

Cornell University

ANNOUNCEMENTS

The Medical College



1966-67

CORNELL UNIVERSITY ANNOUNCEMENTS

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CORNELL UNIVERSITY ANNOUNCEMENTS

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Cornell University

The Medical College

1966-67

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Contents

5	CALENDAR
7	THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER
10	FACULTY
38	CORNELL MEDICAL COLLEGE
45	REQUIREMENTS FOR ADMISSION AND GRADUATION
51	GENERAL INFORMATION
51	Fees and Expenses
52	Residence Halls
52	Health Service
53	Financial Aid
63	Organizations
65	EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION
68	DESCRIPTION OF COURSES
68	Anatomy
70	Biochemistry
71	Medicine
78	Medical Comprehensive Care
78	Microbiology
80	Obstetrics and Gynecology
83	Pathology
85	Pediatrics
87	Pharmacology
88	Physiology and Biophysics
89	Psychiatry
92	Public Health
94	Radiology
96	Surgery
103	SPECIAL STUDENTS
104	TABLE OF REQUIRED HOURS
109	GRADUATE SCHOOL OF MEDICAL SCIENCES
113	INTERNSHIP APPOINTMENTS, CLASS OF 1966
114	REGISTER OF STUDENTS, 1966-1967
122	REGISTER OF COLLEGE AND SLOAN-KETTERING STAFFS
	INDEX, <i>inside back cover</i>

1966

July

S

M

T

W

T

F

S

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

August

S

M

T

W

T

F

S

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

September

S

M

T

W

T

F

S

4

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8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

October

S

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W

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5

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7

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11

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13

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15

16

17

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19

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22

23

24

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26

27

28

29

30

31

November

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M

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F

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6

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8

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11

12

13

14

15

16

17

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24

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26

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30

December

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13

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22

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24

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26

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28

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30

31

1967

January

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M

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31

Calendar

Registration; instruction begins for fourth year, first division
 Independence Day, holiday
 Second division begins for fourth year
 Labor Day, holiday
 Examinations for conditioned students
 Registration for first, second, and third years
 Opening Exercises, 3:30 p.m.
 Instruction begins for first, second, and third years
 Third division begins for fourth year
 Thanksgiving Day, holiday
 Fourth division begins for fourth year
 End of fall term for first and second years, 1 p.m.
 Beginning of winter term for third year
 Examinations for first and second years
 Beginning of winter term for first and second years
 Instruction ends, 1 p.m., Christmas recess begins
 Christmas holiday

New Year's holiday
 Christmas recess ends, instruction begins
 Fifth division begins for fourth year
 Winter term ends for third year, 1 p.m.
 Spring recess for third year
 Winter term ends for first and second years, 1 p.m.
 Spring term begins for third year
 Examinations for second year
 Examinations for first year
 Spring recess for second year
 Spring term begins for first and second years
 Spring recess for fourth year
 Sixth division begins for fourth year
 Spring recess for first year
 Instruction ends for third year
 Instruction ends for fourth year
 Examinations for third year
 Memorial Day, holiday
 Examinations for fourth year
 Instruction ends for second year
 Examinations for second year
 Commencement, 3 p.m.
 Instruction ends for first year
 Examinations for first year

1966

June 20
 July 4
 Aug. 11
 Sept. 5
 Sept. 8 & 9
 Sept. 9 & 12
 Sept. 12
 Sept. 13
 Oct. 3
 Nov. 24
 Nov. 25
 Nov. 26
 Nov. 28
 Nov. 28-Dec. 3
 Dec. 5
 Dec. 17
 Dec. 26

1967

Jan. 2
 Jan. 3
 Jan. 30
 Feb. 25
 Feb. 26-Mar. 5
 Mar. 4
 Mar. 6
 Mar. 6-11
 Mar. 6-18
 Mar. 12-19
 Mar. 20
 Mar. 25-Apr. 2
 Apr. 3
 Apr. 16-23
 May 20
 May 25
 May 22-27
 May 30
 May 27-June 1
 June 3
 June 5-7
 June 7
 June 10
 June 12 & 13



Cornell University

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

E. Hugh Luckey, President

The New York Hospital-Cornell Medical Center

James A. Perkins

Arthur H. Dean

Stanton Griffis

Kenneth H. Hannon

Francis Kernan

Frederick K. Trask, Jr.

Walter B. Wriston

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, 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.

8 STANDING COMMITTEES

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 \$....."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

OFFICERS OF ADMINISTRATION

James A. Perkins, President of the University
E. Hugh Luckey, Vice-President for Medical Affairs-Cornell University
John E. Deitrick, Dean of the Medical College
J. Robert Buchanan, Associate Dean
Lawrence W. Hanlon, Associate Dean
Edward K. Taylor, Assistant Treasurer and Business Manager
Emiko Akiyama, Acting Librarian
Ann Breen, Director of Public Information
Bruce H. Ewald, Director of Laboratory Animal Medicine

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A. Whitley Branwood	E. Hugh Luckey
John E. Deitrick	Wallace W. McCrory
Vincent du Vigneaud	Walsh McDermott
John A. Evans	Robert F. Pitts
Fritz F. Fuchs	Walter F. Riker, Jr.
Frank Glenn	William F. Scherer
	Roy C. Swan

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Henry Mannix
Thomas H. Meikle, Jr.
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 Goran Bauer
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 George B. Brown
 Eric T. Carlson
 Lawrence W. Hanlon
 John MacLeod
 Victor F. Marshall
 Julian R. Rachele
 Doris Schwartz
 Pauline Vaillancourt

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John E. Deitrick, Chairman
 Heads of departments, or their representatives, responsible for the more important courses of each year.

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 Goran C. H. Bauer
 Dorothea Bennett
 Edward W. Hook, Jr.
 Edwin D. Kilbourne
 Frank G. Standaert

Scholarships

Walter F. Riker, Chairman
 J. Robert Buchanan
 William D. Cash
 Roger L. Grief
 Thomas Killip III
 Richard N. Kohl
 Fred Plum

FACULTY*

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
MCKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
ANTHONY C. CIPOLLARO, M.D. [1948; 1966]	<i>Clinical Professor of Medicine</i> (Dermatology)
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
EDWARD H. DENNEN, M.D. [1933; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
R. GORDON DOUGLAS, M.D. [1932; 1965]	<i>Professor of Obstetrics and Gynecology</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
CLAUDE E. FORKNER, M.D. [1938; 1966]	<i>Clinical Professor of Medicine</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor Pharmacology</i>
PHYLLIS GREENACRE, M.D. [1932; 1962]	<i>Clinical Professor of Psychiatry</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M. D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
ERNEST W. LAMPE, M.D. [1941; 1966]	<i>Clinical Professor of Anatomy</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JOSEPH N. NATHANSON, M.D.C.M. [1926; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
FRANK R. SMITH, M.D. [1932; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery</i> (Urology)
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine</i> (Neurology)
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery</i> (Orthopedics)

PROFESSORS

BENJAMIN ALEXANDER, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]

* 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.

- THOMAS P. ALMY, *Professor of Medicine*. Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. A.B. 1935, M.D. 1939, Cornell. [1940; 1957]
- JOSEPH F. ARTUSIO, Jr., *Professor of Anesthesiology in Surgery; Professor of Anesthesiology in Obstetrics and Gynecology*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- GORAN C. H. BAUER, *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute, Sweden. [1963]
- LEONA BAUMGARTNER, *Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958]
- ALEXANDER G. BEARN, *Professor of Medicine (Chairman)*. Physician-in-chief, New York Hospital. M.B.B.S. 1946, M.D. 1951, University of London. [1966]
- EDWARD J. BEATTIE, Jr., *Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966]
- ALEXANDER BRUNSCHWIG, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947]
- JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
- WILLIAM COOPER, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1966]
- FRANK E. CORMIA, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.S. 1926, M.D. 1930, Vermont; M.S. 1934, Pennsylvania. [1946; 1965]
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
- JOHN W. DRAPER, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital; Visiting Surgeon-in-charge of Urological Service, Bellevue Hospital. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- VINCENT DU VIGNEAUD, *Professor of Biochemistry (Chairman)*. B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938]
- MURRAY DWORETZKY, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]
- 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; Visiting Physician, Bellevue Hospital. M.D. 1938, Maryland. [1941; 1965]
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957]
- 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]
- GERHARD GIEBISCH, *Professor of Physiology*. M.D. 1951, University of Vienna. [1953; 1965]

12 FACULTY

- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. M.D. 1927, Washington University. [1932; 1947]
- 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]
- MILTON HELPERN, *Visiting Professor of Pathology; Clinical Assistant Professor of Medicine*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*. Consultant, New York Hospital-Cornell Medical Center. B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- EDWARD W. HOOK, JR., *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959; 1964]
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Science. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. 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]
- DAVID A. KARNOFSKY, *Professor of Medicine*. Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1934, California; A.M. 1936, M.D. 1940, Stanford. [1949; 1966]
- 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]
- JOHN G. KIDD, *Professor of Pathology*. Pathologist-in-Chief, New York Hospital. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]
- ELMER E. KRAMER, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
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14 FACULTY

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- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale. [1938; 1956]
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- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy); Clinical Assistant Professor of Medicine (Allergy)*. Associate Attending Pediatrician; Assistant

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- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
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20 FACULTY

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24 FACULTY

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28 FACULTY

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- IRWIN R. MERKATZ, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1955, M.D. 1958, Cornell. [1959; 1966]

32 FACULTY

- STANLEY T. MICHAEL, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Prague. [1955; 1964]
- RHODA M. MICHAELS, *Assistant Professor of Microbiology in Medicine*. B.S. 1946, Bethany College; M.P.H. 1950, Ph.D. 1954, Michigan. [1964; 1966]
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960]
- C. RICHARD MINICK, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Wyoming; M.D. 1960, Cornell. [1963; 1965]
- LAURENCE MISCALL, *Clinical Assistant Professor of Surgery*. Visiting Surgeon, Bellevue Hospital. A.B. 1926, M.D. 1930, Cornell. [1942; 1947]
- VIRGINIA C. MITTY, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1941, Mt. St. Vincent; M.D. 1946, New York University. [1951; 1962]
- GEORGE R. MONAHAN, *Clinical Assistant Professor of Anesthesiology in Surgery*. Assistant Attending Anesthesiologist, New York Hospital. B.S. 1950, Villanova; M.D. 1957, New York Medical College. [1960; 1966]
- HARRY H. MOORHEAD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1950, University of Louisville. [1966]
- JOAN E. MORGENTHAU, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1945, Vassar; M.D. 1949, Columbia. [1954; 1958]
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1961]
- ZUHEIR MUJAHED, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University, Beirut. [1955; 1957]
- RALPH NACHMAN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1965]
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill. [1957; 1962]
- BERTRAND L. NEW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1966]
- MARIA I. NEW, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1963]
- JAMES A. NICHOLAS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958]
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1945, M.D. 1948, Columbia. [1953; 1960]
- ELSA O'DONNELL, *Assistant Professor of Anatomy*. M.S. 1951, D.Sc. 1956, University of Buenos Aires. [1964; 1966]
- ARTHUR J. OKINAKA, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, Chicago. [1955; 1964]
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. M.D. 1927, Long Island College of Medicine. [1944; 1950]
- ELENA I. R. OTTOLENGHI, *Assistant Professor of Microbiology*. A.B. 1954, Barnard; Ph.D. 1961, Rockefeller Institute; M.D. 1964, New York University. [1965]
- RUSSEL H. PATTERSON, JR., *Assistant Professor of Surgery (Neurosurgery)*. Assistant Attending Surgeon (Neurosurgery), New York Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1956; 1963]
- FRANCIS S. PERRONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. M.D. 1950, Cornell. [1956; 1964]

- HART DEC. PETERSON, *Assistant Professor of Neurology in Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1954, Middlebury; M.D. 1958, Boston University. [1963; 1966]
- MELVILLE A. PLATT, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, Western Ontario. [1955; 1962]
- NATHAN POKER, *Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn College; M.D. 1950, Columbia. [1953; 1956]
- JOHN L. POOL, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948]
- JEROME BEEBE POSNER, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1951, M.D. 1955, Washington. [1963]
- JOHN T. QUEENAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1954, Notre Dame; M.D. 1958, Cornell. [1962; 1965]
- JACQUES M. QUEN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.Sc. 1948, Bethany College; M.Sc. 1950, Brown; M.D. 1955, Yale. [1961; 1966]
- JAMES W. RALEIGH, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1933, Holy Cross; M.D. 1939, Long Island College of Medicine. [1961]
- DONALD J. REIS, *Assistant Professor of Neurology in Medicine*. Assistant Attending Neurologist, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1953, M.D. 1956, Cornell. [1963]
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1956; 1962]
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1954]
- SEYMOUR H. RINZLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Assistant Visiting Physician, Bellevue Hospital. B.A. 1934, Cornell; M.D. 1938, New York University. [1952; 1966]
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958]
- THEODORE ROBINSON, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1952, M.D. 1956, Cornell. [1962; 1966]
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1931, M.D. 1936, Rochester. [1939; 1946]
- ISADORE ROSENFELD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- WALTER RUBIN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1955, M.I.T.; M.D. 1959, Cornell. [1962; 1966]
- 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]
- PAUL RUEGSEGER, *Clinical Assistant Professor of Medicine*. M.D. 1946, University of Zurich. [1961; 1962]
- RICHARD A. RUSKIN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1952; 1958]
- SAMUEL F. RYAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O. 1954, Dublin University. [1960; 1964]
- MURIEL SACKLER, *Assistant Professor of Anatomy*. B.A. 1939, Brooklyn College; M.S. 1945, M.I.T.; Ph.D. 1963, Columbia. [1963; 1966]
- PAUL D. SAVILLE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B., B.S., 1949, St. Georges Hospital Medical College, London. [1959; 1963]
- ALFRED L. SCHERZER, *Assistant Professor of Pediatrics*. Assistant Attending Pedia-

- trician, New York Hospital. A.B. 1949, M.S.P.H. 1950, Ed.D. 1954, Columbia; M.A. 1957, Yale; M.D. 1963, Columbia. [1964; 1966]
- RAUL C. SCHIAVI, *Assistant Professor of Psychiatry*. M.D. 1953, University of Buenos Aires. [1963]
- WILLIAM W. SCHLAEPFER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1954, Princeton; M.D. 1958, Yale. [1964; 1965]
- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946]
- 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 in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1960; 1965]
- JEROME L. SCHULMAN, *Assistant Professor of Public Health*. A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1963]
- LEONARD SCHUYLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue 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; Assistant Visiting Physician, Bellevue Hospital. A.B. 1945, A.M., 1950, M.D. 1951, Columbia. [1958; 1963]
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. A.B. 1944, M.D. 1949, New York University. [1960]
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology in Surgery*. Attending Anesthesiologist, Memorial Hospital. A.B. 1932, Barnard; M.D. 1937, Columbia. [1954]
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- ARTHUR W. SELIGMANN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1955; 1962]
- DONALD M. SHAFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1958]
- VERNON H. SHARP, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1953, M.D. 1957, Vanderbilt. [1963; 1965]
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960]
- EDWARD M. SHEPARD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, Williams; M.D. 1940, Cornell. [1949; 1965]
- PAUL SHERLOCK, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1962]
- MADOKA SHIBUYA, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1952; 1966]
- MAURICE SHILS, *Assistant Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962]
- SELMA SILAGI, *Assistant Professor of Genetics in Obstetrics and Gynecology*. A.B. 1936, Hunter; A.M. 1938, Ph.D. 1961, Columbia. [1965; 1966]
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1962]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant At-

- tending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- RICHARD G. SKALKO, *Assistant Professor of Anatomy*. B.A. 1957, Providence College; M.S. 1959, St. John's University; Ph.D. 1963, Florida. [1963; 1966]
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960]
- DAVID I. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. Assistant Attending Pediatrician, Hospital for Special Surgery. B.S. 1952, Union College; M.D. 1956, New York University. [1960; 1966]
- E. FLETCHER SMITH, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1924, M.D. 1928, Texas. [1943, 1963]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgeon)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- 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 Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1961]
- CYRIL SOLOMON, *Clinical Assistant Professor of Pathology in Medicine*. B.S. 1932, M.D. 1936, Maryland. [1965]
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962]
- 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]
- AARON D. SPIELMAN, *Clinical Assistant Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. A.B. 1922, Johns Hopkins; M.D. 1926, Columbia. [1935; 1963]
- EDWARD STANTON, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.S. 1926, Maine; M.D. 1935, Cornell. [1953; 1961]
- 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]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]
- HARRY L. STEIN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. [1962; 1965]
- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960]
- KURT H. STENZEL, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1954, New York University; M.D. 1958, Cornell. [1959; 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]
- BENJAMIN D. STINSON, *Assistant Professor of Anatomy*. B.S. 1950, M.S. 1953, Oklahoma; Ph.D. 1958, Columbia. [1960; 1964]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949; 1964]
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962]

- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Hunan, China. [1954; 1962]
- 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]
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1961]
- FRANK J. VEITH, *Assistant Professor of Surgery*. Assistant Visiting Surgeon, Bellevue Hospital. A.B. 1952, M.D. 1955, Cornell. [1964]
- LOUIS VORHAUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- 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]
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960]
- ROBIN C. WATSON, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- 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]
- 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 O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963]
- ANTHONY S. WERNER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1955, M.D. 1959, Yale. [1964; 1966]
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958]
- ELLIOT WESER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1953, M.D. 1957, Columbia. [1960; 1964]
- WILLIAM 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*. Associate Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944]
- JOHN C. WHITSELL II, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1966]
- ROBERT E. WIECHE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist. A.B. 1948, Miami University (Ohio); M.D. 1952, Cornell. [1959; 1965]
- JOHN B. WILLIAMS, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Associate Attending Surgeon, New York Hospital. A.B. 1945, Columbia; M.D. 1949, New York University. [1950; 1966]

- PETER G. WILSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- SIDNEY J. WINAWER, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1952, New York University; M.D. 1956, State University of New York (Brooklyn). [1966]
- MYRON WINICK, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York, Brooklyn. [1958; 1964]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- ALVIN YAPLATER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943, Oklahoma; M.D. 1946, Tulane. [1966]
- ALEXANDER WILLIAM YOUNG, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, M.D. 1946, Maryland. [1956; 1964]
- CHARLES W. YOUNG, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]
- 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]

CORNELL MEDICAL COLLEGE

HISTORY

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 and professors 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 28th 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.

Cornell University Medical College has always had 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, teaching activity of a high quality is carried on concurrently with studies of clinical medicine and those life sciences related to the control of disease.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

Soon after its founding Cornell University Medical College entered into an agreement with the New York Hospital to make use of its clinical facilities. The New York Hospital, the oldest in the city, had been founded by Royal Charter in 1771 during the reign of King George III. It has stood since that time as one of the foremost hospitals in the

country. The partial affiliation that the two institutions enjoyed was strengthened in 1927 when an agreement between Cornell University and the Society of the New York Hospital established a formal affiliation. The agreement joined the facilities of the two institutions, and provided for cooperation in the care of patients and in the conduct of medical education and scientific research. In order to harmonize the interests of the Hospital and the Medical College, a Joint Administrative Board was formed. This consists of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of the New York Hospital-Cornell Medical Center was established in 1953. In July, 1966, a new position, that of President of the New York Hospital-Cornell Medical Center, will be established.

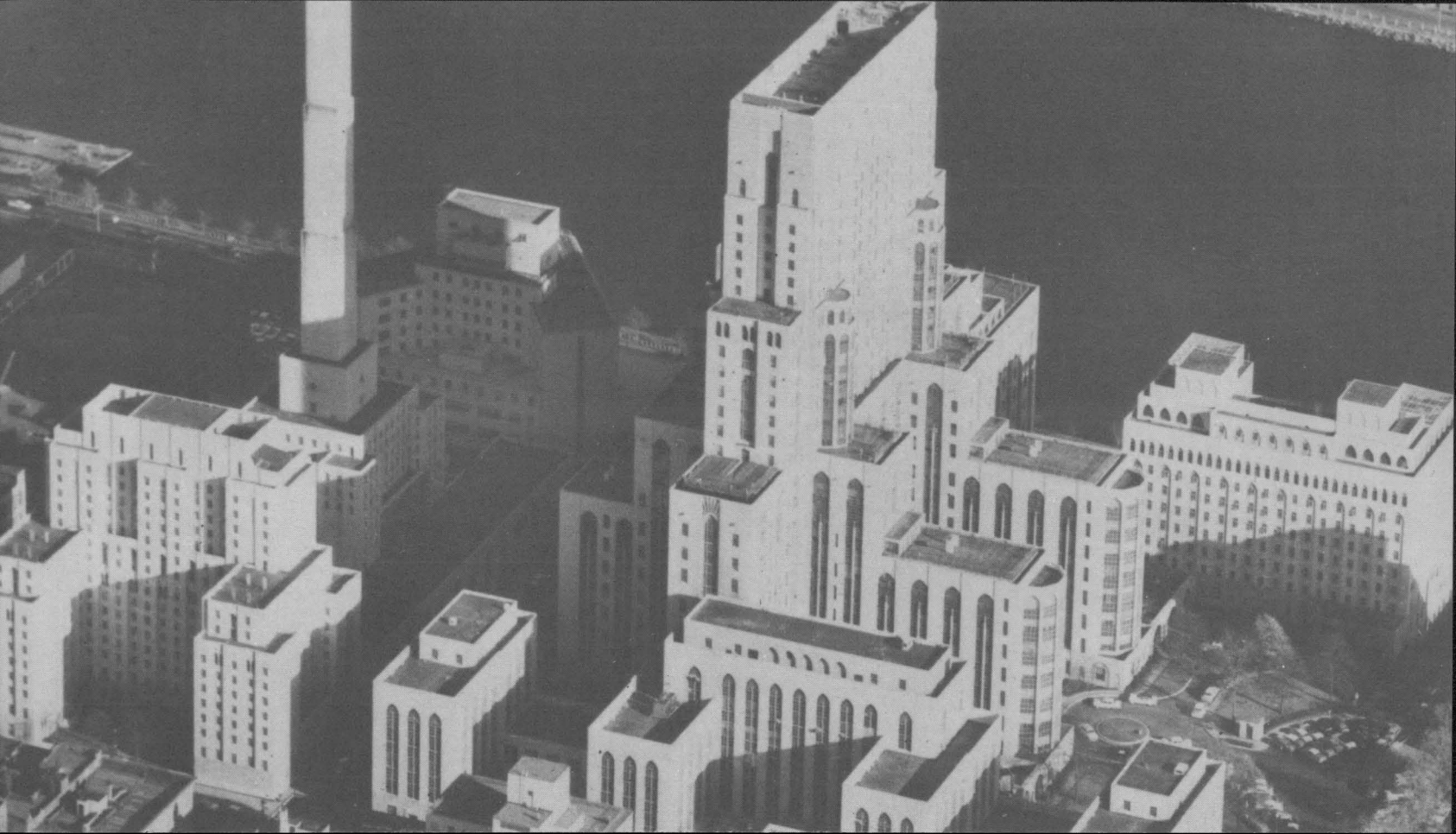
In 1932 the New York Hospital-Cornell Medical Center was moved to its group of strikingly designed buildings at York Avenue between 68th and 71st Street. The Center now comprises nineteen buildings, and a twentieth structure, an apartment house for the staff, is under construction. The Cornell University Medical College, the New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors — the Rockefeller Institute, the Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center — form one of the outstanding medical, educational, treatment, and research centers in the world.

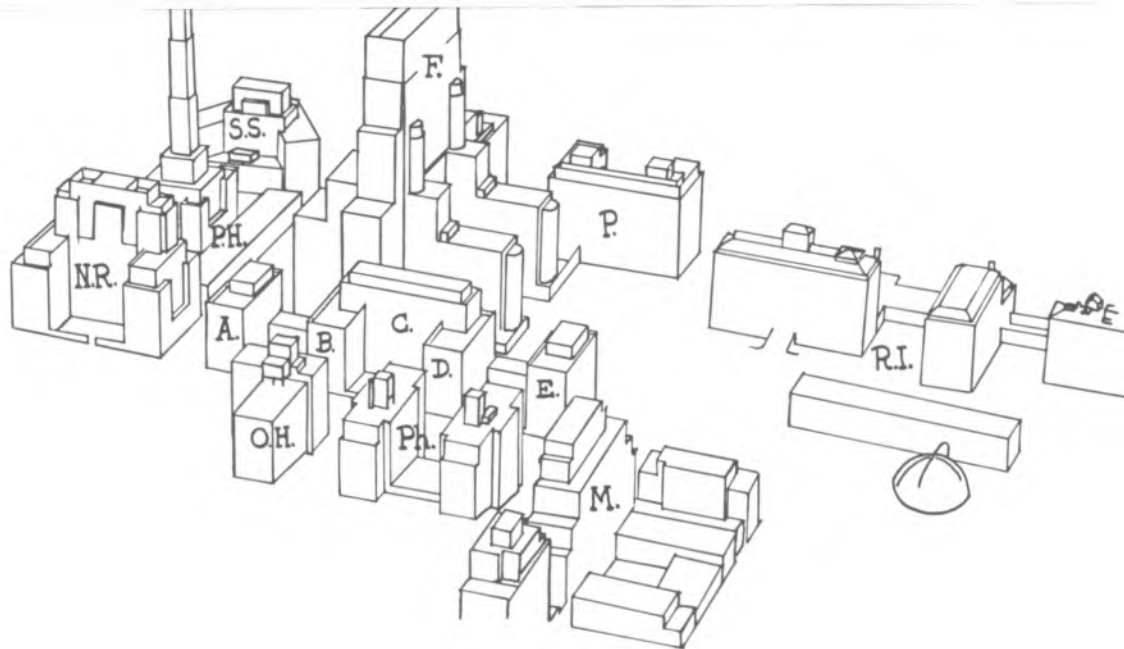
FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

Cornell Medical College

Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected





THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

A. Anatomy.
 B. Microbiology and Immunology.
 C. Administration and Pathology.
 D. Physiology.
 E. Biochemistry and Pharmacology.
 F. New York Hospital.
 M. Memorial Hospital.

N.R. Nurses' Residence.
 O.H. Olin Hall.
 P. Payne Whitney Psychiatric Clinic
 Ph. Phipps Houses.
 P.H. Power and Maintenance.
 R.I. Rockefeller Institute.
 S.S. Hospital for Special Surgery.

to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

New York Hospital

Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provisions for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central hospital building, with six pavilions for bed patients, three floors for its out-patient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1,220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staff who are also members of the Medical College faculty.

BELLEVUE HOSPITAL. Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approxi-

mately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY. The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL. Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

The Loomis Laboratory

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

The Library

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th Street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 85,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain

privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

The Russell Sage Institute of Pathology

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

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 under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing 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 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 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with these minimal requirements.

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 any student planning to study medicine. We recommend 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 any 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. On the other hand, 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 which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1,000 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 finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds — from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to 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 Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the 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 of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York, N.Y. 10021. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be completed during the fall, and no application will be accepted after November 30. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and *is not returnable*.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing. Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They 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 at 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 there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for readmission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.
2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, 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, the last of which must have been in Cornell University Medical College. 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, 133 South 36th Street, Philadelphia, Pennsylvania 19104.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York, N.Y. 10021.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10

ACCEPTANCE DEPOSIT \$50

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 is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1966:

TUITION FEE (for academic year) \$1,600

COMPREHENSIVE FEE (For academic year) \$ 200

The charges are 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.

