



# Cornell University

ANNOUNCEMENTS

## *Medical College*

1968-69

#### CORNELL UNIVERSITY ANNOUNCEMENTS

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Cornell University

*Medical College*

1968-69

1300 York Avenue  
New York, New York 10021  
Telephone: TRafalgar 9-9000



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

1968							1969														
July							January							July							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
	1	2	3	4	5	6					1	2	3	4			1	2	3	4	5
7	8	9	10	11	12	13	5	6	7	8	9	10	11		6	7	8	9	10	11	12
14	15	16	17	18	19	20	12	13	14	15	16	17	18		13	14	15	16	17	18	19
21	22	23	24	25	26	27	19	20	21	22	23	24	25		20	21	22	23	24	25	26
28	29	30	31				26	27	28	29	30	31		27	28	29	30	31			
August							February							August							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
				1	2	3							1						1	2	
4	5	6	7	8	9	10	2	3	4	5	6	7	8		3	4	5	6	7	8	9
11	12	13	14	15	16	17	9	10	11	12	13	14	15		10	11	12	13	14	15	16
18	19	20	21	22	23	24	16	17	18	19	20	21	22		17	18	19	20	21	22	23
25	26	27	28	29	30	31	23	24	25	26	27	28		24	25	26	27	28	29	30	31
September							March							September							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
1	2	3	4	5	6	7							1		1	2	3	4	5	6	
8	9	10	11	12	13	14	2	3	4	5	6	7	8		7	8	9	10	11	12	13
15	16	17	18	19	20	21	9	10	11	12	13	14	15		14	15	16	17	18	19	20
22	23	24	25	26	27	28	16	17	18	19	20	21	22		21	22	23	24	25	26	27
29	30						23	24	25	26	27	28	29		28	29	30				
October							April							October							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
		1	2	3	4	5					1	2	3	4				1	2	3	4
6	7	8	9	10	11	12	6	7	8	9	10	11	12		5	6	7	8	9	10	11
13	14	15	16	17	18	19	13	14	15	16	17	18	19		12	13	14	15	16	17	18
20	21	22	23	24	25	26	20	21	22	23	24	25	26		19	20	21	22	23	24	25
27	28	29	30	31			27	28	29	30					26	27	28	29	30	31	
November							May							November							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
					1	2						1	2	3						1	
3	4	5	6	7	8	9	4	5	6	7	8	9	10		2	3	4	5	6	7	8
10	11	12	13	14	15	16	11	12	13	14	15	16	17		9	10	11	12	13	14	15
17	18	19	20	21	22	23	18	19	20	21	22	23	24		16	17	18	19	20	21	22
24	25	26	27	28	29	30	25	26	27	28	29	30	31		23	24	25	26	27	28	29
December							June							December							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14		7	8	9	10	11	12	13
15	16	17	18	19	20	21	15	16	17	18	19	20	21		14	15	16	17	18	19	20
22	23	24	25	26	27	28	22	23	24	25	26	27	28		21	22	23	24	25	26	27
29	30	31					29	30							28	29	30	31			

# Calendar, 1968-69

## FIRST AND SECOND YEARS

1968

Sept. 6 & 9	Registration
Sept. 9	Opening Exercises, 3:30 P.M.
Sept. 10	Instruction begins, 9 A.M.
Nov. 5	Election Day, holiday
Nov. 22	Fall Term ends, 5 P.M.
Nov. 25-30	Examinations
Nov. 28	Thanksgiving Day, holiday
Dec. 2	Beginning of Winter Term
Dec. 20	Instruction ends, 5 P.M.; Christmas recess begins
Dec. 25	Christmas holiday

1969

Jan. 1	New Year's holiday
Jan. 6	Christmas recess ends; instruction begins, 9 A.M.
Feb. 28	Winter Term ends, 5 P.M.
March 3-8	Examinations for second year
March 3-15	Examinations for first year
March 9-16	Spring recess for second year
March 17	Spring Term begins
April 13-20	Spring recess for first year
May 29	Instruction ends for second year, 5 P.M.
May 30	Memorial Day, holiday
June 2-4	Examinations for second year
June 6	Instruction ends for first year, 5 P.M.
June 9 & 10	Examinations for first year

