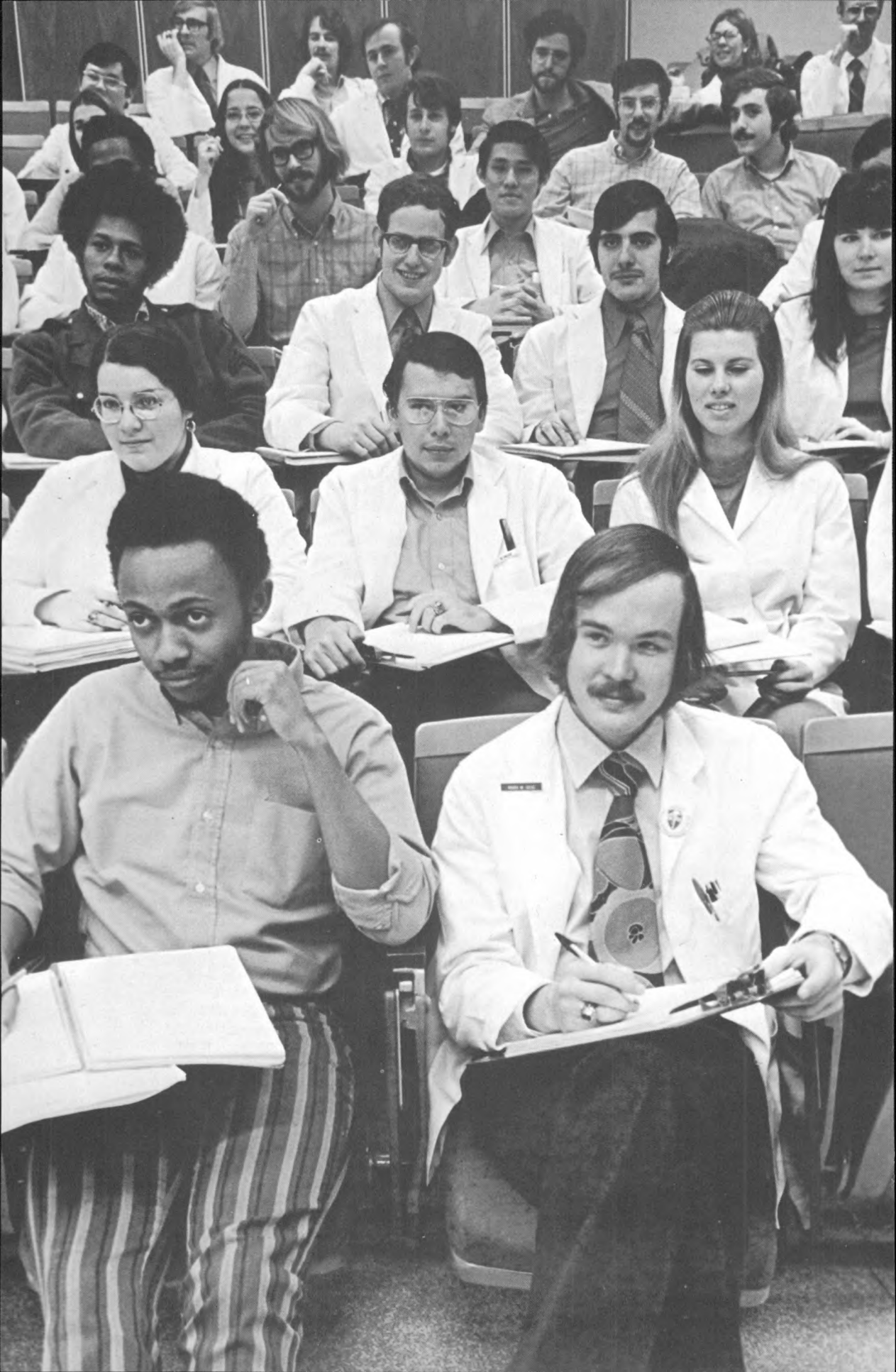
## Personnel Health Service

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination which is given by a member of the Health Service staff. In addition, each student must have a chest x ray, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any x rays, laboratory tests, or similar procedures when they are needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance, unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of the insurance for each student is included in the tuition. Those students who wish to enroll their wives and families in the insurance program may do so by paying an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the Health Service staff. All cases of illness must be reported to Health Service. Students may have in attendance physicians of their own choice, but cooperation between such physicians and the Health Service is expected. Wives and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care.

## Residence Halls

F. W. Olin Hall, a student residence completed in 1954, is at 445 East Sixty-ninth Street, directly across from the Medical College entrance on York Avenue. Olin Hall contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt Jr. Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since two rooms share a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Student rental for an academic year is \$690; for a full year (twelve months), \$820; and for periods of less than an academic year, \$70 per month. Several cafeterias are available in the main college and hospital buildings.

There are a limited number of apartments available through the Medical College for married students.





# Departments of Instruction

## Anatomy

### Professors

Roy C. Swan, Joseph C. Hinsey Professor of Anatomy, Chairman; Dorothea Bennett; Dana C. Brooks; John MacLeod; Leonard L. Ross

### Associate Professors

Michael D. Gershon; Wilbur D. Hagamen; Thomas H. Meikle, Jr.; Julio L. Sirlin

### Clinical Associate Professor

James L. German III

### Assistant Professors

Caleb E. Finch; Fakhry G. Girgis; Martin D. Hamburg; Toby C. Rodman; John C. Weber

### Visiting Assistant Professor

David Soifer

### Clinical Assistant Professor

George Stassa

### Instructor

Anthony Paparo

### Research Fellows

A. R. Sadik Al-Monojim; Rosemary F. Bachvarova; Gerald Doohar; D. Russell Pollard; Martha Spiegelman

### Assistants

Karen Artzt; Ricardo Calvo; Marie Caserta; Victor DeLeon; Carol Dyer; Lorraine Flaherty; Shelley Gordon; Ellen Goldberg; Barry Kaplan; Myron Pawliw; Taube Rothman; Bonnie Shubart; Roger W. Soller; Meryl Steinberg; Jacqueline Winterkorn

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is: What are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations? This is the substance, and this is the unique aspect of biological systems which constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved,

how these principles have been established, and what the outstanding questions are. The student is provided with firsthand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into three courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural and functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors in each course. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

## Basic Courses

**Microscopic Anatomy and Development.** Selected concepts of fine structure, the mechanisms by which structure develops, differentiates, and ages, and the genetic control of these mechanisms are presented in lectures to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x-ray diffraction analysis, and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. Hours, 165.

**Gross Anatomy.** Regional anatomy is studied principally through dissection of the human body.

## 26 Anesthesiology

Supplementing this are prosecutions by instructors, tutorial group discussions and radiographic and endoscopic demonstrations. Hours, 165.

**Neuroanatomy.** The gross and microscopic structure of the brain and spinal cord is taught in an interdepartmental course in neuroscience in cooperation with the Departments of Neurology and Physiology. Lectures correlate the structure, function, and clinical significance of the principal concepts of the nervous system. Opportunity is provided in laboratory for gross dissection of the preserved human brain and for study of serial histological sections of the human brain in three different planes. The effects of stimulation and interpretation of specific neural pathways are demonstrated in experimental animals. Hours, 84.

### Elective Courses

**Graduate Genetics Seminar Course.** Fall, 1971: The Genetic Material. Spring, 1972: Biology of RNA. Drs. Bennett, Cleve, and German.

**Clinical Anatomy.** Each week throughout the first trimester in a one-hour conference, a patient will be presented whose case illustrates the application of anatomical concepts. Following each case presentation the concepts will be discussed in depth. Dr. Swan. Weeks, 11.

**Clinical Anatomy of the Extremities and Back.** This course is intended to supplement the core course in covering regions of the body not included in the core course. It will include a one-hour radiographic anatomy conference, a one-hour clinical case presentation with applied anatomy and three hours of dissection distributed through the week during the second trimester. Drs. Girgis, Inglis, Stassa, and Swan. Weeks, 11.

**Radiographic Anatomy.** A weekly conference throughout the first trimester, demonstrating with modern radiographic methods regional and systemic structural and functional relations and their clinical application. Dr. Stassa. Weeks, 11.

**Current Trends in Molecular Biology.** Concepts introduced in the course in microscopic anatomy and development will be explored in greater depth. Dr. Sirlin. Weeks, 11.

**A Review of Dissection.** (Students should arrange to work in pairs.) Dr. Swan. Weeks, 11.

**Gross Anatomy for Graduates.** Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

**Advanced Study and Research.** Opportunities for first- and second-year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students who are considering careers in preclinical science and who wish to interrupt their medical studies at the end of their second and third years to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

## Anesthesiology

### Professors

Joseph F. Artusio, Jr., Chairman; William S. Howland

### Clinical Professors

Benjamin E. Marbury; Marjorie J. Topkins; Alan Van Poznak

### Associate Professor

Olga Schweizer

### Assistant Professors

Rita M. Jacobs; Gail M. Ryan

### Clinical Assistant Professors

Herbert L. Erlanger; Anita H. Goulet; John G. Halvorstam; Aileen F. Kass; David Susman

### Clinical Instructors

Helen M. Bacanovic; Leslie L. Balazs; Raymond G. Barile; Dragan Borovac; John S. L. Chen; Gabriel G. Curtis; John L. Fox; Carolyn Greenberg; Charles Lomanto; Louis J. Maggio; Carol M. Rothman; Jerold Schwartz; Liebert Turner; Judith K. Weingram

### Fellows

Harry I. Brown; Myunghwan Chang; Enrique J. A. Garcia; Rahmo Hanono; Dennis John Jascott; Moon Young Kim; Mohan H. Kulkarni; Romeo Laurente; Ronald A. Leff; Erlina Lobrin-Farcon; Mounir S. Matar; Mieczlaw Midura; Luis da Grace Miranda; Bong Hee Park; Sotjmil V. Petkov; Susan J. Restituto; Fe Luna Rosas; Fikry K. Shihata; Anna Stanec; Sheldon H. Steinbach; Dragan Vuckovic

## Second Year

The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are considered not only as depressants of the central nervous system but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. The Department also assists in the teaching about drugs which affect respiratory mechanisms. It participates in lectures, laboratory demonstrations, and student seminars.

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society of Anesthesiologists. In this experience, students spend time in the operating rooms and laboratories seeing how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

## Third Year

Anesthesiology is taught during seminar-discussion periods. Subjects covered are: history of anesthesia; the anesthetic state and preanesthetic medication; pharmacology of general anesthetic agents; maintenance of breathing for patients in coma, resuscitation; balanced anesthesia; the muscle relaxants; adjuvants; hypotensive drugs; hypothermia techniques; effect of anesthesia in patients with cardiovascular disease; recent advances in anesthesia for injured patients; techniques for local and regional anesthesia.

## Fourth Year

A clinical program of four or eight weeks either in the New York Hospital or in Memorial Hospital is offered to fourth-year students. The student is assigned to an attending anesthesiologist, whom he assists during preoperative visits, administering anesthesia, and in postoperative and recovery care. Teaching emphasis is placed on respiratory physiology, therapy, and resuscitation. The student is given increasing responsibility during the elective period.

A four- or eight-week laboratory research program under the direction of Dr. Alan Van Poznak is also available. It offers experience in research methods in the study of anesthetic agents. Other research projects are offered at Memorial Hospital under the direction of Dr. William Howland.

## Biochemistry

### Professors

Alton Meister, Israel Rogosin Professor of Biochemistry, Chairman; Aaron S. Posner; Julian R. Rachele; Albert L. Rubin (Surgery)

### Associate Professors

Roy W. Bonsnes; Jack Goldstein; Rudy H. Haschemeyer; Charlotte Ressler; Kurt H. Stenzel (Surgery); Daniel Wellner; Kenneth R. Woods

### Assistant Professors

Esther M. Breslow; George W. Dietz, Jr.; Gordon F. Fairclough, Jr.; Helena Gilder (Surgery); S. Steven Hotta; Robert R. Riggio (Surgery); Edward T. Schubert; Gabriel H. Schwartz (Surgery)

### Instructors

William Bruce Rowe; Suresh S. Tate

### Research Associates

J. Foster Betts; Norman Blumenthal; Marian Orlowski; Paul J. Tannenbaum; Toshihiko Ubuka

### Fellows

Bernard L. Brennan; Geoffrey F. Bull; J. Cheigh; David S. David; Margaret Hochreiter; Anil G. Palekar; S. L. N. Rao; Melvin L. Rueppel; Ralph Stephani; Paul Trotta; Y. Tsuda; Vaira P. Wellner

### Assistants

Barbara Brennessel; Michael Burt; Arthur J. L. Cooper; Anthony Ferrara; Nancy Freedman; Edmund Hafner; Bernard Horowitz; Mona D. Jensen; Lawrence M. Pinkus; Noel M. Relyea; Paul G. Richman; Rosemary Soave; Marilyn Stephens; Jeffrey Stevens; Laura Tarantino; Paul Van Der Werf

## Basic Course

**Core Medical Biochemistry (Biochemistry 1A).** This introductory course, given in the first trimester, is designed for medical students and includes consideration of protein and nucleic acid structure, enzymes, metabolism (of lipids, carbohydrates, amino acids, and nucleic acids), and protein synthesis. The content is similar to many one-semester college courses in biochemistry and is intended for students with little or no background in biochemistry. The course will consist of three regular lectures, one special lecture, and three conference hours each week; required reading assignments will be in the textbook *Biochemistry, The Molecular Basis of Cell Structure and Function*, by Lehninger (Worth Publishers, Inc.).

Although this is a required course, the Department wishes to encourage students who have studied biochemistry previously to take a qualifying examination. Students who pass this examination will be excused from the course. Instead, they may (1) take General Biochemistry (Biochemistry 2) as an elective course, (2) pursue an individual special study program in biochemistry under the guidance of a member of the faculty of the Department of Biochemistry, or (3) pursue a study or activity in an area of basic or

medical science approved by the student's adviser. Students who do not pass the qualifying examination will be required to take Biochemistry 1A. However, such students will be permitted to take Biochemistry 2A simultaneously. Correlations between these two courses (organization of material, textbook, examinations) facilitate such a combined program.

**Core Medical Biochemistry (Biochemistry 1B).** This course is given in the second trimester and is required of all medical students. Special topics in biochemistry will be considered with emphasis given to medically oriented subjects. There will be three hours of lectures and three conference hours per week.

## Elective Courses

**General Biochemistry (Biochemistry 2A and 2B).** This introductory course in biochemistry, designed for graduate students and qualified medical students, includes the topics listed above for Biochemistry 1A. The same textbook (Lehninger) will be used and the material in some chapters will be expanded. Biological, chemical, and physical techniques basic to biochemical research will be covered. A basic goal of the course is to achieve an understanding of the thought processes necessary to design and execute biochemical experiments, to interpret the data obtained, and to integrate the results with existing knowledge. Toward this end, detailed consideration of specific biochemical research papers will be presented for one hour each week. It is anticipated that students who have taken a college course in biochemistry will have a meaningful familiarity with about one-third of the material of this course.

**Advanced Biochemistry.** Lectures and conferences on recent developments in biochemistry, for graduate students and qualified medical students. Hours and credits to be arranged. Professor Meister and others.

**Biochemical Preparations and Techniques.** Laboratory work dealing with the isolation, synthesis, and analysis of substances of biochemical importance (enzymes, coenzymes, various metabolites, and intermediates), and study of their properties by various chemical and physical techniques. For graduate students and qualified medical students. Hours and credits to be arranged. The staff.

**Research in Biochemistry.** By arrangement with the chairman of the Department.

## Medicine

Other courses offered in advanced biochemistry are described in the *Announcement of the Graduate School of Medical Sciences* and are open to qualified medical students.

### Professors

Alexander G. Bearn, Chairman; Edward H. Ahrens, Jr., Hilda Altschul Professor of Medicine; E. Lovell Becker; William A. Briscoe; J. Robert Buchanan; Joseph H. Burchenal; Charles L. Christian; Farrington Daniels, Jr.; Ralph L. Engle, Jr.; Lawrence E. Hinkle, Jr.; Thomas Killip III, Roland Harriman Professor of Medicine; Allyn B. Ley; E. Hugh Luckey; W. P. Laird Myers; Ralph E. Peterson; George G. Reader; Sidney Rothbard; Lawrence Scherr; David D. Thompson

### Clinical Professors

Benjamin Alexander; Jeremiah A. Barondess; Vincent P. Dole; Murray Dworetzky (Allergy); Aaron

Feder; William H. Kammerer, B. H. Kean (Tropical Medicine); Neal E. Miller (Psychology); Carl Muschenheim; Ralph E. Peterson; J. James Smith; Douglas P. Torre (Dermatology); Robert F. Watson

### Associate Professors

David V. Becker; Richard S. Benua; Norman Brachfeld; Bayard D. Clarkson; Hartwig Cleve; George O. Clifford, B. Shannon Danes; Mary E. W. Goss (Sociology); Eugene L. Gottfried; Susan J. Hadley; Henry O. Heinemann; Raymond W. Houde; Norman B. Javitt; Irwin H. Krakoff; Martin Lipkin; Daniel S. Lukas; Aaron J. Marcus; Ellen McDevitt; Ralph L. Nachman; Herbert F. Oettgen; Richard B. Roberts; Brij B. Saxena (Biochemistry); Paul Sherlock; Maurice E. Shils; Gregory W. Siskind; Martin Sonenberg; Peter E. Stokes; Parker Vanamee

### Clinical Associate Professors

Seymour Advocate; Lucien I. Arditi; Samuel C. Atkinson; Lloyd T. Barnes; John L. Brown; Henry A. Carr; Aaron D. Chaves; William N. Christenson; Eugene J. Cohen; Jerome L. Covey; Thomas J. Degnan; John W. Dougherty; Robert E. Eckardt; William J. Eisenmenger; Borje E. V. Ejrup; Henry R. Erle; Arthur W. Feinberg; John T. Flynn; William T. Foley; Alvin H. Freiman; Constance Friess; William Geller; Robert B. Golbey; Keith O. Guthrie, Jr.; Leonard L. Heimoff; Richard Herrmann; Lawrence B. Hobson; Melvin Horwith; Abraham S. Jacobson; J. Harry Katz; George L. Kauer, Jr.; Frederic T. Kirkham, Jr.; Herbert Koteen; John S. LaDue; Richard E. Lee; Jerrold S. Lieberman; Mack Lipkin; Edward J. Lorenze; Klaus Mayer; Abraham Mazur (Biochemistry); Mary Ann Payne; R. A. Rees Pritchett; Jack Richard; Edgar A. Riley; William C. Robbins; Thomas N. Roberts; Bernard Rogoff; Isadore Rosenfeld; Ernest Schwartz; Arthur W. Seligmann; Richard T. Silver; Lawrence S. Sonkin; Herman Steinberg; Richard W. Stone; Alphonse E. Timpanelli; Aaron O. Wells; A. Lee Winston

### Assistant Professors

Karl P. Adler; Diana C. Argyros; Donald Armstrong; Alfred L. Aronson; Robert G. Brayton; Susan T. Carver; Morton I. Coleman; Mark Degnan; Eleanor E. Deschner (Radiobiology); Alexandra B. Dimich; George A. Falk; Niall D. C. Finlayson; Martin Gardy; Jose L. Granda; Stephen J. Gulotta; Peter C. Harpel; Arthur H. Hayes, Jr.; Joseph G. Hayes; James R. Hurley; Martin D. Hyman (Sociology); Marian Isaacs; Warren D. Johnson, Jr.; Lawrence J. Kagen; Anna Kara; Anne C. Kimball (Microbiology); Thomas K. C. King; Harvey Klein; Susan A. Kline; Charles S. LaMonte; Robert D. Leeper; Philip R. Liebson; Robert W. Lightfoot, Jr.; Stephen D. Litwin; Michael D. Lockshin; Donald Margouloff; Daniel G. Miller; John B. Morrison; Willibald Nagler; Eladio A. Nunez (Physiology); Manuel Ochoa, Jr.; Paul E. Phillips; Premila Rathnam (Biochemistry); Edmund O. Rothchild; Stephen S. Scheidt; Ellen Scheiner; Raymond L. Sherman; James P. Smith; J. Kelly Smith; Marguerite P. Sykes; Endre M. Tarjan (Biochemistry); Alice Ullmann (Social Work); Gary I. Wadler; Babette B. Weksler; Marc E. Weksler; Michael J. Wolk; Samuel D. J. Yeh; Charles W. Young

### Clinical Assistant Professors

Henriette E. Abel; Robert R. Abel; William A. Anderson; George C. Armistead, Jr.; Curtis H. Baylor; Bry Benjamin; Hermina Z. Benjamin; Carl A. Bernsten, Jr.; Harry Bienenstock; Robert T. Binford, Jr.; Maxim Brettler; Keeve Brodman;

Donald J. Cameron; Hugh E. Claremont; Vincent A. Cipollaro; Melva A. Clark; C. Stephen Connolly; Francis P. Coombs; Denton S. Cox; Jean A. Cramer; Marion Davis; Monroe T. Diamond; Carolyn H. Diehl; Adrian L. Edwards; Ralph A. Eskesen; Edwin Ettinger; Thomas J. Fahey, Jr.; John A. Finkbeiner; Claude E. Forkner, Jr.; John M. Glynn; David L. Globus; Howard Goldin; George W. Gorham; Ernest J. Greenberg; Roger P. Hand; Marshall J. Hanley; Ann C. Hill; Raymond B. Hochman; Herbert I. Horowitz; Donald W. Hoskins; Norman J. Isaacs; Vincent A. Joy; Irwin Katka; Richard J. Kaufman; Donald S. Kent; Neil C. Klein; Edward M. Kline; Mary Jeanne Kreek; Martin Kurtz; Mortimer J. Lacher; Costas T. Lambrew; Harold L. Leder; Burton J. Lee III; Leo R. Lese; Marjorie G. Lewisohn; Luther B. Lowe, Jr.; Norton M. Luger; Mark R. Marciano; Nicholas T. Macris; John P. McCann; George A. McLemore, Jr.; Allen W. Mead; David W. Molander; Irwin Nydick; Marie E. Nyswander (Psychiatry); Francis S. Perrone; Aurelia Potor; John H. Prunier; Arleen Rifkind; Norman Rosenthal; Albert M. Ross; Emmanuel Rudd; Lawrence Scharer; Seymour Schutler; Leonard H. Schuyler; Frank A. Seixas; Charles Sheard III; Gerald M. Silverman; Harry A. Sinclair; Henry A. Solomon; Laurence Strauss; Peter H. Stern; Robert Thoburn; Robert J. Timberger; Maurice Tulin; Louis J. Vorhaus; Lila A. Wallis; Clinton G. Weiman; Howard S. Weiss; Jay M. Weiss (Psychiatry); Carl Wierum; Sidney J. Winawer

### Instructors

Hamid A. B. Al-Mondhery; Karl E. Anderson; Gary Birnbaum; Thomas R. P. daCruz; Monroe T. Dowling; John E. Feldmann; Joseph A. Frascino, Jr.; Anthony S. Fauci; Timothy S. Gee; Nei L. Gulco Victor R. Hrehorovich; Yashar Hirschaut; Eric A. Jaffe; Mark H. Kaplan; Neil Kaplowitz; Young Tai Kim; Ilyana Lanin (Social Work); Michel G. Nasser; Carl M. Pinsky; Lillian M. Reich; Robert A. Schaefer; Charles R. Steinberg; Vincent P. Vinciguerra; Rodger Winn; Alan Yagoda; Lowell D. Young