Included in the comprehensive fee are the following:

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. STUDENT HEALTH SERVICE. See description, page 52.

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. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make reservation as early as possible.

RESIDENCE HALLS

F. W. Olin Hall, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, 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 each two rooms have 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. Rental for students is: for an academic year, \$425; for a full year (12 months), \$485; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

Livingston Farrand Apartments for married students, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT 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 colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuberculin test, and such immuni-

zations 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 procedures which may be 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 this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

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 on 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 Scholarships.

1. **THE JOHN METCALFE POLK SCHOLARSHIP.** A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.
2. **THE THORNE SHAW SCHOLARSHIP FUND** provides three scholarships designated as:

First: a scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

3. **MARY F. HALL SCHOLARSHIP.** The income, amounting to about \$180 annually, 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 and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. **The 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 established in 1936, the income from which is annually available 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 is tenable for a second or third year providing the qualifications of the candidate merit it. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. **THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 established in 1939, the income from which is annually available 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 is tenable for a second or third year providing the qualifications of the candidate merit it. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. **THE JEREMIAH S. FERGUSON SCHOLARSHIP.** Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. **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, 1911-1939. The interest from this fund is to be awarded either to one or to two students who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. **THE DR. JOHN A. HEIM SCHOLARSHIPS.** Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available

for that purpose. The awards are to be 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 are eligible, provided they meet the standards prescribed.

9. **THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.** Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

10. **THE DR. JACQUES SAPHIER SCHOLARSHIP FUND.** Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the 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.

11. **THE ELISE STRANG L'ESPERANCE SCHOLARSHIP** was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell Medical College.

12. **THE RUTH HOLLOHAN SCHOLARSHIP FUND** was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

13. **THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley. This scholarship is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

14. **LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College.

15. **FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, 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.

16. **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.

17. **THE LILLIAN M. CHARLES SCHOLARSHIP FUND** was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

18. **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.

19. **MARY LOUISE WUESTER SCHOLARSHIP.** Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

20. **ROBERT E. SPENO SCHOLARSHIP.** Established in 1952 by 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 income from the endowment provides a room-rent scholarship.

21. **ELIZABETH AND NEILL HOUSTON SCHOLARSHIP.** 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 income from the endowment provides a room-rent scholarship.

22. **DR. HARRY ENO SCHOLARSHIP ENDOWMENT.** Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

23. **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.

24. **THE THOMAS RENNIE SCHOLARSHIP FUND.** Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. **THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP.** The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. **THE COPPERMINES FOUNDATION SCHOLARSHIP.** Endowed by a generous gift from the Couppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND** was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

28. **THE MARY PUTNAM JACOBI-ANNA FOREST ROWE SCHOLARSHIP.** A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

29. **JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND.** This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

30. **THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND** was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

31. **DR. EDWARD HOENIG SCHOLARSHIP FUND.** This scholarship 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.

32. **THE PFIZER LABORATORIES SCHOLARSHIP,** in the amount of \$1,000, is contributed annually by the Pfizer Laboratories Medical Scholarship Program. It will be awarded to a medical student who is in need of financial assistance.

33. **THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT** of \$5,000 is made annually by the Society to provide scholarships for students in need of financial aid.

34. **THE WELD FUND SCHOLARSHIP.** Established by David and Mary Blake Weld. The income will provide scholarship assistance for needy students who are in good academic standing.

35. **THE CARL J. SCHMIDLAPP MEMORIAL FUND.** Established by his daughter, Dr. Jean Schmidlapp Humes of the Class of 1949 in memory of her father, Carl J. Schmidlapp, Cornell, '08. The income from the Fund is awarded annually to a deserving student in any class of Cornell University Medical College selected by the faculty on the basis of need and ability.

36. **MAIER AND SHANTSYA HITZIG SCHOLARSHIP.** Established by Dr. William M. Hitzig of the Class of 1929 in memory of his father and mother through a gift of \$5,000. The income from this fund is to be allotted annually as a scholarship. Preference will be given to students who have done meritorious work in internal medicine.

37. **THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP.** Generous gifts of \$80,000 each to Cornell University Medical College and 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. By these Merit Scholarships the donors hope "to stimulate the most inately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award will be made to a student or students entering the Medical College in 1968.

38. THE LOIS AND MAX BEREN FOUNDATION. 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, but not to exceed the sum of \$1,800 each academic year.

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.

39. THE WALTER C. TEAGLE SCHOLARSHIP FUND. The Walter C. Teagle Scholarship fund, established on July 1, 1963, by The Teagle Foundation, Incorporated, 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."

40. 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.

41. THE JOHN V. BOHRER SCHOLARSHIP FUND. Established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer. Scholarships from this fund are to be 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."

42. 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."

43. 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.

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

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 pre-professional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

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.

Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.

2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by 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.

3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store 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 get into money difficulties. A special committee considers each case on its individual merits. A

student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. **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.

5. **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.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS

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

Prizes

1. **FOR GENERAL EFFICIENCY.** In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. **FOR EFFICIENCY IN OTOLARYNGOLOGY.** This prize is made available from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this specialty.

3. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best record in obstetrics.

4. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Mortiz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. **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, the first of \$250, and the second of \$150. 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 writing 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.

For 1966 the William Mecklenburg Polk Prize awards for research were:

First prize: Arthur H. Stein.

Second Prize: David N. Tucker.

6. **THE WILLIAM C. THRO MEMORIAL FUND.** Established in memory of William C. Thro of the class of 1901 whose all-absorbing 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 to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. **THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY.** Established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the opinion of the staff 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.

8. **THE BORDEN UNDERGRADUATE RESEARCH AWARD.** The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research

has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quintuplicate and must be in the Administration Office not later than April 15.

The Borden Prize for Research for the year 1966 was awarded to Richard A. Borrison.

9. **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."*

10. **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.

11. **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 Scholarships.

12. **THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.** Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. 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. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. **THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY.** In 1963, a second fund to Dr. Gustave J. Noback, was established to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income of this fund to be awarded yearly at the discretion of the professor in charge. This fund was made possible by a grateful student who wishes to remain anonymous.

14. **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 from this gift 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.

15. **THE HAROLD G. WOLFF RESEARCH PRIZE.** The prize consists of \$300 and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award will be given at the Autumn Medical School Convocation to the Cornell undergraduate medical student of any class who has completed the outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Dean's Office not later than April 15.

16. **THE CLARENCE C. CORYELL PRIZE IN MEDICINE.** This prize 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.

17. **THE CLARENCE C. CORYELL PRIZE IN SURGERY.** This prize 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.

18. **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.

19. **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.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, 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 1966 were: Carmine Bedotto, Richard A. Borrison, Robert E. Curran, Andrew A. Dahl, Michael P. Earnest, Anthony S. Fauci, Lynn M. Gaufin, Anthony W. Middleton, Jr., Stewart S. Richmond, Paul F. Schellhammer, Mark M. Sherman, Arthur H. Stein, Everett V. Sugarbaker, Frank J. Zlatnik.

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.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Officers

Alphonse E. Timpanelli '36, President
Milton Helpern '26, Vice President
Frederic T. Kirkham, Jr. '47, Secretary
Henry Mannix, Jr. '50, Treasurer
William A. Barnes '37, Chairman, Alumni Fund

Directors

Three Year Term: John M. McLean '34; Richard Karl '44
Two Year Term: E. William Davis '51; Jesse P. Eddy '32; Edward Hardy '36; Henry H. Kessler '19
One Year Term: Thomas H. Meikle, Jr. '54; Lawrence Scherr '57

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year except for those of the last three graduating classes, whose dues are \$3 a year. The activities of the Association include a quarterly publication, an annual two-day reunion, banquet, student and faculty parties, panel discussions on topics of interest to the students, and a placement service. The Association maintains an office in Room C-140.

The annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into thirteen major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology, pathology, pharmacology, and public health. Six departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, and radiology.

The heads of these 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. These 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 as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine 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 by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one 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 required for the degree of Doctor of Medicine, 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 technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and a course in normal personality development.

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 daily for clinical lectures and demonstrations.

ELECTIVE TIME. In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS. Several fellowships paying a stipend of \$600 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.

COURSE IN MEDICAL WRITING. Lecturer: Mr. Milton L. Zisowitz. A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.



DESCRIPTION OF COURSES

ANATOMY

Roy C. Swan, Professor of Anatomy, Chairman

Joseph C. Hinsey, Professor of Neuroanatomy

Dorothea Bennett, Associate Professor of Anatomy

Dana C. Brooks, Associate Professor of Anatomy

James L. German, Associate Professor of Anatomy

Wilbur D. Hagamen, Associate Professor of Anatomy

John Macleod, Associate Professor of Anatomy

Thomas H. Meikle, Jr., Associate Professor of Anatomy

Leonard L. Ross, Associate Professor of Anatomy

Saul Bader, Assistant Professor of Anatomy

Michael D. Gershon, Assistant Professor of Anatomy

Elsa O'Donnell, Assistant Professor of Anatomy

Muriel Sackler, Assistant Professor of Anatomy

Richard G. Skalko, Assistant Professor of Anatomy

Benjamin D. Stinson, Assistant Professor of Anatomy

Instructor:

Chen Ya Huang

Research Associates:

Irene Geyer-Duszynska

Duk Ho Lee

Research Fellow:

Antonio P. de Oliveira

Assistants:

Neil O'Donohue

Elizabeth Thompson

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 are the outstanding questions. The student is provided with first-hand experience in some of the methods of anatomy and encourage him 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, there is offered an analysis 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 in the professional lifetime of the student 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 four courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural or 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. 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.

MICROSCOPIC ANATOMY. Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, x-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture 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. A term paper provides an experience in deeper inquiry and serves as an introduction to the library. Laboratory and lectures, 165 hours.

GROSS ANATOMY. Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems, supplemented demonstration dissections and films. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY. The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY & GENETICS. Lectures and laboratory are designed to help the student visualize basic embryological relationships, and to introduce him to fundamental concepts and problems of heredity. Lectures in embryology stress those areas of early development, organogenesis, and experimental embryology which clarify aspects of adult structure and function and aid in understanding congenital defects. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and population theory. 77 hours.

Elective Courses

A. GENETICS SEMINAR. Organized on basis of four semesters. Covers selected topics in rotation. Subjects for 1966-67 are: 1. (Fall, 1966-67). Gene

action and differentiation in higher organisms. 2. (Spring, 1967). Human genetics and medical genetics. Drs. Bennett and German.

B. DEVELOPMENTAL BIOLOGY: A graduate course emphasizing fundamental problems of development in embryonic and post-embryonic systems and the level of current understanding as revealed by application of modern analytical methods. Two lectures per week for eleven weeks during the second semester; optional independent laboratory projects restricted to a limited number of students. *Prerequisite:* An undergraduate course in embryology, or the course, Developmental Anatomy and Genetics, required of first year medical students at Cornell. Admission by permission of the instructor. Dr. Stinson.

GROSS ANATOMY FOR GRADUATES. Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY. An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks, includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

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 considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

BIOCHEMISTRY

Vincent du Vigneaud, Professor of Biochemistry, Chairman
Julian R. Rachele, Professor of Biochemistry

Roy W. Bonsnes, Associate Professor of Biochemistry
William D. Cash, Associate Professor of Biochemistry
Aaron S. Posner, Associate Professor of Ultrastructural Biochemistry

Esther M. Breslow, Assistant Professor of Biochemistry
Wah-Yip Chan, Assistant Professor of Biochemistry
Helena Gilder, Assistant Professor of Biochemistry
Julius Golubow, Assistant Professor of Biochemistry
S. Steven Hotta, Assistant Professor of Biochemistry
Theodore A. Mahowald, Assistant Professor of Biochemistry
Edward T. Schubert, Assistant Professor of Biochemistry

Instructors:

Robert T. Havran
Victor J. Hruby
John D. Termine

Research Associates:

Albert Girotti
Herbert T. Takashima
Donald H. Yamashiro

Research Fellow:

Manfred Rimpler

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERMS. Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and purines; enzymes, digestion, intestinal putrefaction, and feces; the composition of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the fundamental properties of electrolytes and colloids. 33 hours, first term, 33 hours, second term.

THIRD TERM. Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

Electives

ADVANCED LABORATORY WORK OR RESEARCH. By special arrangement.

Courses Open to Special Students

BIOCHEMISTRY. Fee, \$25 a term.

BIOCHEMICAL LITERATURE. Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION. Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY. By arrangement with the head of the department.

MEDICINE

Alexander G. Bearn, Professor of Medicine, Chairman
 Benjamin Alexander, Clinical Professor of Medicine
 Thomas P. Almy, Professor of Medicine
 Joseph H. Burchenal, Professor of Medicine
 Frank E. Cormia, Clinical Professor of Medicine (Dermatology)
 John E. Deitrick, Professor of Medicine
 Henry S. Dunning, Clinical Professor of Neurology in Medicine

Murray Dworetzky, Clinical Professor of Medicine
 Aaron Feder, Clinical Professor of Medicine
 Richard H. Freyberg, Clinical Professor of Medicine
 Elliot Hochstein, Clinical Professor of Medicine
 Edward W. Hook, Professor of Medicine
 Frank L. Horsfall, Professor of Medicine
 David A. Karnofsky, Professor of Medicine
 B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)
 Allyn B. Ley, Professor of Medicine
 E. Hugh Luckey, Professor of Medicine
 Carl Muschenheim, Clinical Professor of Medicine
 Fred Plum, Anne Parrish Titzell Professor of Neurology in Medicine
 Rulon W. Rawson, Professor of Medicine
 George G. Reader, Professor of Medicine
 Marvin H. Slesinger, Professor of Medicine
 Israel Steinberg, Clinical Professor of Medicine
 David D. Thompson, Professor of Medicine
 Douglas P. Torre, Clinical Professor of Medicine (Dermatology)
 Robert F. Watson, Clinical Professor of Medicine
 Bruce P. Webster, Clinical Professor of Medicine
 Irving S. Wright, Clinical Professor of Medicine

Jeremiah A. Barondess, Clinical Associate Professor of Medicine
 David V. Becker, Associate Professor of Medicine
 E. Lovell Becker, Associate Professor of Medicine
 Henry A. Carr, Clinical Associate Professor of Medicine
 Aaron D. Chaves, Clinical Associate Professor of Medicine
 William N. Christenson, Clinical Associate Professor of Medicine
 George O. Clifford, Associate Professor of Medicine
 Eugene J. Cohen, Clinical Associate Professor of Medicine
 Farrington Daniels, Jr., Associate Professor of Medicine (Dermatology)
 John W. Dougherty, Clinical Associate Professor of Medicine (Dermatology)
 Borje Ejrup, Clinical Associate Professor of Medicine
 Ralph L. Engle, Jr., Associate Professor of Medicine
 William T. Foley, Clinical Associate Professor of Medicine
 Constance Friess, Clinical Associate Professor of Medicine
 George W. Frimpter, Associate Professor of Medicine
 William Geller, Clinical Associate Professor of Medicine
 Sidney M. Greenberg, Clinical Associate Professor of Medicine
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine
 Melvin Horwith, Clinical Associate Professor of Medicine
 Raymond Houde, Associate Professor of Medicine
 Graham Jeffries, Associate Professor of Medicine
 William H. Kammerer, Clinical Associate Professor of Medicine
 George L. Kauer, Clinical Associate Professor of Medicine
 Donald Kaye, Associate Professor of Medicine
 Thomas Killip, Associate Professor of Medicine
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
 Gerald H. Klingon, Clinical Associate Professor of Neurology in Medicine
 John S. Ladue, Clinical Associate Professor of Medicine
 Charles S. Lieber, Associate Professor of Medicine
 Robert M. Lintz, Clinical Associate Professor of Medicine
 Mack Lipkin, Clinical Associate Professor of Medicine
 Martin Lipkin, Associate Professor of Medicine
 Donald B. Louria, Associate Professor of Medicine
 Daniel S. Lukas, Associate Professor of Medicine
 Ellen McDewitt, Associate Professor of Medicine
 Fletcher H. McDowell, Associate Professor of Neurology in Medicine
 Robert H. Melchionna, Clinical Associate Professor of Medicine
 W. P. Laird Myers, Associate Professor of Medicine
 Theodore W. Oppel, Clinical Associate Professor of Medicine
 Mary Ann Payne, Clinical Associate Professor of Medicine

Ralph E. Peterson, Associate Professor of Medicine
 R. A. Rees Pritchett, Clinical Associate Professor of Medicine
 William C. Robbins, Clinical Associate Professor of Medicine
 Thomas N. Roberts, Clinical Associate Professor of Medicine
 Bernard Rogoff, Clinical Associate Professor of Medicine
 David M. Roseman, Clinical Associate Professor of Medicine
 Sidney Rothbard, Associate Professor of Medicine
 Albert L. Rubin, Associate Professor of Medicine
 Lawrence Scherr, Associate Professor of Medicine
 Donald J. Simons, Clinical Associate Professor of Neurology in Medicine
 Martin Sonenberg, Associate Professor of Medicine
 Chester M. Southam, Associate Professor of Medicine
 Peter E. Stokes, Clinical Associate Professor of Medicine
 Richard W. Stone, Clinical Associate Professor of Medicine
 William D. Stubenbord, Clinical Associate Professor of Medicine
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
 Parker Vanamee, Associate Professor of Medicine
 Byard Williams, Clinical Associate Professor of Medicine
 Felix Wroblewski, Clinical Associate Professor of Medicine

Seymour Advocate, Clinical Assistant Professor of Medicine
 Anthony A. Antoville, Clinical Assistant Professor of Medicine
 Lucien Ardit, Clinical Assistant Professor of Medicine
 George C. Armistead, Clinical Assistant Professor of Medicine
 Donald Armstrong, Assistant Professor of Medicine
 Sam C. Atkinson, Clinical Assistant Professor of Medicine (Dermatology)
 Olav Austlid, Clinical Assistant Professor of Medicine (Physical Medicine)
 Lloyd T. Barnes, Clinical Assistant Professor of Medicine
 Curtis H. Baylor, Clinical Assistant Professor of Medicine
 Bertrand M. Bell, Clinical Assistant Professor of Medicine
 Bry Benjamin, Clinical Assistant Professor of Medicine
 Richard C. Benua, Assistant Professor of Medicine
 Richard Bettigole, Assistant Professor of Medicine
 Carl A. Berntsen, Jr., Clinical Assistant Professor of Medicine
 Norman Brachfeld, Assistant Professor of Medicine
 Keeve Brodman, Clinical Assistant Professor of Medicine
 John L. Brown, Jr., Clinical Assistant Professor of Medicine
 Veronica Brown, Clinical Assistant Professor of Medicine
 J. Robert Buchanan, Assistant Professor of Medicine
 Edward A. Burkhardt, Clinical Assistant Professor of Medicine
 Donald J. Cameron, Clinical Assistant Professor of Medicine
 Hugh E. Claremont, Clinical Assistant Professor of Medicine
 Susan T. Carver, Assistant Professor of Medicine
 Bayard D. Clarkson, Assistant Professor of Medicine
 Denton S. Cox, Clinical Assistant Professor of Medicine
 Marion Davis, Clinical Assistant Professor of Medicine
 Milton Davis, Assistant Professor of Sociology in Medicine
 Paul De Gara, Clinical Assistant Professor of Medicine (Allergy)
 Peter G. Denker, Clinical Assistant Professor of Neurology in Medicine
 Monroe T. Diamond, Clinical Assistant Professor of Medicine
 Carolyn H. Diehl, Clinical Assistant Professor of Medicine
 Robert E. Eckhardt, Clinical Assistant Professor of Medicine
 William Eisenmenger, Clinical Assistant Professor of Medicine
 Henry R. Erle, Clinical Assistant Professor of Medicine
 George C. Escher, Clinical Assistant Professor of Medicine
 John A. Finkbeiner, Clinical Assistant Professor of Medicine
 John T. Flynn, Clinical Assistant Professor of Medicine
 Alvin H. Freiman, Clinical Assistant Professor of Medicine
 Eugene D. Furth, Assistant Professor of Medicine
 Horace T. Gardner, Clinical Assistant Professor of Medicine
 Martin Gardy, Assistant Professor of Medicine
 Robert B. Golbey, Clinical Assistant Professor of Medicine

David L. Globus, Clinical Assistant Professor of Medicine
 George W. Gorham, Clinical Assistant Professor of Medicine
 Mary E. Goss, Assistant Professor of Sociology in Medicine
 Ernest Greenberg, Clinical Assistant Professor of Medicine
 Keith O. Guthrie, Clinical Assistant Professor of Medicine
 Thomas C. Guthrie, Clinical Assistant Professor of Neurology in Medicine
 Susan J. Hadley, Assistant Professor of Medicine
 Leonard L. Heimoff, Clinical Assistant Professor of Medicine
 Milton Helpern, Clinical Assistant Professor of Medicine
 Richard Herrmann, Clinical Assistant Professor of Medicine
 Lawrence S. Hobson, Clinical Assistant Professor of Medicine
 Milton Hollenberg, Assistant Professor of Medicine
 Eugene L. Horger, Clinical Assistant Professor of Medicine
 Herbert I. Horowitz, Clinical Assistant Professor of Medicine
 Donald W. Hoskins, Clinical Assistant Professor of Medicine
 Marian Isaacs, Assistant Professor of Medicine
 Abraham S. Jacobson, Clinical Assistant Professor of Medicine
 Anna Kara, Assistant Professor of Medicine (Physical Medicine)
 J. Harry Katz, Clinical Assistant Professor of Medicine (Dermatology)
 Lemoyne C. Kelly, Clinical Assistant Professor of Medicine
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine
 Herbert Koteen, Clinical Assistant Professor of Medicine
 Irwin H. Krakoff, Assistant Professor of Medicine
 Henn Kutt, Assistant Professor of Neurology in Medicine
 Costas T. Lambrew, Clinical Assistant Professor of Medicine
 Charles S. La Monte, Assistant Professor of Medicine
 Harold L. Leder, Clinical Assistant Professor of Medicine
 Burton J. Lee, Clinical Assistant Professor of Medicine
 Richard E. Lee, Clinical Assistant Professor of Medicine
 Robert D. Leeper, Assistant Professor of Medicine
 Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
 Glenn D. Lubash, Assistant Professor of Medicine
 Norton M. Luger, Clinical Assistant Professor of Medicine
 Melville G. Magida, Clinical Assistant Professor of Medicine
 Aaron J. Marcus, Assistant Professor of Medicine
 Mark R. Marciano, Clinical Assistant Professor of Medicine
 Klaus Mayer, Assistant Professor of Medicine
 Abraham Mazur, Clinical Assistant Professor of Biochemistry in Medicine
 A. Parks McCombs, Clinical Assistant Professor of Medicine
 Richard R. McCormack, Clinical Assistant Professor of Medicine
 James F. McGovern, Clinical Assistant Professor of Medicine
 Paul R. McHugh, Assistant Professor of Neurology in Medicine
 George A. McLemore, Clinical Assistant Professor of Medicine
 Allen W. Mead, Clinical Assistant Professor of Medicine
 Rhoda M. Michaels, Assistant Professor of Microbiology in Medicine
 Daniel G. Miller, Assistant Professor of Medicine
 Ralph L. Nachman, Assistant Professor of Medicine
 Irwin Nydick, Clinical Assistant Professor of Medicine
 Francis S. Perrone, Clinical Assistant Professor of Medicine
 Jerome B. Posner, Assistant Professor of Neurology in Medicine
 James W. Raleigh, Clinical Assistant Professor of Medicine
 Donald J. Reis, Assistant Professor of Neurology in Medicine
 Jack Richard, Clinical Assistant Professor of Medicine
 Edgar A. Riley, Clinical Assistant Professor of Medicine
 Seymour H. Rinzler, Clinical Assistant Professor of Medicine
 Isadore Rosenfeld, Clinical Assistant Professor of Medicine
 Walter Rubin, Assistant Professor of Medicine
 Emmanuel Rudd, Clinical Assistant Professor of Medicine
 Paul Rueggsegger, Clinical Assistant Professor of Medicine
 Paul D. Saville, Assistant Professor of Medicine
 Leonard Schuyler, Clinical Assistant Professor of Medicine

Ernest Schwartz, Clinical Assistant Professor of Medicine
 Arthur W. Seligmann, Clinical Assistant Professor of Medicine
 Charles Sheard III, Clinical Assistant Professor of Medicine (Dermatology)
 Edward M. Shepard, Clinical Assistant Professor of Medicine
 Paul Sherlock, Clinical Assistant Professor of Medicine
 Maurice E. Shils, Assistant Professor of Medicine
 Richard T. Silver, Clinical Assistant Professor of Medicine
 Gerald M. Silverman, Clinical Assistant Professor of Medicine
 Cyril Solomon, Clinical Assistant Professor of Pathology in Medicine
 Lawrence S. Sonkin, Clinical Assistant Professor of Medicine
 Aaron D. Spielman, Clinical Assistant Professor of Medicine (Allergy)
 Herman Steinberg, Clinical Assistant Professor of Medicine
 Kurt Stenzel, Assistant Professor of Medicine
 Peter H. Stern, Clinical Assistant Professor of Medicine
 James C. Strickler, Assistant Professor of Medicine
 Marguerite P. Sykes, Assistant Professor of Medicine
 Louis J. Vorhaus II, Clinical Assistant Professor of Medicine
 Lila A. Wallis, Clinical Assistant Professor of Medicine
 Clinton G. Weiman, Clinical Assistant Professor of Medicine
 Aaron O. Wells, Clinical Assistant Professor of Medicine
 Anthony S. Werner, Assistant Professor of Medicine
 Charles A. Werner, Clinical Assistant Professor of Medicine
 Elliot Weser, Assistant Professor of Medicine
 Sidney Winawer, Assistant Professor of Medicine
 A. Lee Winston, Clinical Assistant Professor of Medicine
 Alexander W. Young, Jr., Clinical Assistant Professor of Medicine (Dermatology)
 Charles W. Young, Assistant Professor of Medicine

Instructors:

Jaime Borrero	Charles Leach	Herbert F. Oettgen
Malin R. Dollinger	John Lee	Albert Ross
Joseph C. Dougherty	Andre LeFevre	Edmund O. Rothschild
Elizabeth Eilers	Byron T. Liggett	Ellen Scheiner
M. Elaine Eyster	William B. Lloyd	William R. Shapiro
Thomas Fahey	Sidney Louis	James P. Smith
Jose F. Figueiredo	Luther Lowe	Chull S. Song
Peter Harpel	Carlton MacDonald	Robert Timberger
Harold Isaacson	Donald MacKay	Claude Wasterlain
Thomas Jones	Carlos Marchena	William G. Winters
Mary Jeanne Kreek	Willibald Nagler	Samuel Yeh

Clinical Instructors:

Henriette E. Abel	Jeff Davis	John T. Kimball
Robert R. Abel	Peter de Nesnera	Bernard Koven
William A. Anderson	C. Pinckney Deal	Mortimer Lacher
Ralph Baer	Robert E. Dye	Martha Larson
James S. Bernstein	Ernest R. Esakof	James W. Ledwith
Harry Bienenstock	Ralph A. Eskesen	Leo R. Lese
Morton Blum	Claude E. Forkner, Jr.	Bruce C. Levy
Aaron W. Bortin	Robert D. Gittler	Charles N. Lewis
Warren S. Braveman	David Gluck	Marianne Lindner
Samuel H. Brethwaite	Howard Goldin	Nicholas T. Macris
Harrison O. Brown	Maurice E. Goldman	John F. Marchand
Walter A. Camp	Marshall J. Hanley	Robert S. Martin
Vincent Cipollaro	Andrew W. Haraway	Neva Eileen McGrath
Melva A. Clark	Herman G. Helpern	Donald McKaba
Burton D. Cohen	Raymond B. Hochman	David W. Molander
Robert Collier	Helen Holtz	Willis A. Murphy
C. Stephen Connolly	Norman Isaacs	Lewis Neporent
Francis P. Coombs	Thomas P. Jernigan	Martin Nydick
Jean A. Cramer	Vincent Joy	Normand Oliver
Richard A. P. Cupiauioli	Richard J. Kaufman	Sydnor B. Pennick

Richard Perkins
Raymond E. Phillips
Aurelia Potor
John H. Prunier
Sanford M. Reiss
Charles Ressler

Lawrence Scharer
Frederick G. Scovel
Frank A. Seixas
Harry A. Sinclair
Alan G. Snart

Katharine W. Swift
Carl Wierum
Florence A. Wilson
Edward A. Wolfson
Edward L. Worthington

Research Associates:

Eleanor E. Deschner
Helen Goodell
Brian Johnson

Philip Holzberger
Martin Hyman
Eladio A. Nunez

Margaret Todd
Erna Werber

Research Fellows:

Christina B. Gidynski

Edward W. Lehman

Alice Ullmann

Fellows:

Howard Adler
Jonathan Adler
Michael H. Alderman
Robert S. Ascheim
Sumner Auerbach
William Baker
Martin Barandes
Bruce Belshaw
H. Richard Beresford
Robert Binford
Helito Bittencourt
Michael J. Bradford
Robert Brennan
Hollister Brewster
Edward Callahan
John J. Caronna
Richard Carruthers
C. Glenn Cobbs
Joel Colker
Alvaro Comacho
Carter Davis
Hirochi Demura
Reiko Demura
John F. Dymling
J. Donald Easton
Alvin N. Ehrlich
Philip Eras
Edwin Ettinger
Paul Feffer
Martin L. Feingold
Sidney Fillmore
Irving Fish
Thomas Forde
Joseph Fratantoni
David Fulmer
Fred Gill

David Gordon
Jeffery Gordon
Robert Gottlieb
Robert E. Gwynn
Joseph G. Hayes
Bernard Heckman
John Hermos
Richard Hirschman
Robert M. Johnson
Warren Johnson
John L. Keltner
Neil Klein
Ronald M. Kobayashi
Marvin Kolodny
Charles Krone
Waymon C. Lattimore
Lawrence Levitt
George Lewis
Myron Lewis
Philip R. Liebson
Michael Lockshin
William Ludwig
Stephen Mallen
Gerald L. Mandell
Irving Martinez
Marlin Mattson
James H. Meyer
Brenda Mihinnick
Helga W. Mulzinieks
Theodore Nagel
George A. Omura
Martha E. Omura
Erdogan Oran
Michele Palmieri
Carl Pinsky
Marshall Primack

Martin Raff
Marc Raichle
B. Sheila Rao
Lynn H. Ratner
Herbert Y. Rubenstein
Merle Sande
Richard J. Santen
George Schneider
William Schneider
Gabriel Schwartz
Harvey Seidenstein
Eugene Shafton
George Shashaty
Barton L. Smith
Michael V. Sobel
Phyllis A. Stephenson
Akemi Takekoshi
Emanuel Theodor
Frank A. Tomao
James R. Tracey
Lewis Travis
Thomas Tuttle
George Ubogy
John Van Der Decker
William F. Von Stubble
Gary Walder
William E. Wallis
John H. Walsh
Francis Wanat
Francis M. Weld
Karl Western
Richard A. Yadley
Robert C. Young
Lowell Sun-yi Young

Lecturers:

William G. C. Munroe

Robert L. Yeager

Students begin their course in medicine with a required course in clinical pathology given in the third term of the second year under the direction of Dr. Hadley. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morpho-

logical, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of the New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Bearn and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES. Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hermatology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

Medical Comprehensive Care and Teaching Program

The course in comprehensive medicine occupies the major attention of the senior class during one-third of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designed as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of the New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

Representatives of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program in collaboration with Dr. Edward Liang from psychiatry and Dr. Barbara Ashe from pediatrics.

MICROBIOLOGY

William F. Scherer, Professor of Microbiology, Chairman
John Y. Sugg, Professor of Microbiology

William M. O'Leary, Associate Professor of Microbiology

Robert W. Dickerman, Assistant Professor of Microbiology
Sidney E. Grossberg, Assistant Professor of Microbiology
Elena I. Ottolenghi, Assistant Professor of Microbiology
Dieter H. Sussdorf, Assistant Professor of Microbiology

Research Fellow:

Maria L. Zarate

Lecturer in Microbiology:

Irving Abrahams

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 micro-organisms, 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 the 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.

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.

GRADUATE COURSES. Given during the eleven-week period corresponding to the third trimester of the medical school curriculum. Lectures are open to all interested persons. Laboratory sessions are generally limited to students taking the course for credit.

MICROBIAL CHEMISTRY AND PHYSIOLOGY. Yearly. 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 micro-organisms, 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. 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. In lectures and laboratory sessions, modern concepts and technics of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum pre-

requisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. Drs. Scherer and Sugg.

MICROBIAL GENETICS. Every second or third year. Two lectures and two laboratory sessions weekly. The lectures deal with genetic systems in fungi, bacteria, and bacterial viruses. Emphasis 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. Dr. Ottolenghi.

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 school 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 of microbiology fellowship can be listed on a curriculum vitae, 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.

OBSTETRICS AND GYNECOLOGY

Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman
Joseph F. Artusio, Jr., Professor of Anesthesiology in Obstetrics and Gynecology
Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology
Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology
Elmer E. Kramer, Clinical Professor of Obstetrics and Gynecology
Charles M. McLane, Clinical Professor of Obstetrics and Gynecology

Roy W. Bonsnes, Associate Professor of Biochemistry in Obstetrics and Gynecology
Myron I. Buchman, Clinical Associate Professor of Obstetrics and Gynecology
E. William Davis, Clinical Associate Professor of Obstetrics and Gynecology
Thomas F. Dillon, Clinical Associate Professor of Obstetrics and Gynecology
William P. Given, Clinical Associate Professor of Obstetrics and Gynecology
Oscar Glassman, Clinical Associate Professor of Obstetrics and Gynecology

Arthur V. Greeley, Clinical Associate Professor of Obstetrics and Gynecology
 Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology
 Arnold I. Klopfer, Visiting Associate Professor of Obstetrics and Gynecology
 Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology
 Edward C. Mann, Clinical Associate Professor of Obstetrics and Gynecology
 Benjamin E. Marbury, Clinical Associate Professor of Obstetrics and Gynecology
 George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology
 William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology
 Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology

Hugh K. Barber, Clinical Assistant Professor of Obstetrics and Gynecology
 Carl G. Beling, Assistant Professor of Endocrinology in Obstetrics and Gynecology
 Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology
 Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology
 John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology
 David B. Crawford, Clinical Assistant Professor of Obstetrics and Gynecology
 William F. Finn, Clinical Assistant Professor of Obstetrics and Gynecology
 Walter Freedman, Clinical Assistant Professor of Obstetrics and Gynecology
 Hortense Gandy, Assistant Professor of Endocrinology in Obstetrics and Gynecology
 Robert C. Knapp, Clinical Assistant Professor of Obstetrics and Gynecology
 Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology
 Stewart L. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology
 Frederick W. Martens, Clinical Assistant Professor of Obstetrics and Gynecology
 Irwin R. Merkatz, Clinical Assistant Professor of Obstetrics and Gynecology
 Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology
 Melville A. Platt, Clinical Assistant Professor of Obstetrics and Gynecology
 John T. Queenan, Clinical Assistant Professor of Obstetrics and Gynecology
 Richard A. Ruskin, Clinical Assistant Professor of Obstetrics and Gynecology
 Samuel F. Ryan, Clinical Assistant Professor of Obstetrics and Gynecology
 Selma Silagi, Assistant Professor of Genetics in Obstetrics and Gynecology
 E. Fletcher Smith, Clinical Assistant Professor of Obstetrics and Gynecology
 Edward Stanton, Clinical Assistant Professor of Obstetrics and Gynecology
 Alan Van Poznak, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology
 Robert E. Wieche, Clinical Assistant Professor of Obstetrics and Gynecology

Instructors:

Robert Fear	Abraham Risk
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Clinical Instructors:

Naef K. Basile	James Johnson	Frederick Silverman
Charles H. Bippart	John R. Langstadt	Jay B. Skelton
Jerome H. Brander	Robert Livingston	E. Thomas Steadman
John Durso	Robert N. Melnick	William D. Walden
Vincent duVigneaud	Myles C. Morrison	Virginia Werden
Hugh Halsey	Gideon Panter	
Richard Hnat	Virginia K. Pierce	

Fellows:

Jerald Dennis Buckley	Edward Robert Kaye	Thomas Quetel
Alan M. Blank	Albert C. Lesneski	Tove Raaschou-Nielsen
Charles M. Culpert	Sanford Markham	Joseph Ringland
James Russel Farina	Paul McCleary	William Robischon
Robert J. Fitzgerald	Philip B. Mead	Arthur Shapiro
Myron A. Hays	Richard Murphy	Jack Shuber
Daniel Kanell	Richard Allen Niles	Barry Smith
Paul Karoll	Vincente Poblete	

The Lying-In-Hospital, a division of the New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical

instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6,000 adult admissions to the obstetrical service and 2,500 to the gynecological service each year.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL 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 in groups of four students six days weekly. 4 hours.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

Third Year

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY. Lectures and demonstrations covering the anatomy and 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 pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 a.m., throughout the year. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION. Given to one-sixth of the class for periods of one-half a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercise.

COURSE III. SEMINAR. Given to one-sixth of the class for periods of one-half a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor.

COURSE IV. NEOPLASTIC DISEASES. Instruction in and discussion of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 a.m.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 a.m. to 12:30 p.m. Total hours, 77 for Courses II, III, IV and V.

Fourth Year

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY. Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical

instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of 7½ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS. A weekly staff conference is held on Mondays from 4 to 5:30 p.m. and rounds on Fridays from 11 a.m. to 12:30 p.m. Symposia and instructive case reports are presented with student participation.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Current representative pathological material with a brief clinical history and microscopic projection will be presented each Tuesday from 12:30 to 1:30 p.m.

SEMINARS. The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m.

SEMINAR IN REPRODUCTIVE PHYSIOLOGY. Periodic seminars in Reproductive Physiology embracing current aspects of the basic science as they are applied to Obstetrics and Gynecology. Held periodically on Thursdays at 4:00 p.m.

Elective Courses

PRACTICAL OBSTETRICS AND GYNECOLOGY. A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and, in general, will be designed to meet the student's qualifications.

PATHOLOGY

A. Whitley Branwood, Associate Professor of Pathology, Acting Chairman

John G. Kidd, Professor of Pathology

Robert C. Mellors, Professor of Pathology

Milton Helpert, Visiting Professor of Pathology

Aaron Kellner, Clinical Associate Professor of Pathology

George Murphy, Associate Professor of Pathology
 Goetz W. Richter, Associate Professor of Pathology
 John E. Seybolt, Clinical Associate Professor of Pathology
 Jean E. Todd, Clinical Associate Professor of Pathology
 Richard M. Torack, Associate Professor of Pathology

Carl G. Becker, Assistant Professor of Pathology
 Jack W. C. Hagstrom, Assistant Professor of Pathology
 William D. Johnson, Assistant Professor of Pathology
 James S. Magidson, Clinical Assistant Professor of Pathology
 C. Richard Minick, Assistant Professor of Pathology
 William W. Schlaepfer, Assistant Professor of Pathology

Instructors:

Sin Hang Lee

Andrew H. Littell

Carolyn W. Watson

Visiting Fellow:

L. Whittington Gorham

Fellows:

Daniel R. Alonso

Claude C. Cornwall

James B. Powell

William G. Beer

Azak S. Eryol

Gerard F. Ryan

Woodward Burgert, Jr.

M. Gary Hadfield

Chao S. Yang

Eun-Sook Cho

Janet A. Mouradian

Assistant:

Charlotte Street

Lecturers:

Arthur S. Carlson

Theodore Robertson

General Pathology

FACILITIES

The department of pathology occupies three floors of the central part of the College building, conveniently 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 fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, 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, there is available a very considerable amount of constantly changing gross material for student study.

The post mortem 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.

INSTRUCTION. 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 the degenerations, inflammation, and repair, and 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.

GENERAL AND SPECIAL PATHOLOGY. Required in the first and second terms of the second year. Professor Branwood and staff. 264 hours.

NEUROPATHOLOGY. The pathology of the nervous system is studied, and altered structure and function are correlated. Professor Torak. 33 hours.

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. A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

Wallace W. McCrory, Professor of Pediatrics, Chairman

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics
 Peter A. McF. Auld, Associate Professor of Pediatrics
 Leona Baumgartner, Clinical Associate Professor of Pediatrics
 Samuel R. Berenberg, Clinical Associate Professor of Pediatrics
 Margaret Dann, Associate Professor of Pediatrics
 Paul F. de Gara, Clinical Associate Professor of Pediatrics (Allergy)
 Mary A. Engle, Associate Professor of Pediatrics
 Nathan Epstein, Clinical Associate Professor of Pediatrics
 Marion E. Erlandson, Associate Professor of Pediatrics
 John E. Franklin, Clinical Associate Professor of Pediatrics
 James L. German III, Associate Professor of Pediatrics
 Henry P. Goldberg, Clinical Associate Professor of Pediatrics
 Edmund N. Joyner III, Clinical Associate Professor of Pediatrics
 Milton I. Levine, Clinical Associate Professor of Pediatrics
 M. Lois Murphy, Associate Professor of Pediatrics
 John C. Ribble, Associate Professor of Pediatrics
 Maxwell Stillerman, Clinical Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics
 Richard R. Bass, Clinical Assistant Professor of Pediatrics
 Charles H. Bauer, Clinical Assistant Professor of Pediatrics
 Otto E. Billo, Clinical Assistant Professor of Pediatrics
 Kathryn E. Ehlers, Assistant Professor of Pediatrics
 Marvin J. Gersh, Clinical Assistant Professor of Pediatrics
 Martin J. Glynn, Clinical Assistant Professor of Pediatrics
 Julius Golubow, Assistant Professor of Biochemistry in Pediatrics
 Margaret T. Grossi, Clinical Assistant Professor of Pediatrics
 Herman Grossman, Assistant Professor of Pediatrics (Radiology)
 James Q. Haralambie, Clinical Assistant Professor of Pediatrics
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics
 Philip Lankowsky, Assistant Professor of Pediatrics
 Aaron R. Levin, Assistant Professor of Pediatrics
 Wan Ngo Lim, Assistant Professor of Pediatrics

Florence N. Marshall, Clinical Assistant Professor of Pediatrics
 Armond V. Mascia, Clinical Assistant Professor of Pediatrics
 Robert G. McGovern, Clinical Assistant Professor of Pediatrics
 Marion McIlveen, Clinical Assistant Professor of Pediatrics
 Virginia C. Mitty, Clinical Assistant Professor of Pediatrics
 Joan E. Morgenthau, Clinical Assistant Professor of Pediatrics
 Maria I. New, Assistant Professor of Pediatrics
 Hart deC. Peterson, Assistant Professor of Neurology in Pediatrics
 Alfred L. Scherzer, Assistant Professor of Pediatrics
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics
 Madoka Shibuya, Assistant Professor of Pediatrics
 David I. Smith, Clinical Assistant Professor of Pediatrics
 Martha L. Smith, Clinical Assistant Professor of Pediatrics
 Charlotte T. C. Tan, Assistant Professor of Pediatrics
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics
 Myron Winick, Assistant Professor of Pediatrics
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

Instructors:

Martin J. Hauptman Margaret W. Hilgartner

Clinical Instructors:

Marvin Boris	Diane B. Gareen	Virginia E. Pomeranz
Mary C. Buchanan	Doris K. Goldberg	Richard H. Rapkin
Walter T. Carpenter	Carl P. Kremer	Reuben H. Reiman
Benedict S. Caterinicchio	Lenore S. Levine	Melvin S. Rosh
Leon I. Charash	Karl Neumann	William T. Seed
Alan P. De Mayo	Rebecca F. Notterman	Beatrice S. Slater
Joseph H. Di Leo	William J. Peter	Josef Soloway
Philip W. H. Eskes	Ruth D. Peters	Jerome M. Torsney
Yvette F. Francis	Olive E. Pitkin	Alvah M. Weiss

Research Associates:

Katharine Cobb Helen McNamara

Fellows:

Allan I. Bezan	Edith P. Halvorson	Robert S. Pino
Renée M. Brilliant	Daniel L. Jackson	Peter R. Saltzman
Virginia C. Canale	Yusuf Khakoo	Bernard P. Shagan
Joseph F. J. Curi	Alfred N. Krauss	Rachel Theodor
Victor Dubowitz	John E. Lewy	Donald W. Thibeault
Peter B. Farnsworth	Melville G. Magida	Victor Whitman
Seymour Grufferman	Herbert T. Maguire	
Demissie Habte	Eberhard Passarge	

Lecturers:

Virginia Apgar (Teratology) Henry N. Pratt

THIRD YEAR. A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children, principles of genetics and nutrition, and peculiarities of disease in early life. Students serve as clinical clerks on the pediatric pavilions of The New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. Night and weekend rotations are scheduled on the Pediatric and Emergency pavilions. Special rounds and seminars are arranged for the clerks; they also attend regular departmental conferences and rounds.

FOURTH YEAR. The students' activities are part of the Ambulatory Care Program. Each student spends one morning a week in the Pediatric Out-patient Department where he is given supervised responsibility for the

diagnosis and management of ambulatory pediatric patients. Several sessions in the Well Baby Clinic are also scheduled. Rotations in the Pediatric Emergency Unit are scheduled in the evenings and on weekends. A series of seminars dealing with ambulatory pediatric problems are also held. Total hours 70.

Elective Courses

FOURTH YEAR. Elective courses are offered in clinical and research activities. Full-time or part-time programs in the outpatient department are available. Participation in a number of subspecialty programs of a clinical, research or combined clinical-research emphasis can be arranged individually with members of the department.

PHARMACOLOGY

Walter F. Riker, Jr., Professor of Pharmacology, Chairman

Jack P. Green, Associate Professor of Pharmacology

Walter Modell, Associate Professor of Pharmacology

Frank G. Standaert, Associate Professor of Pharmacology

Amir Askari, Assistant Professor of Pharmacology

William T. Beaver, Assistant Professor of Pharmacology

Wah-Yip Chan, Assistant Professor of Pharmacology

Barrie Levitt, Clinical Assistant Professor of Pharmacology

Roberto Levi, Assistant Professor of Pharmacology

Instructors:

Michiko Okamoto

Arthur Raines

Research Fellows:

M. Oskoui

Jose Usubiaga

Carlos Widmer

Assistant:

Gary Citrin

SECOND YEAR. Laboratory work, demonstrations, seminars, are given during the first and second terms of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach 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. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered essentially systemically, serve to illustrate several mechanisms and parameters of drug action. Therapeutic applications are considered only insofar as they illustrate principles of pharmacology or drug hazards. 154 hours.

Elective Courses

SECOND YEAR. Elective opportunities will be made available to the student during his free time in the second year. In this, 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 are supervised closely by staff members and oriented as a graduate experience.

Fourth Year

SEMINAR. Pharmacologic Bases of Therapy. A series of one hour seminars are held weekly. In these, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a re-examination 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. Offered during 15 week period on ambulatory care.

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 biochemical aspects of pharmacology.

Research in clinical pharmacology permits individuals to participate in drug evaluation with emphasis on the design of methods and experiments.

Recommended time: 15 week elective period.

BIostatistical SEMINAR. Sponsored jointly by the Department of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypothesis testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman
Gerhard H. Giebisch, Professor of Physiology*
Roger L. Greif, Professor of Physiology

Harold G. Hempling, Associate Professor of Physiology
Richard H. Kessler, Clinical Associate Professor of Physiology
Erich E. Windhager, Associate Professor of Physiology

Sulamita Balagura, Assistant Professor of Physiology
Colin Fell, Assistant Professor of Physiology

Instructor:

Lou Ann Pilkington

Research Fellows:

Heriberto Arcila
Vernon Jones
Douglas Landwehr

John Lewy
Mary Lou Lyon
William Stone

George Tanner

The 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

* On leave of absence.

department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This 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 fields 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.

SECOND TERM. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

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 per week. 187 hours.

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. 11 hours of lecture.

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 fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.
2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the department.

PSYCHIATRY

William T. Lhamon, Professor of Psychiatry, Chairman
 Francis J. Hamilton, Clinical Professor of Psychiatry
 Marvin Stein, Professor of Psychiatry

Barbara J. Betz, Associate Professor of Psychiatry
 Eric T. Carlson, Clinical Associate Professor of Psychiatry

Helen E. Daniells, Clinical Associate Professor of Psychiatry
 Frederic F. Flach, Clinical Associate Professor of Psychiatry
 Donald M. Hamilton, Clinical Associate Professor of Psychiatry
 Lawrence E. Hinkle, Jr., Clinical Associate Professor of Medicine in Psychiatry
 Richard N. Kohl, Associate Professor of Psychiatry
 Robert S. McCully, Associate Professor of Psychology in Psychiatry
 James F. Masterson, Jr., Clinical Associate Professor of Psychiatry
 Thomas H. Meikle, Jr., Associate Professor of Neuroanatomy in Psychiatry
 Leon L. Rackow, Clinical Associate Professor of Psychiatry
 Albert C. Sherwin, Clinical Associate Professor of Psychiatry
 Peter E. Stokes, Clinical Associate Professor of Medicine in Psychiatry
 Elliott L. Weitzman, Clinical Associate Professor of Psychiatry
 Livingston Welch, Clinical Associate Professor of Psychiatry

Jason Aronson, Clinical Assistant Professor of Psychiatry
 Alvin S. Bernstein, Assistant Professor of Psychology in Psychiatry
 M. David Clayson, Assistant Professor of Psychology in Psychiatry
 Hollis E. Clow, Assistant Professor of Psychiatry
 Harrison P. Eddy, Clinical Assistant Professor of Psychiatry
 Catherine H. Fales, Assistant Professor of Psychiatry
 Farouk F. Faragalla, Assistant Professor of Biochemistry in Psychiatry
 Bernard Fisher, Clinical Assistant Professor of Psychology in Psychiatry
 Gerard Fountain, Clinical Assistant Professor of Psychiatry
 Stephen Goodyear, Clinical Assistant Professor of Psychiatry
 Thomas S. Harper, Clinical Assistant Professor of Psychiatry
 Lawrence J. Hatterer, Clinical Assistant Professor of Psychiatry
 Thomas F. Henley, Clinical Assistant Professor of Psychiatry
 John E. Hughes, Clinical Assistant Professor of Psychiatry
 Peter T. Janulis, Clinical Assistant Professor of Psychiatry
 Francis D. Kane, Clinical Assistant Professor of Psychiatry
 Avraam T. Kazan, Clinical Assistant Professor of Psychiatry
 Seymour G. Klebanoff, Clinical Assistant Professor of Psychology in Psychiatry
 Robert G. Knight, Clinical Assistant Professor of Psychiatry
 Bernard Landis, Clinical Assistant Professor of Psychology in Psychiatry
 Ludwig G. Laufer, Clinical Assistant Professor of Psychiatry
 Alfred B. Lewis, Jr., Clinical Assistant Professor of Psychiatry
 Edward Y. Liang, Clinical Assistant Professor of Psychiatry
 Laurence Loeb, Clinical Assistant Professor of Psychiatry
 Armand W. Loranger, Assistant Professor of Psychology in Psychiatry
 William V. Lulow, Clinical Assistant Professor of Psychiatry
 Thomas J. Luparello, Assistant Professor of Psychiatry
 Paul R. McHugh, Assistant Professor of Neurology in Psychiatry
 Robert A. McKinley, Assistant Professor of Psychiatry
 William K. McKnight, Assistant Professor of Psychiatry
 Stanley T. Michael, Clinical Assistant Professor of Psychiatry
 Harry H. Moorhead, Clinical Assistant Professor of Psychiatry
 Bertrand L. New, Clinical Assistant Professor of Psychiatry
 Jacques M. Quen, Clinical Assistant Professor of Psychiatry
 Fred V. Rockwell, Clinical Assistant Professor of Psychiatry
 Raul C. Schiavi, Assistant Professor of Psychiatry
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
 Vernon H. Sharp, Assistant Professor of Psychiatry
 James H. Spencer, Jr., Clinical Assistant Professor of Psychiatry
 Tom G. Stauffer, Clinical Assistant Professor of Psychiatry
 Leonard R. Straub, Clinical Assistant Professor of Psychiatry
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry
 Bettina Warburg, Clinical Assistant Professor of Psychiatry
 Nathaniel Warner, Clinical Assistant Professor of Psychiatry
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry
 William D. Wheat, Clinical Assistant Professor of Psychiatry
 Peter G. Wilson, Clinical Assistant Professor of Psychiatry
 Alvin R. Yopalater, Clinical Assistant Professor of Psychiatry

Instructors:

Thomas Beckett
H. Mark Glasberg

Jane F. O'Neil
Robert B. Poundstone

Edward E. Seelye
Porter H. Warren

Clinical Instructors:

Edward T. Adelson
Arthur A. Anderson, Jr.
Ralph D. Baker
Harvey H. Barten
Edmund A. Bashkin
James E. Baxter
Marvin B. Blitz
James W. Brown
A. Louise Brush
Robert S. Carson
Charles I. Celian
Remo R. Cerulli
Edwin E. Church
Howard N. Cooper
Lois B. de Alvarado
John R. Delaney
Thomas L. Doyle, Jr.

Samuel V. Dunkell
Stuart R. Edelson
Rosemary B. Felton
G. Renee Ferguson
Theodore H. Finkle
Maria Freile Fleetwood
Nicholas Freyberg
Lionel O. Friedman
Myron L. Glucksman
Philip S. Herbert
Daniel N. Hertz
Marilyn G. Karmason
M. Dorothea Kerr
Allison B. Landolt
Rene C. Mastrovito
Lillian E. McGowan
John F. McGrath

Wayne A. Myers
Maurice Pachter
Edwin R. Ranzenhofer
Martha K. Reese
Philip S. Robbins
George Samios
Nicholas Samios
C. Neil Taylor
Nathan Thal
Sylvia G. Traube
Kenneth F. Tucker
Edward A. Vadeika
Traer Van Allen
Morton L. Wadsworth
James R. Ware
Louis Weinstein
Alden E. Whitney

Research Associates:

Burton Austen
Albert N. Brown-Mayers

Robert Fried

Sam Korn

Fellows:

Gerald A. Anderson
Joseph Arcuri
Mary V. Di Gangi
Lawrence A. Downs
Simon J. Epstein
Nikolas Golosow
George L. Hogben

Harold Kaufman
Kim A. Keeley
Leo E. Kreuz
Timothy B. Moritz
Walter J. Muller III
Anna M. Remler
Louis Richnak, Jr.