## THIRD YEAR

1968

Sept. 3	Registration; instruction begins for third year
Oct. 28	First rotation of Section II, Divisions C, D, and E
Nov. 5	Election Day, holiday
Nov. 25	Rotation of Section I, Divisions A and B
Nov. 28	Thanksgiving Day, holiday
Dec. 21, 1 P.M.-	
Jan. 6, 8 A.M.	Christmas vacation

1969

Jan. 6	Second rotation of Section II, Divisions C, D, and E
Feb. 24	Midyear rotation of all divisions of Sections I and II
April 13-20	Spring vacation
April 21	First rotation of Section I, Divisions C, D, and E
May 19	Rotation of Section II, Divisions A and B
May 30	Memorial Day, holiday
June 9	Second rotation of Section I, Divisions C, D, and E
July 4	Independence Day, holiday
August 2	Instruction ends for third year

## FOURTH YEAR

1968

Sept. 3	Registration
Nov. 5	Election Day, holiday
Dec. 21-Jan. 5	Christmas vacation

1969

May 28	Instruction ends
June 3	Commencement, 3 P.M.



# 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 four governors of The Society of The New York Hospital, four representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The President of The New York Hospital-Cornell Medical Center is the chief executive officer of the 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 Griffiths

Kenneth H. Hannan

Francis Kernan

Robert W. Purcell

Frederick K. Trask, Jr.

John Hay Whitney

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 EXECUTIVE FACULTY

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.

## UNIVERSITY ADMINISTRATION

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C. Richard Minick  
Edward T. Schubert  
Dieter H. Sussdorf  
Erich E. Windhager

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David V. Becker  
George B. Brown  
Eric T. Carlson  
Ralph L. Engle, Jr.  
Ruth Kelly

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Julian R. Rachele  
Doris Schwartz  
Pauline Vaillancourt

### PRIZES IN RESEARCH

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Dana C. Brooks  
Edward I. Goldsmith  
George T. Murphy  
Albert Rubin

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Charles H. Bauer  
Graham Jeffries  
Donald G. Johnson  
Edward Y. Liang  
S. W. Moore  
Fred Plum

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Dorothea Bennett

George E. Murphy  
Ralph E. Peterson  
Donald J. Reis  
Albert L. Rubin

### PROMOTION AND GRADUATION

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

### SCHOLARSHIPS

Walter F. Riker, Jr., Chairman  
J. Robert Buchanan  
Roger L. Greif  
Kenneth G. Johnson  
Thomas Killip III  
Richard N. Kohl  
Fred Plum

# FACULTY<sup>1</sup>

## 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>
LEONA BAUMGARTNER, M.D. [1935; 1968]	<i>Clinical Professor of Public Health;</i> <i>Clinical Professor of Pediatrics</i>
ALEXANDER BRUNSCHWIG, M.D. [1947; 1967]	<i>Clinical Professor of Surgery</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> <i>(Dermatology)</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
MARGARET DANN, M.D. [1938; 1967]	<i>Professor of Pediatrics</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</i> <i>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</i> <i>Gynecology</i>
VINCENT du VIGNEAUD, Ph.D. [1938; 1967]	<i>Professor of Biochemistry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CLAUDE E. FORKNER, M.D. [1938; 1966]	<i>Clinical Professor of Medicine</i>
FRANK GLENN, M.D. [1932; 1968]	<i>Professor of Surgery</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor of 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</i> <i>and Gynecology</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>
JOSEPH C. HINSEY, Ph.D. [1936; 1967]	<i>Professor of Neuroanatomy</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>
CHARLES M. McLANE, M.D. [1932; 1968]	<i>Clinical Professor of Obstetrics and</i> <i>Gynecology</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</i> <i>and Gynecology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
RALPH F. PHILLIPS, M.D. [1950; 1968]	<i>Clinical Professor of Radiology</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</i> <i>Gynecology</i>
ISRAEL STEINBERG, M.D. [1940; 1967]	<i>Clinical Professor of Radiology</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery</i> <i>(Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine</i> <i>(Neurology)</i>
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>
T. CAMPBELL THOMPSON, M.D. [1951; 1968]	<i>Clinical Professor of Surgery</i> <i>(Orthopedics)</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
PRESTON A. WADE, M.D. [1927; 1968]	<i>Clinical Professor of Surgery</i>
JAMES H. WALL, M.D. [1933; 1965]	<i>Clinical Professor of Psychiatry</i>
BRUCE P. WEBSTER, M.D.C.M. [1932; 1967]	<i>Clinical Professor of Medicine</i>

<sup>1</sup> 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.