### Clinical Instructors

Robert S. Ascheim; Ralph A. Baer; Roger J. Baliff; Mordecai A. Berkun; Michael J. Bradford; Samuel H. Brethwaite; Eugene V. Calvelli; David E. Cohen; Robert L. Collier; Myron W. Conovitz; Lester R. Corn; Allan H. Covey; C. Pinckney Deal, Jr.; Edgar J. Desser; Klaus Dittmar; Alvin N. Ehrlich; Ernest R. Esakof; Kenneth A. Ewing; Stanley Farber; Joel S. Gitlin; David Gluck; Burton H. Goldberg; Margery Golden; Michael J. Goldstein; Charles R. Goodsell; Victor R. Grann; Jack R. Harnes; Martin L. Heilbraun; Helene Holtz; Thomas P. Jernigan; Seymour Katz; Ludwig Klein; Irving W. Kramer; Lawrence S. Kryle; Martha C. Larsen; Martin Levine; Marianne Lindner; Sonia D. Lindo; Francis C. Losito; Lionel Mailloux; John F. Marchand; Robert S. Martin; I. Ira Mason; N. Eileen McGrath; Donald G. McKaba; Arthur E. Mirkinson; Willis A. Murphy; Robert Nenner; Martin Nydick; Leonard D. Pace; George E. Paley; Leroy H. Pedersen; Richard Perkins; Raymond E. Phillips; Gary A. Piccione; Sanford M. Reiss; Charles Ressler; Carl S. Rosen; Alan S. Rosenberg; Melvin Rubinstein; Charles A. Samet; David G. Schwartz; Malcolm G. Smilary; Alan G. Snart; Paul G. Tolins; Frank A. Tomao; Louis B. Turner; Thomas L. Tuttle; Leonard Vinnick; J. Marvin Wertheim; Kathryn A. Whelan; Melvin L. Wiedman; Stanley S. Yormak

### Research Associates

Bruce E. Belshaw; David W. Gordon; Hideo



Hamaguchi; Philip C. Holzberger; Thomas Hutteroth; Nadya Keller; Margaret E. Todd

### Fellows

Albert A. Abbey; Yukio Ando; John T. Apgar; Michael A. Bean; Nusen Beer; Gary A. Bergeron; Kalman J. Berenyi; Joel M. Blumberg; William M. Bolt; James S. Borges; Barry D. Brause; Steven J. Burakoff; Anthony J. Casella; Lars L. Cederqvist; Paul Chang; Eugene Chin; Nicholas T. Chiorazzi; James P. Christodoulou; Richard C. Connors; Martin B. Cooper; Gerald J. Cordani; Dennis B. Cornfield; John R. Crouse III; Paul T. Dekker; Barbara A. DelliBovi; Dennis L. DeSilvey; Ira Doneson; David C. Dodge III; Brian M. Dorsk; Joseph C. Dreyfus III; Robert L. Erickson; Lewis M. Feder; Alan O. Feingold; Michael Feinstein; Seven L. Fish; Bruce D. Fisher; John D. Fisher; William B. Freedman; Beverly R. Friedell; David L. Geffner; Stuart W. Gillim; William W. Gough; Linda D. Green; Dirk K. Greineder; Mary T. Herald; Paul C. Hetzel; Teng-Lung Hsu; Daniel C. Ihde; Anabelle A. Imbert; Julianne L. Imperato; Robert E. Ingham; Richard A. Katz; Alan E. Kravitz; Roger W. Kula; Robert C. Kurtz; Carl M. Lieberman; Morton M. Liebowitz; Alan J. Lippman; Hugh L. Lipton; Louis A. Lobes, Jr.; Lester Lockspieser; Yang S. Lu; Thomas J. Maley; Charles G. Maresch; Paul L. Margulies; John R. Middleton; Stuart M. Miller; Anne Moore; Robert T. Mossey; Alice M. O'Shaughnessy; Mark W. Pasmantier; Roy A. Pizzarello; Martin R. Post; Michael E. Ray; Barry A. Reiter; Joseph D. Robinson; John S. Rodman; Howard C. Rothman; Michael R. Sander; George J. Sahakian; Ronald J. Saykaly; John C. Schaefer; Jerome J. Schnapp; Philip B. Serlin; Patrick F. Sheehy; John L. Showel; Harris Silverman; Howard C. Steier; Richard Stern; P. A. Sundarajan; Ira I. Sussman; William R. Taylor; Eric J. Thomas; Nikolaus Thurnherr; Henry St. George Tucker; Joseph S. Tulumello; Steven L. Turman; Vidvud Valdmans; George A. Vas; William F. VonStubbe; Charles I. Wagner; Robert L. Walton; Jack Waxman; Gary I. Wilner; John C. Wolfe; Stanley M. Zaborowski; Michael B. Zack

### Research Fellows

Barry B. Dworkin; Mildred G. Goldberg; W. Laurence Marsh; Jerome L. Meyer; Oscar S. Ochs; Mamie K. Wang

### Lecturers

William G. C. Munroe; Robert L. Yeager

The program for the Department of Medicine is based on a number of premises: (1) There is a minimal core of information, skills, and understanding that must be assimilated regardless of the student's choice of career. (2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at a laboratory or clinical level. (3) The scope and limitations of medicine are best revealed through the demands and responsibilities of patient care.

It is evident that a large number of options are open to those pursuing a career in medicine, a diversity which includes clinical, specialty, laboratory, and administrative areas. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities, and needs. There is no preconceived image of an ideal graduate except that he be competent and content in his career choice, and that he be sufficiently well prepared to adapt to the changes that will occur in the practice of medicine

in the future. The program provides the student with certain fundamental concepts and skills that will allow him thoughtfully to explore and evaluate career possibilities.

The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concepts developed in the basic sciences. This approach to the interpretation of symptoms, signs, and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the outmoded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value. The depth to which each student pursues the pathophysiologic approach will vary from a study of the factors responsible for illness in a single patient to an investigation of a disorder at a fundamental level. Clearly, this spirit of inquiry is essential to all areas of medicine. The program of the Department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through his experiences, the student will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

## First Year

**Introduction to Physical Diagnosis.** A correlative course with Gross Anatomy emphasizing interrelationships of structure and their practical clinical application. The student is instructed in the use of a variety of instruments including the stethoscope, ophthalmoscope, and otoscope.

**Health Care Systems.** The course provides an analysis of existing health care systems through study of (1) the organization of medical practice; (2) role of the hospital in patient care and its relationship to the community; (3) role of neighborhood health centers; (4) economics of health care; and (5) analysis of proposals for modification of current health care systems.

**Introduction to Interviewing—The Patient-Doctor Relationship.** The student is introduced to the techniques and problems of interviewing as a means to study the fundamental aspect of health care delivery—the relationship between doctor and patient. Students interview patients focusing on the experiences and attitudes of patients toward doctors and medical care. The interviews are discussed in tutorial groups with the clinical faculty.

## Second Year

Instruction begins in the last trimester and consists of two coordinated courses.

**Physical Diagnosis.** The methods of physical examination and history-taking are taught in lectures and demonstrations which utilize audiovisual aids. In addition, students in small groups further develop their skills in clinical examination under the direct supervision of a tutor.

**Pathophysiology.** The course is designed to correlate the pathophysiology of the various organ systems with associated symptoms, physical signs, and diagnostic procedures. Presentations include lectures and illustrative case studies which are discussed within small groups. Instruction is also given in the commonly used laboratory techniques to examine blood and urine.



### Third Year

Each student is assigned to the Medical Service of the New York Hospital for a period of eleven weeks. He is an integral member of a medical team that is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records his findings. His results and analysis of the clinical problems are reviewed and discussed with the house staff and in small student groups under the supervision of a tutor. He actively participates in the continued care of the patient in part to verify or alter his initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. These activities are supplemented by lectures and conferences especially scheduled for the student and by the large number of conferences and seminars regularly held by the Department.

### Fourth Year

The Department offers a comprehensive elective program that includes participation in laboratory or clinical research, or if desired, further opportunities for patient care. A detailed list of these courses may be found in the *Catalog of Electives*.

## Microbiology

### Professor

William F. Scherer, Chairman

### Associate Professors

Donald W. Mackenzie; William M. O'Leary;  
Laurence B. Senterfit

### Assistant Professors

Robert W. Dickerman; Michael J. Lyons; Dieter H. Sussdorf

### Instructors

James L. Beebe; Zsolt P. Harsanyi

### Research Associates

Jaroslav Heyduk; Jose Ernesto Navarro; Donald C. Powers

### Assistants

Jill M. Adler; Khatchik Deuvletian; David Gibbs;  
Nicola Green; Peter B. Jahrling; Lillian D. Rabbani;  
Lesley A. Radov; Laura K. Seymour; Charles  
Seymour III; William J. Suling

## Basic Course

**Microbiology and an Introduction to Infectious Diseases.** The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into

host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

For students who wish to carry out research, a limited number of opportunities are available in laboratories of the Department of Microbiology under guidance of individual faculty. To provide time for this research, the student will be excused from presenting a seminar and from certain laboratory sessions selected by an adviser.

## Elective Courses

**Microbiology Seminar.** Scheduled biweekly. Topics in microbiology and infectious diseases are presented in depth by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

**Microbial Chemistry and Physiology.** Yearly during third trimester. Two lectures and two laboratory periods weekly. Lectures cover literature and methodology pertinent to physicochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites. Minimum prerequisites for credit are: general microbiology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

**Advanced Immunology.** Every second or third year during third trimester. Two lectures and two laboratory periods weekly. Lectures emphasize current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. The laboratory will cover the isolation, purification, and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in-vivo* effects of specific antigen-antibody reactions. Minimum prerequisites for credit are introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or microscopic anatomy is desirable. Dr. Sussdorf.

**Advanced Virology.** Every second or third year during third trimester. In lectures and laboratory sessions, modern concepts and techniques of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. Dr. Scherer.

**Microbial Genetics.** Every second or third year during third trimester. Two lectures and two laboratory sessions weekly. The lectures deal with genetic systems in fungi, bacteria, and bacterial viruses. Empha-

sis is placed on those basic concepts of genetics which have been elucidated by the study of microbial systems. Laboratory experiments are designed to demonstrate some of the mechanisms of genetic recombination among microorganisms. Minimum prerequisites for credit are general microbiology and at least one semester (or its equivalent) of biochemistry. A course in general genetics is desirable but not required.

**Advanced Mycology.** Every second or third year during third trimester. Two lectures weekly and two laboratory sessions per week for five weeks. In the lectures, initial consideration is given to gross vegetative organization of fungi, relating cellular and subcellular structure and function. In addition to physiological and morphological characteristics of microscopic fungi, mechanisms of biosynthesis and energy metabolism are described in reference to the interaction between fungi and their environment. Other topics considered include natural and induced variation of fungi, fungi as tools of genetic study, biochemical and traditional systematics, bioassays and steroid transformations. Various associations between fungi and man, including the role of fungi as sources of important microbial products, as causes of spoilage and destruction, as pathogenic and as toxigenic and allergenic agents of human disease are also considered. Laboratory exercises are designed to provide familiarity with special mycological procedures, with experience in the handling of fungi as genetic models, bioassay techniques, and special isolation and identification methods of pathogenic fungi from clinical materials. Previous experience with mycology is desirable but not essential.

**Advanced Diagnostic Microbiology.** Alternate years during third trimester. Two lectures and two laboratories weekly. The lecture and laboratory sessions will acquaint the student with the procedures used and technique of management of a clinical microbiology laboratory. Emphasis will be upon developing the student's capability in the isolation and rapid identification of organisms from various types of clinical specimens. Liberal use will be made of clinical materials available through the diagnostic laboratories of the New York Hospital.

**Clerkship in Diagnostic Microbiology.** Yearly. The opportunities of a clerkship in the diagnostic microbiology laboratories of the New York Hospital are available to students with an interest in this area. The student would receive training and practical experience in diagnostic microbiology as it is practiced in a large hospital laboratory.

**General Microbiology** is offered every second or third year by the personnel of the Field of Microbiology at the Medical College and the Sloan-Kettering Division. It is intended to provide a wide-ranging general knowledge of the subject for students minoring in microbiology and for nonminors who want a background in the subject. It is not primarily intended for students majoring in the subject who already have an extensive background from undergraduate work. Two-hour lectures are given weekly during both semesters. Aspects of microbiology covered include fundamental procedures, microbial growth and physiology, genetics, immunology and serology, virology, plant and animal pathogens, and applied microbiology. Auditors from all fields and divisions are welcome.

**Arthropod-Borne Virology and Related Ecology and Epidemiology.** This course is divided into five sections:

1. Principles of arthropod-borne virology

2. Entomology in relation to arthropod-borne virology
3. Ornithology in relation to arthropod-borne virology
4. Mammalogy in relation to arthropod-borne virology
5. Human and veterinary diseases caused by arthropod-borne viruses

Section 1 is given at Cornell University Medical College usually during late June and early July, and sections 2-5 at field laboratory sites in Central America during late July and August. Section 1 and one or two others are offered each summer. The faculty are from Cornell and collaborating institutions in Central America. Each section follows a syllabus and consists of literature review and analysis at libraries in the Cornell Medical College and elsewhere in New York, including the American Museum of Natural History, and seminars and practical experience at the field laboratory. Classes are limited to six. The following are eligible: at the New York City campus of Cornell University: graduate students majoring or minoring in microbiology, postdoctoral fellows in microbiology, medical students with special interest; at the Ithaca campus of Cornell University: graduate students majoring in entomology or fields of vertebrate zoology, veterinary students with special interest, undergraduate students beyond the third year with special interest and sufficient biology background. Students at other universities or research institutions will be admitted under the same conditions as Cornell students provided spaces are available.

**Fourth-Year Elective Options.** A variety of activities in study, research, and teaching is available to fourth-year students during their elective program of study. Included are:

Externship in Microbiology (Dr. Scherer)  
Teaching of Microbiology (Dr. Scherer)  
Research in Microbiology  
Clerkship in Diagnostic Microbiology (Dr. Senterfit)  
Advanced Immunology (Dr. Sussdorf)  
Microbiology Seminar  
Microbial Chemistry and Physiology (Dr. O'Leary)  
Advanced Mycology (Dr. Mackenzie)  
Advanced Diagnostic Microbiology (Dr. Senterfit)  
Advanced Virology (Drs. Dickerman and Lyons)  
General Microbiology (Drs. Hutchison and O'Leary)  
Microbial Ecology (Drs. O'Leary and Beebe)  
Microbial Genetics (Dr. Harsanyi)

For detailed descriptions of these options, the student is referred to the *Catalog of Electives*.

## Honorary Fellowships in Microbiology

The Department of Microbiology offers special honorary fellowships for the study of microbiology and the principles of infectious diseases in more depth than is possible during the ordinary medical college curriculum. During this special year of medical education, a student can participate full time in the teaching and research activities of the Department. He can teach medical students in the microbiology course, take selected graduate courses in this department and/or other departments, undertake research in a discipline or in microbiology under a faculty member of his choosing, obtain experience in the diagnostic microbiology laboratories of the New York Hospital, and attend microbiology seminars, infectious disease rounds, and other conferences. These activities might be termed the equivalent of an internship in microbiology, but they do not involve the service obligations that accompany clinical internships. This year under the microbiology fellowship can be listed on a curriculum *vita*, and such experience might later be

useful when qualifying for various board certifications. Similar honorary fellows at other medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

## Neurology

### Professors

Fred Plum, Anne Parrish Titzell Professor of Neurology, Chairman; Fletcher H. McDowell; Jerome B. Posner; Donald J. Reis

### Associate Professors

H. Richard Beresford; Thomas C. Guthrie; Henn Kutt; Paul R. McHugh; Hart deC. Peterson

### Clinical Associate Professors

Gerald H. Klingdon; John E. Lee

### Assistant Professors

Gary Birnbaum; Robert W. Brennan; Norman L. Chernik; William R. Shapiro; Gail E. Solomon; Peter Tsairis; Claude G. Wasterlain

### Clinical Assistant Professors

Walter A. Camp; Richard R. Carruthers; Sidney J. Louis; Lewis N. Travis; Philip H. Zweifach (Ophthalmology)

### Instructors

Raymond H. Coll; Nobutaka Doba; John J. Caronna; Mark S. Horwich; Barry E. Levin; Madelyn Olson; Richard W. Price

### Research Associates

David C. Howse; Fernando Vergara Edwards; Raif Yanney

### Fellows

Ira B. Black; James N. Davis; David E. Dine; Richard N. Edelson; Kathleen M. Foley; Allan Jacobs; Jeffrey T. Kessler; David E. Levy; Mahendra Sumasundaram; Robert C. Vannucci; Dean F. Young

The Department of Neurology has three inseparable responsibilities, patient care, teaching, and research. The faculty supervises the care of patients with neurological diseases at all four of the major teaching hospitals that make up the Cornell Medical Community; The New York Hospital, Memorial Hospital, the Hospital for Special Surgery, and the North Shore Hospital. This rich exposure to patients with many different types of diseases and the rewarding experiences of providing care to patients from many geographical and social backgrounds is shared by undergraduate students and those training in the specialty of neurological medicine. The research laboratories and programs of the Department are located both within the geographical confines of the school itself and at the several hospitals. These laboratories conduct both fundamental and clinically applied programs seeking the basic answers to neuro-

logical diseases as well as new ways to improve the delivery of already available treatments to patients. Among others, the research projects include the search for, and application of, new chemicals to treat brain cancer, investigations into the mechanisms and treatment of brain tissue damage in stroke, the discovery and analysis of chemicals in the brain that cause and control rage and aggression, and a search for basic chemicals that will improve the anticonvulsant management of patients with epilepsy.

Two goals guide the teaching of students. One is to encourage them to learn diagnosis and treatment by gaining a thorough knowledge of the specific physiology and biochemistry of the major neurological diseases. The other is to transmit some of our beginning understandings of the way the brain functions as an adaptive organ regulating both man's internal milieu and his outward behavior. A few clinical-physiological demonstrations are conducted in the first year, but formal teaching begins in the second year and continues thereafter.

## Second Year

An introductory course in neurological diagnosis is given in the third term, closely linked to the general physical diagnosis course. Lectures and seminar presentations describe the physiological basis of the neurological examination and of abnormal signs and symptoms. There are weekly bedside experiences with the students in pairs examining patients with neurological disease under an instructor's guidance.

## Third Year

A one-month clinical clerkship is spent on the neurological pavilion of either the New York Hospital or the Memorial Hospital. Students perform the initial work-up of patients, participate in all rounds and conferences, and share in the care of patients, under the close supervision of house staff and tutors. Extensive reading is encouraged, both to develop a comfortable knowledge about major neurological problems, and to gain insight into still unsolved problems where current research is making important contributions. Daily seminars in psychiatry continue throughout the clerkship, reinforcing in the student's mind the close relationships between psychological disorders and brain dysfunction.

## Elective Experiences

A variety of electives in either clinical work or laboratory research are available to fourth-year students. Dr. McHugh provides an advanced seminar in behavioral topics; Dr. Plum gives the same on general neurological subjects. In-patients clerkships are available for whole-time work. Dr. McDowell provides a varied out-patient elective which guarantees the student a contact with almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

## Obstetrics and Gynecology

### Professors

Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman; Stanley J. Birnbaum; Elmer E. Kramer; John L. Lewis, Jr.

### Clinical Professors

E. William Davis, Jr.; Arnold N. Fenton; William P.

Given; Graham G. Hawks; Roy Hertz (Endocrinology); Donald G. Johnson; Robert Landesman; George Schaefer; William J. Sweeney III

#### Associate Professors

Carl G. Beling (Endocrinology); Roy W. Bonsnes (Biochemistry); Hortense M. Gandy (Endocrinology); Leon I. Mann; Irwin R. Merkat; Brij B. Saxena (Endocrinology); Selma Silagi (Genetics)

#### Clinical Associate Professors

Hugh R. K. Barber; Myron I. Buchman; William F. Finn; Walter L. Freedman; J. Conrad Greenwald; Frederick E. Lane; Stewart L. Marcus; Frederick W. Martens; Melville A. Platt; John T. Queenan; Richard A. Ruskin; Samuel F. Ryan; Eugene D. Schwartz; E. Thomas Steadman; Howard J. Tatum; Lee F. Vosburgh; Robert E. Wieche

#### Assistant Professor

Walter B. Jones

#### Clinical Assistant Professors

Alfred Brockunier, Jr.; John T. Cole; Barnet Delson; Richard Hnat; S. Theodore Horwitz; Joseph P. Mahoney; Cyril C. Marcus; Bernard Nathanson; Gideon G. Panter; Virginia K. Pierce; John S. Rienzo; Frederick Silverman; E. Fletcher Smith

#### Research Assistant Professor

Anna-Riitta Fuchs

#### Instructors

Gholamali Farahani; Paul Mazarella; G. Millard Simmons, Jr.; Jean R. Wrathall (Genetics); Frank J. Zlatnick

#### Clinical Instructors

Naef K. Basile; Stuart L. Bednoff; Charles H. Bipart; Jerome H. Brander; Ronald M. Caplan; Lars L. Cederqvist; Patrick Concannon; John A. D'Urso; Vincent Du Vigneaud, Jr.; Alfred J. Felice; Robert Fitzgerald; Wilma Gladstone; Andre Heltai; David F. James; Robert E. Kaye; B. Douglass Lecher; Bernard Lieberman; Robert Livingston; Vincent F. Mastrotta; Robert Melnick; Myles C. Morrison, Jr.; Joseph E. Ringland; Sidney Siegel; Samuel Soichet; William D. Walden; Virginia Werden; Esther Weisfogel; Joseph Zaia

#### Fellows

Dezso Abonyi; Jahangir Ayromloo; Paul E. Bates; Richard L. Berkowitz; Hector M. Cabot; Arthur F. Chung; Patricia Conrad; Richard J. Derman; Neil Fidel; Henry F. Gardstein, Jr.; Michael T. Gyves; James B. Haddock; Steven Kahner; Niels R. Lauersen; Richard B. Lewis; Lawrence J. Lippert; Louis J. Lissak; Robert S. Marcus; Edward K. C. Mok; Michael L. Resnick; Stuart Rosenberg; Joseph D. Schulman; Norman M. Schulman; Joe L. Simpson; Kusum Vasudeva; David B. Weinstein; Stephen Wolanske; Ioannis A. Zervoudakis

#### Clinical Fellow

Saroj I. Shah

#### Research Fellows

Mario C. R. Chaves; K. Srinivasa Raghavan; Ch. Venkateswara Rao

### First Year

**Introduction to Biology of Human Reproduction.** During the last trimester, a series of eleven sessions

is held for the entire first-year class as an introduction to the biology of human reproduction. The subjects include a review of reproductive physiology in the male and female, endocrinology of pregnancy, fetology, male and female infertility, family planning, and world population problems.

### Second Year

**Orientation and Introduction to Gynecology Examination.** During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given to groups of four students six days weekly. Four hours.

At the end of the last trimester, a ten-hour series of lectures is given on basic introduction to clinical obstetrics and gynecology. These cover normal and pathological menstrual function and obstetrical principles and thus serve as a background for the third-year course in practical obstetrics and gynecology.

A limited number of students will be accepted by individual arrangement for summer work on research problems, especially in reproductive physiology.

### Third Year

**Introduction to Practical Obstetrics and Gynecology.** Combines theoretical instruction with practical work in obstetrics and gynecology. Each student will study in the Lying-In Hospital for a period of seven to eight weeks. The first week will consist of daily lectures and seminars covering the physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the genital organs.

During the remainder of the period, the student will act as a clinical assistant in the obstetrical and gynecological departments. This includes activities in clinics and in the labor and delivery suite. The student will participate in the prenatal care of patients and attend them in labor and delivery. Small seminars are held during this time to supplement the didactic instruction. A conference is conducted each morning from 9 to 10 o'clock for those students assigned to the delivery floor.

Concomitant with this program, all students will attend the subcourses listed below.

**COURSE I. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY.** Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Mondays, 9 a.m. to 12 p.m.

**COURSE II. NEOPLASTIC DISEASES.** Instruction in and discussion of malignant neoplastic disease and its early recognition; the basic concepts of radiation therapy of malignant disease in the female generative tract. Mondays, 1:30 to 3:30 p.m.

**DEPARTMENTAL STAFF CONFERENCES AND ROUNDS.** A weekly staff conference is held on Mondays, from 4 to 5:30 p.m. Rounds on Fridays, from 11:30 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation.

**SEMINARS IN REPRODUCTIVE PHYSIOLOGY.** Seminars embracing current aspects of the basic science as applied to obstetrics and gynecology are held once a month.

### Fourth Year

A full program of fourth-year electives is offered in



the department, including advanced clinical training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in on-going laboratory research. These electives are listed and described in detail in the *Catalog of Electives*.