David B. Robbins
Jack G. Schoenholtz
Melvin J. Steinhart
Michael S. Stockheim
Katharine W. Swift
Leslie Van Nostrand
Eugene F. Vitori

Research Fellows:

Marc H. Branchey
Arline Bronzaft

Roslyn Hayes
Dorothy Ross

Meribeth Simpson

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of the New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR. Students are presented with selected topics from the various behavioral science fields

considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies will be provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 33.

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. Offers practical experience in interviewing and history taking, and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY. Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY. In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK. Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of the New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman
 Leona Baumgartner, Clinical Professor of Public Health
 William T. Ingram, Visiting Professor of Engineering in Public Health
 Edwin D. Kilbourne, Professor of Public Health

Samuel R. Berenberg, Clinical Assistant Professor of Public Health
 Aaron D. Chaves, Clinical Assistant Professor of Public Health
 Floyd H. Feldmann, Assistant Professor of Public Health
 August H. Groeschel, Assistant Professor of Public Health
 Rene I. Jahiel, Assistant Professor of Public Health
 Ann P. Kent, Clinical Assistant Professor of Public Health
 Robert M. McCune, Assistant Professor of Public Health
 Philip Ollstein, Clinical Assistant Professor of Public Health
 Jerome L. Schulman, Assistant Professor of Public Health
 Melvin S. Schwartz, Assistant Professor of Biometrics in Public Health

Clinical Instructors:

Gladys L. Hobby	William H. Loery	David Schottenfeld
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Research Associates:

Isabel M. Mountain	Kotaro Oizumi	Doris W. Wolter
Joseph D. Mountain	Julia T. Weld	

Research Fellow:

Jack F. Woodruff

Visiting Lecturers in

Biometrics:

George Condouris

John C. Seed

The teaching aim of the department of public health is to help increase the students' understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. To a considerable extent this involves both the identification of emerging disease problems and the ways they are shaped by the multiple interreactions among 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 the teaching is to help the student to apply the knowledge derived from the basic medical sciences and from clinical medicine, to the understanding of the emerging disease problems of the day.

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

SECOND YEAR: PARASITOLOGY. The first course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically underdeveloped areas and is given by Dr. B. H. Kean and his associates during the second trimester of the school year. Dr. Kean is head of the tropical disease unit in the department of medicine and has had extensive field experience in the tropics. 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 as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the two 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, Tuesday, Thursday, Friday afternoon during the first three weeks of the second trimester, a lecture or demonstration is presented from 2 to 3 p.m. and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33.

SECOND YEAR: EPIDEMIOLOGY. Soon after the course Parasitology (also during the second trimester of the year) a course, Introduction to Epidemiology, is given under the direction of Dr. James McCarroll. Emphasis is placed on patterns of disease occurrence and spread in the population, and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR. The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning

lectures, the teaching is all conducted with groups of seven to fourteen students. Total seminar and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR. The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP Program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of five seminars are held during each one-half year. Total hours, 14.

Elective Courses

EPIDEMIOLOGY AND INFECTIOUS DISEASES. Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

RADIOLOGY

John A. Evans, Professor of Radiology, Chairman
 Ralph Phillips, Clinical Professor of Radiology
 Robert S. Sherman, Clinical Professor of Radiology
 Israel Steinberg, Clinical Professor of Radiology
 Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology
 Harry W. Burnett, Associate Professor of Radiology
 Robert H. Freiburger, Associate Professor of Radiology
 Ulrich K. Henscke, Clinical Associate Professor of Radiology

David G. Bragg, Assistant Professor of Radiology
 Eugene Bronstein, Clinical Assistant Professor of Radiology
 Florence Chien Hwa-Chu, Clinical Assistant Professor of Radiology
 Kuo York Chynn, Assistant Professor of Radiology
 F. Mitchell Cummins, Clinical Assistant Professor of Radiology
 Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)
 Elizabeth Focht, Assistant Professor of Radiology (Physics)
 Eugene Furth, Assistant Professor of Radiology
 Herman Grossman, Assistant Professor of Radiology
 Basil S. Hilaris, Clinical Assistant Professor of Radiology
 George Jaspin, Clinical Assistant Professor of Radiology
 Paul Killoran, Assistant Professor of Radiology
 Marvin Loring, Assistant Professor of Radiology
 Zuheir Mujahed, Assistant Professor of Radiology
 Nathan Poker, Assistant Professor of Radiology
 Theodore Robinson, Clinical Assistant Professor of Radiology
 Samuel Seal, Clinical Assistant Professor of Radiology
 Henry M. Selby, Clinical Assistant Professor of Radiology
 Ruth E. Snyder, Clinical Assistant Professor of Radiology
 Harry L. Stein, Assistant Professor of Radiology
 Robin C. Watson, Assistant Professor of Radiology
 Stephen White, Clinical Assistant Professor of Radiology

Instructors:

Ina R. Altman
 Lincoln Lum

Eladio Nunez
 Samuel Phillips

George Stassa

Clinical Instructors:

Martin Edelman
William Goldstein

James Marquis

Richard C. Packert

Research Associate:

Edward M. Smith

Fellows:

Robert P. Cavallino
Leroy M. Kotzen
Thomas McCarthy

Thomas McGuire
John J. Murphy
Patricia Winchester

Stephen Zinn

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. 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. Three floors of the I. Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately 30 hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

Electives: Fourth Year

(1) **X-RAY CLINICAL CLERKSHIP.** A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) **TECHNIQUE OF FLUOROSCOPY.** Two hours. Limited to six students. Arrangements to be made through the department head.

(3) **GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION.** One month. Limited to six students at any one time.

SURGERY

Frank Glenn, Lewis Atterbury Stimson Professor of Surgery, Chairman

Joseph F. Artusio, Jr., Professor of Anesthesiology in Surgery

Goran C. H. Bauer, Professor of Surgery (Orthopedics)

Herbert Conway, Clinical Professor of Surgery (Plastic)

William Cooper, Clinical Professor of Surgery (Orthopedics)

John W. Draper, Clinical Professor of Surgery (Urology)

Cranston W. Holman, Clinical Professor of Surgery

Victor F. Marshall, Clinical Professor of Surgery (Urology)

John M. McLean, Clinical Professor of Surgery (Ophthalmology)

James A. Moore, Clinical Professor of Surgery (Otolaryngology)

S. A. Moore, Clinical Professor of Surgery

Sten-Erik Olsson, Visiting Professor of Surgery (Comparative Orthopedics)

Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)

Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)

Lee R. Straub, Clinical Professor of Surgery (Orthopedics)

T. Campbell Thompson, Clinical Professor of Surgery (Orthopedics)

Preston A. Wade, Clinical Professor of Surgery

William A. Barnes, Clinical Associate Professor of Surgery

Charles L. Burstein, Clinical Associate Professor of Anesthesiology in Surgery

Rolla D. Campbell, Jr., Clinical Associate Professor of Surgery (Orthopedics)

John R. Cobb, Clinical Associate Professor of Surgery (Orthopedics)

Peter Dineen, Clinical Associate Professor of Surgery

Howard S. Dunbar, Clinical Associate Professor of Surgery (Neurosurgery)

Edward A. Dunlap, Clinical Associate Professor of Surgery (Ophthalmology)

John H. Eckel, Clinical Associate Professor of Surgery

George F. Egan, Clinical Associate Professor of Surgery (Dentistry)

Helena Gilder, Associate Professor of Surgery (Biochemistry)

Edward I. Goldsmith, Clinical Associate Professor of Surgery

Dan M. Gordon, Clinical Associate Professor of Surgery (Ophthalmology)

George R. Holswade, Clinical Associate Professor of Surgery

Richard C. Karl, Associate Professor of Surgery

Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)

Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)

Henry Mannix, Jr., Clinical Associate Professor of Surgery

Benjamin E. Marbury, Clinical Associate Professor of Anesthesiology in Surgery

John H. McGovern, Clinical Associate Professor of Surgery (Urology)

William F. Nickel, Jr., Clinical Associate Professor of Surgery

Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)

S. Frank Redo, Clinical Associate Professor of Surgery

Peter-Cyrus Rizzo, Clinical Associate Professor of Surgery (Orthopedics)

Bjorn Thorbjarnarson, Clinical Associate Professor of Surgery

Jean E. Todd, Clinical Associate Professor of Pathology in Surgery

Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology in Surgery

Alan Van Poznak, Clinical Associate Professor of Anesthesiology in Surgery

George E. Wantz, Clinical Associate Professor of Surgery

John P. West, Clinical Associate Professor of Surgery

Willet F. Whitmore, Jr., Clinical Associate Professor of Surgery (Urology)

Philip D. Wilson, Jr., Clinical Associate Professor of Surgery (Orthopedics)

William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)

Irving Baras, Clinical Assistant Professor of Surgery (Ophthalmology)

Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)

Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)

Paul W. Braunstein, Clinical Assistant Professor of Surgery

George N. Cornell, Clinical Assistant Professor of Surgery

John H. Doherty, Assistant Professor of Surgery (Orthopedics)

J. Edwin Drew, Clinical Assistant Professor of Surgery (Urology)

Edward D. Eanes, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)

Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)

Herbert L. Erlanger, Clinical Assistant Professor of Anesthesiology in Surgery
 Hollon W. Farr, Clinical Assistant Professor of Surgery
 Hilliard E. Firschein, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 Miles A. Galin, Assistant Professor of Surgery (Ophthalmology)
 Harold Genvert, Clinical Assistant Professor of Surgery
 Dicran Goulian, Jr., Clinical Assistant Professor of Surgery (Plastic)
 William R. Grafe, Clinical Assistant Professor of Surgery
 José L. Granda, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 Peter M. Guida, Clinical Assistant Professor of Surgery
 Maury L. Hanson, Assistant Professor of Surgery (Neurosurgery)
 Bruce R. Heinzen, Clinical Assistant Professor of Surgery
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)
 James M. Holman, Clinical Assistant Professor of Surgery (Otolaryngology)
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)
 Allan E. Inglis, Clinical Assistant Professor of Surgery (Orthopedics)
 Bernard Jacobs, Clinical Assistant Professor of Surgery (Orthopedics)
 Jerry Hart Jacobson, Clinical Assistant Professor of Surgery (Ophthalmology)
 Joseph T. Kauer, Clinical Assistant Professor of Surgery
 Edward B. C. Keefer, Clinical Assistant Professor of Surgery
 John G. Keuhnelian, Clinical Assistant Professor of Surgery (Urology)
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)
 Harvey A. Lincoff, Clinical Assistant Professor of Surgery (Ophthalmology)
 James S. Magidson, Clinical Assistant Professor of Pathology in Surgery
 Ralph C. Marcove, Clinical Assistant Professor of Surgery
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)
 Charles K. McSherry, Clinical Assistant Professor of Surgery
 Laurence Miscall, Clinical Assistant Professor of Surgery
 George R. Monahan, Clinical Assistant Professor of Anesthesiology in Surgery
 George C. Mueller, Clinical Assistant Professor of Surgery (Otolaryngology)
 James A. Nicholas, Clinical Assistant Professor of Surgery (Orthopedics)
 Arthur J. Okinaka, Clinical Assistant Professor of Surgery
 Russel H. Patterson, Jr., Assistant Professor of Surgery (Neurosurgery)
 John G. Schmidt, Clinical Assistant Professor of Surgery
 Donald M. Shafer, Clinical Assistant Professor of Surgery (Ophthalmology)
 Paul A. Skudder, Clinical Assistant Professor of Surgery
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic)
 Stuart S. Snyder, Clinical Assistant Professor of Surgery (Ophthalmology)
 Frank J. Veith, Assistant Professor of Surgery
 John C. Whitsell II, Clinical Assistant Professor of Surgery
 John R. Williams, Clinical Assistant Professor of Surgery (Otolaryngology)

Instructors:

Donald F. Brown	Djamshid Ghatan	Richard G. Middleton
William J. Bruton	Robert A. Goldstone	Lloyd A. Moriber
Aurelien Carre	Anita H. Goulet	Edward C. Muecke
Clifford W. Colwell	O. Adrian Johnson	Arsen M. Pankovich
Armand F. Cortese	Eugene M. Lance	James D. Prokop
Richard A. Davidson	J. Ralph Macfarlane	Raymond St. Pierre
Robert W. Davis, Jr.	J. Bruce McGovern	Dean H. Weaver
Robert L. Fisher	Peter W. McKinney	Henry G. White

Clinical Instructors:

Harlen C. Amstutz	Mitchell Brice II	Robert D. Deans
Samuel Avnet	Michael Browne	Wade Duley
Howard D. Balensweig	Anthony Camarda	Charles R. Dunbar
Kenneth R. Barasch	Thomas I. Carey	Richard G. Eaton
Raymond G. Barile	Robert I. Clarke	Francis J. Fadden
Leonard Biel, Jr.	Edward C. Coats	Edgar P. Fleischmann
Dragan Borovac	Elizabeth F. Constantine	John L. Fox
L. Thompson Bowles	Rudolph C. Dangelmajer	William C. Frederick

Milton Gabel
Charles K. Hamilton
Suzanne A. L. Howe
Ann Huston
John N. Insall
Barnett J. Junker
Aileen Kass
Jerome Lawrence
David B. Levine
Alfred E. Mamelok
Peter J. Marchisello
Mary H. Markham

Joseph B. Mason
William J. Nelson
John G. Ogilvie
Patricia M. O'Neil
Earl A. O'Neil
Ahmad Orandi
Walter L. Peretz
Walter F. Pizzi
Thomas D. Rizzo
Robert W. Schick
Jerold Schwartz
Michael Sierp

Martin Spatz
David S. Speer
Richard M. Stark
William J. Storz
John F. Struve
David G. Susman
Irvin S. Taylor
Joseph N. Ward
Judith Weingram
Roy C. Wiggins
Peter Wei Ting Yu
Robert B. Zufall

Research Associates:

Maximo Deysine

Ronald W. Gillette

Research Fellows:

Merrill S. Climo
Manuel Fernandes
Tatsuo Hirose

Hans Kivelitz
Ruth S. Long
Rafael Pola

Arnold B. Popkin
Takashi A. Suzuki
Masahiko Tsuchiya

Fellows:

Donald W. Abel
Charles B. Abelson
George W. Allgair, Jr.
Janet E. Allgair
James W. Asaph
Algeria D. Bahia
James S. Bethea III
Robert B. Caplan
Gabriel G. Curtis
Robert L. Diaz
William J. DiMattia
Michael W. Dunn
William F. Flynn
Erskin A. Gaston II
John S. Glenn
Timothy R. Harrington
Laurence S. Harris
Edward McG. Hedgepeth,
Jr.
Edward Y. Henjyoi
Julian T. Hoff
Brent J. Holleran
Richard M. Hook

Nadine S. Hradsky
Harold G. Kunz
Peter L. Laino
Ferdinand LaVenuta
Joseph P. Leddy
James R. Lee
Mark A. Lieberman
Walter J. Loehr
Kazimierz Madalinski
Raymond C. Matteucci
Irvine G. McQuarrie
Thomas H. Milhorat
Terry O. Miller
Brian G. Miscall
Holland V. Moore
Kevin P. Morrissey
Douglas R. Norman
William P. O'Grady
Caldwell H. Oliver, Jr.
A. Michael Pardue
Benjamin S. Park, Jr.
John M. Parsons
Jean Paul Perreault
Herbert S. Perry

Robert A. Pezzulich
Andrew G. Pichler
Mohammad R. Radmanesh
Irving J. Raksin
J. Richard Rees
Michael F. Rodi
Edgar J. Sanford
John C. Schiebler
Thomas J. Schulz
Robert M. Segaul
Robert P. Sengelmann
Ravindra F. Shah
Gad Shtacher
Yung Jai Shon
Jacqueline J. Struthers
William T. Stubenbord
Kenneth G. Swan
Richard N. Tiedemann
William S. Tunner
Robert S. Waldbaum
George M. Watkins
Kuhrt Wieneke, Jr.
Robert L. Wilson
F. Darwin Zahn

MEMORIAL HOSPITAL

Henry T. Randall, Professor of Surgery, Clinical Director
Edward J. Beattie, Jr., Professor of Surgery
Alexander Brunswick, Clinical Professor of Surgery

William G. Cahan, Clinical Associate Professor of Surgery
Eugene E. Clifton, Clinical Associate Professor of Surgery
Michael R. Deddish, Clinical Associate Professor of Surgery
Joseph H. Farrow, Clinical Associate Professor of Surgery
Joseph G. Fortner, Clinical Associate Professor of Surgery
Edgar L. Frazell, Clinical Associate Professor of Surgery
William S. Howland, Associate Professor of Anesthesiology in Surgery
Walter Lawrence, Jr., Clinical Associate Professor of Surgery
Gordon McNeer, Clinical Associate Professor of Surgery

Theodore R. Miller, Clinical Associate Professor of Surgery
 Willet F. Whitmore, Jr., Clinical Associate Professor of Surgery (Urology)

Robert J. Booher, Clinical Assistant Professor of Surgery
 Lemuel Bowden, Clinical Assistant Professor of Surgery
 C. Paul Boyan, Assistant Professor of Anesthesiology in Surgery
 Richard D. Brasfield, Clinical Assistant Professor of Surgery
 Daniel Catlin, Clinical Assistant Professor of Surgery
 Harry Grabstald, Clinical Assistant Professor of Surgery (Urology)
 Arthur I. Holleb, Clinical Assistant Professor of Surgery
 John S. Lewis, Clinical Assistant Professor of Surgery
 Lucille Loseke, Clinical Assistant Professor of Surgery
 Ralph C. Marcove, Clinical Assistant Professor of Surgery
 Charles J. McPeak, Clinical Assistant Professor of Surgery
 John L. Pool, Clinical Assistant Professor of Surgery
 Guy Robbins, Clinical Assistant Professor of Surgery
 Olga Schweizer, Assistant Professor of Anesthesiology in Surgery
 Reuven K. Snyderman, Clinical Assistant Professor of Surgery
 Maus Stearns, Jr., Clinical Assistant Professor of Surgery
 H. Randall Tollefsen, Clinical Assistant Professor of Surgery
 Jerome A. Urban, Clinical Assistant Professor of Surgery

Instructors:

Rita G. Jacobs Gail M. Ryan

Clinical Instructors:

Myron Arlen	John T. Goodner	Michael A. Paglia
Donald G. C. Clark	Charles C. Harrold, Jr.	Elisabeth P. Pickett
Angelo DePalo	Ralph E. L. Hertz	Stuart Quan
Alfred A. Fracchia	John C. Lucas	Elliot W. Strong
Frank P. Gerold	A. Ranald Mackenzie	Horace W. Whiteley, Jr.
Harry S. Goldsmith	Oliver S. Moore	

Fellows:

Ernesto Ego-Aguirre	Frank King	Harold E. Ramsey
Blake Cady	Thomas E. Murphy	

General Surgery

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.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR. In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned

each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand 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 in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, 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 by the students 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.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

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. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR. In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinic clerk the

student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients 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 has specific responsibilities in the post-operative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

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. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

Elective Courses

ANESTHESIOLOGY. Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined

with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY. Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY. Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP. Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY. Maximum of four students. Eight weeks course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY. An opportunity is available for one student each period to participate in laboratory and clinical use of the extra-corporeal pump-oxygenator.

ORTHOPEDIC SURGERY. Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY. Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

IMMUNOLOGY. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

VIROLOGY. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescence foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

BIOCHEMISTRY. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

PHYSIOLOGICAL CHEMISTRY. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

All students not registered in Cornell University Graduate School 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.

FEES

MATRICULATION FEE: \$10

ADMISTRATION FEE: \$5

Tuition fees vary depending upon the type of work taken. A break-age fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		165			165
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
BIOMETRICS		22			22
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS*		164			164
MEDICINE:					
Clinical Pathology & Introductory Medicine		100			
Specialties, Clerkship, & OPD			352	280	
Lectures			33		765
MEDICAL COMPREHENSIVE CARE†				100	100
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	70	
Lectures			33		
Contagious Disease			18		275
PSYCHIATRY:					
Medical Aspects of Human Behavior	33				
Psychiatry		33	33	42	
Lectures				33	174
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVES HOURS				570	570
TOTALS	1067	991	1250	1710	5018

*Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

†The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 100 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE
1966-67

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Develop-mental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Microscopic Anatomy
10-11		Gross Anatomy				
11-12						
12-1			Develop-mental Anatomy and Genetics			
1-2	Biochemistry	Develop-mental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2-3	Develop-mental Anatomy and Genetics	Gross Anatomy		Psychiatry	Develop-mental Anatomy and Genetics	
3-4	Microscopic Anatomy			Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry
11-12						
12-1						
1-2	Biochemistry		Biochemistry	Biochemistry		
2-3	Gross Anatomy	Gross Anatomy	Psychiatry	Gross Anatomy		
3-4			Free			
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
10-11						Radiobiology*
11-12						
12-1						
1-2						
2-3	Biochemistry	Physiology	Free	Physiology	Physiology	
3-4						
4-5	Free				Free	

* Multidepartmental course.

SECOND YEAR SCHEDULE 1966-67

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology		Pathology	Pathology	Pharmacology	Biometrics
10-11						Pharmacology
11-12						
12-1		CPC				
1-2	Free					
2-3	Microbiology			Pharmacology	Microbiology	
3-4			Microbiology	Biometrics		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9-10	Pharmacology	CPC	Pharmacology	Pathology	Pharmacology	Pathology		
10-11	Pathology		Pathology			Pathology	Pharmacology	
11-12								
12-1								
1-2	Free							
2-3	Microbiology & Parasitology		Microbiology & Parasitology	Pharmacology	Microbiology & Parasitology			
3-4				Free				
4-5								

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Medicine*	Medicine*	Public Health	Pathology	Psychiatry	
10-11			Medicine*			
11-12					Neurology	
12-1			CPC			
1-2						
2-3	Medicine*	Free	Medicine*	Medicine*	Medicine*	
3-4						
4-5						

* Medicine time will be subdivided to provide for: Physical Diagnosis, Introductory Medicine, Neurology, and Clinical Pathology.

THIRD YEAR SCHEDULE 1966-67

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2						
2-3			Free			
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE - HALF TERM (5½ WEEKS) PEDIATRICS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3	Pediatrics	Pediatrics	Free	Pediatrics		
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE - HALF TERMS (5½ WEEKS) OBSTETRICS AND GYNECOLOGY, PSYCHIATRY, PUBLIC HEALTH, CONTAGIOUS DISEASES

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3		Psychiatry	Free	Psychiatry	Pb. Hl.	
3-4						
4-5	C.P.C.					

FOURTH YEAR SCHEDULE

June 20 to May 25

I. AMBULATORY CARE		(c) SURGERY OB.	(d) OB. SURGERY	ELECTIVE	
(a) II. SURGERY OB.	(b) OB. SURGERY	ELECTIVE		AMBULATORY CARE	
III. ELECTIVE		AMBULATORY CARE		(e) SURGERY OB.	(f) OB. SURGERY



Sections I, II, and III
Divisions of Surgery and Ob.—a through f

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. By agreement dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College. This expansion of the New York City component of the Graduate School resulted in the establishment in January, 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in the fields of anatomy, biochemistry, biomathematics, biophysics, immunology, microbiology, pathology, pharmacology, physiology, public health, and preventive medicine.

The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College previously described in this Announcement and of the Sloan-Kettering Division described below. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

SLOAN-KETTERING DIVISION

Under the agreement mentioned above, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

REPRESENTATIVES OF MEMORIAL HOSPITAL

John M. Walker

REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Warren Weaver

Frank L. Horsfall, Jr.

REPRESENTATIVES OF CORNELL UNIVERSITY

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees

James A. Perkins, President of the University

REPRESENTATIVES OF THE SOCIETY OF THE NEW YORK HOSPITAL

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Howard Laboratory, 410 East 68th Street, and the Kettering Laboratory, 425 East 68th Street, New York City; and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. Both the Howard and Kettering Laboratories are in direct connection with two hospitals: Memorial Hospital, a voluntary institution of 380 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields.