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> ( <i>Orthopedics</i> )
IRVING S. WRIGHT, M.D. [1946; 1967]	<i>Clinical Professor of Medicine</i>

## PROFESSORS

- BENJAMIN ALEXANDER, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]
- JOSEPH F. ARTUSIO, JR., *Professor of Anesthesiology (Chairman)*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- WILLIAM A. BARNES, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1967]
- 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. [1963]
- 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 (Chairman)*. Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966; 1967]
- BARBARA J. BETZ, *Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1931, Mount Holyoke, S.M. 1933, M.D. 1938, Johns Hopkins. [1965; 1968]
- ARTHUR WHITLEY BRANWOOD, *Professor of Pathology*. Attending Pathologist, New York Hospital. M.B. Ch.B. 1942, M.D. 1947, University of Edinburgh. [1963; 1968]
- 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. 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]
- GIULIO J. D'ANGIO, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. A.B. 1943, Columbia; M.D. 1945, Harvard. [1968]
- PAUL F. DE GARA, *Clinical Professor of Pediatrics (Allergy)*. Associate Attending Pediatrician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1967]
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York 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. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
- EDWARD A. DUNLAP, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1944; 1968]
- HENRY S. DUNNING, *Clinical Professor of Neurology*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, (Westchester Division). A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- MURRAY DWORETZKY, *Clinical Professor of Medicine (Allergy)*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]
- JOHN EDWARDS, *Visiting Professor of Genetics in Pediatrics*. Investigator, New York Blood Center. B.A. 1949, M.B. B.Chir., Cambridge; M.R.C.P. 1956, London. [1968]
- JOHN T. ELLIS, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. B.A. 1942, University of Texas; M.D. 1945, Northwestern, [1948; 1968]

## 14 FACULTY

- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- AARON FEDER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1938, Maryland. [1941; 1965]
- 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]
- SANFORD GOLDSTONE, *Professor of Psychology in Psychiatry*. B.S. 1947, C.C.N.Y.; Ph.D. 1953, Duke. [1967]
- ROGER L. GREIF, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- MILTON HELPERN, *Visiting Professor of Pathology*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York 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. 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; 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 S. HOWLAND, *Professor of Anesthesiology*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954; 1968]
- WILLIAM T. INGRAM, *Visiting Professor of 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. 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]
- AARON KELLNER, *Clinical Professor of Pathology*. Attending Pathologist, New York Hospital; Director, New York Blood Center. B.A. 1934, Yeshiva College; M.S. 1936, Columbia; M.D. 1939, University of Chicago. [1946; 1968]
- JOHN G. KIDD, *Professor of Pathology*. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]
- THOMAS KILLIP III, *Roland Harriman Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1968]
- 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]
- MILTON I. LEVINE, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1967]



- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Barklie McKee Henry Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- C. WALTON LILLEHEI, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. B.S. 1939, M.B. 1941, M.D. 1942, M.S. 1951, Ph.D. 1951, University of Minnesota. [1967]
- E. HUGH LUCKEY, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University; Attending Physician, New York Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- BENJAMIN E. MARBURY, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Wathington University. [1948; 1968]
- VICTOR F. MARSHALL, *Professor of Surgery (Urology)*. Attending Surgeon In Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. McCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- FLETCHER H. McDOWELL, *Professor of Neurology*. Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944; Dartmouth; M.D. 1947, Cornell. [1950; 1968]
- ALTON MEISTER, *Israel Rogosin Professor of Biochemistry (Chairman)*. S.B. 1942, Harvard; M.D. 1945, Cornell. [1947; 1967]
- ROBERT C. MELLORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- WALTER MODELL, *Professor of Pharmacology*. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1967]
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- GEORGE E. MURPHY, *Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1968]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- W. P. LAIRD MYERS, *Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1968]
- STEN-ERIK OLSSON, *Professor of Surgery (Comparative Orthopedics)*. D.V.M. 1947, D.Vet.Sci. 1951, Royal Veterinary College, Stockholm; M.D. 1962, Karolinska Institute, Stockholm. [1964]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- RALPH E. PETERSON, *Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1940, M.S. 1941; Kansas State; M.D. 1946, Columbia. [1958; 1968]
- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology (Chairman)*. Neurologist-in-Chief, New York Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- JULIAN R. RACHELE, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York