## Ophthalmology

### Clinical Professors

Donald M. Shafer, Acting Chairman; Edward A. Dunlap

### Clinical Associate Professors

Stuart I. Brown; Jerry H. Jacobson; Herbert M. Katzin; Harvey A. Lincoff; Walter L. Peretz

### Clinical Assistant Professors

Brian Curtin; Raymond Harrison; Ira H. Kaufman; Alfred E. Mamelok; Alfred J. Nadel; Richard Raskind; Stuart S. Snyder; Arnold Turtz; Philip H. Zweifach

### Instructors

Jerome Berkowitz; Michael McCusker

### Clinical Instructors

Thomas Cherubini; Elizabeth Constantine; Peter Laino; Mark Lieberman; Irene Llovera; Suzanne Veronneau

### Fellows

Paul Foraste; Richard Hook; Richard Muchnick; Peter Odell; Thomas Poole; Martin Smithline

### Research Fellows

Mario Fracassa; Kazumasa Fujimura; Carol W. Hook; Yoshiki Morita

## Second Year

Instruction in ophthalmology begins as part of physical-diagnosis instruction in the third trimester of the second year with practical demonstrations and lectures in use of the ophthalmoscope. Emphasis is placed on technique and features of the normal fundus. Basic neuro-ophthalmology is included in this course.

## Third Year

During the third year the class is divided into six groups which participate in six weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology, with the entire series rounding out the most frequent ophthalmic pathologic entities.

## Fourth Year

Two fourth-year students per module can participate in the elective period. During their modules they examine eyes of patients hospitalized for surgery and review the cases with attending ophthalmologists. Then the student observes the actual surgery and follows through with postoperative care and discussions with the resident staff. During their elective the student can also observe in the various ophthalmic research units. Each Thursday the student attends teaching rounds with the resident and attending staff presenting interesting and problem cases for detailed review and discussion.

## Otorhinolaryngology

### Professor

James A. Moore, Acting Chairman

### Clinical Associate Professors

James M. Holman; George C. Mueller; John R. Williams

### Clinical Assistant Professors

Suzanne Howe; Mary H. Markham; John H. Seward; John F. Struve

### Clinical Instructors

Frank W. Farrell; William F. Flynn

### Instructor

Sheldon Cohen

### Fellows

Stephen R. Hiller; Inocencio Kho; Robert W. Selfe; W. Schain Schley

## Second Year

Instruction begins in the third term of the second year. Four sessions of one and a half hours each are provided in otorhinolaryngologic problems, as part of the course in physical diagnosis. There are approximately twenty students in each of the four sessions.

## Third Year

Each quarter of the third-year class spends from seven to eight weeks in the otorhinolaryngology outpatient clinic. These sessions are held on Monday afternoons from 1:00 p.m. to 4:00 p.m. In the outpatient clinic, the students gain a broad experience with patients who are considered for surgical therapy. The students work up the patients, taking full histories and physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending otorhinolaryngologist. The differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student, in order that the results of the diagnostic procedure and clinical course may be observed firsthand and definitive therapy decided upon in consultation with an otorhinolaryngology staff member. Informal lectures are given at the beginning of the three-hour afternoon sessions. To supplement these informal lectures, interesting cases are selected and presented to the group for examination and informal discussion. Every attempt is made to use not only clinic patients, but inpatients as well, for these case presentations.

## Fourth Year

Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of eight weeks or sixteen weeks. Full-time attendance is desirable; however, half-time attendance may be arranged at the discretion of the department head. During the clerkship the student's time is divided between duty on the ward, in the otorhinolaryngology outpatient clinic, and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff. The student also has the opportunity to observe various otorhinolaryngologic operating procedures in the operating room. He also attends the weekly and monthly conferences. The advisers to students planning this fourth-year elective are Dr. Moore and Dr. Holman.

## Pathology

### Professors

John T. Ellis, Chairman; John G. Kidd; Robert C. Mellors; George E. Murphy

### Visiting Professor

Milton Helpen

### Clinical Professors

Aaron Kellner; Elmer E. Kramer

### Associate Professors

Carl G. Becker; Peter G. Bullough; George F. Gray; C. Richard Minick; Charles A. Santos-Buch

### Clinical Associate Professors

M. Renate Dische; Stanley Gross; Alfred M. Prince; John F. Seybolt; Cyril Solomon

### Assistant Professors

Daniel R. Alonso; Edwin P. Bassett; Margaret H. S. Clements; Edward L. Coffey; Joseph R. Mirra; Janet A. Mouradian; Robert S. Porro; Myron Susin; Jack F. Woodruff

### Clinical Assistant Professors

Arthur S. Carlson; Theodore Robertson; Carolyn W. Watson

### Instructors

Eun Sook Cho; Andrew H. Littell

### Fellows

Bonita L. Bachl; William Goodhue; Nicholas Hardin; Bruce C. Horten; Eugene McNatt; Robert F. Reiss; LeRoy Riddick; Zulema Sabatini; Leroy R. Sharer; Francis Sharkey; Toshikazu Shirai; Edward Sussman; Chik-kwun Tang; Victor Tseng; Carl F. W. Wolf; Takashi Yoshiki

### Assistant

Charlotte Street

## Facilities

The Department of Pathology occupies two floors of the central part of the College building, located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The third and fourth floors also contain unit laboratories for staff members and graduate students and for technical preparation. Animal quarters and facilities for experimental work are on the fifth and seventh floors.

The museum contains a carefully selected collection of specimens representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, a considerable amount of constantly changing gross material is available for study by the student.

The postmortem service of The New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at The New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

## General and Special Pathology

Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with cell injury, inflammation, and repair; it then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systematic pathology including an introduction to neuropathology. Professor Ellis and Staff. Hours 297.

## Clinical Pathological Conferences

These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

## Elective Courses

During the spring term, time is utilized for elective courses in pathology, for research, or for independent study. Electives are offered in cardiovascular pathology, cytopathology, forensic pathology, gastroenterology, laboratory medicine, neuropathology, orthopedic pathology, pathology in surgery, pediatric pathology, and renal pathology.

## Pediatrics

### Professors

Wallace W. McCrory, Chairman; Peter A. McF. Auld; Mary Allen Engle; M. Lois Murphy; Maria I. New; Myron Winick

### Clinical Professors

Henry P. Goldberg; Edmund N. Joyner III; Milton I. Levine; Lee Salk

### Associate Professors

Jo Anne Brasel; Kathryn H. Ehlers; Herman Grossman (Radiology); Margaret C. Heagarty; Aaron R. Levin; John E. Lewy; Wan Ngo Lim; Denis R. Miller; Hart deC. Peterson (Neurology); John C. Ribble; Charlotte T. C. Tan

### Clinical Associate Professors

Fred H. Allen, Jr.; Charles H. Bauer; Nathan Epstein; John E. Franklin; James L. German III (Human Genetics); Martin J. Glynn; Frederick C. Green; Margaret T. Grossi; James Q. Haralambie; Florence N. Marshall; Robert G. McGovern; Virginia C. Mitty; Bertrand L. New (Psychiatry); S. Frank Redo (Surgery); Maxwell Stillerman

### Assistant Professors

Barbara S. Ashe; Virginia C. Canale; Mark Degnan; Zulema F. Fischbar; Mahroo Hagbin; Lawrence Helson; Margaret W. Hilgartner; Alfred N. Krauss; Arleen B. Rifkind; Alfred L. Scherzer; Edward T. Schubert (Biochemistry); Madoka Shibuya; Gail E. Solomon (Neurology); Norma W. Sternberg; Patricia H. Winchester (Radiology)

### Clinical Assistant Professors

Anastasios A. Anastasiades; Richard R. Bass; Otto E. Billo; Renee M. Brilliant; Mary C. Buchanan; Walter T. Carpenter; Benedict S. Caterinicchio; Leon I.

Charash; Alan P. DeMayo; Duane L. Dowell; Leonard Ehrlich; Philip W. H. Eskes; Diane B. Gareen; Doris K. Goldberg; Margaret M. Kugler; Charles Leslie; Luther B. Lowe, Jr.; Irving H. Mauss; Marion McIveen; Karl Neumann; Rebecca F. Notterman; Michael Orange; Olive E. Pitkin; Virginia E. Pomeranz; Irwin Rappaport; Reuben H. Reiman; Melvin S. Rosh; William T. Seed; David I. Smith; Josef Soloway; Peter S. Tolins; Stanley S. Zipser

### Instructors

Enid F. Friedman, (in Psychology); David J. Louick, (in Psychology); Gilda Morillo-Cucci; Israel I. Rayman; Gerald Rosen; Elliot J. Siegal

### Clinical Instructors

Marvin Boris; Joseph H. DiLeo; Gilbert L. Fuld; William L. Greenberg; Alberto Laciou-Petrucelli; Roy H. Lieberman; Frank N. Medici; Jean-Jacques Saranga; Beatrice S. Slater; Noel Steckelman

### Research Associate

Belle Granich

### Fellows

Gregg T. Aspnes; Paul B. Avondoglio; Beverly J. Barrett; David Billings; Joel I. Brenner; William T. Dahms; Francis X. D'Andrea; Brian R. Denham; Donna Dixon; Andrea C. V. Giardina; Patricia-Jane V. Giardina; Hector G. Jasper; Carol L. Kamm; Matthew R. Kaplan; Elizabeth T. Khuri; David B. Klain; Ralph Klein; Sigrun Korth; Stephanie Landey; Ruby Malva; Santiago Muzzo; Richard T. Nist; William Pearl; Harold L. Rosenbaum; Pedro R. Rosso; Paul Saenger; Emily Ann Schmalzer; Carol B. Schulman; Dirce M. Sigulem; Daniel J. Tay; Mary W. Tsai; Harry E. Turse; Russell W. Walker; Michael R. Wollman; Winston C. Wong

### Lecturers

Virginia Apgar (Teratology); Ralph W. Gause (Teratology)

## Third Year

The third year is divided into six modules. Between fourteen and sixteen students participate in each module. A tutor is provided to supervise the work of a group of four or five students. The first two days of the rotation are devoted to an orientation in the techniques of examination of infants and children (history, physical examination, neurological and psychological aspects, etc.). Throughout each module there are thirteen lectures and seminars presented to highlight important material. The students serve as clinical clerks on the pediatric pavilions, normal and special care nurseries, and in the outpatient department of The New York Hospital. In addition, each student spends approximately two weeks at North Shore Hospital or Roosevelt Hospital. The clinical clerks are assigned to examine newly admitted patients in rotation and gain experience in diagnosis and management of sick children who require hospital residence, as well as those children in the various outpatient clinics. Night and weekend rotations are scheduled on the pediatric and emergency pavilions. The students attend regular departmental conferences and rounds.

## Fourth Year

The Department offers a variety of clinical pediatrics electives encompassing general and subspecialty

clinic outpatient activities at The New York Hospital; and combined inpatient and outpatient activities at The New York Hospital, Hospital for Special Surgery, and Memorial Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis.

## Pharmacology

### Professors

Walter F. Riker, Jr., Chairman; Walter Modell

### Visiting Professor

John J. Burns

### Associate Professors

Amir Askari; Walter W. Y. Chan; Raymond W. Houde; Roberto Levi; Michiko Okamoto

### Clinical Associate Professor

Alan Van Poznak

### Assistant Professors

Leslie P. Felpel; Arthur H. Hayes, Jr.; Charles E. Inturrisi

### Research Associates

Thomas Baker; Srinivas Rao

### Research Fellows

Anna B. Drakontides; Johnson O. Kuye; Herbert Longenecker; Barry James Roger Pitts

## Second Year

**Basic Course.** Lectures, demonstrations, and conferences are given during the first and second terms of the second year; clinical demonstrations involving both in and outpatients are scheduled in the second term. These exercises constitute the basic course in pharmacology. The major purpose is to teach the concept and the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug and its rational use in therapeutics. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered essentially systematically, serve to illustrate various mechanisms and parameters of drug action. 154 hours.

**Elective Courses.** Elective opportunities will be made available to students during free time. In these courses the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify through research, some particular aspect of drug action. These activities will be supervised closely by staff members and oriented as a graduate experience endeavored to foster scholarly studies and scientific inquiries. The basic course in pharmacology is a preferred prerequisite.

## Fourth Year

**Seminar.** A series of one-hour seminars are offered twice weekly in Pharmacologic Bases of Therapy. In these seminars, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a reexamination of the pharmacologic rationale for a particular therapy. Also students are directed in searching out

essential information on newly introduced medicinals. Members of clinical departments are invited to participate. This course is offered during each module but will be given only if there are at least six students registered.

**Clinical Pharmacology.** Electives in clinical pharmacology offer the student an opportunity to become acquainted with problems of experimental design and conduct of controlled clinical drug trials. Present departmental programs in the clinic are concerned with (a) the assay and evaluation of analgesic drugs, and (b) the study of cardiovascular drugs, especially antiarrhythmic agents. Recommended time: one to two modules.

**Medical Editing.** An experience is offered for one to three students to join the activities of the editorial office of *Clinical Pharmacology and Therapeutics*, an official publication of the American Society for Pharmacology and Experimental Therapeutics. Students will participate in all aspects of the handling of manuscripts from their receipt to final disposition, including selection of referees, exchanges between the reviewer and editor, exchanges between the editor and author regarding suggestions for modifications made by referees, and the final editing processes involved in readying the manuscript for publication. Recommended time: two modules, part-time.

**Research.** Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system, and the biochemical aspects of pharmacology. Detailed descriptions of opportunities can be found in the *Catalog of Electives*. Recommended time: to be arranged.

## Physiology and Biophysics

### Professors

Robert F. Pitts, Maxwell M. Upson Professor of Physiology and Biophysics, Chairman; Roger L. Greif; Erich E. Windhager

### Associate Professors

Sulamita Balagura-Baruch; Colin Fell; Bernice Grafstein

### Assistant Professors

Thomas M. Maack; Lou Ann Pilkington

### Instructor

Tze Kong Young

### Assistant

Nicholas Ingoglia

Instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The de-

partment is fortunate in having on the fourth floor of its building the Graham Lusk Library of Physiology, a gift from the late Professor of Physiology Graham Lusk. The Library includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective field of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

## First Year

**Second Term.** Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. Hours, 44.

**Third Term.** Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days each week. Hours, 187.

A course in radiobiology is sponsored by the Department of Physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry, and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. Eleven hours of lectures.

## Elective Courses

A seminar course in topics in biophysics and one in fluid and electrolyte balance are offered to selected students during their second-year elective time. An opportunity is offered to not more than five students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and four-year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

## Psychiatry

### Professors

William T. Lhamon, Barklie McKee Henry Professor of Psychiatry, Chairman; Sanford Goldstone (Psychology); Lawrence E. Hinkle, Jr. (Medicine); Richard N. Kohl; Paul R. McHugh

### Clinical Professors

Eric T. Carlson; Francis J. Hamilton; James F.



Masterson, Jr.; William N. Schoenfeld (Psychology); Richard M. Silberstein; Otto A. Will, Jr.

# Associate Professors

James L. Curtis; Thomas H. Meikle, Jr. (Neuroanatomy); Stanley T. Michael; Donald J. Reis (Neurology); Jeri A. Sechzer (Psychology); Gerard P. Smith (Physiology); Peter E. Stokes

# Clinical Associate Professors

Sheldon Blackman; Jacob B. Chassan (Statistics); Helen E. Daniels; Bernard Fisher (Psychology); Frederic F. Flach; Richard J. Glavin; Lawrence J. Hatterer; Helen S. Kaplan; Ari Kiev (Social Psychiatry); Bernard Landis (Psychology); Ludwig G. Laufer; Abraham S. Lenzer; Alfred B. Lewis, Jr.; Edward Y. Liang; Laurence Loeb; Alan A. McLean; Bertrand L. New; Edward L. Pinney, Jr.; Jacques M. Quen; Arthur K. Shapiro; Leonard R. Straub; Nathaniel Warner; Elliott L. Weitzman

# Assistant Professors

John F. Clarkin (Psychology); M. David Clayson; William N. Davis (Psychology); Jeremy M. Kisch (Psychology); Jerome L. Kroll; Armand W. Loranger (Psychology); William K. McKnight; Jane F. O'Neil; Robert S. Ort; Richard M. Sallick; Edward E. Seelye; Charles A. Shamoian; Helen N. Siegrist (Social Work); Lester M. Tourk (Psychology); Porter H. Warren; Peter G. Wilson; Louis C. Zang

# Clinical Assistant Professors

Edward T. Adelson; Arthur A. Anderson, Jr.; Gerald A. Anderson; Joseph Arcuri; Jason Aronson; Harvey H. Barten; James E. Baxter; Thomas Beckett (Psychology); J. Warren Brown; Albert N. Browne-Mayers; Edwin H. Church; Howard N. Cooper; E. Gerald Dabbs; John D. Dalach (Psychology); Lawrence A. Downs; Renee G. Ferguson; Theodore H. Finkle; Maria F. Fleetwood; Gerard Fountain; Lionel O. Friedman; Stephen Goodyear; Nelson M. Gray; Seymour Gruber; Jerome E. Haber; Thomas S. Harper; Irving B. Harrison; Royal J. Haskell, Jr. (Psychology); Thomas F. Henley; Philip S. Herbert; Peter T. Janulis; Francis D. Kane; Marilyn G. Karmason; M. Dorothea Kerr; Mary M. Knight; Robert G. Knight; Allison B. Landolt; Sydney E. Langer; Robert E. Lee (Medicine); William D. Longaker; William V. Lulow; Richard B. Makover; Rene C. Mastrovito; James R. McCartney; Lillian E. McGowan; John F. McGrath; Lawrence C. Miller; Harry H. Moorhead; Timothy B. Moritz; Anna J. Munster; Werner Nathan; Richard Rabkin; Edwin R. Ranzhofer; Robert A. Ravich; Kurt C. Rawitt; Martha K. Reese; Philip S. Robbins; Richard Rutkin (Psychology); Marie-Louise Schoelly; Jean E. Schultz; Michael A. Selzer; Leonard R. Sillman; Robert M. Simon; Nora Smith; James H. Spencer, Jr.; Tom G. Stauffer; Joseph D. Sullivan; Thornton Vandersall; Henriette L. Wayne; Aaron D. Weiner; William D. Wheat; Alden E. Whitney; Alvin R. Yopalater

# Visiting Assistant Professor

Thomas Fahy

# Instructor

Thomas L. Henley

# Clinical Instructors

Ralph D. Baker; Arnold Becker; Richard N. Besley; Marvin B. Blitz; Ronald Brady; Arthur S. Campbell; Robert S. Carson; James J. Cavanagh; Remo R.

Gerulli; Cornelius J. Clark; Thomas J. Craig; Paul H. Davis; Lois B. de Alvarado; John R. Delaney; Ruth F. Deutch; Mary V. DiGangi; Thomas L. Doyle, Jr.; Suzanne C. Draghi; Joseph Dubey; Samuel V. Dunkell; Stuart R. Edelson; Arthur Eisen; Simon J. Epstein; Roland J. Foraste; Sheldon Frank; Mio Fredland; Richard B. Gould; Daniel N. Hertz; Robert Hirsch; David M. Hurst; Raymond F. Jarris; Bruce L. Kendall; Hae E. Kim; Jay Lefer; Henry J. Lefkowitz; Edna A. Lerner; Melvine Levine; Geraldine Levitt; Dorothy Lieberman; Arnold S. Maerov; Harvey I. Mandel; Sarah M. Mitchell; Wayne A. Myers; Teruko S. Neuwalder; Daniel J. O'Connell; Avodah K. Offit; Louis J. Padula; Salvatore J. Pagliaro; Esra S. Petursson; Leonard Rack; David B. Robbins; Lathrop E. Roberts; Herbert L. Rothman; Arnold B. Rudominer; George Samios; Herman R. Schlechter; Elliot R. Singer; Zalec Skolnik; Max Spital; Sylvia G. Traube; Martha C. Troutman; Kenneth F. Tucker; Traer Van Allen; James R. Ware; Wayne M. Weisner; Anna Zagoloff

# Research Associates

Norman Dain; Betty J. Lasley; Thomas A. Loftus; Elaine Shapiro

# Research Fellows

Hannah S. Decker; Milton D. Hassol; Milton Seegmiller; Michael H. Tamaroff

# Fellows

Richard Ariola; Dimitri Bedenko; Ruth D. Bruun; Joseph Campanella; Richard M. Carlton; Socrates Constantinou; Willard J. Davies, Jr.; Neil Edison; Eli Einbinder; David J. Galina; Rudolph A. Gross; Douglas M. Grodin; Betty Karron; Daniel M. Koenigsberg; Jay D. Kuris; Lenard J. Lexier; Patrick C. Lorenz; Richard E. Luria; Elisabeth L. Macrae; Marlin R. Mattson; Anthony A. Pelosi; Felix O. Pitterson; Ronald Raibag; Nan Robert; Michael A. Schwartz; Phillip R. Slavney; Deena Stolzberg; Henry M. Storper; Lisa Tallal; E. Anne Terner; Sivachandra M. Vallury; Hermann Von Greiff; Joseph A. Zito; Christ L. Zois

# Assistants

Elizabeth K. Balliett; Myrtle Guy; Meribeth Simpson

The Department of Psychiatry offers instruction or electives during each of the four years. Understanding of the development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student to psychiatric disorders and the methods of their examination and study. In the third year this preliminary training is utilized in the study of both inpatients and outpatients at the Payne Whitney Psychiatric Clinic. In addition, field trips are offered to a community mental health center, a drug-addiction center, and the Westchester Division of The New York Hospital-Cornell Medical Center. In the fourth year numerous electives are offered. The importance of personality problems in general medicine is taught in the pavilions of The New York Hospital.

# First Year

**Electives.** Electives are offered in various clinical areas in the main hospital, in the Payne Whitney Psychiatric Clinic and outpatient department, in the community, and in various sections of the Department of Psychiatry (history, social psychiatry, special studies lab, etc.).

## Second Year

**Psychopathology and Methods of Examination.** The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. The course offers practical experience in interviewing, history taking, and in the methods of psychiatric examination. Total hours, 28.

## Third Year

**Clinical Psychiatry.** Groups of four to six students rotate through the in- and outpatient services of the Payne Whitney Psychiatric Clinic or the Westchester Division four days a week for four week periods. Students examine and work with patients, and attend conferences and demonstrations. The work includes study of problems of adults and children.

## Fourth Year

**Electives.** During the fourth year the following electives are offered: A clinical clerkship in the psychiatric inpatient department, clinical experience in the psychiatric outpatient department, research in child psychiatry, social psychiatry, metabolic psychiatry, the history of psychiatry, psychochemotherapy, audiovisual teaching.

## Public Health

### Professor

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman

### Visiting Professors

William T. Ingram (Engineering); Philip D. Marsden

### Associate Professor

David Schottenfeld

### Clinical Associate Professor

Eugene G. McCarthy, Jr.

### Assistant Professors

Michael Alderman (Community Medicine); Lewis Drusin (Epidemiology); August H. Groeschel; Thomas A. Hodgson, Jr. (Economics); John P. Maher; Robert M. McCune, Jr.; Valerie Miké (Biostatistics); Robert B. Millman; Katsuhiko Yano

### Clinical Assistant Professor

Aaron D. Chaves

### Clinical Instructors

Gladys L. Hobby; William H. Loery

### Research Associates

Jeanne F. Magagna; Marjorie McCarty; Julia T. Weld

### Visiting Lecturer

John C. Seed

The teaching aim of the Department of Public Health is to help increase the student's understanding of disease and its proper control in people considered as groups or communities. This is the scientific and professional base for the different way the nonclinical "public" or "community" physician looks at things. The public health or community physician utilizes the same total pool of biomedical science and technology used by the clinical physician, but extracts from it

quite different elements for application to the disease problems of a whole community. The existence and potentialities of this "other way" of using biomedical science and technology for the control of disease and the promotion of health must be known and comprehended by all physicians. For all patients are under these two medical influences at once—that of the clinical or personal physician and that of the non-clinical or public physician. To a considerable extent the teaching of this community aspect of medicine involves identification of the existing and emerging disease problems and the ways they are shaped by the multiple interreactions of heredity, culture, and the physical and biologic environments. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in teaching is to help the student apply the knowledge derived from the basic medical sciences to the problems of the day and to the possible ways these problems can be modified or solved through either the clinical or the nonclinical systems for health care.

Because its concern is with people in groups, the Department has the responsibility to maintain a continuing look at our systems of medical care. Consequently, it is concerned with a broad range of disciplines such as economics in medicine and with the issues involved and the relative effectiveness of the various systems for the delivery of medical care.