BIOCHEMISTRY

M. Earl Balis, Professor of Biochemistry
 Aaron Bendich, Professor of Biochemistry
 Oscar Bodansky, Professor of Biochemistry
 George B. Brown, Professor of Biochemistry
 Liebe F. Cavaliere, Professor of Biochemistry
 Jack J. Fox, Professor of Biochemistry
 Mary L. Petermann, Professor of Biochemistry
 C. Chester Stock, Professor of Biochemistry

Ralph K. Barclay, Associate Professor of Biochemistry
 Saul Green, Associate Professor of Biochemistry
 Morton K. Schwartz, Associate Professor of Biochemistry
 Martin Sonenberg, Associate Professor of Biochemistry

Ellen Borenfreund, Assistant Professor of Biochemistry
 John F. Codington, Assistant Professor of Biochemistry
 Alfredo Giner-Sorolla, Assistant Professor of Biochemistry
 Mary G. Hamilton, Assistant Professor of Biochemistry
 Dietrich Hoffmann, Assistant Professor of Biochemistry
 Willi Kreis, Assistant Professor of Biochemistry
 Samuel J. Levin, Assistant Professor of Biochemistry
 Jerome S. Nisselbaum, Assistant Professor of Biochemistry
 Barbara H. Rosenberg, Assistant Professor of Biochemistry
 Josephine S. Salser, Assistant Professor of Biochemistry
 Vladimir P. Skipski, Assistant Professor of Biochemistry
 Archie L. Smith, Assistant Professor of Biochemistry

Instructor:

Sylvia Lee-Huang

Intensive study is offered in the fields of enzymology, bio-organic chemistry, molecular biology, and metabolism of proteins and nucleic acids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, organic chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of

these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

Gilbert Dalldorf, Professor of Pathology, Emeritus

Frank W. Foote, Jr., Professor of Pathology

Frank L. Horsfall, Jr., Professor of Microbiology

Frederick S. Phillips, Professor of Pharmacology

Fred W. Stewart, Professor of Pathology, Emeritus

Edward A. Boyse, Associate Professor of Biology

Etienne De Harven, Associate Professor of Biology

Jørgen E. Fogh, Associate Professor of Microbiology

Charlotte Friend, Associate Professor of Microbiology

Peter J. Gomatos, Associate Professor of Microbiology

Dorris J. Hutchinson, Associate Professor of Microbiology

Leopold G. Koss, Associate Professor of Pathology

William L. Money, Associate Professor of Biology

Alice E. Moore, Associate Professor of Biology

Lloyd J. Old, Associate Professor of Biology

H. Christine Reilly, Associate Professor of Microbiology

Stephen S. Sternberg, Associate Professor of Pathology

Leo Wade, Associate Professor of Preventive Medicine

Ernest L. Wynder, Associate Professor of Preventive Medicine

June L. Biedler, Assistant Professor of Biology

Edward S. Essner, Assistant Professor of Biology

Charles P. Miles, Assistant Professor of Pathology

Wilbur F. Noyes III, Assistant Professor of Biology

Herbert F. Oettgen, Assistant Professor of Biology

Herbert S. Schwartz, Assistant Professor of Pharmacology

Francis M. Sirotinak, Assistant Professor of Microbiology

Bernard Tandler, Assistant Professor of Biology

Morris N. Teller, Assistant Professor of Biology

Instructor:

Alberta M. Albrecht

Elaine G. Diacumakos

George Sichuk

James G. Cappuccino

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, cytology, genetics, immunology, and virology. A brief specialized course is offered in the chemotherapy of cancer for physicians and research workers in October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), mathematics (through calculus), general biology or general zoology or general botany, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

John S. Laughlin, Professor of Biophysics

Edward R. Epp, Associate Professor of Biophysics

Helen Q. Woodard, Associate Professor of Biophysics

Karin R. Corey, Assistant Professor of Biophysics

Harold Moroson, Assistant Professor of Biophysics

Ira Pullman, Assistant Professor of Biophysics

Louis Zeitz, Assistant Professor of Biophysics

Instructor:

Jerrold Fried

Peter J. Kenny

Jae Ho Kim

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the coexistence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental conditions; trace element analysis of tissue sections by means of fluorescent x-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. Undergraduate courses in quantitative analysis, physical and organic chemistry, biology, and physiology are also required as prerequisites for graduate courses in biochemistry and cell physiology. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

INTERNSHIP APPOINTMENTS*

CLASS OF 1966

Bedotto, Carmine	Mx.-M,S	San Francisco General Hospital, San Francisco, Calif.
Bell, Randall W.	Rot.	Walter Reed General Hospital, Washington, D.C.
Boothby, John A.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Borrison, Richard A.	Surg.	University of California, San Francisco, Calif.
Bostrom, Paul D.	Rot.	Mary Fletcher Hospital, Burlington, Vermont
Bryan, James W.	Surg.	The New York Hospital, New York, N.Y.
Burns, James A.	Rot.	University Hospitals, Iowa City, Iowa
Carnay, Laurence D.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Carney, Alexander S.	Mx.-M	Medical College of Virginia, Richmond, Virginia
Carthy, John J.	Surg.	St. Vincent's Hospital, New York, N.Y.
Clark, Paul S.	Med.	Cleveland Metropolitan General Hospital, Cleveland, Ohio
Corcoran, James F.	Rot.	Wilford Hall, USAF Hospital, Lackland AFB, Texas
Curran, Robert E.	Med.	The New York Hospital, New York, N.Y.
Dahl, Andrew A.	Med.	The New York Hospital, New York, N.Y.
Davidson, J. Thomas	Mx.-S	Baltimore City Hospitals, Baltimore, Maryland
DeBell, Peter J.		Presbyterian-St. Luke's Hospital, Chicago, Ill.
Deitrick, John E., Jr.	Med.	The New York Hospital, New York, N.Y.
Denney, John D.	Surg.	University of Washington Hospitals, Seattle, Wash.
Dosik, Michael H.	Surg.	Upstate Medical Center, Syracuse, N.Y.
Downs, Patricia	Med.	Genesee Hospital, Rochester, N.Y.
Duggan, Francis J., Jr.	Med.	The New York Hospital, New York, N.Y.
Farnest, Michael P.	Rot.	The New York Hospital, New York, N.Y.
Farrell, Robert M.	Surg.	The New York Hospital, New York, N.Y.
Fauci, Anthony S.	Med.	The New York Hospital, New York, N.Y.
Fine, Richard H.	Surg.	San Francisco General Hospital, San Francisco, Calif.
Franklin, John E., Jr.	Rot.	University of Minnesota Hospital, Minneapolis, Minn.
Fraser, David G.	Surg.	University of California, San Francisco, Calif.
Gaufrin, Lynn M.	Rot.	University of Oregon Hospitals, Portland, Oregon
Geller, Robert D.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Goodfriend, Michael A.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Gould, Robert M.	Med.	Upstate Medical Center, Syracuse, N.Y.
Graybill, John R.	Med.	Vanderbilt University Hospital, Nashville, Tenn.
Greenblatt, Samuel H.	Surg.	Boston City Hospital, Boston University Division, Boston, Mass.
Gripekoven, Price	Mx.-S	Roosevelt Hospital, New York, N.Y.
Hamilton, Francis, Jr.	Mx.-M	University Hospitals, Madison, Wisc.
Happer, Ian M.	Med.	University Hospital, Birmingham, Ala.
Hodder, Richard A.	Med.	St. Vincent's Hospital, New York, N.Y.
Hoeldtke, Robert D.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Hume, Orne S.	Rot.	St. Vincent's Hospital, New York, N.Y.
Kaplan, Mark H.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Kearing, H. David	Mx.-M	Upstate Medical Center, Syracuse, N.Y.
Lee, Harry G.	Med.	Grady Memorial Hospital, Atlanta, Georgia
Lehman, Jay S.	Med.	The New York Hospital, New York, N.Y.
Levin, Stuart E.	Surg.	Cincinnati General Hospital, Cincinnati, Ohio
Levine, Richard U.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Lewis, Roger K.	Mx.-M	Bellevue Hospital, 2nd Division, New York, N.Y.
Lichtig, Michael L.	Mx.-M	Genesee Hospital, Rochester, New York
Lippman, Kenneth J.	Med.	Upstate Medical Center, Syracuse, N.Y.
Mason, I. Ira	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.

114 REGISTER OF STUDENTS

Mathewson, Herbert O.	Mx.-Ped.	Strong Memorial Hospital, Rochester, N.Y.
McSweeney, James J., Jr.	Surg.	The New York Hospital, New York, N.Y.
Meltzer, Glenn A.	Med.	Mt. Sinai Hospital, Cleveland, Ohio
Middleton, Anthony W.	Surg.	University of Utah Hospital, Salt Lake City, Utah
Olender, Irving W.	Med.	University Hospital, Ann Arbor, Michigan
Parthemore, Jacqueline	Med.	The New York Hospital, New York, N.Y.
Postlethwaite, Arnold	Med.	Charity Hospital, Tulane Division, New Orleans, La.
Rankin, Kenneth N.	Mx.-M,S	San Francisco General Hospital, San Francisco, Calif.
Resnick, Donald L.	Med.	Jackson Memorial Hospital, Miami, Florida
Richman, Morris M.	Ped.	Cleveland Metropolitan Hospital, Cleveland, Ohio
Richmond, Stewart S.	Med.	University of California, San Francisco, Calif.
Roberts, Donald A.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Rogers, Terry R.	Med.	Presbyterian Hospital, Philadelphia, Pa.
Sarda, Rabin M.	Surg.	The New York Hospital, New York, N.Y.
Schellhammer, Paul F.	Surg.	University Hospitals, Cleveland, Ohio
Schiller, Carl F.	Med.	University of Oklahoma Hospital, Oklahoma City, Okla.
Secunda, Steven K.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Sherman, Mark M.	Surg.	The New York Hospital, New York, N.Y.
Smith, Garry L.	Surg.	The New York Hospital, New York, N.Y.
Stauffer, John Q.	Med.	The New York Hospital, New York, N.Y.
Stein, Arthur H.	Med.	Barnes Hospital, St. Louis, Missouri
Stewart, Susan C.	Mx.-M	Brooklyn-Cumberland Medical Center, New York, N.Y.
Sugarbaker, Everett V.D.	Surg.	Massachusetts General Hospital, Boston, Mass.
Sullivan, Robert J. Jr.	Med.	Grady Memorial Hospital, Atlanta, Georgia
Sydorak, Gerald R.	Surg.	University of California, San Francisco, Calif.
Tucker, David N.	Mx.-M	Mount Sinai Hospital, New York, N.Y.
Urbaitis, John C.	Med.	Brooklyn-Cumberland Medical Center, New York, N.Y.
Ureta, Laura	Mx.-M	St. Vincent's Hospital, New York, N.Y.
Welch, John R.	Rot.	Parkland Memorial Hospital, Dallas, Texas
Witwer, John P.	Ped.	Children's Medical Center, Seattle, Wash.
Wood, David F.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Zlatnik, Frank J.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.

* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1966-1967

FOURTH YEAR

Robert Powers Ainsworth, B.E. 1962, Yale University	Columbus, Ohio
William John Conrad Amend, Jr., B.A. 1963, Amherst College	Wilmington, Delaware
Robert Joseph Binder, B.A. 1963, Williams College	West Englewood, N.J.
Joseph Patrick Bohan, B.S. 1963, Manhattan College	New York, N.Y.
Judith Axelrod Caplan, A.B. 1963, Wellesley College	Clinton, Mass.
Richard Joseph Castiello, B.A. 1963, Williams College	Bethesda, Md.
David Rubin Chipkin, B.S. 1963, Dickinson College	Flushing, N.Y.

- Francis David Chisari, A.B. 1963, Fordham University*
 Orlo Herrick Clark, A.B. 1963, Cornell University
 Cal K. Cohn, A.B. 1963, Columbia University
 Richard Charles Connors, B.A. 1963, Holy Cross
 James John Crossley, A.B. 1963, Princeton University
 Susan Moss Daum, A.B. 1963, Cornell University
 Kermit Wayne Dewey, A.B. 1963, Cornell University
 Dean Stuart Edell, A.B. 1963, Cornell University
 Ronald Charles Eggert, A.B. 1963, Dartmouth College
 Albert Brooks Einstein, Jr., A.B. 1963, Princeton University
 Robert Stephan Ennis, A.B. 1963, Columbia University
 Frank Owen Evans, Jr., 1963, Washington & Lee University
 Arthur Eugene Fetzer, A.B. 1962, Cornell University
 Yale Lloyd Fisher, A.B. 1964, Cornell University
 Paul Francis Foraste, Jr., A.B. 1962, College of the Holy Cross
 John Halm Galla, B.S. 1958, United States Naval Academy
 John Alan Grossman, A.B. 1963, Princeton University
 Paul Leonard Gunderson, B.S. 1963, Wheaton College
 David Hunt Gundy, A.B. 1962, Dartmouth College
 Charles Hennekens, B.S. 1963, Queens College
 John Jacob Hill, A.B. 1963, San Diego State College
 William Vincent Hindle, Jr., A.B. 1963, Dartmouth College
 William Russel Hunt, A.B. 1963, Harvard University
 William Michael Kamell, B.S. 1963, St. Peter's College
 Robert Allen Charles Kaye, A.B. 1963, Drew University
 Gerald Thomas Keegan, B.S. 1963, St. Peter's College
 Frederick Karl Kirchner, Jr., B.S. 1963, Dickinson College
 Sandra Gustafson Kirchner, A.B. 1962, Wellesley College
 James Allen Krick, B.A. 1962, Amherst College
 Robert Tulloch Lacy, A.B. 1963, Yale University
 Robert Lewis Lesser, B.S. 1963, Queens College
 Bruce Malcolm Lidston, B.S. 1963, Lebanon Valley College
 Richard Michael Lumiere, A.B. 1963, Cornell University
 John Leon Marquardt, A.B. 1963, John Carroll University
 Kenneth Maurice Matchett, Jr., B.S. 1963, Stanford University
 Kimball Ivan Maull, A.B. 1963, University of Virginia
 Mark Harold Miller, A.B. 1963, Cornell University
 William David Miller, A.B. 1963, Cornell University
 Richard Stuart Muchnick, A.B. 1963, Cornell University
 Steven Anthony Muller, B.Ch.E. 1963, Cornell University
 Charles Ronald Nicolosi, B.S. 1963, Manhattan College
 Michael Oliphant, A.B. 1963, Columbia University
 Lawrence William Osborn, B.A. 1963, Amherst College
 David Michael Ozonoff, B.S. 1962, University of Wisconsin
 David Allan Parker, A.B. 1963, Harvard University
 Charles Alfred Peterson, A.B. 1961, Dartmouth College; M.F. 1963, Yale University
 Paul Edwin Pierce, A.B. 1963, Northwestern University
 Rowland Walker Pritchard, A.B. 1962, Dartmouth College
 Robert Paul Radin, B.A. 1962, University of Virginia
 Arthur Charles Rettig, Jr., A.B. 1963, Yale University
 Thomas William Revak, A.B. 1960, Cornell University
 Delbert Glen Ririe, B.S. 1964, University of Utah
 John Patrick Rooney, B.S. 1963, John Carroll University*
 Steven Leonard Rosen, A.B. 1963, Harvard University
 William Leslie Rutherford, A.B. 1963, Stanford University
 Bronxville, N.Y.
 Nutley, N.J.
 New York, N.Y.
 Worcester, Mass.
 Watertown, N.Y.
 Flushing, N.Y.
 Malone, N.Y.
 New York, N.Y.
 Riverside, Conn.
 Baltimore, Md.
 Whitestone, N.Y.
 Milledgeville, Ga.
 Hartsville, Pa.
 Glen Rock, N.J.
 Scarsdale, N.Y.
 Bridgeport, Conn.
 New York, N.Y.
 Chicago, Ill.
 Rye, N.Y.
 New York, N.Y.
 La Mesa, Calif.
 Cranston, R.I.
 Poplar, Montana
 Elizabeth, N.J.
 Morristown, N.J.
 Jersey City, N.J.
 Delmar, N.Y.
 Worcester, Mass.
 Washington, D.C.
 Devon, Pa.
 Flushing, N.Y.
 Old Tappan, N.J.
 Dalton, Ga.
 Lakewood, Ohio
 Grand Junction, Colo.
 Morristown, N.J.
 Meadville, Pa.
 Williamsville, N.Y.
 Brooklyn, N.Y.
 Delmar, N.Y.
 New York, N.Y.
 New York, N.Y.
 Shaker Heights, Ohio
 Milwaukee, Wisc.
 Rochester, N.Y.
 Hamilton, Mont.
 Alton, Ill.
 Stamford, Conn.
 Yonkers, N.Y.
 Muncie, Ind.
 Mt. Carmel, Pa.
 Salt Lake City, Utah
 Stamford, Conn.
 Brighton, Mass.
 Peoria, Ill.

* On leave of absence, research fellowship.

Christopher Dyer Saudek, A.B. 1963, Harvard University	Bronxville, N.Y.
Donald Allen Schlernitzauer, A.B. 1963, Cornell University	Bellaire, Ohio
Robert Gary Schwager, A.B. 1963, University of Virginia	Brooklyn, N.Y.
Philip Edward Schweitzer, A.B. 1963, College of the Holy Cross	Pelham, N.Y.
Robert Willard Scott, B.S. 1963, Ohio State University	Scarsdale, N.Y.
Stephen Robert Severance, Cornell University	Brecksville, Ohio
John Henry Shenasky II, A.B. 1963, Cornell University	Clarksburg, W. Va.
Bruce Duncan Simonds, B.S. 1963, Cornell University	Beloit, Wisc.
William Patrick Soles, A.B. 1963, University of Utah	Oren, Utah
Frederick Peter Spin, A.B. 1963, Columbia University	Brooklyn, N.Y.
William Robert Stiles, A.B. 1963, Harvard University	Evanston, Ill.
Paul Hendrick Sugarbaker, B.S. 1963, Wheaton College	Jefferson City, Mo.
Mark Lewis Teitelbaum, B.A. 1963, Williams College	Hewlett, N.Y.
George Gregory Telesh, A.B. 1962, Cornell University	Clifton, N.J.
John Michael Thorp, B.S. 1962, University of Rhode Island	Centerdale, R.I.
Edward Tsou, A.B. 1963, Rutgers University	New York, N.Y.
Anthony Paul Turel, J., A.B. 1963, Cornell University	Kingston, Pa.
George Michael Uhran, B.S. 1963, Fordham University*	Flushing, N.Y.
Nicholas Joseph Vianna, B.S. 1963, St. Peter's College	New York, N.Y.
H. James Wedner, A.B. 1963, Cornell University	Pittsburgh, Pa.
Burton Carey West, B.A. 1963, Amherst College	New York, N.Y.
James Burnham Wirth, A.B. 1963, Cornell University	New Milford, N.J.
Dennis Watkins Wise, B.S. 1961, Wheaton College	Warren, Ohio
Russell Rudolph Zelko, A.B. 1962, Cornell University	Bethlehem, Pa.

THIRD YEAR

Edward Philip Ambinder, A.B. 1964, Princeton University	Bronxville, N.Y.
Arnold Elle Andersen, A.B. 1964, Cornell University	Brooklyn, N.Y.
Jeffrey Mark Applestein, A.B. 1964, Duke University	Trenton, N.J.
Orestes Joseph Arcuni, B.S. 1964, Fordham College	New York, N.Y.
Michael Stuart Balis, Franklin & Marshall College	Maplewood, N.J.
John Earle Barnes, A.B. 1962, Stanford University	Rolling Hills, Calif.
Alfred Sidney Barritt III, A.B. 1964, College of the Holy Cross	Brooklyn, N.Y.
Paul Emerson Bates, B.A. 1964, College of the Holy Cross	Rome, N.Y.
Joseph Victor Battista, Jr., A.B. 1964, Princeton University	Mountain Lakes, N.J.
Robert Forest Bedford, A.B. 1964, Princeton University	Mountain Lakes, N.J.
George Ellis Berkowitz, A.B. 1964, Princeton University	Philadelphia, Pa.
Thomas Dwight Bird, A.B. 1964, Dartmouth College	Lancaster, Pa.
William Warner Brockman, B.S. 1964, Cornell University	Dobbs Ferry, N.Y.
Stuart Tait Brown, A.B. 1964, Dartmouth College	Lemont, Ill.
David Hoogner Calder, A.B. 1964, Dartmouth College	Wyckoff, N.J.
Gabrielle Arakelian Carlson, B.A. 1964, Wellesley College	New Canaan, Conn.
Harold Ernest Carlson, B.S. 1964, Rensselaer Polytechnic Institute	Falconer, N.Y.
Arlan Avrom Cohen, B.A. 1964, Columbia University	Brooklyn, N.Y.
Robert Chaplin Collins, B.A. 1964, University of California (Berkeley)	Los Angeles, Calif.
George Cooper IV, B.A. 1964, Williams College	Charlottesville, Va.
Lois Jacqueline Copeland, A.B. 1964, Cornell University	Woodcliff Lake, N.J.
Anthony Gaetano Coscia, B.S. 1964, Fordham University	New York, N.Y.
John Thomas Daly, B.S. 1964, Manhattan College	New York, N.Y.
James Henry Dauber, B.E.P. 1964, Cornell University	New York, N.Y.
Steven Allen Dressner, B.A. 1964, Gettysburg College	Great Neck, N.Y.
Enobong Asukwo Ekong, A.B. 1964, Wittenberg University	Uyo, E. Nigeria
Howard Lee Feldman, A.B. 1964, Princeton University	Plainfield, N.J.
John Emerson Feldmann, B.S. 1964, Georgetown University	West Orange, N.J.
Paul Robert Goldstein, A.B. 1964, Cornell University	New York, N.Y.
Edward Leo Goodman, A.B. 1964, Cornell University	Columbus, Ohio

- Jerold Bruce Graff, A.B. 1964, Princeton University
 David Greene, A.B. 1964, Colby College
 Michael Thomas Gyves, B.S. 1964, Fordham University
 James Bradley Haddock, B.S. 1964, Bowdoin College
 Robert Adrian Hands, Jr., A.B. 1964, Dartmouth College
 Terry Wilmot Hensle, B.A. 1964, University of Pennsylvania
 Robert Port Herwick, Jr., A.B. 1964, Cornell University
 Sidney Heumann, A.B. 1964, Columbia University
 Stuart Holden, B.S. 1964, University of Wisconsin
 Alfred Louis Horowitz, A.B. 1964, Dartmouth College
 Creig Simmons Hoyt, B.A. 1964, Amherst College
 Stephen Lee Jaffe, B.A. 1964, Purdue University
 Leland Paul Johnson, B.A. 1964, University of Utah
 Henry Jerrold Kaplan, A.B. 1964, Columbia University
 Robert Mace Kass, B.A. 1964, Kenyon College
 Robert Van Allen Ketchum, A.B. 1964, Cornell University
 Garron Lewis Klepach, B.S. 1963, University of Notre Dame
 William Claude Klingensmith III, A.B. 1964, Cornell University
 James Howard Kocsis, B.A. 1964, Amherst College
 Robert Edmunds Koehler, Jr., B.A. 1964, Johns Hopkins University
 Katherine Stanton Lane, B.A. 1964, Trinity College
 John Walter Larsen, A.B. 1964, Dartmouth College
 Michael Martin Lewis, B.A. 1964, Tufts University
 John Edward Madsen, Jr., A.B. 1964, University of North Carolina
 Robert Steven Marcus, A.B. 1964, Columbia University
 David Peter McCormick, A.B. 1964, Harvard University
 William Scott McDougal, A.B. 1964, Dartmouth College
 John George Meharg, Jr., B.A. 1964, Amherst College
 Ira Mehlman, A.B. 1963, Princeton University
 John Herrick Milhorat, B.S. 1960, Cornell University
 Ruth Dowling Newman, A.B. 1959, Radcliffe College
 Allen Abbe Nimetz, A.B. 1964, Cornell University
 Neil Francis O'Donohue, B.S. 1963, Fordham College
 Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University
 Joan Louise Page, A.B. 1964, Cornell University
 Steve Richard Pieczenik, A.B. 1964, Cornell University
 Ronald Scott Rankin, A.B. 1964, Drew University
 Carl Eric Ravin, A.B. 1964, Cornell University
 Paul Eugene Reading, Jr., A.B. 1964, Cornell University
 Robert William Reidy II, A.B. 1964, Dartmouth College
 John Harger Roediger, B.S.E.E. 1964, Duke University
 John Gerard Rose, B.S. 1964, Fordham University
 Charles David Semel, B.A. 1964, Drew University
 David Hayden Slepian, A.B. 1964, Cornell University
 Ray Merrill Thorpe, A.B. 1964, Stanford University
 John Joseph Vecchione, B.S. 1964, Yale University
 Robert Scofield Walker, A.B. 1964, Cornell University
 Jack Waxman, B.S. 1964, City College of New York
 William Richard White, B.A. 1964, College of the Holy Cross
 Bruce George Wilbur, B.S. 1964, Providence College
 John Buckner Winfield, B.A. 1964, Williams College
 John Charles Wolfe, A.B. 1964, Stanford University
 David Ray Wood, B.S. 1964, University of Utah
 Robert F. Zager, A.B. 1964, Cornell University
 Stephen Arnold Zendel, A.B. 1964, New York University
 Verona, N.J.
 New York, N.Y.
 New York, N.Y.
 Auburn, Maine
 Upper Saddle River, N.J.
 Hackensack, N.J.
 Basking Ridge, N.J.
 Brooklyn, N.Y.
 Freeport, N.Y.
 Chicago, Ill.
 Pittsburgh, Pa.
 Scarsdale, N.Y.
 Salt Lake City, Utah
 New York, N.Y.
 Woodmere, N.Y.
 Forrest Hills, N.Y.
 Detroit, Mich.
 New Kensington, Pa.
 Harwinton, Conn.
 Milwaukee, Wis.
 Westfield, N.J.
 Ridgewood, N.J.
 Great Neck, N.Y.
 Plainfield, N.J.
 New York, N.Y.
 Watertown, N.Y.
 Grand Rapids, Mich.
 Wyomissing, Pa.
 Brooklyn, N.Y.
 Pelham, N.Y.
 New York, N.Y.
 Washington, D.C.
 Brooklyn, N.Y.
 South Orange, N.J.
 Dayton, Ohio
 New York, N.Y.
 Bernardsville, N.J.
 Bethesda, Md.
 Painesville, Ohio
 Albuquerque, N.M.
 Westfield, N.J.
 Valley Stream, N.Y.
 Haskell, N.J.
 Highland Park, Ill.
 Modesto, Calif.
 Sturbridge, Mass.
 Chaplin, Conn.
 Bronx, N.Y.
 Bronxville, N.Y.
 Scarsdale, N.Y.
 Fairfax, Va.
 Arcadia, Calif.
 Idaho Falls, Idaho
 East Patterson, N.J.
 Eastchester, N.Y.

SECOND YEAR

- Saul Joseph Ahola, B.A. 1965, Blackburn College
 Daniel Leon Alkon, B.A. 1965, University of Pennsylvania
 Dayville, Conn.
 Philadelphia, Pa.

Vincent Daniel Anku, B.A. 1965, Grinnell College	New York, N.Y.
George Anthony Arangio, A.B. 1965, Cornell University	Allentown, Pa.
Richard Dante Ariola, B.A. 1965, New York University	Brooklyn, N.Y.
Robert McMath Averill, Jr., B.A. 1965, Cornell University	Fort Lauderdale, Fla.
Ford Ballantyne III, B.A. 1965, Lake Forest College	Grosse Pointe, Mich.
Joseph Anthony Belladonna, Jr., B.S. 1965, Fordham University	Brooklyn, N.Y.
George Peter Bloom, B.S. 1965, Cornell University	Brooklyn, N.Y.
Jeffrey Stephen Borer, B.A. 1965, Harvard University	New York, N.Y.
Thomas Walter Buchholtz, B.A. 1965, Grinnell College	Ames, Iowa
Patrick James Cannon, B.S. 1965, St. John's University	Bronx, N.Y.
Phillip Carter Carling, Jr., B.S. 1965, University of Dayton	Fair Haven, N.J.
Barbara Ann Cox, A.B. 1965, Drew University	Boonton, N.J.
Springer Wynne Cox, A.B. 1965, Cornell University	Connellsville, Pa.
William Howard Davidson, B.A. 1965, Portland State College	Milwaukie, Ore.
Robert Henry Digby, Jr., B.S. 1965, Michigan State University	E. Lansing, Mich.
Edmond Joseph Donnellan, Jr., A.B. 1965, Georgetown University	Garden City, N.Y.
Robert Giles Donovan, B.S. 1965, University of Notre Dame	New York, N.Y.
Nicholas Reed Dunnick, B.S. 1965, Purdue University	Goshen, Ind.
Charles Addison Ellsworth, B.A. 1965, Cornell University	Waterville, N.Y.
James Robert Foster, B.A. 1965, Amherst College	New Canaan, Conn.
Richard Bruce Friedman, A.B. 1965, Princeton University	Great Neck, N.Y.
Steven Glenn Gabbe, B.A. 1965, Princeton University	Millburn, N.J.
Kathleen Agnes Gaffney, B.A. 1965, Cornell University	Highland, N.Y.
John Isaac Gallin, B.A. 1965, Amherst College	New York, N.Y.
Arthur Mayer Gerber, B.M.E. 1959, Cooper Union	Brooklyn, N.Y.
Dale Neta Gortdiener, A.B. 1965, Cornell University	Poughkeepsie, N.Y.
Paul Jacob Grant, A.B. 1965, Columbia University	El Paso, Texas
Marc Alan Grinberg, B.A. 1964, Dartmouth College	Pittsburgh, Pa.
George William Gross, Jr., B.A. 1965, Hamilton College	Westfield, N.J.
David Henry Gunderson, B.S. 1965, Wheaton College	Chicago, Ill.
Richard Jay Haber, A.B. 1965, Columbia University	New York, N.Y.
Nicholas Jackson Hardin, B.A. 1965, Amherst College	Needham, Mass.
Charles DeLisle Hearey, A.B. 1965, Wesleyan University	Oaklyn, N.J.
Douglas Whitmer Hershey, B.A. 1964, Yale	Hershey, Pa.
John Winslow Hirshfield, Jr., B.A. 1965, Cornell University	Ithaca, N.Y.
Jeffrey Theodore Kessler, B.A. 1965, Wesleyan University	Boston, Mass.
Francis Henry Koch, A.B. 1965, Fordham University	Paterson, N.J.
Neil Kraybill Kochenour, B.M.E. 1964, Cornell University	Lancaster, Pa.
Ernest William Lampe II, A.B. 1962, Brown University	Minneapolis, Minn.
Judith Ann Lebowich, A.B. 1965, Bryn Mawr College	Saratoga Springs, N.Y.
Robert Theodore Leshner, A.B. 1965, Cornell University	Brooklyn, N.Y.
Alan Herbert Lockwood, A.B. 1965, Cornell University	Albany, N.Y.
Frederick Peter Loy, B.A. 1965, Rutgers University	Scotch Plains, N.J.
Kathleen Denise Maher, B.S. 1965, St. John's University	Flushing, N.Y.
John Douglas Mann, B.A. 1965, Amherst College	St. Charles, Ill.
Paul Austin McGee, A.B. 1965, St. Peter's College	Jersey City, N.J.
Michael Benjamin McKee, B.A. 1965, Carleton College	Wichita, Kan.
George William Middleton, B.S. 1965, University of Utah	Salt Lake City, Utah
Robert S. Modlinger, B.A. 1965, Columbia University	Brooklyn, N.Y.
Dudley Thomas Moorhead II, A.B. 1965, Stanford University	San Jose, Calif.
Michael Francis Mulroy II, A.B. 1964, Georgetown University	Boca Raton, Fla.
Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota	Minneapolis, Minn.
James Stanley Ogsbury, Jr., B.A. 1965, Dension University	Brewster, N.Y.
Bernard Milton Paladino, A.B. 1965, Cornell University	Mount Pleasant, Pa.
Leighton Brown Parker, Jr., A.B. 1965, Duke University	Manning, S.C.
Grant Van Siclen Parr, A.B. 1965, Wesleyan University	Morristown, N.J.
Kenneth Richard Peelle, B.A. 1965, Cornell University	Rock Stream, N.Y.
Stephen Lawrence Pelton, A.B. 1965, Houghton College	Alden, N.Y.
Lawrence Richard Poliner, B.S. 1965, University of Notre Dame	Albuquerque, N.M.
George Popel, B.S. 1965, Fordham University	New York, N.Y.
William Thomas Riley, Jr., A.B. 1963, Princeton University	Atherton, Calif.