## 16 FACULTY

- Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- HEONIR ROCHAS, *Visiting Professor of Medicine*. M.D. 1954, University of Bahia, Brazil. [1968]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- WILLIAM N. SCHOENFELD, *Clinical Professor of Psychology in Psychiatry*. B.S. 1937, C.C.N.Y.; A.M. 1939, Ph.D. 1942, Columbia. [1966]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1938, Harvard. [1947; 1958]
- RICHARD M. SILBERSTEIN, *Visiting Professor of Psychiatry*. A.B. 1944, Dartmouth; M.D. 1946, Pittsburgh. [1968]
- J. JAMES SMITH, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1967]
- EUGENE A. STEAD, JR., *Visiting Professor of Medicine*. B.S. 1928, M.D. 1932, Emory. [1968]
- LEE R. STRAUB, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- JOHN Y. SUGG, *Professor of Microbiology*. A.B. 1926, M.S. 1928, Ph.D. 1931, Vanderbilt. [1932; 1964]
- ROY C. SWAN, *Joseph C. Hinsey Professor of Anatomy (Chairman)*. A.B. 1941; M.D. 1947, Cornell. [1948; 1959]
- HAROLD L. TEMPLE, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- DAVID D. THOMPSON, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- BJORN THORBJARNARSON, *Clinical Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1968]
- DOUGLAS P. TORRE, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- ALAN VAN POZNAK, *Clinical Professor of Anesthesiology; Assistant Professor of Pharmacology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1968]
- ROBERT F. WATSON, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- WILLET F. WHITMORE, JR., *Clinical Professor of Surgery (Urology)*. Attending Surgeon, Memorial Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1967]
- OTTO A. WILL, JR., *Clinical Professor of Psychiatry*. B.A. 1933, M.D. 1940, Stanford. [1968]
- PHILIP D. WILSON, JR., *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1968]

## ASSOCIATE PROFESSORS

- FRED H. ALLEN, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- AMIR ASKARI, *Associate Professor of Pharmacology*. B.S. 1953, University of Duquesne; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1967]
- SAM C. ATKINSON, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1967]
- PETER A. McF. AULD, *Associate Professor of Pediatrics*. Associate Attending Physician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1966]

- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- CHARLES H. BAUER, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1949, Columbia; M.D. 1953, Harvard. [1961; 1967]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- E. LOVELL BECKER, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1962]
- DOROTHEA BENNETT, *Associate Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1965]
- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- C. PAUL BOYAN, *Associate Professor of Anesthesiology*. Attending Anesthesiologist, Memorial Hospital. M.D. 1941, State University, Sofia; D.D.S. 1947, University of Graz, Austria. [1954; 1968]
- NORMAN BRACHFELD, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1959; 1968]
- DANA C. BROOKS, *Associate Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1965]
- J. ROBERT BUCHANAN, *Associate Dean; Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1967]
- MYRON I. BUCHMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]
- CHARLES L. BURSTEIN, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- WILLIAM G. CAHAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1966]
- ROLLA D. CAMPBELL, JR., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]
- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- AARON D. CHAVES, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health*. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]
- WILLIAM N. CHRISTENSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- BAYARD D. CLARKSON, *Associate Professor of Medicine*, Associate Attending Physician, Memorial Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1968]
- HARTWIG CLEVE, *Associate Professor of Medicine*. A.B. 1946, Helmstedt, Germany; M.D. 1953, University of Göttingen. [1968]
- GEORGE O. CLIFFORD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]