The courses start at the beginning of the first year and are continued through the second, third, and fourth years.

## First Year

**Social Determinants of Illness and Disease.** This is given as part of the first-year course in Introductory Medicine, and consists of two hours each Wednesday afternoon during the second trimester. It is aimed at exposing the students early in their medical careers to that other world of medicine in which the physician's influence is exerted indirectly on a community as a whole rather than on the individual basis of one patient at a time. Both the technologic and the human-support aspects are emphasized. Illustrative problem areas range from discrete clinical entities which are technologically relatively simple, through broad sociomedical problems which are etiologically complex and technologically difficult to solve, to areas which are philosophically and ethically peculiar to the practice of medicine, such as disease and illness, death-and-dying, and the physician's act. Lectures and small group seminars. Total hours, 22.

**Elective.** A course in health economics is offered to first-year students in the second trimester in which the delivery of health care is examined as an economic activity. Economic theory provides the basis for studying the health industry and some of the problems it faces. Topics considered include the characteristics of health and medical services which distinguish the health industry, the implications of these distinctive characteristics for the competitive market system as a mechanism for delivering health services to the consumer, the manpower crises, rising costs, and forms of payment to hospitals and physicians including Medicare and prepaid insurance. The course includes reading assignments. Drs. Hodgson and McCarthy.

## Second Year

**Introduction to the Computer, Epidemiology, and Biometrics.** This series of introductory courses is

held throughout the first trimester. These courses aim essentially at providing the students with an elementary but functional comprehension of the basic tools used not only in public health, but in practically all research; an introduction to the study of disease and its determinants in a community; fundamental statistical concepts; and the use of the computer in medicine.

The lectures on the use of the computer are given from 2-3 p.m. on Tuesdays. Assignments to write a computer program are made, and the student has an opportunity to run his program on a computer. Sessions on epidemiology and biometrics are held from 3-5 p.m. on Thursdays. These may be lectures or seminars. They will be devoted to the elucidation of those factors affecting the occurrence and distribution of disease, the design of epidemiologic studies, testing the significance of observed results by appropriate statistical means, and a basic appreciation of statistical concepts. Total hours, 33.

**Parasitology.** This course is given during the second trimester of the school year by Dr. B. H. Kean and his associates, assisted by Dr. Philip Marsden, Visiting Professor in the Department of Public Health. Dr. Kean is head of the tropical disease unit in the Department of Medicine and has had extensive field experience in the tropics.

The principal emphasis in this course is on disease caused by the larger parasites, which are particularly prevalent in so-called economically underdeveloped areas.

The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include macroscopic parasites. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the main avenues for the study of diseases in man—clinical medicine and epidemiology. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Wednesday, and Friday during the latter part of the second trimester, a lecture or demonstration is presented from 2-3 p.m. The laboratory exercises are carried on from 3-5 p.m. Total hours, 33.

**Community Medicine.** This course will consist of a series of presentations devoted to an examination of current concepts and issues relating to community aspects of the health-care system. Topics will range from an analysis of the present system, through areas of public policy issues to current questions of community control and the social responsibilities of hospitals and organized medicine. Total hours, eleven.

### Third Year

**Public Health and Community Medicine.** The third-year course in public health consists of morning field trips followed by afternoon seminars. The exercises are devoted to consideration of general questions of clear medical import which may be expected to represent major problems related to urban communities, to the student's future patients considered as individuals, and to himself. The teaching is all conducted with groups of seven to fourteen students who meet weekly for a total of eight weeks.

### Fourth Year

The teaching program is centered in the electives listed below.

**Exercises in Public Health.** Research opportunities are available to students who are interested in studying the social, economic, environmental, and other epidemiologic determinants of disease in a community or subgroup. A student can participate in ongoing studies relating to the system of medical care in a community, or may choose to initiate a short-term independent project. Opportunities can be provided for selected students to participate in extramural projects in the United States and abroad. Two modules. Drs. Maher and Yano.

**Jamaica Rural Health Project.** This program involves participation in a community health project in the small community of Elderslie, St. Elizabeth Parish, Jamaica, B.W.I. The project grew out of a consortium formed by the Jamaican Ministry of Health, The University of the West Indies, and Cornell University Medical College, to improve the medical care of the rural poor while developing, in the process, a simple and reproducible delivery system. The students serve as primary physicians in the Elderslie clinic, under the general supervision of the local health officer and the faculty field director. The goals of the students in the project are to study a defined community in order to identify its barriers to health; to render clinical and preventive services; to identify the most prevalent diseases and conditions; to augment the human medical resources of the community by training and educating community residents; and, over time, to assess the impact of their efforts on the health status of the community.

Some third-year students may be accepted for summer rotation, to provide continuity of care during the summer months. To qualify, students must have completed third-year rotations in Medicine, Obstetrics and Gynecology, and Pediatrics. Some married students are accepted. Drs. Alderman and Maher.

**Bedford Health Center Clerkship.** This is not a clinical clerkship in the ordinary sense of medicine or pediatrics. The student during the course of this elective will gain experience in the operation of a large health center situated in Bedford-Stuyvesant. He will assist the health officer in his daily work by participating directly in the Center's activities, thus gaining experience in the administrative, political, sociologic, and epidemiologic aspects of public health and community medicine. These activities will be defined by the health officer as far as possible to conform to the particular interests of the students. One module. Dr. Maher.

**Biostatistics—Logic of Research Design.** These two electives have been reorganized and combined to provide the student with a functional comprehension of two areas of knowledge which are basic to nearly all research, as well as to a critical evaluation of medical literature. It is highly recommended that they be taken in tandem by any students interested in research, epidemiology, or administrative or public medicine. Biostatistics is prerequisite to Logic of Research Design.

The course in Biostatistics will cover the fundamental concepts of probability and statistical inference, as needed for the analysis of observational or experimental data. Emphasis will be upon the understanding of theory, with selected applications for illustration. No previous training in statistics is required. Open to graduate students (second trimester)

as well as to medical students from January to mid-March. Drs. Miké and Hodgson.

The Logic of Research Design course is aimed primarily at medical students, and will review the planning, implementation, and evaluation of scientific research. Topics to be considered include sampling methods and sample size, survey research, retrospective and prospective studies, questionnaire construction and administration, and the collection and analysis of research data. Finally, each student will have a project in which he will design and present a research protocol after consulting with a faculty member of the Department of Public Health. Drs. Schottenfeld and Yano, Miss Magagna.

## Radiology

### Professors

John A. Evans, Chairman; Giulio D'Angio; D. Gordon Potts; Joseph P. Whalen

### Clinical Professor

Harold L. Temple

### Associate Professors

David V. Becker; Florence Chien Hwa-Chu; Robert H. Freiburger; Herman Grossman; Morton A. Meyers; Zuheir Mujahed; Harry L. Stein; Melvin Tefft; Robin C. Watson

### Clinical Associate Professors

Nathan Poker; George Stassa

### Assistant Professors

Lowell L. Anderson (Physics); Keith Arthur; Harold A. Baltaxe; Lawrence M. Blau (Physics); Patrick Cahill Michael D. F. Deck; Eleanor E. Deschner (Radiobiology); Bernard Ghelman; Margaret O. Harrison; Basil S. Hilaris; Seymour Hopfan; James R. Hurley; David C. Levin; Marvin Loring; Charles Merten; Lourdes Z. Nisce; Eladio H. Nunez; G. Craig Ramsay; Samuel Seal; Julius Smith; Donald Eng Tow; Patricia H. Winchester

### Clinical Assistant Professors

F. Mitchell Cummins; Plinio Rossi; Henry M. Selby; Ruth E. Snyder; Stephen White

### Instructors

Francis Bagnasco; Alan S. Baker; Stephen Balter; Mostafa Ali El Batata; Robert Bugbee; John Cavallari; Eugene Covington; Mina Farhad; J. Garrett Holt; Richard S. Lefleur; Patrick O'Kelly; Richard C. Packert; Samuel Phillips; Malcolm Powell; Gian D. Ragazzoni; Klas Romberg; Lawrence Rothenberg; Jean St. Germain

### Clinical Instructors

Anthony Fuller; Andrew Haraway; James C. Hirschy; Robert H. Leaming

### Fellows

Michael Friedman; Garth Gregory; Alfred Horowitz; Jack Lee; Samuel T. Lim; James McSweeney; Albert Messina; Sigmund Mittler; Dixon M. Moody; Donald Resnick; James Rini; Richard Rizzuti

The teaching of radiology continues through all four academic years. It includes didactic lectures, demonstrations, conferences with small groups in connection with clinical clerkships, presentations of the radiologic manifestations of disease at the regular

conferences of the clinical departments, and a variety of elective courses.

## First Year

**Electives.** An elective is offered in diagnostic Radiology in collaboration with the Department of Anatomy. Carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with the dissection sessions in gross anatomy. The use of radiographs enhances the student's understanding of anatomical details and provides him with a clearer perspective of important anatomical relationships.

An elective course in radiographic anatomy in diagnosis, limited to seven students, is offered in the third trimester. Observation and seminar study of radiographs and their use as an anatomical basis for special procedures will be considered. Conventional radiography and fluoroscopy will be reviewed for further understanding of anatomy.

## Second Year

In conjunction with the physical diagnosis of the thorax and abdomen, eight hours are devoted to the use of radiology as a tool in teaching physical diagnosis and emphasizing x rays as an extension of the physical examination. Both normal anatomy and selected cases of pathologic alteration will be reviewed.

## Third Year

Third-year instruction in Radiology consists of a twenty-eight hour lecture course in diagnostic roentgenology. The aim of the course is to relate the student's knowledge of anatomy and pathology, gained in the first two years, to the findings seen on roentgenograms in various disease entities. The essential diagnostic points of the most frequently encountered lesions are illustrated by material from the Department's teaching files. The first third of the course covers the thorax, including the lungs, heart, and mediastinum. The second third of the course covers the abdomen, including the solid viscera and the gastrointestinal tract. The final third of the course covers urological, neurological, and bone radiology. The student is encouraged to gauge his progress by self-evaluation sessions after each third.

## Fourth Year

An elective is offered to groups of up to fifteen students each module consisting of a series of informal talks, seminars, and multiple case presentations in an attempt to apply the information of previous courses. Emphasis is placed on giving the student an appreciation of the use of radiology in a clinical setting. A large film and lantern-slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the Department.

An elective in the clinical application of radioactive isotopes consists of a period of participation in and observation of the activities of the Division of Nuclear Medicine. The student will have the opportunity to obtain basic orientation in procedures involved in the quantitation of radionuclides by direct participation in laboratory exercises. These will be carried out in the framework of a clinical laboratory primarily concerned with the diagnosis of a variety of disorders by the application of the techniques of radioactive nuclides.

The student will have an opportunity to observe



closely the various procedures (including organ scanning and a number of physiologic studies) and to evaluate some of the patients receiving these studies and to assist in the interpretation of the procedures. He will participate in the daily report session in which scans and procedures are reviewed. In addition, if the student so wishes he may originate research activities of his own or participate directly in some of the ongoing research activities of the laboratory ranging from the development and standardization of new procedures to instrument modification and calibration. In addition, for the interested student, there will be an opportunity to work with some of the computer-related procedures in the laboratory under the direction of Dr. Patrick Cahill. This course lasts for five modules and is limited to two students.

## Facilities

Five floors of the L Building comprise the main facilities of the Radiology Department. A large diagnostic section is located in the Doctor Connie Guion Outpatient Building adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, the Urology Clinic, and the Payne Whitney Psychiatric Clinic. New diagnostic radiology research facilities are located on the sixth and seventh floors of the William Hale Harkness Research Building.

The Department of Medical Physics at Memorial Hospital provides teaching, service, and research activities in the areas of diagnostic radiology, radiation therapy, and nuclear medicine. The staff and facilities of the Department of Medical Physics are available to interested students.

## Surgery

### Professors

Paul A. Ebert, Chairman; C. Walton Lillehei, Lewis Atterbury Stimson Professor of Surgery; Victor F. Marshall, James J. Colt Professor of Urology in Surgery; Robert L. Patterson, Jr. (Orthopedics); Russel H. Patterson, Jr. (Neurosurgery); Albert L. Rubin (Biochemistry)

### Clinical Professors

William A. Barnes; Peter Dineen; John W. Draper (Urology); Cranston W. Holman; Bronson S. Ray (Neurosurgery); Lee Ramsay Straub (Orthopedics); Bjorn Thorbjarnarson; John C. Whitsell II; Philip D. Wilson, Jr. (Orthopedics)

### Associate Professors

Arthur R. Beil, Jr.; Jack H. Bloch; Henry Gans; Helena Gilder (Biochemistry); Leonhard Korngold (Microbiology, Orthopedics); Kurt H. Stenzel (Biochemistry)

### Clinical Associate Professors

William D. Arnold (Orthopedics); Rolla D. Campbell, Jr. (Orthopedics); Howard S. Dunbar (Neurosurgery); John H. Eckel; George F. Egan (Dentistry); Edward I. Goldsmith; Dicran Goulian, Jr. (Plastic Surgery); Peter M. Guida; George R. Holswade; Allan E. Inglis (Orthopedics); Bernard Jacobs (Orthopedics); Russell W. Lavengood, Jr. (Urology); David B. Levine (Orthopedics); Frederick L. Liebolt (Orthopedics); John H. McGovern (Urology); Laurence Miscall; Edward C. Muecke (Urology); James A. Nicholas (Orthopedics); William F. Nickel, Jr.; Arthur J. Okinaka; S. Frank Redo; Paul A. Skudder; George E. Wantz

### Assistant Professors

James E. Baxter (Psychiatry); Robert G. Carlson; John H. Doherty (Orthopedics); Richard G. Eaton (Orthopedics); William A. Gay, Jr.; Randolph H. Guthrie, Jr. (Plastic Surgery); Martin J. Kaplitt; Leon J. Kutner (Microbiology, Orthopedics); Robert R. Riggio (Biochemistry); Gabriel H. Schwartz (Biochemistry); Peter S. Walker (Bioengineering, Orthopedics)

### Clinical Assistant Professors

Stanley J. Behrman (Dentistry); Francis A. Beneventi (Urology); Paul W. Braunstein; Mitchell Brice II (Urology); Bertram E. Bromberg (Plastic Surgery); George N. Cornell; Armand F. Cortese; J. Edwin Drew (Urology); Charles R. Dunbar (Orthopedics); Sidney N. Eichenholtz (Orthopedics); Joseph A. Epstein; Harold H. Genvert; Robert A. Goldstone (Orthopedics); William R. Grafe, Jr.; James L. Green (Urology); Bruce R. Heinzen; Alexander Hersh (Orthopedics); Gustavus A. Humphreys (Urology); John N. Insall (Orthopedics); Joseph T. Kauer; Edward B. C. Keefer; John G. Keuhnelian (Urology); Louis J. Lester; Peter J. Marchisello (Orthopedics); John L. Marshall (Orthopedics); Victor Mayer (Orthopedics); Frederick C. McLellan (Urology); Charles K. McSherry; John D. Mountain; Piero O. Niceta; Chitrnanjan S. Ranawat (Orthopedics); Leon Root (Orthopedics); James W. Smith (Plastic Surgery); Richard M. Stark (Orthopedics); William T. Stubenbord; Konstantin P. Veliskakis (Orthopedics)

### Instructors

Louis J. Benton, Jr.; Charles J. Bleifeld; Robert B. Cameron; Claudio B. Charosky; John W. Coleman; E. Brown Crosby; William P. Crutchlow; Joseph C. DeFiore, Jr.; Serge J. Dos; Robert J. Ellis; Michael J. Errico; Daniel A. Goor; Charles Hamlin; Joseph I. Hoffman, Jr.; Stephen M. Kopp; Herbert E. Kramer; Arnold J. Lande; Jose M. Lardone; Jack C. Lee; John P. Lyden; Irvine G. McQuarrie; David G. Mendes; Robert W. Milgram; Kevin P. Morrissey; Steven A. Muller; Jorge H. Reisin; Eduardo A. Salvati; Hiromu Shoji; Garry L. Smith; Klint H. Stander; Jacqueline J. Struthers; Valvanur A. Subramanian; Richard N. Tiedemann; Luther F. Warren; Russel F. Warren; Jack S. Waxler; Dennis W. Wise

### Clinical Instructors

Joel B. Adler; Samuel Avnet; Howard D. Ballensweig; Walther Bohne; Michael Browne; William J. Bruton; Thomas I. Carey; Stephen E. Carney; Robert L. Clarke; Edward C. Coats; Thomas M. Darrigan; David S. David; Milton Gabel; Joseph V. Hajek; John B. Ogilvie; Earl A. O'Neill; Thomas D. Rizzo; David S. Speer; N. D. Krishne Urs; Robert S. Waldbaum

### Fellows

John M. Aronian; Frank R. Barta, Jr.; Dennis H. Becker; Peter W. Blumencranz; Dennis L. Borden; Hugh C. Bredin; Elliott Brender; Bernard L. Brennan; Jhoog S. Cheigh; William T. Curry; Christopher J. Daly; William H. Davidson; John E. Deitrick, Jr.; Lloyd R. Dropkin; Ihsan Erdamar; Dewey N. Ervin; Jose M. Fabrega; Robert M. Farrell; Edwin Y. Fondo; Ian B. Fries; Francis J. Gillen; Arthur L. Graff; Peter J. Grillo; Laurance J. Guido; Roy A. Henseler; Steven D. Herman; Nicholas G. Herr; Harry T. Hersey; Edgar H. J. Hift; Andre F. A. Jawde; Peter Jovanovic; Robert M. Kass; Harvey A.

Konigsberg; Danica Kovachev; Laurence R. LeWinn; Richard A. Lewis; Peter J. Linden; Frederick P. Loy; John C. McCabe; Janice S. Meadors; Gerald J. Monchik; Michael R. Nadeau; Irene Nasaduke; Michael F. Nigro, Jr.; Ronald H. Ocean; Joseph C. Orlando; William R. Pitts, Jr.; Roland W. Pritchard; David M. Richter; Rigoberto Sampson; Robert G. Schwager; Jerome A. Schweikert; Thomas P. Sculco; Michael C. Seelen; Mark M. Sherman; Jeffrey M. Sherwood; John J. Shine; Michael F. Silane; Richard A. Smith; Anthony J. Tortolani; William E. Weber, Jr.; Richard M. Whalen; John J. Williams; Stephen F. Winer; Henry C. Yu; Orest V. Zaklynsky

## Memorial Hospital

### Professor

Edward J. Beattie, Jr.

### Clinical Professors

Theodore R. Miller; Willet F. Whitmore, Jr. (Urology)

### Associate Professors

Joseph G. Fortner; Harry Grabstald (Urology)

### Clinical Associate Professors

Robert J. Booher; William G. Cahan; Eugene E. Clifton; Michael R. Deddish; Hollon W. Farr; Joseph H. Farrow; Ralph C. Marcove; John L. Pool; Guy F. Robbins; Reuven K. Snyderman (Plastic Surgery); Maus W. Stearns, Jr.; Elliot W. Strong; Jerome A. Urban

### Assistant Professors

Philip R. Exelby; Nael Martini; Sandra Nehlson; Thaddeus E. Starzynski

### Clinical Assistant Professors

Lemuel Bowden; Daniel Catlin; Donald G. C. Clark; Alfred A. Fracchia; John T. Goodner; John S. Lewis; Charles J. McPeak; Sandra Nehlson; Stuart H. Q. Quan; Charles E. Rogers; H. Randall Tollefsen; Horace W. Whiteley, Jr.

### Instructors

Hirokyu Ashikari; Karamat U. Choudhry; David W. Kinne; William H. Knapper; Carl J. Schmidlapp

### Clinical Instructors

Myron Arlen; Angelo DePalo; Frank P. Gerold; Ralph E. L. Hertz; John C. Lucas; A. Ranald MacKenzie; Oliver S. Moore; Michael A. Paglia; Elizabeth P. Pickett

### Fellows

Luis A. Algarra; Manjit S. Bains; William A. Bernie; Rajendra K. Birla; Norman L. Block; El B. Castro; Harout L. Dolabjian; Michael J. Donnellan; James P. Gaston; Bimal C. Ghosh; Stephen R. Lipson; Pedro P. Munoz; Mohanlal K. Sehdev; Jatin P. Shah; Ramesh C. Sharma; Arthur M. Smith; Pramod C. Sogani; Bhupendra M. Tolia; Allan D. Turnbull; Charlotte R. Walker; Harold J. Wanebo; David P. Wolk

## Second Year

Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic, and urologic examination. Tutors are assigned to groups of four students

for supervision of history taking and physical examination.

Opportunities to participate in experimental procedures in the laboratories for surgical research are available in the summer and are supervised by members of the teaching staff.

## Third Year

The curriculum for the third year now provides a core program of clinical teaching and experience in surgery to all students during an eleven week period. This consolidates all the didactic and clinical teaching that previously was distributed through the third and fourth years, and leaves the fourth year for elective studies which the student might want to undertake.

Each quarter of the third-year class spends approximately eleven weeks on the surgical pavilions and attends outpatient clinics in surgery and its subspecialties. In the outpatient department the students gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, taking full histories and doing complete physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student in order that the results of diagnostic procedures and the clinical course may be observed firsthand and definitive therapy decided upon in consultation with a staff member.

In the Minor Surgical Clinic of General Surgery as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned to rotation to the specialty clinics of orthopedics, urology, otorhinolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to evaluate therapy of the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. Each section is divided into operating teams of four: an anesthetist, a surgeon, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, sepsis, hemostasis, and wound healing.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy, and the medical student needs, to become aware of this early in his training. It is also important to have a feeling of the background from which surgical patients come. Rotation through the general surgical and specialty clinics of the outpatient department provides the widest possible experience in order to attain this objective. Not only does this provide an understanding of the source of surgical patients, but it also affords an opportunity for him to see what surgical therapy may accomplish. In addition, the student has the chance to observe the occasional postoperative complications

in the follow-up clinics where patients return following surgery that has been performed within the hospital.

As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on each patient assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first hand the pathological condition for which the operation was undertaken. He attends the rounds held by the resident staff and members of the senior staff.

**Tutor Assignments.** Attending surgeons are assigned as tutors to meet with small groups of the students for one hour twice a week, on Tuesdays and Thursdays. The tutor attempts to provide information to the students in his chosen field through examination and informal discussion of patients in the hospital or by formal presentation of his concept of clinical problems.

**Fracture Conference.** In the late afternoon each Tuesday a conference to review the fracture patients is conducted by the senior and resident staff and is attended and participated in by the surgical clinical clerks.

**Student Rounds.** Every Wednesday afternoon planned sessions are held with the students on the surgical services. These sessions last for an hour and a half and are based upon broad surgical problems. Students are assigned to prepare for the subject presentations and patients are used to illustrate the problems under discussion. Two attending surgeons monitor these rounds and present their views on the subject. The idea is to encourage active participation on behalf of the students in presentation and somewhat informal discussion of broad surgical problems and thus detect and correct misconceptions and add to their practical knowledge.

**Grand Rounds.** From 9 to 10:30 on Saturday mornings clinical clerks attend grand rounds together with the entire resident and senior staff of the Department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

**Emergency Service.** The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the outpatient clinics are closed—from 5 p.m. to 9 a.m. Monday through Friday and over the weekend. Seeing the wide range of conditions requiring emergency treatment is a valuable experience for the clinical clerk.

**Seminar.** On Saturdays from 10:30 a.m. to 12 noon throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present their evaluations of new advancements of surgery. It is the objective of these exercises to introduce the medical student to the methods of evaluating new developments in surgery, so that later, as a physician, he will be better able to assess, in a methodical and critical manner, new proposals for surgical treatment; and also so that he may be better able to guide the best therapeutic management of his patients.

By constant and uninterrupted association with "his" patients and those doctors who are caring for

them, the student gains direct experience with the normal course which follows major surgical procedures and with complications as they may arise. The value of team work in medical care is vividly apparent to the student during his term on surgery.

## Fourth Year

In the fourth year the Department of Surgery offers a variety of electives, including experience in clinical fields as well as in the research laboratories. These are fully outlined in the *Catalog of Electives*.