John Albert Rothschild, B.A. 1965, Cornell University	Skokie, Ill.
Elaine Carol Sarkin, A.B. 1965, Cornell University	White Plains, N.Y.
David Louis Schenkar, B.A. 1965, University of Washington	Mercer Island, Wash.
Michael Alan Schwartz, A.B. 1965, Princeton University	New Rochelle, N.Y.
Leroy Ralph Sharer, Jr., A.B. 1965, Cornell University	Mount Carmel, Pa.
Stephen Richard Shaul, A.B. 1965, Dartmouth College	Fair Lawn, N.J.
Edward Allen Sickles, A.B. 1965, Columbia University	New York, N.Y.
Jack William Simon, B.A. 1965, Amherst College	Deal, N.J.
Robert Steven Singer, B.S. 1965, University of Washington	Seattle, Wash.
Elizabeth Sprague, B.A. 1965, Swarthmore College	Lakewood, Ohio
Warren Lee Van Kampen, B.S. 1965, Wheaton College	Wheaton, Ill.
Robert Lynn Warburton, University of Utah	Salt Lake City, Utah
Paul Irving Wassermann, B.A. 1965, Utah State University	Logan, Utah
Richard Dearborn Whiting, B.A. 1965, Boston University	Dover, Mass.
Daniel Turk Williams, B.A. 1965, Columbia University	Kew Gardens, N.Y.
Richard William Wilson, A.B. 1965, Ohio Wesleyan University	Scarsdale, N.Y.
Frederick Floyd Wolfe, B.A. 1965, Columbia University	Mt. Carmel, Pa.
George Frederick Wooten, Jr., B.A. 1965, Rice University	Talladega, Ala.
Charles Victor Wylie, B.S. 1964, University of Utah	Salt Lake City, Utah
James Warren Wynne, B.S. 1965, St Peter's College	Passaic, N.J.
Anthony Paul Zavadi III, B.A. 1965, Cornell University	Bethesda, Md.

FIRST YEAR

Bruce Allan Ackerman, A.B. 1966, Cornell University	Jamaica, N.Y.
Louis Eugene Bartoshesky, A.B. 1966, University of Notre Dame	Wilmington, Del.
Dennis Hawthorne Becker, B.S. 1966, Duke University	Roslyn Heights, N.Y.
Robert Sanford Bennett, A.B. 1964, Dartmouth	Worcester, Mass.
Peter William Blumencranz, B.A. 1966, University of Pennsylvania	Oceanside, N.Y.
James Stephen Borges, B.A. 1966, Drew University	Cranford, N.J.
Robert Lawrence Braham, A.B. 1966, Cornell University	Forest Hills, N.Y.
Richard James Brewer, A.B. 1966, Cornell University	West Hartford, Conn.
Daniel Thomas Broderick III, B.S. 1966, University of Notre Dame	Pittsburgh, Pa.
David Arthur Browne, B.A. 1966, Cornell University	Ithaca, N.Y.
Lawrence Reid Burdge, Jr., B.A. 1964, Duke University	Red Bank, N.J.
Robert Alexander Cerwin, B.S. 1966, St. John's University	Bronx, N.Y.
Cecil Chang, B.A. 1966, Yale University	Hollis, N.Y.
Randolph Seville Charlton, B.A. 1966, Wesleyan University	Wilton, Conn.
Rita May Coleman, B.S. 1966, Marymount College	New York, N.Y.
Robert Howard Condon, B.S. 1966, Bucknell University	Jackson Heights, N.Y.
Patrick Coonan, B.A. 1966, Cornell University	Goldsboro, N.C.
Gerald Joseph Cordani, B.S. 1966, The City College of New York	Bronx, N.Y.
Anthony Ignatius Corvelli, B.S. 1966, Fordham University	Bronx, N.Y.
Ellen Rees De Bell, B.A. 1966, Oberlin College	Rockville Centre, N.Y.
Paul William De Bell, A.B. 1965, Oberlin College	Passaic, N.J.
Thomas Geiger Donovan, B.S. 1966, University of Notre Dame	Maysville Ky.
Lloyd Richard Dropkin, B.S. 1966, Cornell University	Ithaca, N.Y.
Richard Bruce Drucker, B.A. 1966, Colgate University	New York, N.Y.
Robert Forsyth Fallon, Jr., A.B. 1966, Cornell University	East Aurora, N.Y.
William Walter Goodhue, B.S. 1966, Georgetown University	Eleele, Kauai, Hawaii
Robert Dana Gordon, B.A. 1966, Amherst College	Hewlett Harbor, N.Y.
James Glenn Haines, B.A. 1966, Johns Hopkins University	Wyomissing, Pa.
Thomas Shelor Harbin, Jr., B.A. 1966, Vanderbilt University	Rome, Ga.
David Frederick Harris, B.A. 1966, Dartmouth College	Oyster Bay, N.Y.
Peter Bradley Tate Haughton, A.B. 1966, Cornell University	Jamaica, West Indies
Clark Nelson Hopson, A.B. 1966, Brown University	Glen Ridge, N.J.

120 REGISTER OF STUDENTS

- Robert Edwin Ingham, A.B. 1966, University of California (Berkeley) Lafayette, Calif.
- Peter Arthur Jarvis, B.S. 1966, City College of New York New York, N.Y.
- Jeffrey David Jones, B.S. 1966, Utica College Utica, N.Y.
- Richard Clemens Karl, Jr., Cornell University Pelham, N.Y.
- Richard Alan Katz, A.B. 1966, Cornell University Beverly, N.J.
- Kenneth Jay Kessler, B.A. 1966, University of Virginia Lakewood, N.J.
- John Warren Kirk, A.B. 1966, Providence College Oak Park, Ill.
- Howard Henry Kirtland III, B.S. 1966, Georgetown University Poughkeepsie, N.Y.
- Arthur Paul Knauert, A.B. 1966, Columbia University New York, N.Y.
- Kenneth John Kurtz, B.A. 1966, Williams College Pittsburgh, Pa.
- Gregory Michael La Gana, B.S. 1966, St. Peter's College Nutley, N.J.
- Salvatore Anthony J. Latteri, B.S. 1966, St. Michael's College Clifton, N.J.
- David Stephen Lerner, A.B. 1966, Columbia University Brooklyn, N.Y.
- Barry Steven Levy, B.S. 1966, Tufts University Bayonne, N.J.
- Louis Anthony Lobes, Jr., B.S. 1966, College of the Holy Cross Pelham Manor, N.Y.
- Michael Bruce MacQuarrie, A.B. 1966, Dartmouth College Long Beach, Calif.
- Richard Lawrence Mattson, B.A. 1966, Carleton College Wichita, Kan.
- Clifford Ray Miller, B.S. 1966, State University of New York (Buffalo) Tonawanda, N.Y.
- Robert Gordon Miller, B.S. 1963, United States Naval Academy Miramar, Calif.
- Stephen Henry Moore, B.A. 1966, University of Minnesota Richville, Minn.
- Michael James Morris, B.A. 1966, Cornell University Hurley, N.Y.
- Roy Michael Nuzzo, B.A. 1966, Rutgers University Hawthorne, N.J.
- Robert Ernest Prout, B.A. 1966, Cornell University Portland, Conn.
- Robert Michael Quinlan, B.S. 1966, College of the Holy Cross Watertown, Mass.
- Charles David Richards, B.A. 1966, University of Utah Salt Lake City, Utah
- Diane Marie Richters, B.S. 1966, Bucknell University River Edge, N.J.
- Mark Jeffrey Rosenberg, B.A. 1966, Amherst College Maplewood, N.J.
- Roger Michael Rossomondo, B.S. 1966, Providence College Haworth, N.J.
- Robert Joseph Rubin, B.A. 1966, Williams College Brooklyn, N.Y.
- Roy Michael Rubin, B.A. 1966, Dartmouth College Hempstead, N.Y.
- William Atkinson Ruth, B.A. 1966, Yale University Ardsley-on-Hudson, N.Y.
- Jurij Savyckij, B.S. 1966, Utica College Utica, N.Y.
- Edgar Charles Schick, Jr., B.S. 1966, College of the Holy Cross Delmar, N.Y.
- Susan Elizabeth Scholl, B.A. 1966, Grinnell College St. James, Mo.
- Stuart Floyd Seides, Pennsylvania State University Jericho, N.Y.
- Richard Michael Sigel, A.B. 1966, Cornell University New York, N.Y.
- Carol Frances Singer, B.A. 1966, University of Michigan Teaneck, N.J.
- Peter George Sohnle, B.A. 1966, Rutgers University Basking Ridge, N.J.
- Richard Alfred Sperling, B.A. 1966, University of North Carolina North Plainfield, N.J.
- Howard Charles Steier, A.B. 1966, Queens College Douglaston, N.Y.
- Henry Ellis Streitfield, A.B. 1966, Dartmouth College Flushing, N.Y.
- Peter Imre Antal Szilagyi, B.S. 1965, Yale; M.A. 1966, Harvard University Hamden, Conn.
- Michael David Talbot, A.B. 1966, Columbia University New York, N.Y.
- Richard Loren Tax, B.A. 1966, Hofstra University Westbury, N.Y.
- Eric Joseph Thomas, B.S. 1966, Fordham University Bronx, N.Y.
- Eric Neil Thompson, A.B. 1966, Cornell University Poughkeepsie, N.Y.
- Thomas Stone Thornhill, A.B. 1966, Williams College Charleston, W. Va.
- Stephen Ernest Tosi, A.B. 1966, Dartmouth College Shrewsbury, Mass.
- Henry Davis von Oesen, B.S. 1966, Amherst College Wilmington, N.C.
- Steven Edward Vogl, A.B. 1966, Cornell University Brooklyn, N.Y.
- Harold Walker Ward, Jr., B.A. 1966, Lehigh University Glasgow, Ky.
- Frederick Louis Weber, Jr., B.A. 1966, Wesleyan University Syracuse, N.Y.
- George Lewis Wineburgh, B.A. 1966, Cornell University Utica, N.Y.

SUMMARY

Fourth Year	83
Third Year	86
Second Year	84
First Year	84
Total	337

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abel, Donald W.	Surgery	98
Abel, Henrietta E.	Medicine	75
Abel, Robert R.	Medicine	75
Abelson, Charles	Surgery	98
Abrahams, Irving	Microbiology	78
Adelson, Edward T.	Psychiatry	91
Adler, Howard	Medicine	76
Adler, Jonathan	Medicine	76
Advocate, Seymour	Medicine	73
Albrecht, Alberta M.	Sloan-Kettering (Biology)	111
Alexander, Benjamin	Medicine	71
Alderman, Michael H.	Medicine	76
Allen, Fred H.	Pediatrics	85
Allgair, George	Surgery	98
Allgair, Janet	Surgery	98
Almy, Thomas P.	Medicine	71
Alonso, Daniel R.	Pathology	84
Altman, Ina R.	Radiology	94
Amstutz, Harlan	Surgery	97
Anderson, Arthur F.	Pediatrics (Emeritus)	10
Anderson, Arthur A.	Psychiatry	91
Anderson, Gerald A.	Psychiatry	91
Anderson, William A.	Medicine	75
Antoville, Anthony A.	Medicine	73
Apgar, Virginia	Pediatrics	86
Arcila, Heriberto	Physiology	88
Arcuri, Joseph	Psychiatry	91
Arditi, Lucian I.	Medicine	73
Arlen, Myron	Surgery	99
Armistead, George C.	Medicine	73
Armstrong, Donald	Medicine	73
Arnold, William D.	Surgery	96
Aronson, Jason	Psychiatry	90
Artusio, Joseph F., Jr.	Surgery; Obstetrics & Gynecology	96; 80
Asaph, James W.	Surgery	98
Ascheim, Robert S.	Medicine	76
Ashe, Barbara S.	Pediatrics	85
Askari, Amir	Pharmacology	87
Atkinson, Sam C.	Medicine	73
Auerbach, Sumner	Medicine	76
Auld, Peter A. Mcf.	Pediatrics	85
Austen, Burton	Psychiatry	91
Austlid, Olav	Medicine	73
Avnet, Samuel	Surgery	97
Bader, Saul	Anatomy	68
Baer, Ralph A.	Medicine	75
Bahia, Alegria	Surgery	98
Baker, Ralph D.	Psychiatry	91
Baker, William	Medicine	76
Balagura, Sulamita	Physiology	88
Balensweig, Howard D.	Surgery	97
Balis, M. Earl	Sloan-Kettering (Biochemistry)	110
Barandes, Martin	Medicine	76
Baras, Irving	Surgery	96
Barasch, Kenneth R.	Surgery	97
Barber, Hugh R. K.	Obstetrics & Gynecology	81
Barclay, Ralph K.	Sloan-Kettering (Biochemistry)	110
Barile, Raymond G.	Surgery	97

Barnes, Lloyd T.	Medicine	73
Barnes, William A.	Surgery	96
Barondess, Jeremiah A.	Medicine	72
Barr, David P.	Medicine (Emeritus)	10
Barten, Harvey H.	Psychiatry	91
Bashkin, Edmund A.	Psychiatry	91
Basile, Neaf K.	Obstetrics & Gynecology	81
Bass, Richard R.	Pediatrics	85
Bauer, Charles H.	Pediatrics	85
Bauer, Goran C. H.	Surgery	96
Baumgartner, Leona	Pediatrics; Public Health	85; 92
Baxter, James E.	Psychiatry	91
Baylor, Curtis H.	Medicine	73
Bearn, Alexander G.	Medicine	71
Beattie, Edward J.	Surgery	98
Beaver, William T.	Pharmacology	87
Becker, Carl G.	Pathology	84
Becker, David V.	Medicine; Radiology	72; 94
Becker, E. Lovell	Medicine	72
Beckett, Thomas	Psychiatry	91
Beer, William G.	Pathology	84
Behrman, Stanley J.	Surgery	96
Beling, Carl	Obstetrics & Gynecology	81
Bell, Bertrand M.	Medicine	73
Belshaw, Bruce	Medicine	76
Bendich, Aaron	Sloan-Kettering (Biochemistry)	110
Beneventi, Francis A.	Surgery	96
Benjamin, Bry	Medicine	73
Bennett, Dorothea	Anatomy	68
Benua, Richard S.	Medicine	73
Berenberg, Samuel R.	Public Health; Pediatrics	92; 85
Beresford, H. Richard	Medicine	76
Bernstein, Alvin	Psychiatry	90
Bernstein, James S.	Medicine	75
Berntsen, Carl A.	Medicine	73
Bethea, James S.	Surgery	98
Bettigole, Richard E.	Medicine	73
Betz, Barbara J.	Psychiatry	89
Bezan, Allan I.	Pediatrics	86
Biedler, June L.	Sloan-Kettering (Biology)	111
Biel, Leonard, Jr.	Surgery	97
Bienenstock, Harry	Medicine	75
Billo, Otto E.	Pediatrics	85
Binford, Robert T.	Medicine	76
Bippart, Charles H.	Obstetrics & Gynecology	81
Birnbaum, Stanley	Obstetrics & Gynecology	81
Bittencourt, Helito	Medicine	76
Blank, Alan M.	Obstetrics & Gynecology	81
Blitz, Marvin B.	Psychiatry	91
Blum, Morton	Medicine	75
Bodansky, Oscar	Sloan-Kettering (Biochemistry)	110
Bonsnes, Roy W.	Biochemistry; Obs. & Gyn.	70; 80
Booher, Robert J.	Surgery	99
Borenfreund, Ellen	Sloan-Kettering (Biochemistry)	110
Boris, Marvin	Pediatrics	86
Borovac, Dragan	Surgery	97
Borrero, Jaime	Medicine	75
Bortin, Aaron W.	Medicine	75
Boyan, C. Paul	Surgery	99
Boyse, Edward A.	Sloan-Kettering (Biology)	111
Bowden, Lemuel	Surgery	99
Bowles, L. Thompson	Surgery	97
Brachfeld, Norman	Medicine	73

Bradford, Michael J.	Medicine	76
Bragg, David G.	Radiology	94
Branchey, Marc M.	Psychiatry	91
Brander, Jerome H.	Obstetrics & Gynecology	81
Branwood, A. Whitley	Pathology	83
Brasfield, Richard J.	Surgery	99
Braunstein, Paul W.	Surgery	96
Braveman, Warren S.	Medicine	75
Brennan, Robert	Medicine	76
Breslow, Esther	Biochemistry	70
Brethwaite, Samuel H., Jr.	Medicine	75
Brewster, Hollister P.	Medicine	76
Brice, Mitchell II.	Surgery	97
Brilliant, Renee M.	Pediatrics	86
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	81
Brodman, Keeve	Medicine	73
Bronstein, Eugene L.	Radiology	94
Bronzaft, Arline	Psychiatry	91
Brooks, Dana C.	Anatomy	68
Brown, Donald	Surgery	97
Brown, George B.	Sloan-Kettering (Biochemistry)	110
Brown, H. Oliver, Jr.	Medicine	75
Brown, James W.	Psychiatry	91
Brown, John Lyman	Medicine	73
Brown, Veronica	Medicine	73
Browne, Michael	Surgery	97
Browne-Mayers, Albert	Psychiatry	91
Brunschwig, Alexander	Surgery	98
Brush, A. Louise	Psychiatry	91
Bruton, William J.	Surgery	97
Buchanan, J. Robert	Medicine	73
Buchanan, Mary C.	Pediatrics	86
Buchman, Myron I.	Obstetrics & Gynecology	80
Buckley, Jerald D.	Obstetrics & Gynecology	81
Burchenal, Joseph H.	Medicine	71
Burgert, Woodward, Jr.	Pathology	84
Burkhardt, Edward A.	Medicine	73
Burnett, Harry W.	Radiology	94
Burstein, Charles	Surgery	96
Cady, Blake	Surgery	99
Cahan, William G.	Surgery	98
Callahan, Edward W.	Medicine	76
Camarda, Anthony	Surgery	97
Cameron, Donald J.	Medicine	73
Camp, Walter A.	Medicine	75
Campbell, Rolla D., Jr.	Surgery	96
Canale, Virginia C.	Pediatrics	86
Caplan, Robert	Surgery	98
Cappuccino, James G.	Sloan-Kettering (Biology)	111
Carey, Thomas I.	Surgery	97
Carlson, Arthur S.	Pathology	84
Carlson, Eric T.	Psychiatry	89
Caronna, John J.	Medicine	76
Carpenter, Walter T.	Pediatrics	86
Carr, Henry A.	Medicine	72
Carre, Aurelien	Surgery	97
Carruthers, Richard	Medicine	76
Carson, Robert S.	Psychiatry	91
Carver, Susan T.	Medicine	73
Cash, William D.	Biochemistry	70
Caterinicchio, Benedict S.	Pediatrics	86
Catlin, Daniel	Surgery	99
Cattell, McKeen	Pharmacology (Emeritus)	10

Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	110
Cavallino, Robert P.	Radiology	95
Celian, Charles I.	Psychiatry	91
Cerruli, Remo	Psychiatry	91
Chan, Wah-Yip	Biochemistry; Pharmacology	70; 87
Charash, Leon J.	Pediatrics	86
Chaves, Aaron D.	Medicine; Public Health	72; 92
Cho, Fun-Sook	Pathology	84
Christenson, William N.	Medicine	72
Chu, Florence Chien-Hwa	Radiology	94
Church, Edwin E.	Psychiatry	91
Chynn, Kuo York	Radiology	94
Cipollaro, Anthony	Medicine (Emeritus)	10
Cipollaro, Vincent	Medicine	75
Citrin, Gary	Pharmacology	87
Claremont, Hugh E.	Medicine	73
Clark, Donald G. C.	Surgery	99
Clark, Melva A.	Medicine	75
Clarke, Robert L.	Surgery	97
Clarkson, Bayard D.	Medicine	73
Clayson, David M.	Psychiatry	90
Clifford, George O.	Medicine	72
Cliffton, Eugene E.	Surgery	98
Climo, Merrill S.	Surgery	98
Clow, Hollis E.	Psychiatry	90
Coats, Edward C.	Surgery	97
Cobb, John R.	Surgery (Orthopedics)	96
Cobb, Katharine	Pediatrics	86
Cobbs, C. Glenn	Medicine	76
Codington, John F.	Sloan-Kettering (Biochemistry)	110
Cohen, Burton D.	Medicine	75
Cohen, Eugene J.	Medicine	72
Cole, John T.	Obstetrics & Gynecology	81
Colker, Joel	Medicine	76
Collier, Robert	Medicine	75
Colwell, Clifford	Surgery	97
Comancho, Alvaro	Medicine	76
Condouris, George	Public Health	93
Connolly, C. Stephen	Medicine	75
Constantine, Elizabeth F.	Surgery	97
Conway, Herbert	Surgery	96
Coombs, Francis P.	Medicine	75
Cooper, Howard N.	Psychiatry	91
Cooper, William	Surgery (Orthopedics)	96
Corey, Karin R.	Sloan-Kettering (Biophysics)	112
Cornia, Frank E.	Medicine (Dermatology)	71
Cornell, George N.	Surgery	96
Cornwall, Claude	Pathology	84
Cortese, Armand	Surgery	97
Cox, Denton S.	Medicine	73
Cramer, Jean Abel	Medicine	75
Craver, Lloyd F.	Medicine (Emeritus)	10
Crawford, David D., Jr.	Obstetrics & Gynecology	81
Culpert, Charles N.	Obstetrics & Gynecology	81
Cummins, F. Mitchell	Radiology	94
Cupiauoli, Richard A.	Medicine	75
Curi, Joseph F.	Pediatrics	86
Curtis, Gabriel	Surgery	98
Dalldorf, Gilbert	Sloan-Kettering (Biology)	111
Dangelmajer, Rudolph C.	Surgery	97
Daniels, Farrington, Jr.	Medicine (Dermatology)	72
Daniells, Helen E.	Psychiatry	90
Dann, Margaret	Pediatrics	85

126 REGISTER OF COLLEGE AND SLOAN-KETTERING STAFFS

Dargeon, Harold W. K.	Pediatrics (Emeritus)	10
Davidson, Richard A.	Surgery	97
Davis, Carter	Medicine	76
Davis, E. William	Obstetrics & Gynecology	80
Davis, Jeff	Medicine	75
Davis, Marion	Medicine	73
Davis, Milton S.	Medicine	73
Davis, Robert V., Jr.	Surgery	97
De Alvarado, Lois	Psychiatry	91
Deal, C. Pinckney	Medicine	75
Deans, Robert D.	Surgery	97
Deddish, Michael R.	Surgery	98
De Gara, Paul F.	Medicine; Pediatrics	73; 85
De Harven, Etienne	Sloan-Kettering (Biology)	111
Deitrick, John E.	Medicine; Dean	71
Delaney, John R.	Psychiatry	91
De Mayo, Alan P.	Pediatrics	86
De Mura, Hirochi	Medicine	76
De Mura, Reiko	Medicine	76
De Nesnera, Peter	Medicine	75
Denker, Peter G.	Medicine (Neurology)	73
Dennen, Edward H.	Obstetrics & Gynecology (Emeritus)	10
De Oliveira, Antonio P.	Anatomy	68
De Palo, Angelo J.	Surgery	99
Deschner, Eleanor	Medicine; Radiology	76; 94
Deysine, Maximo	Surgery	98
Diacumakos, Elaine G.	Sloan-Kettering (Biology)	111
Diamond, Monroe T.	Medicine	73
Diaz, Robert L.	Surgery	98
Dickerman, Robert W.	Microbiology	78
Diehl, Carolyn H.	Medicine	73
Diethelm, Oskar	Psychiatry (Emeritus)	10
Di Gangi, Mary V.	Psychiatry	91
Di Leo, Joseph H.	Pediatrics	86
Dillon, Thomas F.	Obstetrics & Gynecology	80
Di Mattia, William J.	Surgery	98
Dineen, Peter	Surgery	96
Doherty, John H.	Surgery	96
Dollinger, Malin R.	Medicine	75
Dougherty, John W.	Medicine	72
Dougherty, Joseph C.	Medicine	75
Douglas, R. Gordon	Obstetrics & Gynecology (Emeritus)	10
Downs, Lawrence A.	Psychiatry	91
Doyle, Thomas L., Jr.	Psychiatry	91
Draper, John W.	Surgery (Urology)	96
Drew, J. Edwin	Surgery	96
Dubowitz, Victor	Pediatrics	86
Duley, Wade	Surgery	97
Dunbar, Charles R.	Surgery	97
Dunbar, Howard S.	Surgery	96
Dunkell, Samuel V.	Psychiatry	91
Dunlap, Edward A.	Surgery (Ophthalmology)	96
Dunn, Michael W.	Surgery	98
Dunning, Henry S.	Medicine (Neurology)	71
Durso, John	Obstetrics & Gynecology	81
Du Vigneaud, Vincent	Biochemistry	70
Du Vigneaud, Vincent, Jr.	Obstetrics & Gynecology	81
Dworetzky, Murray	Medicine	72
Dye, Robert E.	Medicine	75
Dymling, John F.	Medicine	76
Eanes, Edward D.	Surgery	96
Easton, J. Donald	Medicine	76
Eaton, Richard G.	Surgery	97