## 18 FACULTY

- EUGENE E. CLIFFTON, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]
- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- BETTY S. DANES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke; M.A. 1949, University of Texas (Galveston); Ph.D. 1952, State University of Iowa; M.D. 1962, Columbia. [1963; 1967]
- FARRINGTON DANIELS, JR., *Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962]
- HELEN E. DANIELLS, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown University. [1952; 1962]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- JOHN H. ECKEL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- GEORGE F. EGAN, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- WILLIAM J. EISENMENGER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955; 1967]
- BORJE E. EJRP, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute, Stockholm. [1961; 1964]
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959]
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician; Director, Division of Medical Systems and Computer Science, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957]
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]

- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- ALVIN H. FREIMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1967]
- CONSTANCE FRIESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- GEORGE W. FRIMPTER, *Associate Professor of Medicine*. B.A. 1948, Williams; M.D. 1952, Cornell. [1961; 1965]
- DAVID W. FURNAS, *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, New York Hospital. A.B. 1952, M.D. 1955, M.S. 1957, University of California (Berkeley). [1961; 1968]
- HORTENSE M. GANDY, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943, Westchester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1968]
- HENRY GANS, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1955, University of Nymegen, Holland; Ph.D. 1964, Minnesota. [1968]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- JAMES L. GERMAN III, *Clinical Associate Professor of Anatomy; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Investigator, New York Blood Center. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- HELENA GILDER, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- MARTIN J. GLYNN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1968]
- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- EDWARD I. GOLDSMITH, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1966]
- JACK GOLDSTEIN, *Associate Professor of Biochemistry*. Investigator, New York Blood Center. B.A. 1952, Brooklyn; M.N.S. 1957, Ph.D. 1959, Cornell. [1968]
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1948]
- MARY E. W. GOSS, *Associate Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, State University of Iowa; Ph.D. 1959, Columbia. [1959; 1968]
- DIGRAN GOULIAN, JR., *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, New York Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1968]
- HARRY GRABSTALD, *Associate Professor of Surgery (Urology)*. Associate Attending Urologist, Memorial Hospital. B.S. 1944, Southern Methodist; M.D. 1945, Texas. [1959; 1968]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- HERMAN GROSSMAN, *Associate Professor of Pediatrics (Radiology); Associate Professor of Radiology*. Associate Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964; 1968]

## 20 FACULTY

- PETER M. GUIDA, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1968]
- SUSAN J. HADLEY, *Associate Professor of Medicine*, Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1968]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- DONALD M. HAMILTON, *Clinical Associate Professor of Psychiatry*. Assistant Medical Director, New York Hospital (Westchester Division). A.B. 1929, Swarthmore; M.D. 1933, Pennsylvania. [1935; 1966]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- JAMES Q. HARALAMBIE, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1968]
- LAWRENCE J. HATTERER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1968]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- LEONARD L. HEIMOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1934, University of Alabama; M.D. 1939, University of Maryland. [1946; 1968]
- HENRY O. HEINEMANN, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1947, University of Amsterdam. [1968]
- HAROLD G. HEMPLING, *Associate Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine; Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- LAWRENCE B. HOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1967]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITH, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- RAYMOND W. HOUDE, *Associate Professor of Medicine; Associate Professor of Pharmacology*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1967]
- ALLAN E. INGLIS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital. Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1967]
- BERNARD JACOBS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S. 1948, College of Physicians and Surgeons, London. [1961; 1967]
- MYRON S. JACOBS, *Clinical Associate Professor of Anatomy*. B.A. 1945, Pennsylvania; M.S. 1951, Ph.D. 1955, New York University. [1967; 1968]
- ABRAHAM JACOBSON, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1932, M.A. 1933, Columbia; M.D. 1940, New York University. [1955; 1967]
- NORMAN B. JAVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1947, Syracuse; Ph.D. 1951, North Carolina; M.D. 1954, Duke. [1968]
- GRAHAM H. JEFFRIES, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., Ch.B. 1953, University of New Zealand; Ph.D. 1955, Oxford; M.R.C.P. 1957, London. [1964]