## Division of Biomathematics (Graduate School of Medical Sciences)

### Professor

Sol I. Rubinow

### Visiting Professor

Joel L. Lebowitz

### Visiting Associate Professors

Betty J. Flehinger; Richard P. Kelisky

### Visiting Research Associate

Mary Ann Angell

### Research Associates

Foster Betts; Norman C. Blumenthal; Paul J. Tannenbaum

The work of the Division of Biomathematics is directed towards the development of quantitative methods in the biological and medical sciences, with special emphasis on the application of mathematics and the utilization of automatic computers. In addition to the Graduate School course in introductory biomathematics in which medical students are eligible to enroll, the following elective courses are offered especially to medical students.

## First Year

An elective course in biomathematics is given in one trimester and is devoted to the mathematical basis of selected physiological and pharmacological problems. Mathematical requirements will be developed as needed. There are no prerequisites. The course meets for one two-hour session per week. Dr. Rubinow.

## Fourth Year

In conjunction with elective offerings in other departments, biomathematical aspects of a student's investigations will be discussed. This provides an opportunity for the students to become familiar with the mathematical basis for quantitative evaluation of clinical and experimental results. This elective requires special arrangements with the sponsor of the student's other elective. Sessions will average about two hours a week, at a day and time to be arranged.

## Schedules, 1971-72

### First Year

#### First Trimester, Weeks 1-5

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9-10	Gross Anatomy	Biochemistry	Biochemistry	Biochemistry	Microscopic Anatomy
10-11		Microscopic Anatomy	Gross Anatomy	Gross Anatomy	Gross Anatomy
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3-4	Interdisciplinary				
4-5			Elective/Free		

#### First Trimester, Weeks 6-11

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9-10	Gross Anatomy	Biochemistry	Biochemistry	Biochemistry	Gross Anatomy
10-11		Microscopic Anatomy	Microscopic Anatomy	Microscopic Anatomy	
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3-4	Interdisciplinary				
4-5			Elective/Free		Elective/Free



## 46 Schedules

### Second Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Pharmacology	Pharmacology Public Health*	Pathology	Pharmacology Public Health	Pathology
10-11	Pathology	Pharmacology		Pharmacology	
11-12					
12-1		Clinical Pathological Conferences			
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Microbiology Parasitology Public Health†	Elective/Free	Microbiology Parasitology Public Health	Elective/Free	Microbiology Parasitology Public Health
3-4					
4-5					

\* Pharmacology, weeks 1 through 5  
Public Health, weeks 6 through 11

† Microbiology, weeks 1 through 4 <sup>2</sup>/<sub>3</sub>  
Parasitology, weeks 4 <sup>2</sup>/<sub>3</sub> through 8  
Public Health, weeks 9 through 11

### Third Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Medicine	Pathology	Medicine	Elective/Free	Medicine
10-11					
11-12					
12-1		Clinical Pathological Conferences			
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Medicine	Elective/Free	Medicine	Elective/Free	Medicine
3-4					
4-5					

Second Year

First Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Pathology	Pharmacology	Pathology	Pharmacology	Pathology
10-11		Psychiatry			
11-12		Psychiatry			
12-1		Clinical Pathological Conferences			
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-5	Microbiology	Elective/Free	Microbiology	Elective/Free	Microbiology

Second Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Biochemistry	Physiology	Biochemistry	Microscopic Anatomy	Physiology
10-11	Gross Anatomy	Microscopic Anatomy	Gross Anatomy		
11-12					Microscopic Anatomy
12-1				Biochemistry	Elective/Free
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Physiology	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3-4	Interdisciplinary				
4-5			Elective/Free		

Third Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Physiology	Neural Science	Physiology	Elective/Free	Neural Science
10-11	Neural Science				Physiology
12-1		Lunch		Lunch	
1-2	Lunch	Introductory Medicine	Lunch	Elective/Free	Lunch
2-3	Neural Science	Elective/Free	Physiology		Introductory Medicine
3-5	Interdisciplinary				

### Third Year

#### Section I

<i>First Half of Year</i>	<i>12 Weeks September 7–November 27</i>	<i>11 Weeks November 29–February 26*</i>	
Division A	Medicine	Surgery	
Division B	Surgery	Medicine	
<i>Second Half of Year</i>	<i>7 Weeks February 28–April 22†</i>	<i>7 Weeks April 24–June 10</i>	<i>8 Weeks June 12–August 5</i>
Division C	Obstetrics	Neurology, Psychology, and Public Health	Pediatrics
Division D	Pediatrics	Obstetrics	Neurology, Psychology and Public Health
Division E	Neurology, Psychology, and Public Health	Pediatrics	Obstetrics

#### Section II

<i>First Half of Year</i>	<i>8 Weeks September 7–October 30</i>	<i>7 Weeks November 1–December 18*</i>	<i>8 Weeks January 3–February 26</i>
Division C	Obstetrics	Neurology, Psychology, and Public Health	Pediatrics
Division D	Pediatrics	Obstetrics	Neurology, Psychology, and Public Health
Division E	Neurology, Psychology, and Public Health	Pediatrics	Obstetrics
<i>Second Half of Year</i>	<i>11 Weeks February 28–May 20†</i>	<i>11 Weeks May 22–August 5</i>	
Division A	Medicine	Surgery	
Division B	Surgery	Medicine	

\* Christmas recess, December 18–January 3.

† Spring recess, April 17–April 23.

### Fourth Year

#### Elective Modules

A	September 7–October 23	(seven weeks)
B	October 25–December 18	(eight weeks)
C	January 3–February 19	(seven weeks)
D	February 21–April 8	(seven weeks)
E	April 10–May 25	(seven weeks)

# Register

## Administration

### Cornell University

Dale R. Corson, President of the University  
Robert A. Plane, University Provost  
W. Donald Cooke, Vice President for Research  
Lewis H. Durland, University Treasurer  
William D. Gurowitz, Vice President for Campus Affairs  
W. Keith Kennedy, Vice Provost  
Samuel A. Lawrence, Vice President for Administration  
E. Hugh Luckey, Vice President for Medical Affairs  
Thomas W. Mackesey, Vice President for Planning  
Paul L. McKeegan, Director of the Budget  
Arthur H. Peterson, University Controller  
Richard M. Ramin, Vice President for Public Affairs  
Robert F. Risley, Vice Provost  
Neal R. Stamp, Secretary of the Corporation and University Counsel

### The New York Hospital-Cornell Medical Center

The Center was formed by an agreement between The Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions. The Center now includes not only Cornell University Medical College and the New York Hospital, but also the Graduate School of Medical Sciences of Cornell University and the Cornell University-New York Hospital School of Nursing.

E. Hugh Luckey, President  
August H. Groeschel, Vice President

#### Joint Administrative Board

The Center is operated under the supervision of a Joint Administrative Board, composed of four governors of The Society of The New York Hospital, four representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The President of The New York Hospital-Cornell Medical Center is the chief executive officer of the Board.

#### *Representatives from the Board of Trustees of Cornell University*

Arthur H. Dean  
Stanton Griffis

Dale R. Corson, Chairman 1972  
Robert W. Purcell

#### *Representatives from the Board of Governors of the Society of The New York Hospital*

Kenneth H. Hannan, Chairman 1971  
Francis Kernan  
Frederick K. Trask, Jr.  
John Hay Whitney

*Member at Large*  
Walter B. Wriston

*Ex Officio Member*  
E. Hugh Luckey, M.D.

### Cornell Medical College

Dale R. Corson, President of the University  
E. Hugh Luckey, Vice President for Medical Affairs, Cornell University  
J. Robert Buchanan, Dean of the Medical College  
James L. Curtis, Associate Dean  
Fletcher H. McDowell, Associate Dean  
Thomas H. Meikle, Jr., Associate Dean  
Charles A. Santos-Buch, Associate Dean  
Lawrence Scherr, Acting Associate Dean  
Arthur H. Hayes, Jr., Assistant Dean  
Frederick W. Cassidy, Jr., Business Manager  
M. James Peters, Assistant Treasurer  
Wayne Gooch, Director of Personnel  
Bruce H. Ewald, Director of Laboratory Animal Medicine  
Erich Meyerhoff, Director of the Library  
Marvin Raeburn, Director of Public Information

#### Executive Faculty

Dale R. Corson  
Amir Askari  
Alexander G. Bearn  
Carl G. Becker  
J. Robert Buchanan  
James L. Curtis  
Paul A. Ebert  
John T. Ellis  
John A. Evans  
Fritz F. Fuchs  
Arthur H. Hayes, Jr.\*  
John E. Lee  
William T. Lhamon  
E. Hugh Luckey  
Wallace W. McCrory



## 50 Faculty

Walsh McDermott  
Fletcher H. McDowell  
Thomas H. Meikle, Jr.  
Alton Meister  
Robert F. Pitts  
Charles A. Santos-Buch  
William F. Scherer  
Lawrence Scherr  
Roy C. Swan  
David D. Thompson\*  
\*By invitation.

### Standing Committees

**Committee for Academic Programs.** John T. Ellis, Chairman; Alexander G. Bearn; David V. Becker; Giulio D'Angio; Thomas H. Meikle, Jr.; William M. O'Leary; James L. Curtis, ex officio; Arthur H. Hayes, Jr., ex officio

**Admissions Committee.** Thomas H. Meikle, Jr., Chairman; Karl Adler; Carl G. Becker; Donald J. Cameron; Robert G. DeLong; Kathryn H. Ehlers; William Grafe; S. Steven Hotta; Michael Lyons; Hart deC. Peterson; John C. Ribble; Paul Skudder; James L. Curtis, ex officio

**Animal Care.** Bjorn Thorbjarnarson, Chairman; E. Lovell Becker; Bruce H. Ewald; Michael D. Gershon; Edward I. Goldsmith; S. Steven Hotta; Stewart L. Marcus; Paul R. McHugh; C. Richard Minnick; D. Gordon Potts; Edward T. Schubert; Dieter H. Sussdorf; Erich E. Windhager

**Financial Aid.** Charles A. Santos-Buch, Chairman; William N. Christenson; James L. Curtis; William Grafe; Roger L. Greif; Arthur H. Hayes, Jr.; Thomas Hodgson; Thomas H. Meikle, Jr.; Bertrand L. New; S. Frank Redo; John C. Ribble; Walter F. Riker

**Research Support.** Henry O. Heinemann, Chairman; Carl G. Becker; Jack Bloch; Caleb E. Finch; Rudy H. Haschemeyer; William R. Shapiro

**Library.** Ralph L. Engle, Jr., Chairman; Emiko Akiyama; David V. Becker; Suzetta Burrows; Eric T. Carlson; Arthur H. Hayes, Jr.; Robert C. Mellors; Erich Meyerhoff; William M. O'Leary; Julian R. Rachele; George G. Reader; Doris Schwartz; Florence Tritt; Leo Wade

**Prizes in Research.** Jerome B. Posner, Chairman; B. Shannon Danes; Henry Gans; Peter M. Guida; Rudy H. Haschemeyer; Norman B. Javitt; Gerard P. Smith

**Internship Advisory.** William N. Christenson, Chairman; Donald Armstrong; Peter A. McF. Auld; Donald J. Cameron; Robert Clarke; George O. Clifford; Martin Gardy; Eugene L. Gottfried; George F. Gray; Peter C. Harpel; Henry O. Heinemann; Donald G. Johnson; Stephen D. Litwin; Daniel S. Lukas; Fletcher H. McDowell; George G. Reader; Richard Sallick; Paul Skudder; Gary Wadler; John C. Whitsell II

**Basic Science Faculty Council.** C. Richard Minick, Chairman; Carl G. Becker; Dorothea Bennett; Roger L. Greif; Thomas Hodgson; S. Steven Hotta; Roberto Levi; Donald W. R. Mackenzie; Walter Modell; George E. Murphy; William M. O'Leary; Julian R. Rachele; Leonard Ross; Erich E. Windhager; J. Robert Buchanan, ex officio; James L. Curtis, ex officio; Arthur H. Hayes, Jr., ex officio; E. Hugh Luckey, ex officio; Fletcher McDowell, ex officio; Thomas H. Meikle, ex officio; Charles A. Santos-Buch, ex officio; Lawrence Scherr, ex officio

**Clinical Science Faculty Council.** Peter McF. Auld, Chairman; William Barnes; Stanley Birnbaum; Donald Clark; F. Mitchell Cummins; Allen DeMayo; Henry Goldberg; George Gray, Jr.; Allan Inglis; Donald Johnson; Thomas Killip; John Lee; Alan Lewis; Klaus Mayer; Allan McLean; Allen Mead; James A. Moore; Ralph Nachman; Jack Richard; Donald Schaefer; Marjorie Topkins; Joseph Whalen; J. Robert Buchanan, ex officio; James L. Curtis, ex officio; Arthur H. Hayes, Jr., ex officio; E. Hugh Luckey, ex officio; Fletcher McDowell, ex officio; Thomas H. Meikle, Jr., ex officio; Charles A. Santos-Buch, ex officio; Lawrence Scherr, ex officio

## Faculty of the Medical College\*

### Emeritus Professors

Arthur F. Anderson, M.D. [1930; 1962], *Clinical Professor of Pediatrics*  
David P. Barr, M.D. [1916; 1957], *Professor of Medicine*  
Leona Baumgartner, M.D. [1935; 1968], *Clinical Professor of Public Health; Clinical Professor of Pediatrics*  
McKeen Cattell, M.D. [1925; 1959], *Professor of Pharmacology*  
Anthony C. Cipollaro, M.D. [1948; 1966], *Clinical Professor of Medicine (Dermatology)*  
Lloyd F. Craver, M.D. [1934; 1959], *Clinical Professor of Medicine*  
Margaret Dann, M.D. [1938; 1967], *Professor of Pediatrics*  
Paul F. De Gara, M.D. [1941; 1970], *Clinical Professor of Pediatrics*  
John E. Deitrick, M.D. [1935; 1970], *Professor of Medicine*  
Edward H. Dennen, M.D. [1933; 1965], *Clinical Professor of Obstetrics and Gynecology*  
Oskar Diethelm, M.D. [1936; 1962], *Professor of Psychiatry*  
R. Gordon Douglas, M.D. [1932; 1965], *Professor of Obstetrics and Gynecology*  
Vincent du Vigneaud, Ph.D. [1938; 1967], *Professor of Biochemistry*  
Dayton J. Edwards, Ph.D. [1918; 1950], *Professor of Physiology*  
Claude E. Forkner, M.D. [1938; 1966], *Clinical Professor of Medicine*  
Richard H. Freyberg, M.D. [1944; 1969], *Clinical Professor of Medicine*  
Frank Glenn, M.D. [1932; 1968], *Professor of Surgery*  
Harry Gold, M.D. [1922; 1965], *Clinical Professor of Pharmacology*  
Phyllis Greenacre, M.D. [1932; 1962], *Clinical Professor of Psychiatry*  
Edwin T. Hauser, M.D. [1935; 1961], *Clinical Professor of Medicine*  
Louis Hausman, M.D. [1923; 1959], *Clinical Professor of Medicine (Neurology)*  
Joseph C. Hinsey, Ph.D. [1936; 1967], *Professor of Neuroanatomy*  
Asa L. Lincoln, M.D. [1921; 1959], *Clinical Professor of Medicine*  
William F. MacFee, M.D. [1936; 1958], *Clinical Professor of Surgery*  
Charles M. McLane, M.D. [1932; 1968], *Clinical Professor of Obstetrics and Gynecology*  
Ade T. Milhorat, M.D. [1933; 1964], *Clinical Professor of Medicine*

\*The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- S. W. Moore, M.D. [1932; 1971], *Professor of Surgery*
- Joseph N. Nathanson, M.D.C.M. [1926; 1965], *Clinical Professor of Obstetrics and Gynecology*
- Ralph F. Phillips, M.D. [1950; 1968], *Clinical Professor of Radiology*
- Paul Reznikoff, M.D. [1924; 1961], *Clinical Professor of Medicine*
- Frank R. Smith, M.D. [1932; 1965], *Clinical Professor of Obstetrics and Gynecology*
- Israel Steinberg, M.D. [1940; 1967], *Clinical Professor of Radiology*
- Lewis D. Stevenson, M.D. [1922; 1957], *Clinical Professor of Medicine (Neurology)*
- Harold J. Stewart, M.D. [1932; 1961], *Clinical Professor of Medicine*
- John Y. Sugg, Ph.D. [1932; 1969], *Professor of Microbiology*
- T. Campbell Thompson, M.D. [1951; 1968], *Clinical Professor of Surgery (Orthopedics)*
- Edward Tolstoi, M.D. [1927; 1962], *Clinical Professor of Medicine*
- Preston A. Wade, M.D. [1927; 1968], *Clinical Professor of Surgery*
- James H. Wall, M.D. [1933; 1965], *Clinical Professor of Psychiatry*
- Bruce P. Webster, M.D.C.M. [1932; 1967], *Clinical Professor of Medicine*
- Irving S. Wright, M.D. [1946; 1967], *Clinical Professor of Medicine*
- Professors**
- Edward H. Ahrens, Jr., *Hilda Altschul Master Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1937, M.D. 1941, Harvard. [1970]
- Benjamin Alexander, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]
- Joseph F. Artusio, Jr., *Professor of Anesthesiology (Chairman)*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- Peter A. McF. Auld, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1970]
- William A. Barnes, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1967]
- Jeremiah A. Barondess, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins. [1953; 1971]
- Alexander G. Bearn, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital. M.B., B.S. 1946, M.D. 1951, University of London; F.R.C.P. (Edin. and Lond.) [1966]
- Edward J. Beattie, Jr., *Professor of Surgery*. Chairman and Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966; 1967]
- E. Lovell Becker, *Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1969]
- Dorothea Bennett, *Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1971]
- Stanley J. Birnbaum, *Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961; 1971]
- William A. Briscoe, *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1939, New College, Oxford, England; M.A. 1941, B.M., B.Ch. 1942, D.M. 1951, Oxford University. [1969; 1971]
- Dana C. Brooks, *Professor of Anatomy*. B.E.E. 1949, M.D. 1957 Cornell. [1955; 1971]
- J. Robert Buchanan, *Dean; Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1971]
- Joseph H. Burchenal, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- John J. Burns, *Visiting Professor of Pharmacology*. B.S. 1942, Queens; M.A. 1948, Ph.D. 1950, Columbia. [1968; 1971]
- Eric T. Carlson, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1970]
- Charles L. Christian, *Professor of Medicine*. Attending Physician, New York Hospital; Physician-in-Chief, Hospital for Special Surgery, B.A. 1949, University of Texas; M.D. 1945, Northwestern. Reserve. [1970]
- Giulio J. D'Angio, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. A.B. 1943, Columbia; M.D. 1945, Harvard. [1968]
- Farrington Daniels, Jr., *Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962; 1969]
- E. William Davis, Jr., *Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1971]
- Peter Dineen, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1971]
- Vincent P. Dole, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, Stanford; M.D. 1939, Harvard. [1970; 1971]
- John W. Draper, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
- Edward A. Dunlap, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1944; 1968]
- Henry S. Dunning, *Clinical Professor of Neurology*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, (Westchester Division). A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- Murray Dworetzky, *Clinical Professor of Medicine (Allergy)*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]
- Paul A. Ebert, *Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. B.S. 1954, M.D. 1958, Ohio State. [1970]
- John Edwards, *Visiting Professor of Genetics in Pediatrics*. Investigator, New York Blood Center. B.A. 1949, M.B. B.Chir., Cambridge; M.R.C.P. 1956, London. [1968]
- John T. Ellis, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. B.A. 1942, University of Texas; M.D. 1945, Northwestern. [1948; 1968]
- Mary Allen Engle, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1969]

- Ralph L. Engle, Jr., *Professor of Medicine*. Attending Physician; Director, Division of Medical Systems and Computer Science, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1969]
- John A. Evans, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- Aaron Feder, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1938, Maryland. [1941; 1965]
- Arnold N. Fenton, *Clinical Professor of Obstetrics and Gynecology*. Director, Division of Obstetrics and Gynecology, North Shore Hospital. B.A. 1941, Lafayette; M.D. 1944, Columbia. [1960; 1971]
- Fritz F. Fuchs, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- Ralph W. Gause, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- William P. Given, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1971]
- Henry P. Goldberg, *Clinical Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1971]
- Sanford Goldstone, *Professor of Psychology in Psychiatry*. B.S. 1947, C.C.N.Y.; Ph.D. 1953, Duke. [1967]
- Roger L. Greif, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- Francis J. Hamilton, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- Graham G. Hawks, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1971]
- Milton Helpert, *Visiting Professor of Pathology*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- Roy Hertz, *Clinical Professor of Endocrinology in Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1930, Ph.D. 1933, M.D. 1939, Wisconsin; M.P.H. 1940, Johns Hopkins. [1970]
- Lawrence E. Hinkle, Jr., *Professor of Medicine; Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942 Harvard. [1947; 1971]
- Cranston W. Holman, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- William S. Howland, *Professor of Anesthesiology*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954; 1968]
- William T. Ingram, *Visiting Professor of Engineering in Public Health*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- Donald G. Johnson, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- Edmund N. Joyner III, *Clinical Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1970]
- William H. Kammerer, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. B.S. 1931, M.D. 1935, Indiana. [1941; 1969]
- B. H. Kean, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- Aaron Kellner, *Clinical Professor of Pathology*. Attending Pathologist, New York Hospital; Director, New York Blood Center. B.A. 1934, Yeshiva College; M.S. 1936, Columbia; M.D. 1939, University of Chicago. [1946; 1968]
- John G. Kidd, *Professor of Pathology*. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- Thomas Killip III, *Roland Harriman Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1968]
- Richard N. Kohl, *Professor of Psychiatry*, Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1971]
- Elmer E. Kramer, *Professor of Obstetrics and Gynecology; Clinical Professor of Pathology*. Attending Obstetrician and Gynecologist; Attending Pathologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- Robert Landesman, *Clinical Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1971]
- Milton I. Levine, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1967]
- John L. Lewis, Jr., *Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Attending Surgeon and Chief, Gynecology Service, Memorial Hospital. B.A. 1952, M.D. 1957, Harvard. [1968; 1971]
- Allyn B. Ley, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- William T. Lhamon, *Barklie McKee Henry Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- C. Walton Lillehei, *Lewis Atterbury Stimson Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1939, M.B. 1941, M.D. 1942, M.S. 1951, University of Minnesota. [1967]
- E. Hugh Luckey, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University; Attending Physician, New York Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- John MacLeod, *Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1969]
- Benjamin E. Marbury, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1968]
- Philip D. Marsden, *Visiting Professor of Public Health*.