Eckardt, Robert E.	Medicine	73
Eckel, John H.	Surgery	96
Eddy, Harrison P.	Psychiatry	90
Edelman, Martin	Radiology	95
Edelson, Stuart R.	Psychiatry	91
Edwards, Dayton J.	Physiology (Emeritus)	10
Egan, George F.	Surgery	96
Eggleston, Cary	Medicine (Emeritus)	10
Ego-Aguirre, Ernesto	Surgery	99
Ehlers, Kathryn H.	Pediatrics	85
Ehrlich, Alvin N.	Medicine	76
Eichenholtz, Sidney	Surgery	96
Eilers, Elizabeth A.	Medicine	75
Eisenmenger, William	Medicine	73
Ejrup, Borje E. V.	Medicine	72
Engle, Mary Allen	Pediatrics	85
Engle, Ralph L., Jr.	Medicine	72
Epp, Edward R.	Sloan-Kettering (Biophysics)	112
Epstein, Nathan	Pediatrics	85
Epstein, Simon J.	Psychiatry	91
Eras, Philip	Medicine	76
Erlandson, Marion E.	Pediatrics	85
Erlanger, Herbert L.	Surgery	97
Erle, Henry R.	Medicine	73
Eryol, Azak S.	Pathology	84
Esakof, Ernest R.	Medicine	75
Escher, George C.	Medicine	73
Eskes, Philip W. H.	Pediatrics	86
Eskesen, Ralph A.	Medicine	75
Essner, Edward S.	Sloan-Kettering (Biology)	111
Ettinger, Edwin	Medicine	76
Evans, John A.	Radiology	94
Eyster, M. Elaine	Medicine	75
Fadden, Francis J.	Surgery	97
Fahey, Thomas	Medicine	75
Fales, Catherine H.	Psychiatry	90
Faragalla, Farouk F.	Psychiatry	90
Farina, James	Obstetrics & Gynecology	81
Farnsworth, Peter B.	Pediatrics	86
Farr, Hollon	Surgery	97
Farrow, Joseph H.	Surgery	98
Fear, Robert	Obstetrics & Gynecology	81
Feder, Aaron	Medicine	72
Feffer, Paul	Medicine	76
Feingold, Martin L.	Medicine	76
Feldmann, Floyd M.	Public Health	92
Fell, Colin	Physiology	88
Felton, Rosemary B.	Psychiatry	91
Ferguson, G. Renee	Psychiatry	91
Fernandez, Manuel	Surgery	98
Figueiredo, Jose F.	Medicine	75
Fillmore, Sidney	Medicine	76
Finkbeiner, John A.	Medicine	73
Finkle, Theodore H.	Psychiatry	91
Finn, William F.	Obstetrics & Gynecology	81
Firschein, Hilliard E.	Surgery	97
Fish, Irving	Medicine	76
Fisher, Bernard	Psychiatry	90
Fisher, Robert L.	Surgery	97
Fitzgerald, Robert J.	Obstetrics & Gynecology	81
Flach, Frederic F.	Psychiatry	90
Fleetwood, M. Freile	Psychiatry	91
Fleischmann, Edgar P.	Surgery	97

Flynn, John T.	Medicine	73
Flynn, William F.	Surgery	98
Focht, Elizabeth F.	Radiology (Physics)	94
Fogh, Jorgen E.	Sloan-Kettering (Biology)	111
Foley, William T.	Medicine	72
Foote, Frank W., Jr.	Sloan-Kettering (Biology)	111
Forde, Thomas P.	Medicine	76
Forkner, Claude E.	Medicine (Emeritus)	10
Forkner, Claude E., Jr.	Medicine	75
Fortner, Joseph	Surgery	98
Fountain, Gerard	Psychiatry	90
Fox, Jack J.	Sloan-Kettering (Biochemistry)	110
Fox, John L.	Surgery	97
Fracchia, Alfred A.	Surgery	99
Francis, Yvette F.	Pediatrics	86
Franklin, John E.	Pediatrics	85
Fratantoni, Joseph	Medicine	76
Frazell, Edgar L.	Surgery	98
Frederick, William C.	Surgery	97
Freedman, Walter	Obstetrics & Gynecology	81
Freiberger, Robert H.	Radiology	94
Freiman, Alvin H.	Medicine	73
Freyberg, Richard H.	Medicine	72
Freydberg, Nicholas	Psychiatry	91
Fried, Jerrold	Sloan-Kettering (Biophysics)	112
Fried, Robert	Psychiatry	91
Friedman, Lionel O.	Psychiatry	91
Friend, Charlotte	Sloan-Kettering (Biology)	111
Friess, Constance	Medicine	72
Frimpter, George W.	Medicine	72
Fuchs, Fritz F.	Obstetrics & Gynecology	80
Fulmer, David	Medicine	76
Furth, Eugene	Medicine; Radiology	73; 94
Gabel, Milton	Surgery	98
Galin, Miles A.	Surgery	97
Gandy, Hortense	Obstetrics & Gynecology	81
Gardner, Horace T.	Medicine	73
Gardy, Martin	Medicine	73
Gareen, Diane B.	Pediatrics	86
Gaston, Erskin A. II	Surgery	98
Gause, Ralph W.	Obstetrics & Gynecology	80
Geller, William	Medicine	72
Genvert, Harald	Surgery	97
German, James L. III	Anatomy; Pediatrics	68; 85
Gerold, Frank R.	Surgery	99
Gersh, Marvin J.	Pediatrics	85
Gershon, Michael D.	Anatomy	68
Geyer, Duszynska, Irene	Anatomy	68
Ghatan, Djamshid	Surgery	97
Gidynski, Christina B.	Medicine	76
Giebisch, Gerhard	Physiology	88
Gilder, Helena	Biochemistry; Surgery	70; 96
Gill, Fred A.	Medicine	76
Gillette, Ronald W.	Surgery	98
Giner-Sorolla, Alfredo	Sloan-Kettering (Biochemistry)	110
Girotti, Albert	Biochemistry	70
Gittler, Robert D.	Medicine	75
Given, William P.	Obstetrics & Gynecology	80
Glasberg, Herbert M.	Psychiatry	91
Glassman, Oscar	Obstetrics & Gynecology	80
Glenn, Frank	Surgery	96
Glenn, John S.	Surgery	98
Globus, David L.	Medicine	74

Gluck, David	Medicine	75
Glucksman, Myron L.	Psychiatry	91
Glynn, Martin J.	Pediatrics	85
Golbey, Robert B.	Medicine	73
Gold, Harry	Pharmacology (Emeritus)	10
Goldberg, Doris K.	Pediatrics	86
Goldberg, Henry P.	Pediatrics	85
Goldin, Howard	Medicine	75
Goldman, Maurice E.	Medicine	75
Goldsmith, Edward I.	Surgery	96
Goldsmith, Harry S.	Surgery	99
Goldstein, William	Radiology	95
Goldstone, Robert A.	Surgery	97
Golosow, Nikolas	Psychiatry	91
Golubow, Julius	Biochemistry; Pediatrics	70; 85
Gomatos, Peter J.	Sloan-Kettering (Biology)	111
Goodell, Helen	Medicine	76
Goodner, John T.	Surgery	99
Goodyear, Stephen	Psychiatry	90
Gordon, Dan M.	Surgery (Ophthalmology)	96
Gordon, David	Medicine	76
Gordon, Jeffrey	Medicine	76
Gorham, George W.	Medicine	74
Gorham, L. Whittington	Pathology	84
Goss, Mary E. W.	Medicine	74
Gottlieb, Robert	Medicine	76
Goulet, Anita H.	Surgery	97
Goulian, Dicran, Jr.	Surgery	97
Grabstald, Harry	Surgery	99
Grafe, William	Surgery	97
Granda, José L.	Surgery	97
Greeley, Arthur V.	Obstetrics & Gynecology	81
Green, Jack P.	Pharmacology	87
Green, Saul	Sloan-Kettering (Biochemistry)	110
Greenacre, Phyllis	Psychiatry (Emeritus)	10
Greenberg, Ernest	Medicine	74
Greenberg, Sidney M.	Medicine	72
Greif, Roger L.	Physiology	88
Groeschel, August H.	Public Health	92
Grossi, Margaret T.	Pediatrics	85
Grossberg, Sidney E.	Microbiology	78
Grossman, Herman	Pediatrics; Radiology	85; 94
Grufferman, Seymour	Pediatrics	86
Guida, Peter M.	Surgery	97
Guion, Connie M.	Medicine (Emeritus)	10
Guthrie, Keith O., Jr.	Medicine	74
Guthrie, Thomas C.	Medicine	74
Gwynn, Robert E.	Medicine	76
Habte, Demissie	Pediatrics	86
Hadfield, M. Gary	Pathology	84
Hadley, Susan J.	Medicine	74
Hagamen, Wilbur D.	Anatomy	68
Hagstrom, Jack W. C.	Pathology	84
Halsey, Hugh	Obstetrics & Gynecology	81
Halvorson, Edith P.	Pediatrics	86
Hamilton, Charles K.	Surgery	98
Hamilton, Donald	Psychiatry	90
Hamilton, Francis J.	Psychiatry	89
Hamilton, Mary G.	Sloan-Kettering (Biochemistry)	110
Hanley, Marshall J.	Medicine	75
Hanlon, Lawrence W.	Associate Dean	8
Hanson, Maury L.	Surgery	97
Haralambie, James Q.	Pediatrics	85

130 REGISTER OF COLLEGE AND SLOAN-KETTERING STAFFS

Haraway, Andrew W.	Medicine	75
Harpel, Peter C.	Medicine	75
Harper, Thomas S.	Psychiatry	90
Harrar, James A.	Obstetrics & Gynecology (Emeritus)	10
Harrington, Helen	Pediatrics (Emeritus)	10
Harrington, Timothy R.	Surgery	98
Harris, Laurence S.	Surgery	98
Harrold, Charles C., Jr.	Surgery	99
Hatterer, Lawrence J.	Psychiatry	90
Hauptman, Martin A.	Pediatrics	86
Hauser, Edwin T.	Medicine (Emeritus)	10
Hausman, Louis	Medicine (Neurology) (Emeritus)	10
Havran, Robert T.	Biochemistry	70
Hawks, Graham G.	Obstetrics & Gynecology	81
Hayes, Joseph G.	Medicine	76
Hayes, Roslyn	Psychiatry	91
Hays, Myron A.	Obstetrics & Gynecology	81
Heckman, Bernard	Medicine	76
Hedgepeth, Edward McG., Jr.	Surgery	98
Heimoff, Leonard L.	Medicine	74
Heinzen, Bruce	Surgery	97
Helpern, Herman G.	Medicine	75
Helpern, Milton	Medicine; Pathology	74; 83
Hempling, Harold	Physiology	88
Henjyoji, Edward Y.	Surgery	98
Hanley, Thomas F.	Psychiatry	90
Henske, Ulrich K.	Radiology	94
Herbert, Philip S., Jr.	Psychiatry	91
Hermos, John	Medicine	76
Herrmann, Richard	Medicine	74
Hersh, Alexander	Surgery	97
Hertz, Daniel N.	Psychiatry	91
Hertz, Ralph E. L.	Surgery	99
Hilaris, Basil S.	Radiology	94
Hilgartner, Margaret W.	Pediatrics	86
Hinkle, Lawrence E., Jr.	Medicine; Psychiatry	72; 90
Hinsey, Joseph C.	Anatomy	68
Hirose, Tatsuo	Surgery	98
Hirschman, Richard	Medicine	76
Hnat, Richard	Obstetrics & Gynecology	81
Hobby, Gladys L.	Public Health	92
Hobson, Lawrence B.	Medicine	74
Hochman, Raymond B.	Medicine	75
Hochstein, Elliot	Medicine	72
Hoff, Julian T.	Surgery	98
Hoffman, Deitrich	Sloan-Kettering (Biochemistry)	110
Hogben, George	Psychiatry	91
Holleb, Arthur I.	Surgery	99
Hollenberg, Milton	Medicine	74
Holleran, Brent J.	Surgery	98
Holman, Cranston W.	Surgery	96
Holman, James M.	Surgery	97
Holswade, George R.	Surgery	96
Holtz, Helene	Medicine	75
Holzberger, Philip	Medicine	76
Hook, Edward W., Jr.	Medicine	72
Hook, Richard M.	Surgery	98
Horger, Eugene L.	Medicine	74
Horowitz, Herbert I.	Medicine	74
Horsfall, Frank L.	Medicine; Sloan-Kettering (Biology)	72; 111
Horwith, Melvin	Medicine	72
Hoskins, Donald W.	Medicine	74
Hotta, S. Steven	Biochemistry	70

Houde, Raymond W.	Medicine	72
Howe, Suzanne A.	Surgery	98
Howland, William	Surgery	98
Hradsky, Nadine S.	Surgery	98
Hruby, Victor J.	Biochemistry	70
Huang, Chen-Ya	Anatomy	68
Hughes, John E.	Psychiatry	90
Humphreys, Gustavus A.	Surgery (Urology)	97
Huston, Ann	Surgery	98
Hutchison, Dorris J.	Sloan-Kettering (Biology)	111
Hyman, Martin	Medicine	76
Inglis, Allan E.	Surgery	97
Ingram, William T.	Public Health	92
Insall, John W.	Surgery	98
Issacs, Marian	Medicine	74
Isaacs, Norman J.	Medicine	75
Isaacson, Harold S.	Medicine	75
Jackson, Daniel L.	Pediatrics	86
Jacobs, Bernard	Surgery	97
Jacobs, Rita G.	Surgery	99
Jacobson, Abraham S.	Medicine	74
Jacobson, Jerry Hart	Surgery	97
Jahiel, Rene	Public Health	92
Janulis, Peter T.	Psychiatry	90
Jaspin, George	Radiology	94
Jeffries, Graham	Medicine	72
Jernigan, Thomas P.	Medicine	75
Johnson, Brian	Medicine	76
Johnson, Donald G.	Obstetrics & Gynecology	80
Johnson, James	Obstetrics & Gynecology	81
Johnson, O. Adrian	Surgery	97
Johnson, Robert	Medicine	76
Johnson, Warren	Medicine	76
Johnson, William D.	Pathology	84
Jones, Thomas C.	Medicine	75
Jones, Vernon	Physiology	88
Joy, Vincent A.	Medicine	75
Joyner, Edmund N. III	Pediatrics	85
Junker, Barnett J.	Surgery	98
Kammerer, William H.	Medicine	72
Kane, Francis D.	Psychiatry	90
Kanell, Daniel	Obstetrics & Gynecology	81
Kara, Anna	Medicine	74
Karl, Richard C.	Surgery	96
Karmason, Marilyn G.	Psychiatry	91
Karnofsky, David A.	Medicine	72
Karoll, Paul	Obstetrics & Gynecology	81
Kass, Aileen	Surgery	98
Katz, J. Harry	Medicine	74
Kauer, George L.	Medicine	72
Kauer, Joseph T.	Surgery	97
Kaufman, Harold	Psychiatry	91
Kaufman, Richard J.	Medicine	75
Kaye, Donald	Medicine	72
Kaye, Edward	Obstetrics & Gynecology	81
Kazan, Avraam T.	Psychiatry	90
Kean, B. H.	Medicine	72
Keefer, Edward B. C.	Surgery	97
Keeley, Kim A.	Psychiatry	91
Kellner, Aaron	Pathology	83
Kelly, LeMoyne C.	Medicine	74
Keltner, John L.	Medicine	76
Kenny, Peter J.	Sloan-Kettering (Biophysics)	112

132 REGISTER OF COLLEGE AND SLOAN-KETTERING STAFFS

Kent, Ann P.	Public Health	92
Kerr, M. Dorothea	Psychiatry	91
Kessler, Richard	Physiology	88
Keuhnelian, John G.	Surgery	97
Khakoo, Yusuf	Pediatrics	86
Kidd, John G.	Pathology	83
Kilbourne, Edwin D.	Public Health	92
Killip, Thomas III.	Medicine	72
Killoran, Paul J.	Radiology	94
Kim, Jae Ho	Sloan-Kettering (Biophysics)	112
Kimball, Anne C.	Medicine	74
Kimball, John T.	Medicine	75
King, Frank	Surgery	99
Kirkham, Frederick T., Jr.	Medicine	72
Kivelitz, Hans	Surgery	98
Klebanoff, Seymour G.	Psychiatry	90
Klein, Neil	Medicine	76
Klingon, Gerald H.	Medicine	72
Klopper, Arnold I.	Obstetrics & Gynecology	81
Knapp, Robert C.	Obstetrics & Gynecology	81
Knight, Robert G.	Psychiatry	90
Kobayashi, Ronald	Medicine	76
Kohl, Richard N.	Psychiatry	90
Kolodny, Marvin	Medicine	76
Korn, Sam	Psychiatry	91
Korngold, Leonhard	Surgery	96
Koss, Leopold G.	Sloan-Kettering (Biology)	111
Koteen, Herbert	Medicine	74
Kotzen, LeRoy M.	Radiology	95
Koven, Bernard	Medicine	75
Krakoff, Irwin	Medicine	74
Kramer, Elmer E.	Obstetrics & Gynecology	80
Krauss, Alfred N.	Pediatrics	86
Kreek, Mary Jeanne	Medicine	75
Kreis, Willi	Sloan-Kettering (Biochemistry)	110
Kremer, Carl P., Jr.	Pediatrics	86
Kreuz, Leo E.	Psychiatry	91
Krone, Charles	Medicine	76
Kugler, Margaret M.	Pediatrics	85
Kunz, Harold	Surgery	98
Kutner, Leon	Surgery	97
Kutt, Henn	Medicine	74
Lacher, Mortimer	Medicine	75
Ladue, John S.	Medicine	72
Laino, Peter L.	Surgery	98
Lambrew, Costas T.	Medicine	74
LaMonte, Charles S.	Medicine	74
Lampe, Ernest W.	Anatomy (Emeritus)	10
Lance, Eugene M.	Surgery	97
Landesman, Robert	Obstetrics & Gynecology	81
Landis, Bernard	Psychiatry	90
Landolt, Allison B.	Psychiatry	91
Landwehr, Douglas M.	Physiology	88
Langstadt, John R.	Obstetrics & Gynecology	81
Lanzkowsky, Philip	Pediatrics	85
Larson, Martha	Medicine	75
Lattimore, Waymon C.	Medicine	76
Laufer, Ludwig G.	Psychiatry	90
Laughlin, John S.	Sloan-Kettering (Biophysics)	112
Lavengood, Russell W.	Surgery	97
La Venuta, Ferdinand	Surgery	98
Lawrence, Jerome	Surgery	98
Lawrence, Walter E., Jr.	Surgery	98

Leach, Charles N., Jr.	Medicine	75
Leddy, Joseph P.	Surgery	98
Leder, Harold L.	Medicine	74
Ledwith, James W.	Medicine	75
Lee, Burton J. III	Medicine	74
Lee, Duk Ho	Anatomy	68
Lee, James R.	Surgery	98
Lee, John E.	Medicine	75
Lee, Richard E.	Medicine	74
Lee, Sin Hang	Pathology	84
Lee-Huang, Sylvia	Sloan-Kettering (Biochemistry)	110
Leeper, Robert D.	Medicine	74
Lefevre, Andre	Medicine	75
Lehman, Edward W.	Medicine	76
Lese, Leo R.	Medicine	75
Iesneski, Albert C.	Obstetrics & Gynecology	81
Levi, Roberto	Pharmacology	87
Levin, Aaron R.	Pediatrics	85
Levin, Samuel J.	Sloan-Kettering (Biochemistry)	110
Levine, David B.	Surgery	98
Levine, Lenore S.	Pediatrics	86
Levine, Milton J.	Pediatrics	85
Levine, Samuel Z.	Pediatrics (Emeritus)	10
Levitt, Barrie	Pharmacology	87
Levitt, Lawrence	Medicine	76
Levy, Bruce C.	Medicine	75
Lewis, Alfred B., Jr.	Psychiatry	90
Lewis, Charles M.	Medicine	75
Lewis, George	Medicine	76
Lewis, John S.	Surgery	99
Lewis, Myron	Medicine	76
Lewisohn, Marjorie	Medicine	74
Lewy, John E.	Pediatrics; Physiology	86; 88
Ley, Allyn B.	Medicine	72
Lhamon, William T.	Psychiatry	89
Liang, Edward	Psychiatry	90
Lieber, Charles	Medicine	72
Lieberman, Jerrold S.	Medicine	74
Lieberman, Mark A.	Surgery	98
Liebolt, Frederick L.	Surgery (Orthopedics)	96
Liebson, Phillip R.	Medicine	76
Liggett, Byron T.	Medicine	75
Lim, Wan N.	Pediatrics	85
Lincoff, Harvey A.	Surgery	97
Lincoln, Asa L.	Medicine (Emeritus)	10
Linder, Marianna	Medicine	75
Lintz, Robert M.	Medicine	72
Lipkin, Mack	Medicine	72
Lipkin, Martin	Medicine	72
Littell, Andrew H.	Pathology	84
Livingston, Robert	Obstetrics & Gynecology	81
Lloyd, William B.	Medicine	75
Lockshin, Michael	Medicine	76
Loeb, Laurence	Psychiatry	90
Loehr, Walter J.	Surgery	98
Loery, William	Public Health	92
Long, Ruth S.	Surgery	98
Loranger, Armand W.	Psychiatry	90
Loring, Marvin	Radiology	94
Loseke, Lucile	Surgery	99
Louis, Sydney	Medicine	75
Louria, Donald B.	Medicine	72
Lowe, Luther B., Jr.	Medicine	75

Lubash, Glenn D.	Medicine	74
Lucas, John C., Jr.	Surgery	99
Luckey, E. Hugh	Medicine	72
Ludwig, William	Medicine	76
Luger, Morton M.	Medicine	74
Lukas, Daniel S.	Medicine	72
Lulow, William V.	Psychiatry	90
Lum, Lincoln	Radiology	94
Luparello, Thomas J.	Psychiatry	90
Lyon, Mary Lou	Physiology	88
MacDonald, Carlton	Medicine	75
MacFee, William F.	Surgery (Emeritus)	10
Macfarlane, J. Ralph	Surgery	97
MacKay, Donald	Medicine	75
Mackenzie, A. Ranald	Surgery	99
MacLeod, John	Anatomy	68
Macris, Nicholas T.	Medicine	75
Madalinski, Kazimierz	Surgery	98
Magida, Melville G.	Medicine; Pediatrics	74; 86
Magidson, James S.	Pathology; Surgery	84; 97
Maguire, Herbert T.	Pediatrics	86
Mahowald, Theodore A.	Biochemistry	70
Mallen, Stephen	Medicine	76
Mamelok, Alfred E.	Surgery	98
Mandell, Gerald L.	Medicine	76
Mann, Edward C.	Obstetrics & Gynecology	81
Mannix, Henry, Jr.	Surgery	96
Marbury, Benjamin E.	Surgery; Obstetrics & Gynecology	96; 81
Marchand, John F.	Medicine	75
Marchena, Carlos	Medicine	75
Marchisello, Peter J.	Surgery	98
Marciano, Mark R.	Medicine	74
Marcove, Ralph C.	Surgery	97
Marcus, Aaron J.	Medicine	74
Marcus, Cyril	Obstetrics & Gynecology	81
Marcus, Stewart	Obstetrics & Gynecology	81
Markham, Mary H.	Surgery	98
Markham, Sanford	Obstetrics & Gynecology	81
Marquis, James R.	Radiology	95
Marshall, Florence N.	Pediatrics	86
Marshall, Victor F.	Surgery (Urology)	96
Martens, Frederick W.	Obstetrics & Gynecology	81
Martin, Robert S.	Medicine	75
Martinez, Irving	Medicine	76
Mascia, Armond V.	Pediatrics	86
Mason, Joseph B.	Surgery	98
Masterson, James F., Jr.	Psychiatry	90
Mastrovito, Rene C.	Psychiatry	91
Matteucci, Raymond C.	Surgery	98
Mattson, Marlin	Medicine	76
Mayer, Klaus	Medicine	74
Mayer, Victor	Surgery	97
Mazur, Abraham	Medicine	74
McCarthy, Thomas	Radiology	95
McCleary, Paul	Obstetrics & Gynecology	81
McCombs, A. Parks	Medicine	74
McCormack, Richard R.	Medicine	74
McCrary, Wallace W.	Pediatrics	85
McCully, Robert S.	Psychiatry	90
McCune, Robert M., Jr.	Public Health	92
McDermott, Walsh	Public Health	92
McDevitt, Ellen	Medicine	72
McDowell, Fletcher H.	Medicine	72

McGovern, J. Bruce	Surgery	97
McGovern, James	Medicine	74
McGovern, John H.	Surgery	96
McGovern, Robert G.	Pediatrics	86
McGowan, Lillian E.	Psychiatry	91
McGrath, John F.	Psychiatry	91
McGrath, Neva Eileen	Medicine	75
McGuire, Thomas	Radiology	95
McHugh, Paul	Medicine; Psychiatry	74; 90
McIlveen, Marion	Pediatrics	86
McKaba, Donald G.	Medicine	75
McKinley, Robert A.	Psychiatry	90
McKinney, Peter W.	Surgery	97
McKnight, William K.	Psychiatry	90
McLane, Charles M.	Obstetrics & Gynecology	80
McLean, John M.	Surgery (Ophthalmology)	96
McLellan, Frederick C.	Surgery (Urology)	97
McLemore, George A., Jr.	Medicine	74
McNamara, Helen	Pediatrics	86
McNeer, Gordon	Surgery	98
McPeak, Charles J.	Surgery	99
McQuarrie, Irvine G.	Surgery	98
McSherry, Charles K.	Surgery	97
Mead, Allen W.	Medicine	74
Mead, Philip B.	Obstetrics & Gynecology	81
Meikle, Thomas H., Jr.	Anatomy; Psychiatry	68; 90
Melchionna, Robert H.	Medicine	72
Mellors, Robert C.	Pathology	83
Melnick, Robert E.	Obstetrics & Gynecology	81
Merkatz, Irwin	Obstetrics & Gynecology	81
Meyer, James H.	Medicine	76
Michael, Stanley T.	Psychiatry	90
Michaels, Rhoda M.	Medicine	74
Middleton, Richard	Surgery	97
Mihinnick, Brenda	Medicine	76
Miles, Charles P.	Sloan-Kettering (Biology)	111
Milhorat, Ade T.	Medicine (Emeritus)	10
Milhorat, Thomas H.	Surgery	98
Miller, Daniel G.	Medicine	74
Miller, Terry O.	Surgery	98
Miller, Theodore R.	Surgery	99
Minick, C. Richard	Pathology	84
Miscall, Brian G.	Surgery	98
Miscall, Laurence	Surgery	97
Mitty, Virginia C.	Pediatrics	86
Modell, Walter	Pharmacology	87
Molander, David W.	Medicine	75
Monahan, George R.	Surgery	97
Money, William L.	Sloan-Kettering (Biology)	111
Moore, Alice E.	Sloan-Kettering (Biology)	111
Moore, Holland V.	Surgery	98
Moore, James A.	Surgery (Otolaryngology)	96
Moore, Oliver S.	Surgery	99
Moore, S. W.	Surgery	96
Moorhead, Harry H.	Psychiatry	90
Morgenthau, Joan E.	Pediatrics	86
Moriber, Lloyd A.	Surgery	97
Moritz, Timothy	Psychiatry	91
Morrill, Charles V.	Anatomy (Emeritus)	10
Morrison, Myles G., Jr.	Obstetrics & Gynecology	81
Morrissey, Kevin P.	Surgery	98
Moroson, Harold	Sloan-Kettering (Biophysics)	112
Mountain, Isabel	Public Health	92

Mountain, Joseph	Public Health	92
Mouradian, Janet A.	Pathology	84
Muecke, Edward D.	Surgery	97
Mueller, George C.	Surgery	97
Mujahed, Zuheir	Radiology	94
Muller, Walter J. III	Psychiatry	91
Mulziniecke, Helga W.	Medicine	76
Munroe, William G. C.	Medicine	76
Murphy, George E.	Pathology	84
Murphy, John J.	Radiology	95
Murphy, M. Lois	Pediatrics	85
Murphy, Richard	Obstetrics & Gynecology	81
Murphy, Thomas E.	Surgery	99
Murphy, Willis A.	Medicine	75
Muschenheim, Carl	Medicine	72
Myers, W. P. Laird	Medicine	72
Myers, Wayne A.	Psychiatry	91
Nachman, Ralph L.	Medicine	74
Nagel, Theodore	Medicine	76
Nagler, Willibald	Medicine	75
Nathanson, Bernard	Obstetrics & Gynecology	81
Nathanson, Joseph N.	Obstetrics & Gynecology (Emeritus)	10
Nelson, William J.	Surgery	98
Neporant, Lewis	Medicine	75
Neumann, Karl	Pediatrics	86
New, Bertrand L.	Psychiatry	90
New, Maria I.	Pediatrics	86
Nicholas, James A.	Surgery	97
Nickel, William F., Jr.	Surgery	96
Niles, Richard Allen	Obstetrics & Gynecology	81
Nisselbaum, Jerome S.	Sloan-Kettering (Biochemistry)	110
Norman, Douglas R.	Surgery	98
Notterman, Rebecca F.	Pediatrics	86
Noyes, Wilbur F.	Sloan-Kettering (Biology)	111
Nunez, Eladio A.	Medicine; Radiology	76; 94
Nydicke, Irwin	Medicine	74
Nydicke, Martin	Medicine	75
O'Donnell, Elsa, H. J.	Anatomy	68
O'Donohue, Neil	Anatomy	68
Oettgen, Herbert F.	Medicine; Sloan-Kettering (Biology)	75; 111
Ogilvie, John B.	Surgery	98
O'Grady, William P.	Surgery	98
Oizumi, Kotaro	Public Health	92
Okamoto, Michiko	Pharmacology	87
Okinaka, Arthur J.	Surgery	97
O'Leary, William M.	Microbiology	78
Old, Lloyd	Sloan-Kettering (Biology)	111
Oliver, Caldwell H., Jr.	Surgery	98
Oliver, Normand	Medicine	75
Ollstein, Philip	Public Health	92
Olsson, Sten-Erik	Surgery	96
Omura, George A.	Medicine	76
Omura, Martha E.	Medicine	76
O'Neil, Earl A.	Surgery	98
O'Neil, Jane F.	Psychiatry	91
O'Neil, Patricia M.	Surgery	98
Opie, Eugene I.	Pathology (Emeritus)	10
Oppel, Theodore W.	Medicine	72
Oran, Erdogan	Medicine	76
Orandi, Ahmad	Surgery	98
Oskoui, M.	Pharmacology	87
Ottolenghi, Elena	Microbiology	78
Pachter, Maurice	Psychiatry	91

Packert, Richard C.	Radiology	95
Paglia, Michael A.	Surgery	99
Palmieri, Michele	Medicine	76
Pankovich, Arsen M.	Surgery	97
Panter, Gideon G.	Obstetrics & Gynecology	81
Pardue, A. Michael	Surgery	98
Park, Benjamin S., Jr.	Surgery	98
Parsons, Herbert	Surgery	96
Parsons, John M.	Surgery	98
Passarge, Eberhard	Pediatrics	86
Patterson, Robert L.	Surgery (Orthopedics)	96
Patterson, Russel H., Jr.	Surgery	97
Payne, Mary Ann	Medicine	72
Penick, Sydnor	Medicine	75
Peretz, Walter L.	Surgery	98
Perkins, Richard	Medicine	76
Perreault, Jean Paul	Surgery	98
Perrone, Francis S.	Medicine	74
Perry, Herbert S.	Surgery	98
Peter, William J.	Pediatrics	86
Petermann, Mary L.	Sloan-Kettering (Biochemistry)	110
Peters, Ruth D.	Pediatrics	86
Peterson, Hart Decoudres	Pediatrics	86
Peterson, Ralph E.	Medicine	73
Pezzulich, Robert A.	Surgery	98
Phillips, Frederick S.	Sloan-Kettering (Biology)	111
Phillips, Ralph F.	Radiology	94
Phillips, Raymond	Medicine	76
Phillips, Samuel	Radiology	94
Pichler, Andrew G.	Surgery	98
Pickett, Elisabeth P.	Surgery	99
Pierce, Virginia K.	Obstetrics & Gynecology	81
Pilkington, Lou Ann	Physiology	88
Pino, Robert S.	Pediatrics	86
Pinsky, Carl	Medicine	76
Pitkin, Olive E.	Pediatrics	86
Pitts, Robert F.	Physiology	88
Pizzi, Walter F.	Surgery	98
Platt, Melville A.	Obstetrics & Gynecology	81
Plum, Fred	Medicine	72
Poblete, Vincent V.	Obstetrics & Gynecology	81
Pola, Rafael M.	Surgery	98
Poker, Nathan	Radiology	94
Pomeranz, Virginia E.	Pediatrics	86
Pool, J. Lawrence	Surgery	99
Popkin, Arnold B.	Surgery	98
Posner, Aaron S.	Biochemistry	70
Posner, Jerome B.	Medicine	74
Potor, Aurelia	Medicine	76
Poundstone, Robert B.	Psychiatry	91
Powell, James B.	Pathology	84
Pratt, Henry N.	Pediatrics	86
Primack, Marshall	Medicine	76
Pritchett, R. A. Rees	Medicine	73
Prokop, James D.	Surgery	97
Prunier, John H.	Medicine	76
Pullman, Ira	Sloan-Kettering (Biophysics)	112
Quan, Stuart H. Q.	Surgery	99
Queenan, John T.	Obstetrics & Gynecology	81
Quen, Jacques, M.	Psychiatry	90
Quetel, Thomas	Obstetrics & Gynecology	81
Raaschou-Nielsen, Tove	Obstetrics & Gynecology	81
Rachele, Julian R.	Biochemistry	70

Rackow, Leon L.	Psychiatry	90
Radmanesh, Mohammad R.	Surgery	98
Raff, Martin	Medicine	76
Raichle, Marc	Medicine	76
Raines, Arthur	Pharmacology	87
Raksin, Irving J.	Surgery	98
Raleigh, James W.	Medicine	74
Ramsey, Harold E.	Surgery	99
Randall, Henry T.	Surgery	98
Ranzenhofer, Edwin	Psychiatry	91
Rao, B. Sheila	Medicine	76
Rapkin, Richard H.	Pediatrics	86
Ratner, Lynn H.	Medicine	76
Rawson, Rulon W.	Medicine	72
Ray, Bronson S.	Surgery	96
Reader, George G.	Medicine	72
Redo, S. Frank	Surgery	96
Rees, J. Richard	Surgery	98
Reese, Martha K.	Psychiatry	91
Reilly, H. Christine	Sloan-Kettering (Biology)	111
Reiman, Reuben H.	Pediatrics	86
Reis, Donald J.	Medicine	74
Reiss, Sanford M.	Medicine	76
Remler, Anna M.	Psychiatry	91
Ressler, Charles H.	Medicine	76
Reznikoff, Paul	Medicine (Emeritus)	10
Ribble, John C.	Pediatrics	85
Richard, Jack	Medicine	74
Richnak, Louis, Jr.	Psychiatry	91
Richter, Goetz W.	Pathology	84
Riker, Walter F., Jr.	Pharmacology	87
Riley, Edgar A.	Medicine	74
Rimpler, Manfred	Biochemistry	70
Ringland, Joseph E.	Obstetrics & Gynecology	81
Rinzler, Seymour H.	Medicine	74
Risk, Abraham	Obstetrics & Gynecology	81
Rizzo, Peter-Cyrus	Surgery	96
Rizzo, Thomas D.	Surgery	98
Robbins, David B.	Psychiatry	91
Robbins, Guy F.	Surgery	99
Robbins, Philip S.	Psychiatry	91
Robbins, William C.	Medicine	73
Roberts, Thomas N.	Medicine	73
Robertson, Theodore	Pathology	84
Robinson, Theodore	Radiology	94
Robishon, William	Obstetrics & Gynecology	81
Rockwell, Fred V.	Psychiatry	90
Rodi, Michael F.	Surgery	98
Rogoff, Bernard	Medicine	73
Rosenberg, Barbara N.	Sloan-Kettering (Biochemistry)	110
Roseman, David M.	Medicine	73
Rosenfeld, Isadore	Medicine	74
Rosh, Melvin S.	Pediatrics	86
Ross, Albert	Medicine	75
Ross, Dorothy	Psychiatry	91
Ross, Leonard	Anatomy	68
Rothbard, Sydney	Medicine	73
Rothchild, Edmund O.	Medicine	75
Rubenstein, Herbert Y.	Medicine	76
Rubin, Albert	Medicine	73
Rubin, Walter	Medicine	74
Rudd, Emmanuel	Medicine	74
Ruegsegger, Paul	Medicine	74

Ruskin, Richard A.	Obstetrics & Gynecology	81
Ryan, Gail	Surgery	99
Ryan, Gerard F.	Pathology	84
Ryan, Samuel F.	Obstetrics & Gynecology	81
Sackler, Muriel	Anatomy	68
Salser, Josephine	Sloan-Kettering (Biochemistry)	110
Saltzman, Peter R.	Pediatrics	86
Samios, George	Psychiatry	91
Samios, Nicholas	Psychiatry	91
Sande, Merle	Medicine	76
Sanford, Edgar J.	Surgery	98
Santen, Richard J.	Medicine	76
Saville, Paul	Medicine	74
Schaefer, George	Obstetrics & Gynecology	81
Scharer, Lawrence	Medicine	76
Scheiner, Ellen	Medicine	75
Scherer, William F.	Microbiology	78
Scherr, Lawrence	Medicine	73
Scherzer, Alfred L.	Pediatrics	86
Schiavi, Raul	Psychiatry	90
Schick, Robert W.	Surgery	98
Schiebler, John C.	Surgery	98
Schlaepfer, William W.	Pathology	84
Schmidt, John G.	Surgery (Orthopedics)	97
Schneider, George	Medicine	76
Schneider, William J.	Medicine	76
Schoelly, Marie-Louise	Psychiatry	90
Schoenholtz, Jack C.	Psychiatry	91
Schottenfeld, David	Public Health	92
Schubert, Edward T.	Biochemistry; Pediatrics	70; 86
Schulman, Jerome L.	Public Health	92
Schulz, Thomas J.	Surgery	98
Schuyler, Leonard	Medicine	74
Schwartz, Ernest	Medicine	75
Schwartz, Gabriel	Medicine	76
Schwartz, Herbert	Sloan-Kettering (Biology)	111
Schwartz, Jerold	Surgery	98
Schwartz, Melvin S.	Public Health	92
Schwartz, Morton K.	Sloan-Kettering (Biochemistry)	110
Schweizer, Olga	Surgery	99
Scovel, Frederick A.	Medicine	76
Seal, Samuel	Radiology	94
Seed, John C.	Public Health	93
Seed, William T.	Pediatrics	86
Seelye, Edward E.	Psychiatry	91
Segaul, Robert M.	Surgery	98
Seidenstein, Harvey	Medicine	76
Seixas, Frank A.	Medicine	76
Selby, Henry M.	Radiology	94
Seligmann, Arthur W.	Medicine	75
Sengelmann, Robert P.	Surgery	98
Seybolt, John F.	Pathology	84
Shafer, Donald M.	Surgery (Ophthalmology)	97
Shafton, Eugene	Medicine	76
Shagan, Bernard P.	Pediatrics	86
Shah, Ravindra F.	Surgery	98
Shapiro, Arthur	Obstetrics & Gynecology	81
Shapiro, William R.	Medicine	75
Sharp, Vernon III.	Psychiatry	90
Shashaty, George	Medicine	76
Sheard, Charles	Medicine	75
Shepard, Edward M.	Medicine	75
Sherlock, Paul	Medicine	75

140 REGISTER OF COLLEGE AND SLOAN-KETTERING STAFFS

Sherman, Robert S.	Radiology	94
Sherwin, Albert C.	Psychiatry	90
Shibuya, Madoka	Pediatrics	86
Shils, Maurice E.	Medicine	75
Shtacher, Gad	Surgery	98
Shuber, Jack	Obstetrics & Gynecology	81
Sichuk, George	Sloan-Kettering (Biology)	111
Sierp, Michael	Surgery	98
Silagi, Selma	Obstetrics & Gynecology	81
Silver, Richard T.	Medicine	75
Silverman, Frederick	Obstetrics & Gynecology	81
Silverman, Gerald M.	Medicine	75
Simons, Donald J.	Medicine	73
Simpson, Meribeth	Psychiatry	91
Sinclair, Harry A.	Medicine	76
Sirotnak, Francis	Sloan-Kettering (Biology)	111
Skalko, Richard	Anatomy	68
Skelton, Jay B.	Obstetrics & Gynecology	81
Skipski, Vladimir P.	Sloan-Kettering (Biochemistry)	110
Skudder, Paul A.	Surgery	97
Slater, Beatrice S.	Pediatrics	86
Sleisenger, Marvin H.	Medicine	72
Smillie, Wilson G.	Public Health (Emeritus)	10
Smith, Archie L.	Sloan-Kettering (Biochemistry)	110
Smith, Barry	Obstetrics & Gynecology	81
Smith, Barton L.	Medicine	76
Smith, Carl H.	Pediatrics (Emeritus)	10
Smith, David I.	Pediatrics	86
Smith, Edward M.	Radiology	95
Smith, E. Fletcher	Obstetrics & Gynecology	81
Smith, Frank R.	Obstetrics & Gynecology (Emeritus)	10
Smith, James P., Jr.	Medicine	75
Smith, James W.	Surgery	97
Smith, Martha L.	Pediatrics	86
Snart, Alan G.	Medicine	76
Snyder, Ruth E.	Radiology	94
Snyder, Stuart S.	Surgery (Ophthalmology)	97
Snyderman, Reuven K.	Surgery	99
Sobel, Michael V.	Medicine	76
Sohn, Yung Jai	Surgery	98
Solomon, Cyril	Medicine	75
Soloway, Joseph	Pediatrics	86
Sonenberg, Martin	Medicine; Sloan-Kettering (Biochemistry)	73; 110
Song, Chull S.	Medicine	75
Sonkin, Lawrence S.	Medicine	75
Southam, Chester M.	Medicine	73
Spatz, Martin	Surgery	98
Speer, David S.	Surgery	98
Spencer, James H.	Psychiatry	90
Spielman, Aaron D.	Medicine	75
Standaert, Frank G.	Pharmacology	87
Stanton, Edward	Obstetrics & Gynecology	81
Stark, Richard M.	Surgery	98
Stassa, George	Radiology	94
Stauffer, Tom G.	Psychiatry	90
Stearns, Maus W., Jr.	Surgery	99
Steadman, E. Thomas	Obstetrics & Gynecology	81
Stein, Harry	Radiology	94
Stein, Marvin	Psychiatry	89
Steinberg, Herman	Medicine	75
Steinberg, Israel	Medicine; Radiology	72; 94
Steinhart, Michael S.	Psychiatry	91

Stenzel, Kurt	Medicine	75
Stephenson, Phyllis A.	Medicine	76
Stern, Peter	Medicine	75
Sternberg, Stephen S.	Sloan-Kettering (Biology)	111
Stevens, Alexander R.	Surgery (Urology) (Emeritus)	10
Stevenson, Lewis D.	Medicine (Neurology) (Emeritus)	10
Stewart, Fred W.	Sloan-Kettering (Pathology) (Emeritus)	111
Stewart, Harold J.	Medicine (Emeritus)	10
Stillerman, Maxwell	Pediatrics	85
Stinson, Philip M.	Pediatrics (Emeritus)	10
Stinson, Benjamin D.	Anatomy	68
Stock, C. Chester	Sloan-Kettering (Biochemistry)	110
Stockheim, Michael S.	Psychiatry	91
Stokes, Peter E.	Medicine; Psychiatry	73; 90
Stone, Richard W.	Medicine	73
Stone, William	Physiology	88
Storz, William J.	Surgery	98
St. Pierre, Raymond	Surgery	97
Straub, Lee R.	Surgery (Orthopedics)	96
Straub, Leonard R.	Psychiatry	90
Street, Charlotte M.	Pathology	84
Strickler, James C.	Medicine	75
Strong, Elliott W.	Surgery	99
Struthers, Jacqueline J.	Surgery	98
Struve, John F.	Surgery	98
Stubenbord, William D.	Medicine	73
Stubenbord, William T.	Surgery	98
Sugg, John Y.	Microbiology	78
Sullivan, Joseph D.	Psychiatry	90
Susman, David G.	Surgery	98
Sussdorf, Dieter H.	Microbiology	78
Suzuki, Takashi	Surgery	98
Swan, Kenneth G.	Surgery	98
Swan, Roy C.	Anatomy	68
Sweeney, William J.	Obstetrics & Gynecology	81
Swift, Katherine W.	Medicine; Psychiatry	76; 91
Sykes, Marguerite	Medicine	75
Takekoshi, Akemi	Medicine	76
Takashima, Herbert T.	Biochemistry	70
Tan, Charlotte	Pediatrics	86
Tandler, Bernard	Sloan-Kettering (Biology)	111
Tanner, George A.	Physiology	88
Taylor, Neil	Psychiatry	91
Taylor, Irwin S.	Surgery	98
Teller, Morris	Sloan-Kettering (Biology)	111
Temple, Harold L.	Radiology	94
Termine, John D.	Biochemistry	70
Thal, Nathan	Psychiatry	91
Theodor, Emanuel	Medicine	76
Theodor, Rachel	Pediatrics	86
Thibeault, Donald W.	Pediatrics	86
Thompson, David D.	Medicine	72
Thompson, Elizabeth	Anatomy	68
Thompson, T. Campbell	Surgery (Orthopedics)	96
Thorbjarnarson, Bjorn	Surgery	96
Tiedemann, Richard N.	Surgery	98
Timberger, Robert	Medicine	75
Timpanelli, Alphonse E.	Medicine	73
Todd, Jean E.	Pathology; Surgery	84; 96
Todd, Margaret E.	Medicine	76
Tolins, Peter S.	Pediatrics	86
Tollefsen, H. Randall	Surgery	99
Tolstoi, Edward	Medicine (Emeritus)	10

Tomao, Frank A.	Medicine	76
Topkins, Marjorie J.	Obstetrics & Gynecology; Surgery	81; 96
Torack, Richard M.	Pathology	84
Torre, Douglas P.	Medicine	72
Torsney, Jerome M.	Pediatrics	86
Tracy, James R.	Medicine	76
Traube, Sylvia G.	Psychiatry	91
Travis, Lewis	Medicine	76
Tsuchiya, Masahiko	Surgery	98
Tucker, Kenneth F.	Psychiatry	91
Tunner, William S.	Surgery	98
Tutle, Thomas	Medicine	76
Ubogy, George	Medicine	76
Ullmann, Alice	Medicine	76
Urban, Jerome A.	Surgery	99
Usubiaga, Jose	Pharmacology	87
Vadeika, Edward A.	Psychiatry	91
Van Allen, Traer	Psychiatry	91
Vanamee, Parker	Medicine	73
Van Der Decker, John	Medicine	76
Van Nostrand, Leslie	Psychiatry	91
Van Posnak, Alan	Surgery; Obstetrics & Gynecology	96; 81
Veith, Frank J.	Surgery	97
Vitori, Eugene F.	Psychiatry	91
Von Stubbe, William F.	Medicine	76
Vorhaus, Louis J., II	Medicine	75
Wade, Leo	Sloan-Kettering (Biology)	111
Wade, Preston A.	Surgery	96
Wadler, Gary	Medicine	76
Wadsworth, Morton L.	Psychiatry	91
Waldbaum, Robert S.	Surgery	98
Walden, William D.	Obstetrics & Gynecology	81
Wallis, Lila A.	Medicine	75
Wallis, William E.	Medicine	76
Walsh, John H.	Medicine	76
Wanat, Francis	Medicine	76
Wantz, George E.	Surgery	96
Warberg, Bettina	Psychiatry	90
Ward, Joseph N.	Surgery	98
Ware, James R.	Psychiatry	91
Warner, Nathaniel	Psychiatry	90
Warren, Porter H.	Psychiatry	91
Wasterlain, Claude	Medicine	75
Watkins, George M.	Surgery	98
Watson, Carolyn	Pathology	84
Watson, Robert F.	Medicine	72
Watson, Robin C.	Radiology	94
Wayne, Henriette	Psychiatry	90
Weaver, Dean H.	Surgery	97
Webster, Bruce P.	Medicine	72
Weiman, Clinton G.	Medicine	75
Weingram, Judith	Surgery	98
Weinstein, Louis	Psychiatry	91
Weiss, Alvah M.	Pediatrics	86
Weitzman, Elliott	Psychiatry	90
Welch, Livingston	Psychiatry	90
Weld, Francis M.	Medicine	76
Weld, Julia M.	Public Health	92
Wells, Aaron O.	Medicine	75
Werber, Erna	Medicine	76
Werden, Virginia	Obstetrics & Gynecology	81
Werner, Anthony S.	Medicine	75
Werner, Charles A.	Medicine	75

Weser, Elliot	Medicine	75
West, John P.	Surgery	96
Western, Karl	Medicine	76
Wheat, William	Psychiatry	90
White, Henry G.	Surgery	97
White, Stephen	Radiology	94
Whiteley, Horace W., Jr.	Surgery	99
Whitesell, John C. II.	Surgery	97
Whitman, Victor	Pediatrics	86
Whitmore, Willet F., Jr.	Surgery (Urology)	96
Whitney, Alden E.	Psychiatry	91
Widmer, Carlos G.	Pharmacology	87
Wieche, Robert E.	Obstetrics & Gynecology	81
Wieneke, Kuhrt, Jr.	Surgery	98
Wierum, Carl	Medicine	76
Wiggans, Roy G.	Surgery	98
Williams, Byard	Medicine	73
Williams, John R.	Surgery	97
Wilson, Florence A.	Medicine	76
Wilson, May G.	Pediatrics (Emeritus)	10
Wilson, Peter G.	Psychiatry	90
Wilson, Philip D.	Surgery (Orthopedics) (Emeritus)	10
Wilson, Philip D., Jr.	Surgery (Orthopedics)	96
Wilson, Robert L.	Surgery	98
Winauer, Sidney	Medicine	75
Winchester, Patricia	Radiology	95
Windhager, Erich E.	Physiology	88
Winick, Myron	Pediatrics	86
Winston, A. Lee	Medicine	75
Winters, William G.	Medicine	75
Wolfson, Edward A.	Medicine	76
Wolter, Doris W.	Public Health	92
Woodard, Helen Q.	Sloan-Kettering (Biophysics)	112
Woodruff, Jack F.	Public Health	93
Worthington, Edward L.	Medicine	76
Wright, Irving S.	Medicine	72
Wroblewski, Felix	Medicine	73
Wynder, Ernest L.	Sloan-Kettering (Biology)	111
Yadley, Richard A.	Medicine	76
Yamashiro, Donald H.	Biochemistry	70
Yang, Chao S.	Pathology	84
Yapalater, Alvin R.	Psychiatry	90
Yeager, Robert L.	Medicine (Tuberculosis)	76
Yeh, Samuel	Medicine	75
Young, Alexander W., Jr.	Medicine	75
Young, Charles W.	Medicine	75
Young, Lowell Sung Yi	Medicine	76
Young, Robert	Medicine	76
Yu, Peter Wei Ting	Surgery	98
Zahn, F. Darwin	Surgery	98
Zarate, Maria L.	Microbiology	78
Zeitz, Louis	Sloan-Kettering (Biophysics)	112
Zinn, Stephen	Radiology	95
Zipser, Stanley S.	Pediatrics	86
Zisowitz, Milton L.	Medical Writing	66
Zufall, Robert B.	Surgery	98

SUMMARY OF MEDICAL COLLEGE STAFF

Full Professors	78
Associate Professors	167
Assistant Professors	357
Instructors, Assistants, etc.	678
Total	1280

SUMMARY OF SLOAN-KETTERING
DIVISION STAFF

Full Professors	14
Associate Professors	20
Assistant Professors	25
Instructors, Assistants, etc.	8
Total	67

Index

- Administration, Officers of, 8
- Admission to Advanced Standing, 47
- Admission Requirements, 45
- Admission, Applications for, 47
- Alpha Omega Alpha, 63
- Alumni Association, 64
- Anatomy, 68
- Bellevue Hospital, 42
- Bequests, Form for, 7
- Biochemistry, 70
- Biophysics, 88
- Bursary for Women Students, 59
- Calendar, 5
- College Council, 8
- Committees, 8
- Comprehensive Care and Teaching Program, 78
- Educational Politics, 65
- Electives (see lists in each department)
- Emeritus Professors, 10
- Examinations, 48
- Executive Faculty, 8
- Expenses, 51
- Facilities for Instruction, 39
- Faculty (see also Register of Staffs and lists for departments), 10
- Fees, 51
- Fellowships, 66
- Financial Assistance, 53
- Graduation Requirements, 49
- Gynecology, 80
- Health Service, 52
- History of Medical College, 38
- Hospitals Associated with Medical College, 42
- Hospital for Special Surgery, 43
- Instruction, Facilities for, 39
- Instruction, Plan of, 65
- Instruction, Schedule of, 105
- Internship Appointments, 113
- Library, 43
- Loan Funds, 59
- Loomis Laboratory, 43
- Medicine, 71
- Memorial Hospital, 43
- Microbiology, 78
- New York Hospital-Cornell Medical Center, 7, 38
- Obstetrics, 80
- Olin Hall, 52
- Pathology, 83
- Pediatrics, 85
- Pharmacology, 87
- Physiology, 88
- Prizes, 60
- Promotion (Advancement), 48
- Psychiatry, 89
- Public Health, 92
- Radiology, 94
- Register of Staffs, 122
- Register of Students, 114
- Required Hours, Table of, 104
- Residence Halls, 52
- Russell Sage Institute of Pathology, 44
- Schedule of Instruction, 105
- Scholarships, 53
- Sigma Xi, 64
- Sloan-Kettering Division, 109
- Special Students, 103
- Staffs, Register of (see also Faculty and lists for departments), 122
- Students, Register of, 114
- Surgery, 96