- M.B.B.S. 1956, University College Hospital; M.D. 1965, London School of Hygiene and Tropical Medicine. [1967]
- Victor F. Marshall, *James J. Colt Professor of Urology in Surgery*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital, M.D. 1937, Virginia. [1938; 1957]
- James F. Masterson, Jr., *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson. [1953; 1970]
- Wallace W. McCrory, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- Walsh McDermott, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- Fletcher H. McDowell, *Associate Dean; Professor of Neurology*. Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944; Dartmouth; M.D. 1947, Cornell. [1950; 1968]
- Paul R. McHugh, *Professor of Psychiatry; Associate Professor of Neurology*. Associate Attending Psychiatrist; Associate Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964; 1971]
- Alton Meister, *Israel Rogosin Professor of Biochemistry (Chairman)*. Biochemistry-In-Chief, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Cornell. [1947; 1967]
- Robert C. Mellors, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- Neal E. Miller, *Clinical Professor of Psychology in Medicine*. B.S. 1931, University of Washington; M.A. 1932, Stanford; Ph.D. 1935, Yale. [1971]
- Theodore R. Miller, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1970]
- Walter Modell, *Professor of Pharmacology*. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1967]
- James A. Moore, *Professor of Otorhinolaryngology (Acting Chairman)*. Attending Surgeon in Charge of Otorhinolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- George E. Murphy, *Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1968]
- M. Lois Murphy, *Professor of Pediatrics*. Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1970]
- Carl Muschenheim, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- W. P. Laird Myers, *Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1968]
- Maria I. New, *Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1971]
- Robert L. Patterson, Jr., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- Russel H. Patterson, Jr., *Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge, New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1960; 1971]
- Ralph E. Peterson, *Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1940, M.S. 1941; Kansas State; M.D. 1946, Columbia. [1958; 1968]
- Robert F. Pitts, *Maxwell M. Upson Professor of Physiology and Biophysics (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- Fred Plum, *Anne Parrish Titzell Professor of Neurology (Chairman)*. Neurologist-in-Chief, New York Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- Aaron S. Posner, *Professor of Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963; 1969]
- Jerome B. Posner, *Professor of Neurology*. Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963; 1970]
- D. Gordon Potts, *Professor of Radiology*. Attending Radiologist, New York Hospital. B.Sc. Canterbury University College, New Zealand; M.B., Ch. B. 1951, University of Otago, New Zealand; M.D. 1960, New Zealand. [1967; 1970]
- Julian R. Rachele, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- Bronson S. Ray, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- George G. Reader, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- Donald J. Reis, *Professor of Neurology*. Attending Neurologist, New York Hospital. A.B. 1953, M.D. 1956, Cornell. [1963; 1971]
- Walter F. Riker, Jr., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- Leonard L. Ross, *Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957, 1971]
- Sidney Rothbard, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951; 1969]
- Albert L. Rubin, *Professor of Biochemistry (Surgery); Professor of Surgery (Biochemistry)*. Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1969]
- Lee Salk, *Clinical Professor of Psychology in Pediatrics*. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, Ph.D. 1954, University of Michigan. [1966; 1971]
- George Schaefer, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1971]
- William F. Scherer, *Professor of Microbiology (Chairman)*. M.D. 1947, Rochester. [1962]
- Lawrence Scherr, *Acting Associate Dean; Professor of Medicine*. Associate Attending Physician, New York Hospital; Director of the Division of Medicine, North Shore Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1971]



- William N. Schoenfeld, *Clinical Professor of Psychology in Psychiatry*. B.S. 1937, C.C.N.Y.; A.M. 1939, Ph.D. 1942, Columbia. [1966]
- Donald M. Shafer, *Clinical Professor of Ophthalmology (Acting Chairman)*. Attending Ophthalmologist, New York Hospital. B.A. 1932, Columbia; M.D. 1936, Cornell. [1958; 1969]
- Richard M. Silberstein, *Clinical Professor of Psychiatry*. A.B. 1944, Dartmouth; M.D. 1946, Pittsburgh. [1968]
- J. James Smith, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1967]
- Lee Ramsey Straub, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- Roy C. Swan, *Joseph C. Hinsey Professor of Anatomy (Chairman)*. A.B. 1941; M.D. 1947, Cornell. [1948; 1959]
- William J. Sweeney III, *Clinical Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1971]
- Harold L. Temple, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- David D. Thompson, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- Bjorn Thorbjarnarson, *Clinical Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1968]
- Marjorie J. Topkins, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1970]
- Douglas P. Torre, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- Alan Van Poznak, *Clinical Professor of Anesthesiology; Clinical Associate Professor of Pharmacology*. Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1970]
- Robert F. Watson, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- Joseph P. Whalen, *Professor of Radiology*. Attending Radiologist, New York Hospital. A.B. 1955, Fordham; M.D. 1959, S.U.N.Y. (Upstate). [1969; 1971]
- Willet F. Whitmore, Jr., *Clinical Professor of Surgery (Urology)*. Attending Surgeon, Memorial Hospital; Attending Surgeon, New York Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1967]
- John C. Whitsell II, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1970]
- Otto A. Will, Jr., *Clinical Professor of Psychiatry*. B.A. 1933, M.D. 1940, Stanford. [1968]
- Philip D. Wilson, Jr., *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1968]
- Erich H. Windhager, *Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1969]
- Myron Winick, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, S.U.N.Y. (Brooklyn) [1958; 1970]

## Associate Professors

- Seymour Advocate, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1937, Brooklyn; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1970]
- Fred H. Allen, Jr., *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- Lucien I. Arditi, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1950, Louisiana State; M.D. 1954, Washington University. [1955; 1970]
- William D. Arnold, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1971]
- Amir Askari, *Associate Professor of Pharmacology*. B.S. 1953, University of Dubuque; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1967]
- Sam C. Atkinson, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1967]
- Sulamita Balagura-Baruch, *Associate Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1970]
- Hugh R. K. Barber, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Colombia. [1954; 1970]
- Lloyd T. Barnes, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1969]
- Charles H. Bauer, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1949, Columbia; M.D. 1953, Harvard. [1961; 1967]
- Carl G. Becker, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- David V. Becker, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- Arthur R. Beil, Jr., *Associate Professor of Surgery*. Director of the Division of Surgery, North Shore Hospital. A.B. 1955, Brown; M.D. 1959, Cornell. [1960; 1971]
- Carl G. Beling, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute, Stockholm. [1965; 1969]
- H. Richard Beresford, *Associate Professor of Neurology*. Attending Neurologist, North Shore Hospital. B.A. 1952, Yale; J.D. 1955, Harvard; M.D. 1963, Colorado. [1971]
- Sheldon Blackman, *Clinical Associate Professor of Psychology in Psychiatry*. A.B. 1956, Princeton; M.A. 1958, Ph.D. 1960, Ohio State. [1968; 1970]
- Jack H. Bloch, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.A. 1952; M.D. 1957, U.C.L.A.; Ph.D. 1967, Minnesota. [1968; 1970]

- Roy W. Bonsnes, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- Robert J. Bocher, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton. [1954; 1970]
- Norman Brachfeld, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1959; 1968]
- Jo Anne Brasel, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1956, M.D. 1959, University of Colorado. [1960; 1971]
- John L. Brown, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1971]
- Stuart I. Brown, *Clinical Associate Professor of Ophthalmology*. B.M.S. 1955, M.D. 1957, Illinois. [1970]
- Myron I. Buchman, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]
- Peter G. Bullough, *Associate Professor of Pathology*. M.B., Ch.B. 1956, Liverpool University Medical School. [1969; 1971]
- William G. Cahan, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1966]
- Rolla D. Campbell, Jr., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
- Henry A. Carr, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- Walter W. Y. Chan, *Associate Professor of Pharmacology*. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1970]
- Jacob B. Chassin, *Clinical Associate Professor of Statistics in Psychiatry*. B.S. 1939, City College (New York); M.A. 1949, Ph.D. 1958, George Washington. [1971]
- Aaron D. Chaves, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health*. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]
- Florence Chien Hwa-Chu, *Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956; 1969]
- William N. Christenson, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- Bayard D. Clarkson, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1968]
- Hartwig Cleve, *Associate Professor of Medicine*. A.B. 1946, Helmstedt, Germany; M.D. 1953, University of Göttingen. [1968]
- George O. Clifford, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]
- Eugene E. Clifton, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]
- Eugene J. Cohen, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- Jerome L. Covey, *Clinical Associate Professor of Medicine*. B.A. 1936, Yale; M.D. 1941, Western Ontario. [1970; 1971]
- James L. Curtis, *Associate Dean; Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Albion; M.D. 1946, University of Michigan. [1969]
- B. Shannon Danes, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke; M.A. 1949, University of Texas (Galveston); Ph.D. 1952, State University of Iowa; M.D. 1962, Columbia. [1963; 1967]
- Helen E. Daniells, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- Michael R. Deddish, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- Thomas J. Degnan, *Clinical Associate Professor of Medicine*. Chief, Section of Hematology, North Shore Hospital. B.S. 1952, Rutgers; M.D. 1956, New York. [1969; 1971]
- M. Renate Dische, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1941, Immaculata College; Ph.D. 1953, M.D. 1957, Columbia. [1969]
- John W. Dougherty, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- Howard S. Dunbar, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- Robert E. Eckardt, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Antioch College; M.S. 1939, Ph.D. 1940, M.D. 1943, Western Reserve University. [1944; 1970]
- John H. Eckel, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- George F. Egan, *Clinical Associate Professor of Surgery (Dentistry)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- Kathryn H. Ehlers, *Associate Professor of Pediatrics*. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1970]
- William J. Eisenmenger, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955; 1967]
- Borje E. Ejrup, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute, Stockholm. [1961; 1964]
- Nathan Epstein, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928,

- Columbia; M.D. 1934, Munich. [1946; 1961]
- Henry R. Erle, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1970]
- Hollon W. Farr, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1970]
- Joseph H. Farrow, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- Arthur W. Feinberg, *Clinical Associate Professor of Medicine*. B.A. 1943, M.D. 1945, Columbia. [1969]
- Colin Fell, *Associate Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State. [1962; 1971]
- William F. Finn, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, North Shore Hospital. A.B. 1936, Holy Cross; M.D. 1940, Cornell. [1946; 1971]
- Bernard Fisher, *Clinical Associate Professor of Psychology in Psychiatry*. Associate Attending Psychologist, New York Hospital. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, N.Y.U. [1965; 1969]
- Frederic F. Flach, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peters; M.D. 1951, Cornell. [1954; 1962]
- John T. Flynn, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1970]
- William T. Foley, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- Joseph G. Fortner, *Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- John E. Franklin, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- Edgar L. Frazell, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- Walter L. Freedman, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, DePauw; M.D. 1954, Cornell. [1960; 1969]
- Robert H. Freiburger, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- Alvin H. Freiman, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1967]
- Constance Friess, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- Hortense M. Gandy, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, Westchester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1968]
- Henry Gans, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1955, University of Nymegen, Holland; Ph.D. 1964, Minnesota. [1968]
- William Geller, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- James L. German III, *Clinical Associate Professor of Anatomy*; *Clinical Associate Professor of Human Genetics in Pediatrics*. Associate Attending Pediatrician, New York Hospital; Investigator, New York Blood Center. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- Michael D. Gershon, *Associate Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1969]
- Helena Gilder, *Associate Professor of Biochemistry in Surgery*; *Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- Richard J. Glavin, *Clinical Associate Professor of Psychiatry*. Director of the Division of Psychiatry, North Shore Hospital. B.A. 1951, Cornell; M.D. 1955, Rochester. [1970]
- Martin J. Glynn, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1968]
- Robert B. Golbey, *Clinical Associate Professor of Medicine*. B.S. 1943, Bethany, M.D. 1949, N.Y.U. [1961; 1970]
- Edward I. Goldsmith, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1966]
- Jack Goldstein, *Associate Professor of Biochemistry*. Investigator, New York Blood Center. B.A. 1952, Brooklyn; M.N.S. 1957, Ph.D. 1959, Cornell. [1968]
- Mary E. W. Goss, *Associate Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, State University of Iowa; Ph.D. 1959, Columbia. [1959; 1968]
- Eugene L. Gottfried, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Columbia. [1969]
- Dicran Goulian, Jr., *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, New York Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1968]
- Harry Grabstald, *Associate Professor of Surgery (Urology)*. Associate Attending Urologist, Memorial Hospital. B.S. 1944, Southern Methodist; M.D. 1945, Texas. [1959; 1968]
- Bernice Grafstein, *Associate Professor of Physiology*. B.A. 1951, University of Toronto; Ph.D. 1954, McGill. [1969]
- George F. Gray, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.A. 1956, Texas; M.D., M.S. 1961; Baylor. [1968; 1971]
- Frederick C. Green, *Clinical Associate Professor of Pediatrics*. Associate Attending Physician, New York Hospital. B.S.M. 1942, M.D. 1944, Indiana University. [1970]
- J. Conrad Greenwald, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, North Shore Hospital. B.S. 1942, Michigan; M.D. 1945, New York Medical College. [1954; 1971]
- Stanley Gross, *Clinical Associate Professor of Pathology*. Director of Laboratories, North Shore Hospital. B.S. 1936, M.D. 1939, N.Y.U. [1969]

- Margaret T. Grossi, *Clinical Associate Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1970]
- Herman Grossman, *Associate Professor of Radiology in Pediatrics; Associate Professor of Radiology*. Associate Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964; 1968]
- Peter M. Guida, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1968]
- Armenio Costa Guimaraes, *Visiting Associate Professor of Medicine*. M.D. 1956, Faculty of Medicine, Bahia, Brazil. [1969]
- Keith O. Guthrie, Jr., *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1969]
- Thomas C. Guthrie, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1969]
- Susan J. Hadley, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1968]
- Wilbur D. Hagamen, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- James Q. Haralambie, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1968]
- Rudy H. Haschemeyer, *Associate Professor of Biochemistry*. B.A. 1952, Carthage College; Ph.D. 1957, Illinois. [1967; 1970]
- Lawrence J. Hatterer, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1968]
- Margaret C. Heagarty, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1957, Seton Hall; B.S. 1959, West Virginia; M.D. 1961, Pennsylvania. [1968; 1971]
- Leonard L. Heimoff, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1934, University of Alabama; M.D. 1939, University of Maryland. [1946; 1968]
- Henry O. Heinemann, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1947, University of Amsterdam. [1968]
- Richard Herrmann, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1971]
- Lawrence B. Hobson, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1967]
- James M. Holman, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1969]
- George R. Holswade, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- Melvin Horwith, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- Raymond W. Houde, *Associate Professor of Medicine; Associate Professor of Pharmacology*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1967]
- Allan E. Inglis, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital. Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1967]
- Bernard Jacobs, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S. 1943, University College, London. [1961; 1967]
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- Herbert M. Katzin, *Clinical Associate Professor of Ophthalmology*. M.D. 1937, Harvard. [1970]
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- Frederic T. Kirkham, Jr., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
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- Herbert Koteen, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1967]
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- Martin Lipkin, *Associate Professor of Medicine*. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
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- Aaron J. Marcus, *Associate Professor of Medicine*. B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1967]
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- Lawrence A. Downs, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1959, M.D. 1964, Yale. [1966; 1970]
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- Charles R. Dunbar, *Clinical Assistant Professor of Surgery*. B.S. 1950, M.D. 1954, Georgetown. [1958; 1971]
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- Sidney N. Eichenholtz, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
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- Philip R. Exelby, *Assistant Professor of Surgery*. M.A. 1952; M.D. 1954, The Queens College, Oxford. [1967; 1970]
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- Gordon F. Fairclough, Jr., *Assistant Professor of Biochemistry*. B.A. 1960, Ph.D. 1966, Yale. [1971]
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- Raymond B. Hochman, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Yale; M.D. 1956, Harvard. [1957; 1967]
- Thomas A. Hodgson, Jr., *Assistant Professor of Economics in Public Health*. B.A. 1962, Swarthmore; M.A. 1966, Ph.D. 1969, Cornell. [1968; 1969]
- Seymour Hopfan, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1939, M.D. 1948, Royal College of Edinburgh, Scotland. [1966]
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- M. Dorothea Kerr, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1944, Ohio State; M.D. 1950, Columbia. [1952; 1968]

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- Jeremy M. Kisch, *Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). A.B. 1962, Brooklyn; M.A., Ph.D. 1967, University of Michigan. [1968]
- Harvey Klein, *Assistant Professor of Medicine*. B.S. 1959, Chicago; M.D. 1963, Harvard. [1964; 1970]
- Neil C. Klein, *Clinical Assistant Professor of Medicine*. A.B. 1956, Columbia; M.D. 1960, Cornell. [1961; 1970]
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- Margaret M. Kugler, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Josephs; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]
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- Armand W. Loranger, *Assistant Professor of Psychology in Psychiatry*. B.A. 1952, St. Mary's; M.A. 1955, Ph.D. 1958, Fordham. [1965; 1967]
- Marvin Loring, *Assistant Professor of Radiology*. M.D. 1947, Chicago. [1959; 1970]
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- Lawrence C. Miller, *Clinical Assistant Professor of Psychiatry*. B.A. 1949, Syracuse; M.D. 1955, University of Zurich. [1969]
- Robert B. Millman, *Assistant Professor of Public Health*. B.A. 1961, Cornell; M.D. 1965, S.U.N.Y. (Downstate). [1968; 1970]
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- Kurt C. Rawitt, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Vienna. [1971]
- Joseph V. Raziano, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1958, M.D. 1962, Cornell. [1963; 1970]
- Martha K. Reese, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1927, M.A. 1928, South Carolina; M.D. 1935, Johns Hopkins. [1955; 1971]
- Reuben H. Reiman, *Clinical Assistant Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1947, Columbia; M.D. 1951, S.U.N.Y. (Downstate) [1970]
- John S. Rienzo, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, North Shore Hospital. B.S. 1942, St. John's; M.D. 1945, Marquette. [1953; 1971]
- Arleen B. Rifkind, *Clinical Assistant Professor of Medicine*. Assistant Professor of Pediatrics. B.A. 1960, Bryn Mawr; M.D. 1964, New York University. [1968; 1971]
- Robert R. Riggio, *Assistant Professor of Biochemistry (Surgery); Assistant Professor of Surgery (Biochemistry)*. Assistant Attending Surgeon, New York Hospital. B.A. 1954, Dartmouth; M.D. 1958, New York Medical College. [1966; 1969]
- Abraham Risk, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. 1952, St. Francis Xavier; M.D. 1956, Dalhousie Medical (Halifax). [1962; 1969]
- Philip S. Robbins, *Clinical Assistant Professor of Psychiatry*. A.B. 1948, M.D. 1954, Cornell. [1957; 1970]
- Theodore Robertson, *Clinical Assistant Professor of Pathology*. B.S. 1939, M.D. 1943, Cornell. [1947; 1969]
- Toby C. Rodman, *Assistant Professor of Anatomy*. B.S. 1937, Philadelphia College of Pharmacy and Science; M.S. 1961, Ph.D. 1963, N.Y.U. [1966; 1970]
- Charles E. Rogers, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1942, M.D. 1945, Marquette. [1969]
- Leon Root, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1947, Rutgers; M.D. 1955, New York University. [1961; 1970]
- Norman Rosenthal, *Clinical Assistant Professor of Medicine*. Attending Physician, North Shore Hospital. A.B. 1939, Columbia; M.D. 1943, Virginia. [1951; 1971]
- Melvin S. Rosh, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1956, Hamilton; M.D. 1960, Cornell. [1960; 1970]
- Albert Ross, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1956, Swarthmore; M.D. 1960, Yale. [1964; 1970]
- Plinio Rossi, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1952, University of Rome. [1965; 1967]
- Edmund O. Rothchild, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1953, N.Y.U.; M.D. 1957, Cornell. [1961; 1968]
- Emmanuel Rudd, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- Richard Rutkin, *Assistant Professor of Psychology in Psychiatry*. B.B.A. 1960, M.S. 1962, C.C.N.Y. Ph.D. 1966, Houston. [1968; 1969]
- Gail M. Ryan, *Assistant Professor of Anesthesiology*. Clinical Assistant Anesthesiologist, Memorial Hospital. B.A. 1956, M.D. 1960, University of California. [1964; 1970]
- Richard M. Sallick, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1958, Harvard; M.D. 1962, Cornell. [1964; 1969]
- Lawrence Scharer, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1954, M.D. 1958, Columbia. [1965; 1971]
- Stephen S. Scheidt, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1960, Princeton; M.D. 1965, Columbia. [1968; 1970]
- Ellen Scheiner, *Assistant Professor of Medicine*. A.B. 1952, Brooklyn; M.D. 1960, University of Lausanne (Switzerland). [1962; 1970]
- Alfred L. Scherzer, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1949, M.S.P.H. 1950, Ed.D. 1954, Columbia; M.A. 1957, Yale; M.D. 1963, Columbia. [1964; 1966]
- Marie-Louise Schoelly, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- Edward T. Schubert, *Assistant Professor of Biochemistry*. Assistant Professor of Biochemistry in Pediatrics. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1959; 1969]
- Jean E. Schultz, *Clinical Assistant Professor of Psychiatry*. Assistant Director, Division of Psychiatry, North Shore Hospital. B.S. 1950, Bates; M.D. 1956, Woman's Medical College; M.P.H. 1960, M.S. 1967, Columbia. [1969]
- Seymour Schutzer, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, North Shore Hospital. B.A. 1934, Cornell; M.D. 1942, Queens University (Canada). [1960; 1971]
- Leonard H. Schuyler, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- Ernest Schwartz, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1945, A.M. 1950, M.D. 1951, Columbia [1958; 1963]
- Gabriel H. Schwartz, *Assistant Professor of Biochemistry (Surgery)*. Assistant Attending Surgeon, New York Hospital. A.B. 1958, Princeton; M.D. 1962, Columbia. [1966; 1969]
- Samuel Seal, *Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of

- Chicago. [1956; 1960]  
 William T. Seed, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Williams; M.D. 1962, Cornell. [1966; 1968]  
 Edward E. Seelye, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1948, Columbia; M.D. 1955, Albany. [1958; 1968]  
 Frank A. Seixas, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Cornell; M.A. 1947, M.D. 1951, Columbia [1955; 1968]  
 Henry M. Selby, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]  
 Michael A. Selzer, *Clinical Assistant Professor of Psychiatry; Clinical Assistant Professor of Psychiatry in Pediatrics*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, Stanford; M.D. 1960, Western Reserve. [1966; 1967]  
 John H. Seward, *Clinical Assistant Professor of Otorhinolaryngology*. B.S. 1956, M.A. 1958, Duke; M.D. 1961, New York. [1962; 1970]  
 Charles A. Shamoian, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1954, M.A. 1956, Clark; Ph.D. 1960; M.D. 1966, Tufts. [1966; 1971]  
 William R. Shapiro, *Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1958, University of California (Los Angeles); M.D. 1961, University of California (San Francisco). [1963; 1969]  
 Charles Sheard III, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians, Canada. [1951; 1960]  
 Raymond L. Sherman, *Assistant Professor of Medicine*. A.B. 1956, Columbia; M.D. 1961, S.U.N.Y. (New York City). [1968; 1970]  
 Madoka Shibuya, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1962; 1966]  
 Helen N. Siegrist, *Assistant Professor of Social Work in Psychiatry*. B.A. 1930, Wellesley; M.S.W. 1932, New York School of Social Work. [1959; 1969]  
 Leonard R. Sillman, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1933, M.D. 1937, Chicago. [1970]  
 Frederick Silverman, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Emory; M.D. 1953, Indiana. [1957; 1968]  
 Gerald M. Silverman, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]  
 Robert M. Simon, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1955, Harvard; M.D. 1959, Albert Einstein. [1969]  
 Harry A. Sinclair, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, Amherst; M.D. 1946, Cornell. [1949; 1968]  
 David I. Smith, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1952, Union College; M.D. 1956, New York University. [1960 1966]  
 E. Fletcher Smith, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1924, M.D. 1928, University of Texas. [1943; 1970]  
 James P. Smith, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, M.D. 1960, Georgetown. [1961; 1967]  
 James W. Smith, *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]  
 J. Kelly Smith, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1957, M.D. 1960, Cornell. [1961; 1968]  
 Julius Smith, *Assistant Professor of Radiology*. M.B., Ch.B., 1954, University of Cape Town Medical School; M.R.C.P. 1963, Royal College of Physicians (London); F.F.R. 1968, F.F.R. Faculty of Radiology (England) [1970]  
 Nora Smith, *Clinical Assistant Professor of Psychiatry*. B.S. 1956, Brooklyn; M.D. 1960, S.U.N.Y. (New York City) [1969]  
 Ruth E. Snyder, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]  
 Stuart S. Snyder, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]  
 David Soifer, *Visiting Assistant Professor of Anatomy*. B.S. 1961, Columbia; Ph.D. 1969, Cornell. [1963; 1971]  
 Gail E. Solomon, *Assistant Professor of Neurology in Pediatrics*. Assistant Professor of Neurology. Assistant Attending Physician, New York Hospital. A.B. 1958, Smith; M.D. 1962, Albert Einstein. [1969; 1970]  
 Henry A. Solomon, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1958, M.D. 1962, Columbia. [1969; 1971]  
 Josef Soloway, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1956, Brown; M.D. 1960, New York University. [1961; 1970]  
 James H. Spencer, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst; M.A. 1953, Stanford; M.D. 1960, Cornell. [1962; 1966]  
 Richard M. Stark, *Clinical Assistant Professor of Surgery (Orthopedics)*. Attending Surgeon, North Shore Hospital. B.S. 1953, Union; M.D. 1957, Chicago. [1962; 1971]  
 Thaddeus E. Starzynski, *Assistant Professor of Surgery*. B.S. 1940, M.D. 1943, Pittsburgh. [1970; 1971]  
 Tom G. Stauffer, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Washington University. [1965]  
 Peter H. Stern, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1941, University of Berlin; M.D.B.S., Innsbruck. [1961; 1966]  
 Norma W. Sternberg, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, Memorial Hospital. M.D. 1955, Universidade de Sao Paulo (Brazil). [1958; 1970]  
 Laurence Strauss, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, North Shore Hospital. B.S. 1937, Columbia; M.D. 1943, Middlesex. [1953; 1971]  
 John F. Struve, *Clinical Assistant Professor of*

- Otorhinolaryngology*. Associate Attending Otorhinolaryngologist, New York Hospital. A.B. 1943, Allegheny; M.D. 1947, Jefferson. [1950; 1969]
- William T. Stubenbord, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1958, Yale; M.D. 1962, Cornell. [1962; 1970]
- Joseph D. Sullivan, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- Myron Susin, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1956, Augustana College; M.D. 1960, Illinois. [1969]
- Dieter H. Sussdorf, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- David Susman, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. M.D. 1962, Queen's University (Canada). [1963; 1969]
- Marguerite P. Sykes, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- Endre M. Tarjan, *Assistant Professor of Biochemistry in Medicine*. B.S. 1956, L. Eotvos University (Hungary); Ph.D. 1966, Minnesota. [1970]
- Robert Thoburn, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1963, Florida. [1970]
- Robert J. Timberger, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Cornell. [1961; 1970]
- Ichiro Toida, *Visiting Assistant Professor of Public Health*. M.D. 1953, Tokyo University. [1968]
- Peter S. Tolins, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. Randall Tollefsen, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- Lester M. Tourk, *Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). B.B.A. 1962, M.S. 1965, C.C.N.Y.; Ph.D. 1969, Pittsburgh. [1969]
- Donald Eng Tow, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1955, New York University; M.D. 1959, S.U.N.Y. (Downstate). [1970]
- Lewis N. Travis, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. A.B. 1951, Harvard; M.D., B.S. 1960, Middlesex Hospital Medical School (England). [1965; 1970]
- Peter Tsairis, *Assistant Professor of Neurology*. B.S. 1960, Trinity; M.D. 1965, Cornell. [1971]
- Maurice Tulin, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, North Shore Hospital. B.S. 1938, Trinity; M.D. 1942, Yale. [1945; 1969]
- Arnold Twitz, *Clinical Assistant Professor of Ophthalmology*. M.D. 1948, New York Medical College. [1971]
- Alice Ullmann, *Assistant Professor of Social Work in Medicine*. Casework Supervisor, New York Hospital. B.A. 1947, Manchester (England); M.S.W. 1952, Columbia [1962; 1971]
- Thornton A. Vandersail, *Clinical Assistant Professor of Psychiatry*. A.B. 1950, Wooster; M.D. 1954, Jefferson. [1969; 1971]
- Konstantin P. Veliskakis, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon, Hospital for Special Surgery. M.D. 1948, American University of Beirut. [1967; 1971]
- Louis J. Vorhaus, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- Gary I. Wadler, *Assistant Professor of Medicine*. Assistant Attending Physician, North Shore Hospital. B.S. 1960, Brooklyn; M.D. 1964, Cornell. [1965; 1970]
- Peter S. Walker, *Assistant Professor of Bioengineering in Surgery (Orthopedics)*. Project Engineer, Bioengineering Department, Hospital for Special Surgery. B.A. 1963, M.A. 1966, Cambridge University; Ph.D. 1969, Leeds University (England). [1969]
- Lila A. Wallis, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- Bettina Warburg, *Clinical Assistant Professor of Psychiatry*. A.B. 1921, Bryn Mawr; M.D. 1926, Cornell. [1965]
- Porter H. Warren, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1952, Tulane. [1961; 1968]
- Claude G. Wasterlain, *Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. M.D. 1961, University of Liege (Belgium). [1964; 1970]
- Carolyn W. Watson, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins; M.D. 1949, Maryland. [1965; 1967]
- Henriette L. Wayne, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- John Weber, *Assistant Professor of Anatomy*. B.A. 1961, Columbia; D.D.S. 1965, Columbia. [1967; 1969]
- Clinton G. Weiman, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- Aaron D. Weiner, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1940, Brooklyn; M.D. 1951, Harvard. [1970]
- Howard S. Weiss, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, North Shore Hospital. B.S. 1952, Wagner; M.D. 1956, New York University. [1964; 1971]
- Jay M. Weiss, *Clinical Assistant Professor of Psychiatry in Medicine*. B.A. 1962, Lafayette; Ph.D. 1967, Yale. [1970]
- Babette B. Weksler, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1958, Swarthmore; M.D. 1963, Columbia. [1968; 1970]
- Marc E. Weksler, *Assistant Professor of Medicine*. B.A. 1958, Swarthmore; M.D. 1962, Columbia. [1968; 1970]
- William D. Wheat, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. [1964]
- Stephen White, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1932; 1970]

- Horace W. Whiteley, Jr., *Clinical Assistant Professor of Surgery*. A.B. 1951, Pennsylvania; M.D. 1955, S.U.N.Y. (Upstate). [1962; 1971]
- Alden E. Whitney, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, Clark; M.D. 1959, Cornell. [1967; 1971]
- Carl Wierum, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia; M.D. 1951, Cornell. [1952; 1967]
- Peter G. Wilson, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- Sidney J. Winawer, *Clinical Assistant Professor of Medicine*. A.B. 1952, N.Y.U.; M.D. 1956, S.U.N.Y. (New York City). [1966]
- Patricia H. Winchester, *Assistant Professor of Radiology in Pediatrics; Assistant Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1955, M.D. 1959, Duke. [1960; 1970]
- Michael J. Wolk, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1960, Colgate; M.D. 1964, Columbia. [1969]
- Jack F. Woodruff, *Assistant Professor of Pathology*. Assistant Pathologist, New York Hospital. B.A. 1958, University of Massachusetts; M.D. 1962, Temple. [1970; 1971]
- Katsuhiko Yano, *Assistant Professor of Public Health*. M.D. 1951, Ph.D. 1961, Hiroshima Prefectural Medical College, Japan. [1967]
- Alvin R. Yapalater, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943, Oklahoma; M.D. 1946, Tulane. [1966]
- Samuel D. J. Yeh, *Assistant Professor of Medicine*. M.D. 1948, National Defense Medical Center, Shanghai; D.Sc. 1954, Johns Hopkins. [1965; 1969]
- Charles W. Young, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]
- Louis C. Zang, *Assistant Professor of Psychiatry*. M.D. 1946, Baylor. [1969; 1970]
- Stanley S. Zipser, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]
- Philip H. Zweifach, *Clinical Assistant Professor of Neurology, Ophthalmology; Clinical Assistant Professor of Ophthalmology*. Assistant Attending Neurologist, New York Hospital. B.S. 1957, C.C.N.Y.; M.D. 1961, Cornell. [1965; 1970]
- Richard S. Bailyn, *Medicine*; The New York Hospital; Memorial Hospital, New York, New York
- Charles F. Barer, *Medicine*; Presbyterian-St. Luke's Hospital, Chicago, Illinois
- Julian I. Bindler, *Surgery*; University Hospitals, Madison, Wisconsin
- W. Robert Brinton, *Medicine*; The New York Hospital; Memorial Hospital, New York, New York
- Paul A. Bunn, *Medicine*; H.C. Moffitt-University of California Hospitals, San Francisco
- Lawrence R. Burdge, *Rotating 3*; University of Miami Affil. Hospitals, Miami, Florida
- Stephen W. Burke, *Surgery*; University of Utah Affil. Hospitals, Salt Lake City, Utah
- Fred C. Chu, *Rotating 2*; San Francisco General Hospital, San Francisco, California
- Arnold W. Cohen, *Medicine*; University of Pennsylvania Hospital, Philadelphia, Pennsylvania
- James R. Cohen, *Medicine*; The New York Hospital; Memorial Hospital, New York, New York
- David A. Console, *Medicine*; Univ. of New Mexico Affil. Hospitals, Albuquerque, New Mexico
- Florence G. Crawford, *Pediatrics*; Roosevelt Hospital, New York, New York
- John F. Crowe, *Surgery*; Roosevelt Hospital, New York, New York
- Robert L. Cucin, *Surgery*; The New York Hospital, New York, New York
- John F. Denver, *Medicine*; Harlem Hospital, New York, New York
- Jay G. DuBois, *Pathology*; Massachusetts General Hospital, Boston, Massachusetts
- Stephen C. Duck, *Pediatrics*; St. Louis Children's Hospital, St. Louis, Missouri
- Jeffrey J. Eckardt, *Medicine*; The New York Hospital; Memorial Hospital, New York, New York
- Keith Fortier, *Family Practice*; Highland Hospital, Rochester, New York
- James A. Fry, *Medicine*; Presbyterian-St. Luke's Hospital, Chicago, Illinois
- Kent R. Gamette, *Surgery*; Univ. of Washington Affil. Hospitals, Seattle, Washington
- Walter F. George, *Medicine*; Univ. of Texas Teaching Hospitals, San Antonio, Texas
- Jeffrey N. Gingold, *Rotating 0*; University of New Mexico Affil. Hospitals, Albuquerque, New Mexico
- Robert D. Gordon, *Surgery*; Massachusetts General Hospital, Boston, Massachusetts
- David R. Gutknecht, *Medicine*; Milton S. Hershey Medical Center, Hershey, Pennsylvania
- Eric I. Gutnick, *Rotating 0*; San Francisco General Hospital, San Francisco, California
- Ronald K. Harris, *Surgery*; The New York Hospital, New York, New York
- J. David Haynes, *Pediatrics*; Yale-New Haven Medical Center, New Haven, Connecticut
- B. Frederick Helmkamp, *Surgery*; Vanderbilt Univ. Affil. Hospitals, Nashville, Tennessee
- Wynn H. Hemmert, *Medicine*; H.C. Moffitt-Univ. of California Hospitals, San Francisco
- Richard T. Hoppe, *Medicine*; North Shore Hospital, Manhasset; Memorial Hospital, New York City
- David A. Horvat, *Surgery*; North Shore Hospital, Manhasset; Memorial Hospital, New York City
- John J. Janick, *Medicine*; The New York Hospital; Memorial Hospital, New York, New York
- Ronald S. Kahan, *Medicine*; Mount Sinai Hospital, New York, New York
- David R. Kalifon, *Medicine*; University of California Hospital, Los Angeles, California
- Morton A. Kamzan, *Medicine*; Harlem Hospital, New York, New York
- John A. Kessler, *Medicine*; Mount Sinai Hospital, New York, New York

## Internship Appointments

### Class of 1971

- Gerald F. Abbott, *Pathology*; The New York Hospital, New York, New York
- Francis V. Adams, *Medicine*; Georgetown University Hospital, Washington, D.C.
- Lawrence Y. Agodoa, *Medicine*; Univ. of Washington Affil. Hospitals, Seattle, Washington
- Jeanette Easton Akhter, *Medicine*; Bellevue Hospital Center, New York, New York
- Ronald F. Altman, *Surgery*; University of Washington Affil. Hospitals, Seattle, Washington
- Laurence R. Avins, *Medicine*; Strong Memorial Hospital, Rochester, New York
- Alan S. Bahler, *Medicine*; Peter Bent Brigham Hospital, Boston, Massachusetts



## 74 Students

Mitchell H. Koch, *Surgery*; Stanford University Hospital, Stanford, California  
 Kenneth J. Kurtz, *Medicine*; University Hospital of San Diego County, San Diego, California  
 Gregory M. LaGana, *Medicine*; Harlem Hospital, New York, New York  
 Timothy W. Lane, *Medicine*; University of Pennsylvania Hospital, Philadelphia, Pennsylvania  
 Robert Laureno, *Medicine*; Grady Memorial Hospital, Atlanta, Georgia  
 Wayne L. Letizia, *Rotating 1-6*; Robert Packer Hospital, Sayre, Pennsylvania  
 Barry S. Levy, *Medicine*; University Hospital, Boston, Massachusetts  
 Ivan S. Login, *Medicine*; Milton S. Hershey Medical Center, Hershey, Pennsylvania  
 Richard A. Lynn, *Surgery*; Beth Israel Hospital, Boston, Massachusetts  
 Theo C. Manschreck, *Rotating 0*; San Francisco General Hospital, San Francisco, California  
 Kenneth M. McConnochie, *Pediatrics*; Strong Memorial Hospital, Rochester, New York  
 Sam S. Miller, *Medicine*; Mayo Graduate School of Medicine, Rochester, Minnesota  
 Peter A. Monoson, *Medicine*; The New York Hospital; Memorial Hospital, New York, New York  
 Thomas S. Moore, *Medicine*; Georgetown University Hospital, Washington, D.C.  
 John M. Morse, *Medicine*; Barnes Hospital, St. Louis, Missouri  
 Patrick J. Murphy, *Medicine*; University Hospitals, Madison, Wisconsin  
 Angel J. Olazabal, *Medicine*; North Shore Hospital, Manhasset; Memorial Hospital, New York City  
 Edward C. Palmer, *Rotating 2*; Medical Center Hospitals of Vermont, Burlington, Vermont  
 John C. Perlmutter, *Medicine*; Jewish Hospital, St. Louis, Missouri  
 Eugene J. Pilek, *Rotating 0*; Mary Imogene Bassett Hospital, Cooperstown, New York  
 Henry A. Pitt, *Surgery*; Johns Hopkins Hospital, Baltimore, Maryland  
 Robert L. Protell, *Medicine*; University of Virginia Hospital, Charlottesville, Virginia  
 Marianne N. Prout, *Medicine*; University Hospitals, Madison, Wisconsin  
 Louis E. Rambler, *Medicine*; Johns Hopkins Hospital, Baltimore, Maryland  
 Charles W. Rance, *Surgery*; Roosevelt Hospital, New York, New York  
 J. Peter Roberts, *Medicine*; Univ. of Colorado Affil. Hospitals, Denver, Colorado  
 Robert G. Robinson, *Medicine*; Montefiore Hospital, New York, New York  
 Nancy J. Ronsheim, *Medicine*; Lenox Hill Hospital, New York, New York  
 Steven G. Rosenblatt, *Medicine*; University of California Hospital, Los Angeles, California  
 William A. Ruth, *Medicine*; University Hospital, Boston, Massachusetts  
 Carl H. Sadowsky, *Medicine*; Mary Hitchcock Memorial Hospital, Hanover, New Hampshire  
 Bill S. Schnall, *Pediatrics*; Children's Orthopedic Univ. of Washington, Seattle, Washington  
 Kenneth V. Schwartz, *Medicine*; Boston City Hospital, B. U. Division, Boston, Massachusetts  
 David W. Schwenker, *Medicine*; Mary Hitchcock Memorial Hospital, Hanover, New Hampshire  
 Paul W. Shank, *Surgery*; Los Angeles County Harbor General Hospital, Torrance, California  
 Roger P. Simon, *Medicine*; The New York Hospital; Memorial Hospital, New York, New York  
 Bruce M. Smith, *Medicine*; The New York Hospital; Memorial Hospital, New York, New York

Peter G. Sohnle, *Medicine*; University of Virginia Hospital, Charlottesville, Virginia  
 Donald R. Steinmuller, *Medicine*; Harlem Hospital, New York, New York  
 Nestor B. Tomycz, *Rotating 1, 2*; Greenwich Hospital, Greenwich, Connecticut  
 Russell J. Vergess, *Surgery*; Medical College of Virginia, Richmond, Virginia  
 Michael P. Weinstein, *Pediatrics*; Strong Memorial Hospital, Rochester, New York  
 Robert G. Wickiewicz, *Rotating 0*; U.C.L.A. Affil. Hospitals, Los Angeles, California  
 Richard J. Yeager, *Medicine*; Los Angeles County Harbor General Hospital, Torrance, California

## Students, 1971-72

The name of each student is followed by his degrees, including date and place received, and his home address.

### Fourth Year

Dianne Dilmaghani Aronian; B.S. 1962, Westminster College; New York, New York  
 Robert John Berry; B.S. 1968, University of Utah; Golden, Colorado\*  
 Margaret Johnson Bia; B.S. 1968, Fordham University; Brooklyn, New York  
 Kenneth Ronald Blanchard; S.B. 1961, Massachusetts Institute of Technology, A.M.; Ph.D. 1967, Princeton University; New York, New York  
 Peter Anthony Blasco; B.S. 1967, Georgetown University; Rosemount, Minnesota  
 John Timothy Boyle; B.S. 1968, University of Notre Dame; Suffern, New York  
 Bruce Lawrence Burgreen; B.A. 1968, Queens College; Jamaica, New York  
 Robert William Carlson; B.S. 1968, University of Washington; Mercer Island, Washington  
 Thomas William Castaldo; B.A. 1968, M.S. 1970, Rutgers University; Lindenhurst, New York  
 James Henry Clifford, Jr.; A.B. 1968, Dartmouth College; Merrick, New York  
 John Bennett Coombs; B.S. 1967, University of Washington; Seattle, Washington  
 Thomas James Crawford; A.B. Hamilton College; Whitesboro, New York  
 Henry Leon de Give III; A.B. 1968, College of the Holy Cross; Atlanta, Georgia  
 Robert Gary DeLong; B.A. 1968, Cornell University; Manlius, New York  
 William Augustus Donnelly, Jr.; B.A. 1968, Yale University; Weston, Vermont\*  
 Patricia Anne Duerr; A.B. 1966, College of New Rochelle; Jackson Heights, New York  
 Lawrence H. Ehrlich; B.A. 1968, Western Reserve University; Mamaroneck, New York  
 Lawrence David Eisenhauer; B.A. 1968, Dartmouth College; Barrington, Rhode Island  
 Martin Peter Elliott; B.A. 1968, Reed College; Centerport, New York  
 Robert Patrick Ferguson; B.A. 1968, Cornell University; Slingerlands, New York  
 Frederick John Ferlic; B.S. 1968, University of Notre Dame; Carroll, Iowa  
 David Stoker Folland; B.S., 1968, University of Utah; Salt Lake City, Utah  
 William Webster Frayer; B.S. 1966, M.S. 1968, Cornell University; Endwell, New York  
 Marc Jay Friedman; A.B. 1968, Princeton University; Baltimore, Maryland

\* On leave of absence, research fellowship.

- Steven Michael Friedman; A.B. 1968, Princeton; Baltimore, Maryland
- James Edward Gadek; B.S. 1968, Georgetown University; Woodbridge, New Hampshire
- Frank William Gamache, Jr.; B.A. 1969, Wesleyan University; Madison, Connecticut
- Ralph Joseph Gemelli; B.S. 1968, United States Naval Academy; Jamaica, New York
- Robert Jay Goldenkranz; A.B. 1968, New York University; Brooklyn, New York
- Thomas William Griffin; B.S. 1968, Boston College; Glen Ridge, New Jersey
- Robert Russell Hackford, Jr.; B.A. 1968, Harvard University; Concord, Massachusetts
- Newell Anthony Hargett; B.S. 1968, Xavier University; Maysville, Kentucky
- Daniel Malin Hayes; B.S. 1968, Fairfield University; Hartford, Connecticut
- Paul George Hess; B.A. 1968, Fordham University; Buffalo, New York
- Irving Mark Hiatt; B.A. 1968, Cornell University; Syracuse, New York
- Jonathan Willard Hopkins; B.S. 1966, Massachusetts Institute of Technology; Urbana, Illinois
- James Wethington Husted; B.A. 1968, Villanova University; Rochester, New York
- Barton Inkeles; B.S. 1968, Brooklyn College; New York, New York
- Charles Ignatius Jarowski; B.A. 1968, Columbia University; Massapequa Park, New York
- John Walter Jaski; B.A. 1968, Fordham University; Rome, New York
- David Cedric Jimerson; A.B. 1968, Harvard University; Sinking Spring, Pennsylvania
- Ralph Michael Kamell; B.S. 1968, Cornell University; Elizabeth, New Jersey
- Michael Jerome Kaminsky; B.A. 1967, Yale University; Memphis, Tennessee
- Glen Ray Kartchner; B.S. 1968, University of Arizona; St. David, Arizona
- Kenneth Sherrard Kelleher, Jr.; A.B. 1968, College of the Holy Cross; Alexandria, Virginia
- Martin Barry Keller; B.A. 1968, Dartmouth College; West Hempstead, New York
- Thomas Lyle Kennedy III; B.A. 1968, Princeton University; Allentown, Pennsylvania
- Bart Peter Ketover; A.B. 1968, Princeton University; Hewlett Harbor, New York
- William Barry Kleinman; B.A. 1968, Rutgers University; Glen Rock, New Jersey
- Thomas Monroe Krop; A.B. 1968, Cornell University; McLean, Virginia
- Mary Kathryn Kukulich; A.B. 1968, Cornell University; Kalamazoo, Michigan
- Michael Hugh Lavyne; A.B. 1968, Williams College; Newburgh, New York
- Daniel Lyons Leary, Jr.; A.B. 1960, Harvard University; Newburyport, Massachusetts
- Bruce Kerr Lloyd; B.S. 1968, Pennsylvania State University; Newton Square, Pennsylvania
- Neil Ross MacIntyre, Jr.; B.S. 1968, University of San Francisco; La Jolla, California
- Philip Hugh Maguire; B.S. 1968, St. Peter's College; Belleville, New Jersey
- Jonathan Mardirossian; B.A. 1968, Williams College; White Plains, New York
- Henry Masur; A.B. 1968, Dartmouth College; Washington, D.C.
- Richard Edward Mattison; B.A. 1968, Lafayette College; Bradford, Pennsylvania
- Paul Thomas McDonald; B.S. 1965, United States Military Academy; Rockville Centre, New York
- Donald Harwood Morgan; B.A. 1962, Cornell University; Claymont, Delaware
- Henry Wilke Murray; A.B. 1968, Cornell University; Washington, D.C.
- Michael Anthony Mustille; B.A. 1968, Williams College; Willard, New York
- John Tobias, Nagurney; A.B. 1967, Harvard University; Cornwall, New York
- Peter Edward Nielsen; B.A. 1968, New York University; New York, New York
- Michael William Panio; B.A. 1968, Cornell University; Yonkers, New York
- Joseph Edison Parrillo, Jr.; A.B. 1968, Dartmouth College; Paterson, New Jersey
- James Benjamin Peake; B.S. 1966, United States Military Academy; Kensington, Maryland
- James Stapleton Reilly; B.A. 1966, Fordham University; M.S. 1968, Boston College; Forest Hills, New York
- Robert John Riesenfeld; A.B. 1968, Duke University; Oradell, New Jersey
- Peter Scott Robinson; A.B. 1968, Cornell University; Findley Lake, New York
- Jon Anderson Rothenberg; A.B. 1963, Harvard University; Pittsburgh, Pennsylvania
- Brian Raymond Rutley; B.A. 1967, University of San Francisco; Inglewood, California
- Judith Anne Scheraga; B.A. 1968, Cornell University; Ithaca, New York
- William Norman Scott; B.A. 1968, University of Pennsylvania; Jersey City, New Jersey
- Ryan Stuart Searle; B.S., 1968, University of Utah; Salt Lake City, Utah
- Geoffrey William Sheridan; B.S. 1968, Rensselaer Polytechnic Institute; Massapequa, New York
- Barry Hamilton Smith; A.B. 1965, Harvard University; Ph.D. 1968, Massachusetts Institute of Technology; Greenwich, Connecticut
- Joseph Lorenzo Smith; 1970, B.S. University of Utah; Green River, Wyoming
- Thomas William Smith; 1968, B.S. Ohio State University; Columbus, Ohio
- James Morgan Sprott, Jr.; B.A. 1967, Vanderbilt University; Lake Wales, Florida
- Dorothy Jacqueline Stein; B.A. 1968, University of Pennsylvania; Philadelphia, Pennsylvania
- Mark Andrew Sullivan; A.B. 1968, College of the Holy Cross; Springfield, Massachusetts
- Karl Chia-Tsen Sze; B.A. 1968, Cornell University; Upper Montclair, New Jersey
- Frederick Elliot Tabachnick; B.A. 1968, Queens College; Bayside, New York
- Jerome William Takiff; B.A. 1968, Rutgers University; Elizabeth, New Jersey\*
- Richard Harrison Tuck; A.B. 1968, Franklin and Marshall College; Johnstown, Pennsylvania
- Richard Walter Urbanek; B.A. 1968, Queens College; Floral Park, New York
- Jeffrey David Urman; B.S. 1967, University of Connecticut; Stamford, Connecticut
- August John Valenti; B.S. 1968, Saint Peter's College; Wayne, New Jersey
- Mark Vrana; B.S. 1968, Cornell University; Ithaca, New York
- Robert Alan Weinstein; A.B. 1968, Cornell University; Chicago, Illinois
- Roy Glen Wiggins III; A.B. 1968, Bucknell University; Westport, Connecticut
- Donald Drake Wilson; B.A. 1968, Colgate University; Ridgewood, New Jersey
- Stephen George Wood; B.A. 1968, Stanford University; Palo Alto, California

\* On leave of absence, research fellowship

## Third Year

- Robert Irving Appel; B.A. 1969, Columbia University; New York, New York
- John Richard Batiuchok; B.A. 1969, Princeton University; Flushing, New York
- Neil Arnold Beinhaker; B.A. 1969, Princeton University; Union, New Jersey
- Stuart Michael Bergman; B.A. 1969, Harpur College; Cedarhurst, New York
- James Lawrence Bernat; B.A. 1969, University of Massachusetts; Cincinnati, Ohio
- William Roscoe Blankenship; B.A. 1969, University of Nebraska; Lincoln, Nebraska
- Esther Skorr Bleier; B.A. 1969, Stony Brook, New York; New York, New York
- Henry Robert Bleier; B.S. 1969, City College of New York; New York, New York
- William Charles Bond; B.S. 1962, United States Naval Academy; Memphis, Tennessee
- Francis Joseph Browne; B.S. 1969, Georgetown University; Brooklyn, New York
- Amelia Burnham; B.A. 1969, Middlebury College; Bethesda, Maryland
- Richard Michael Cabot; B.S. 1968, Dickinson College; Ardsley, New York
- David Jay Caro; B.A. 1969, University of Chicago; Hackensack, New Jersey
- Nora Cooke; B.S., 1968, Tulane University; Mexico City, Mexico
- Peter James Corines; B.S. 1969, Rensselaer Polytechnic Institute; Brooklyn, New York
- Ralph Carl Dilorio; B.A. 1969, Fordham University; Yonkers, New York
- Craig Bruce DuMont; B.S. 1969, Cornell University; Walton, New York
- Allen Marshall Epstein; B.A. 1969, New York University; Brooklyn, New York
- Lonnie Marc Epstein; B.S. 1969, Dickinson College; Pound Ridge, New York
- Joseph Feinberg; A.B. 1969, Cornell University; Westbury, New York
- Gregory Alan Filice; B.A. 1969, University of California (Berkeley); Orinda, California
- Bertram Martin Froehly, Jr.; B.S. 1969, Tulane University; Vandalia, Illinois
- Allan Gibofsky; B.S. 1969, Brooklyn College; New York, New York
- George Mendel Goldmark; B.S., M.S., 1969, Massachusetts Institute of Technology; New York, New York
- Harry Goldmark; B.S., M.S. 1969, Massachusetts Institute of Technology; New York, New York
- Howard Monroe Greilsheimer; B.S. 1969, City College of New York; New York, New York
- Douglas Russell Hadley; B.A. 1969, University of Utah; Salt Lake City, Utah
- Edward Louis Hedlund; B.S. 1969, Iowa Wesleyan College; Ottumwa, Iowa
- William Peden Homan; B.A. 1969, Williams College; White Plains, New York
- David Daniel Hunt; B.S. 1969, University of Washington; Ferndale, Washington
- Richard Paul Ingrassi; B.A. 1969, Cornell University; Niagara Falls, New York
- Jonathan Elliot Kaplan; B.A. 1969, Cornell University; Columbus, Ohio
- Stephen Rogers Karl; B.A. 1969, Cornell University; Etna, New Hampshire
- Allan Lee Kayne; B.A. 1969, University of Virginia; Richmond, Virginia
- Thomas Joseph Kinane; B.S. 1966, United States Military Academy; Brooklyn, New York
- Daniel Benjamin Klein; B.A. 1969, Dartmouth College; Glen Cove, New York
- Mark Steven Joel Klempner; Tulane University; Miami Beach, Florida
- Lawrence William Koblenz; B.A. 1969, Columbia University; New York, New York
- Jerold Jay Kreisman; B.S. 1969, Washington University; St. Louis, Missouri
- Roy Gerald Kulick; B.A. 1969; New York University; Bronx, New York
- Paul Bruce Lang; B.A. 1969, New York University; Flushing, New York
- Gerard Vincent LaSalle; B.A. 1969, Reed College; Portland, Oregon
- Charles Steven Levy; A.B. 1969, Washington University; Butler, Missouri
- Gary Charles Linn; A.B. 1969, Rutgers University; Union City, New Jersey
- Richard Michael Linchitz; A.B. 1967, Cornell University; Roslyn, New York
- Benjamin Alan Lipsky; B.A. 1969, Queens College; New York, New York
- Dennis Joseph Lutz; B.S. 1969, Montana State University; Havre, Montana
- John Joseph Malgieri; B.A. 1969, College of the Holy Cross; Crestwood, New York
- Albert Henry Mangold; B.S. 1969, Union College; Albany, New York
- Mark Harris Mazur; B.S. 1969, Brooklyn College; New York, New York
- Dennis Bernard McIntyre; A.B. 1969, Fordham University; Port Washington, New York
- Philip John McWhorter; B.S. 1969, St. Lawrence University; Argyle, New York
- Paul Alan Menitoff; B.J.Ed. 1967, Hebrew Teachers College; B.A. 1969, Harvard University; Chestnut Hill, Massachusetts
- John Albert Michal III; B.A. 1969, Cornell University; Homewood, Illinois
- Jay Allan Midwall; B.A. 1969, Queens College; Forest Hills, New York
- John Pope Mitchell; B.A. 1969, Cornell University; Brooklyn, New York
- Michael John Murphy; A.B. 1969, Northwestern University; Neenah, Wisconsin
- Stuart Bruce Mushlin; B.A. 1969, University of Rochester; New City, New York
- Peter T. Nieh; B.A. 1969, Cornell University; New Hyde Park, New York
- Terrence Adams O'Malley; B.A. 1969, Amherst College; Amherst Massachusetts
- Neil Edward Pauker; A.B. 1969, Princeton University; Kingston, New York
- Jon Arthur Perlman; B.A. 1969, Lafayette College; Belle Harbor, New York
- Jeffrey Manning Piehler; B.A. 1969, Williams College; Williamstown, Massachusetts
- Vincent Gregory Pons; B.S. 1969, Georgetown University; Belleville, New Jersey
- Joseph Anthony Putrino; B.S. 1969, St. Peter's College; Union City, New Jersey
- John Christopher Quatromoni; B.A. 1969, Fordham University; Milton, Massachusetts
- Neil Douglas Ravin; A.B. 1969, Brown University; Bethesda, Maryland
- Lawrence Tuck Reese; B.A. 1969, New York University; Flushing, New York
- Brendan Michael Reilly; B.A. 1969, Fordham University; New York, New York
- Philip Cullen Reilly; B.A. 1968, Fordham University; New York, New York
- William Marvin Riedesel II; B.A. 1968, University of Rochester; Denver, Colorado
- John Francis Romano; B.S. 1969, St. Peter's College; Staten Island, New York

- Stanley Harvey Rosenbaum; A.B. 1967, Columbia University; M.A. 1969, Harvard University; Brooklyn, New York
- Michael Wayland Rubottom; B.S. 1968, San Diego State College; La Mesa, California
- Richard Joseph Ryter; B.A. 1969, College of the Holy Cross; West Hartford, Connecticut
- Arthur Barry Sanders; B.A. 1969, Brooklyn College; New York, New York
- William Michael Scheld; B.S. 1969, Cornell University; Ithaca, New York
- Edward Michael Sessa; B.A. 1969, College of the Holy Cross; Bronxville, New York
- Clifford Jay Simon; B.A. 1967, Swarthmore College; Tenafly, New Jersey
- Mark Charles Sivakoff; B.A. 1969, Queens College; Flushing, New York
- Jechezkiel Jack Skowronski; B.A. 1969, Brandeis University; Bridgeport, Connecticut
- Sherman Gordon Sorensen; B.A. 1969, University of Utah; Salt Lake City, Utah
- William Farnham Taylor; B.A. 1969, Yale University; Byram, Connecticut
- JoAnn Theodore; B.A. 1969, Cornell University; Lake Placid, New York
- Richard Englund Tosi; B.S. 1969, Trinity College; Shrewsbury, Massachusetts
- Robert Keith Von Rueden; B.A. 1969, University of Notre Dame; East Troy, Wisconsin
- Franzanne Vreeland; A.B. 1969, Cornell University; Schenectady, New York
- Brian Keith Walker; B.A. 1969, Princeton University; University Park, Pennsylvania
- Nicholas Geoffrey Ward; B.A. 1969, Cornell University; Green Village, New Jersey
- Jeffrey Stephen Wasser; B.A. 1969, Rutgers University; Somerville, New Jersey
- Robert Claringbold Young; B.A. 1969, Williams College; Binghamton, New York\*
- David Zigelman; B.A. 1969, Yeshiva University; North Bergen, New Jersey
- George Caldwell Ellis; B.A. 1970, Brown University; New York, New York
- John Benjamin Famiglietti; B.S. 1970, St. Peter's College; Jersey City, New Jersey
- Joseph Finkelstein; B.A. 1970, Hofstra University; New York, New York
- David Roger Fulton; A.B. 1970, Clark University; Scarsdale, New York
- Roger Dale Gingrich; B.A. 1970, Macalester College; Roanoke, Illinois
- Burton Mark Gold; B.A. 1970, New York University; Scarsdale, New York
- Alan Warren Goldfeder; B.S. 1970, McGill University; Norwalk, Connecticut
- Daniel Benjamin Goodman; B.A. 1970, Yale University; North Caldwell, New Jersey
- Terrence Lynn Goodman; B.A. 1970, Cornell University; Williamsport, Pennsylvania
- Jane Margaret Grant; A.B. 1971, Smith College; Rye, New York
- Steven Ifor Gutman; B.S. 1970, Ohio State University; Dayton, Ohio
- Roger Pettit Harrie; B.S. 1970, University of Utah; Salt Lake City, Utah
- Joseph Laverne Harris; B.S. 1970, American University; Washington, D.C.
- Henry Jim Hernandez; B.A. 1970, City College of New York; Bronx, New York
- Roger Glennie Hicks; A.B. 1970, Brown University; Rochester, New York
- Stephen Lev Hoffman; B.A. 1970, University of Pennsylvania; Deal Park, New Jersey
- George Perry Hubert; B.S. 1967, United States Military Academy; Merrick, New York
- Cosmo Gordon Jacobs; B.A. 1970, Hampton Institute; Antigua, West Indies
- Alan Howard Jaffe; B.A. 1970, Amherst College; Great Neck, New York
- Marc Edward Kaminsky; B.A. 1970, Emory University; Savannah, Georgia
- Eric John Kawaoka; B.A. 1970, University of Hawaii; Honolulu, Hawaii
- Barry Dana Kels; B.A. 1970, Franklin and Marshall College; Merrick, New York
- Paul King; B.A. 1965, Brooklyn College; M.S. 1969, Long Island University; Brooklyn, New York
- Robert William Kohn; B.A. 1970, Yale University; Elkins Pk., Pennsylvania
- John Newton Krieger; A.B. 1970, Princeton University; Ellenville, New York
- Gilbert Joseph Kuhn; B.A. 1967, University of San Francisco; San Francisco, California
- Carl Martin Leichter; B.A. 1970, Kenyon College; Woodmere, New York
- Marshall Richard Levine; B.A. 1970, Emory University; Miami Beach, Florida
- Sidney Leonard Levinson; B.A. 1970, Cornell University; Middletown, Connecticut
- Stuart Bryson Ley; B.A. 1970, Dartmouth College; Rye, New York
- Laurence Howard Lief; B.A. 1970, Princeton University; Olivette, Missouri
- Ka-Shui Lo; B.S. 1970, McGill University; Hong Kong, China
- Richard Nathan Lopatin; B.A. 1970, Wesleyan University; Fairfield, Connecticut
- Scott Lyman Maass; B.S. 1970, University of California (Davis); Sacramento, California
- Robert William Mackie; B.A. 1970, Hobart College; Cooperstown, New York
- Leonard Louis Magnani; B.A. 1966, Queens College; M.A. 1967, Queens College; Ph.D. 1970, Stanford University; Stanford, California
- Philip John Makowski; B.S. 1970, Georgetown

## Second Year

- Victor Paul Addonizio; B.A. 1970, New York University; Brooklyn, New York
- Francis Peter Arena; B.S. 1970, Fordham University; Forest Hills, New York
- John Bruce Bartolini; B.A. 1970, Cornell University; Morristown, New Jersey
- Frederick Calvin Basilico; B.S. 1970, Fairfield University; Providence, Rhode Island
- Charles Francis Besanceney; B.S. 1968, United States Military Academy; Elmira, New York
- Rita Ann Blanchard; B.A. 1966, Vassar College; New York, New York
- James Ferdinand Caravelli; B.S. 1970, University of Illinois; No. Chicago, Illinois
- Dominick Raymond Chiarieri; B.S. 1970, St. Peter's College; Belleville, New Jersey
- Arvin Hong Chin; B.S. 1970, Cornell University; Queens, New York
- Michael Alton Chizner; B.A. 1970, New York University; Laurence, New York
- Steven Norton Cohen; A.B. 1970, Boston University; Hartford, Connecticut
- Sol Jay Dan; B.A. 1970, Yeshiva University; Memphis, Tennessee
- Allan Roy De Jong; A.B. 1970, Colgate University; Hawthorne, New Jersey
- Sharon Lillian Elefant; A.B. 1970, Cornell University; New York, New York

\* On leave of absence, research fellowship.



University; Williston Park, New York  
 Paul Maller; B.A. 1970, Queens College; Jamaica; New York  
 Robert Philip Mantica; B.A. 1970, Amherst College; Milton, Massachusetts\*  
 David Alan Mayer; A.B. 1970, Lafayette College; New York, New York  
 Richard Lucas McCann; B.A. 1970, Middlebury College; Yarmouth, Maine  
 Thomas Patrick McGovern; B.E.E. 1968, Manhattan College; New York, New York  
 Jay Blaine Miller; B.A. 1970, Cornell University; York, Pennsylvania  
 Paul David Mitnick; B.A. 1970, Cornell University; Plainview, New York  
 Richard Michael Moccia; B.A. 1970, Columbia University; Bronx, New York  
 Mark Harlow Montgomery; B.A. 1970, Denison University; Springfield, Illinois  
 John Edward Nees; B.S. 1970, Cornell University; Lafayette, Indiana  
 Judith Ann Nowak; B.A. 1970, Cornell University; Romulus, New York  
 Bella Pace; B.A. 1970, Cornell University; New York, New York  
 Lynda Michele Parker; B.A. 1968, C.W. Post College, M.S. 1970, New York University; Philadelphia, Pennsylvania  
 Winston St. Clair Price; B.A. 1970, Brooklyn College; Brooklyn, New York  
 Peter Francis Purcell; B.A. 1970, College of the Holy Cross; Schenectady, New York  
 Robert James Quinet; B.A. 1970, Rutgers College; Edison, New Jersey  
 John Scott Raymond; B.S. 1970, Utah State University; Logan, Utah  
 William Vincent Rees; B.A. 1970, University of Utah; Salt Lake City, Utah  
 Robert Allan Reichert; B.A., 1970, Amherst College; Wilmette, Illinois  
 Gene David Resnick; B.S. 1970, Cornell University; Oceanside, New York  
 Charles Milton Rhodes; B.A. 1970, Hampton Institute; Elizabethtown, North Carolina  
 Ronald Nathan Riner; B.A. 1970, Princeton University; Peekskill, New York  
 Allan Howard Ropper; B.A. 1970, Cornell University; New York, New York  
 Alfred Sakradse; B.A. 1970, Queens College; College Point, New York  
 James Tahlman Saunders; B.A. 1970, Hampton Institute; Antique, West Indies  
 Henry Mark Scagliola; B.A. 1970, Fordham University; New York, New York  
 Thomas John Schreiber; B.S. 1970, Muhlenberg College; Vetnor, New Jersey  
 Kenneth James Smith; B.A. 1970, Fordham University; White Plains, New York  
 Peter Howard Stone; B.A. 1970, Princeton University; Maplewood, New Jersey  
 Donald Folusho Temple; B.A. 1970, Hampton Institute; Sierra Leone, West Africa  
 Ronald Seymour Weaver; B.S. 1970, Hobart College; St. Albans, New York  
 Michael Alan Weitz; B.S. 1970, Muhlenberg College; Woodbury, New York  
 Robert Lloyd Weston; B.A. 1970, Rutgers University; Sussex, New Jersey  
 Charles Warren Whitney; B.A. 1970, Alfred University; Chemung, New York  
 Barry Martin Wilkes; B.A. 1970, New York University; Brooklyn, New York

\* On leave of absence, research fellowship.

Lytton Ade-Kunle Williams; B.A. 1970, Hampton Institute; Sierra Leone, West Africa  
 Richard John Yarger; B.A. 1970, Northwestern University; Dayton, Ohio  
 Michael James Zema; B.S. 1970, Fordham University; East Paterson, New Jersey

## First Year

Judith Leslie Adler; B.S. 1971, Cornell University; New York, New York  
 Lorraine Christian Allen; B.S. 1971, Long Island University; New York, New York  
 Thomas Michael Anger; B.A. 1966, Lawrence University; M.S. 1968, University of Wisconsin; Oshkosh, Wisconsin  
 Paul Mark Baker; B.S. 1971, Davidson College; Miami, Florida  
 Patrick Laselve Ballen; B.A. 1971, Queens College; Laurelton, New York  
 Warrick Lee Barrett; A.B. 1971, Saint Louis University; Springfield, Ohio  
 Thomas Russell Beck; B.S. 1971, Yale University; Belmont, Massachusetts  
 Richard Albert Berg; B.A. 1971, Williams College; Carlisle, Pennsylvania  
 Roger Glen Berlin; B.A. 1971, Queens College; Bayside, New York  
 Richard Bruce Birrer; B.A. 1971, Lehigh University; Morristown, New Jersey  
 Deborah Blum; B.A. 1971, Smith College; Maplewood, New Jersey  
 Helen Elizabeth Blumen; B.A. 1971, Radcliffe College; Ithaca, New York  
 David Steven Blumenthal; A.B. 1971, Cornell University; Westbury, New York  
 Richard Scott Boas; A.B. 1971, Cornell University; Great Neck, New York  
 Jeffrey Norman Bradshaw; B.S. 1971, Brooklyn College; Brooklyn, New York  
 Alan Norman Braverman; A.B. 1971, Hamilton College; Cradell, New Jersey  
 Stuart Paul Brogadir; B.A. 1971, Yale University; Ansonia, Connecticut  
 Robert Edmund Burke; B.A. 1971, Dartmouth College; Trumbull, Connecticut  
 Edmund Y.M. Chein; A.B. 1971, University of Southern California; Los Angeles, California  
 Michael Oliver Christian; B.A. 1971; Hofstra University; Christiansted, Virgin Island  
 Paul Allan Church; B.S. 1971, Pennsylvania State University; Chappaqua, New York  
 Kenneth Howard Cohen; B.S. 1971, City College of New York; Yonkers, New York  
 Richard Peter Cohen; A.B. 1971, Clark University; Roslyn Heights, New York  
 Richard Lee Curtis; B.A. 1971, Boston University; West Roxbury, Massachusetts  
 Thomas John Delaney; B.A. 1971, Cornell University; Oneonta, New York  
 James Anthony Diggs; B.A. 1971, Hampton Institute; Washington, D.C.  
 Roger Gordon Faix; A.B. 1971, Dartmouth College; Woodbury, New Jersey  
 Virginia Mary Fallon; B.A. 1971, Wellesley College; Needham, Massachusetts  
 Joseph Peter Ferrara; B.S. 1971, Fairfield University; Wantagh, New York  
 Elvira Ann Foglia; B.S. 1971, Fordham University; Brooklyn, New York  
 Stuart Warren Fox; B.A. 1971, Cornell University; Cliffside Park, New Jersey  
 Roger William Geiss; B.S. 1969, Georgetown University; Pearl River, New York

- Matthew David Gold; B.S. 1971, Yale University; Brooklyn, New York
- Paul Bernard Goldberg; B.A. 1971, Cornell University; Hollis, New York
- Milagros Gonzalez; B.S. 1971, City College of New York; New York, New York
- Steven Marc Grunberg; B.A. 1971, Cornell University; North Caldwell, New Jersey
- Daniel Francis Hanley; B.A. 1971, Williams College; Brunswick, Maine
- Norman Millard James; A.B. 1971, Rutgers University; Trenton, New Jersey
- David Rees Jones; B.S. 1971, Ohio State University; Ithaca, New York
- George Paul Kacyanis; B.A. 1971, Columbia University; Somerville, Massachusetts
- Richard Steven Kampf; B.S. 1971, Washington & Lee University; Scarsdale, New York
- Thomas Martin Kelly; B.A. 1971, Fordham University; Buffalo, New York
- Stephen Jeffrey Kornfeld; B.A. 1971, Union College; Roslyn Heights, New York
- Dennis Bruce Kottler; B.A. 1971, Yale University; Elizabeth, New Jersey
- Andrew Kwait; B.A. 1971, Washington University; Clayton, Missouri
- Suzanne Paula Lagarde; B.A. 1971, Fordham University; Westport, Massachusetts
- Cleland Campbell Landolt; A.B. 1971, Harvard University; Rye, New York
- Robert Alan Linden; B.A. 1971, Cornell University; Rye, New York
- John Christopher Luke; B.S. 1971, Wagner College; Staten Island, New York
- Christopher John Lynch; A.B. 1971, Holy Cross College; Bethel, Connecticut
- James Cardie Macmillan; B.A. 1971, Cornell University; North Babylon, New York
- Maughn Matsuoka; S.B. 1971, Massachusetts Institute of Technology; Honolulu, Hawaii
- Richard Ronald McCormack, Jr.; A.B. 1969, Cornell University; Ph.D. 1971, Cornell University Medical School; Nutley, New Jersey
- Michael Kent McLeod; B.A. 1971, Brooklyn College; Brooklyn, New York
- Carlyle Harvey Miller; B.A. 1971, Columbia University; Bronx, New York
- Paul Frederick Miskovitz; B.S. 1971, SUNY at Stony Brook; Lawrence, New York
- Alan Arthur Morgenstein; B.S. 1971, SUNY at Stony Brook; Brooklyn, New York
- James Harvey Newman; A.B. 1971, Cornell University; Scranton, Pennsylvania
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- Mary Margaret O'Sullivan; B.A. 1971, Fordham University; Bronx, New York
- Jean William Pape; B.S. 1971, Columbia University; Elmhurst, New York
- Paul Mario Pellicci; B.A. 1971, The Johns Hopkins University; Glen Rock, New Jersey
- Jane Veronica Petroff; B.A. 1971, Cornell University; Monmouth, New Jersey
- William John Powers; B.A. 1971, Dartmouth College; Westport, Connecticut
- Richard Merritt Reich; B.A. 1971, Yale University; New Rochelle, New York
- Richard George Robinson; A.B. 1971, Oberlin College; Lynbrook, New York
- Joel Martin Rosen; B.S. 1971, Brooklyn College; Brooklyn, New York
- Russell Lloyd Ranson Ryan; B.A. 1971, Amherst College; E. Grand Rapids, Michigan
- Howard Irwin Schenker; B.A. 1971, Cornell University; Freeport, New York
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- Steven Fred Seidman; B.S. 1971, University of Pennsylvania; Philadelphia, Pennsylvania
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- Mark Alan Spiegel; B.A. 1971, Yale University; Washington, D.C.
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- David Velez; B.S. 1971, Fordham University; New York, New York
- Douglas Malcolm Vogeler; B.A. 1971, Kenyon College; Cincinnati, Ohio
- Arthur Warren Wardell; A.B. 1971, Cornell University; Babylon, New York
- Sharon LaVerne Wardlaw; B.S. 1970, Cornell University; Scarsdale, New York
- Hubert Weinberg; B.A. 1971, Yeshiva University; Spring Valley, New York
- Judith Whitcomb; B.A. 1967, Mount Holyoke College; M.P.H. 1971, Yale University; W. Hartford, Connecticut
- Michele Linda Winter; B.A. 1971, Barnard College; Brooklyn, New York
- Arnold David Yagoda; B.A. 1971, Yeshiva University; Flushing, New York
- Wilfred Wee Bin Yee; B.A. 1971, University of Hawaii; Honolulu, Hawaii

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