- KENNETH G. JOHNSON, *Associate Professor of Public Health*. B.S. 1944, Manhattan; M.D. 1950, State University of New York, New York City. [1967]
- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- WILLIAM H. KAMMERER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. B.S. 1931, M.D. 1935, Indiana. [1941; 1961]
- RICHARD C. KARL, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1942, Columbia; M.D. 1944, Cornell. [1946; 1963]
- GEORGE L. KAUER, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- DONALD KAYE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1953, Yale; M.D. 1957, New York University. [1958; 1966]
- ARI KIEV, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. Associate Attending Psychiatrist, New York Hospital. A.B. 1954, Harvard; M.D. 1958, Cornell. [1967]
- FREDERIC T. KIRKHAM, JR., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- GERALD H. KLINGON, *Clinical Associate Professor of Neurology*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- LEONHARD KORNGOLD, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- HERBERT KOTEEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1967]
- IRWIN H. KRAKOFF, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1943, M.D. 1947, Ohio State. [1956; 1968]
- HENN KUTT, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. M.D. 1950, Frankfurt. [1955; 1968]
- JOHN S. LADUE, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- PHILIP LANZKOWSKY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.B., Ch.B. 1954, M.D. 1959, University of Capetown; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1965; 1967]
- RICHARD E. LEE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1967]
- JOHN L. LEWIS, JR., *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Attending Surgeon and Chief, Gynecology Service, Memorial Hospital. B.A. 1952, M.D. 1957, Harvard. [1968]
- EDWARD Y. LIANG, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S. 1952, George Washington; M.D. 1956, Harvard. [1963; 1967]
- FREDERICK L. LIEBOLT, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; ScD., 1937, Columbia. [1939; 1946]
- MACK LIPKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1963; 1964]
- MARTIN LIPKIN, *Associate Professor of Medicine*. A.B. 1946, M.D. 1950, New York University. [1955; 1963]

## 22 FACULTY

- EDWARD J. LORENZE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1946, New York University. [1953; 1967]
- DONALD B. LOURIA, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1949, M.D. 1953, Harvard. [1954; 1964]
- DANIEL S. LUKAS, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- JOHN MACLEOD, *Associate Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1949]
- HENRY MANNIX, JR., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1965]
- AARON JACOB MARCUS, *Associate Professor of Medicine*. B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1967]
- STEWART L. MARCUS, *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1961; 1967]
- FLORENCE MARSHALL, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1968]
- JAMES F. MASTERSON, JR., *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson Medical College. [1953; 1965]
- KLAUS MAYER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groningen. [1958; 1968]
- RICHARD R. McCORMACK, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1937, Columbia; M.D. 1941, Cornell. [1943; 1968]
- ROBERT S. McCULLY, *Associate Professor of Psychology in Psychiatry*. A.B. 1947, M.A. 1948, Washington University; Ph.D. 1961, Columbia. [1956; 1966]
- ELLEN McDEVITT, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- ROBERT W. McDEVITT, *Associate Professor of Pathology; Associate Professor of Pathology in Surgery*. Associate Attending Pathologist, New York Hospital; Assistant Attending Pathologist, Memorial Hospital. A.B. 1952, Harvard; M.D. 1956, Yale. [1967]
- JOHN H. McGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- ROBERT G. McGOVERN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1968]
- PAUL R. McHUGH, *Associate Professor of Neurology in Psychiatry; Associate Professor of Neurology*. Associate Attending Psychiatrist; Associate Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964; 1968]
- ALAN A. McLEAN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1948, Long Island College of Medicine. [1954; 1968]
- THOMAS H. MEIKLE, JR., *Associate Professor of Anatomy; Associate Professor of Neuroanatomy in Psychiatry*. A.B. 1951, M.D. 1954, Cornell. [1961; 1966]
- THEODORE R. MILLER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1965]
- LAURENCE MISCALL, *Clinical Associate Professor of Surgery*. A.B. 1926, M.D. 1930, Cornell. [1942; 1967]
- VIRGINIA C. MITTY, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1941, Mount St. Vincent; M.D. 1946, New York University. [1956; 1968]
- ZUHEIR MUJAHED, *Clinical Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University Beirut School of Medicine. [1955; 1968]



- M. LOIS MURPHY, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1960]
- RALPH L. NACHMAN, *Associate Professor of Medicine*. Associate Attending Physician; Director, Division of Hematology, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1968]
- BERTRAND L. NEW, *Clinical Associate Professor of Psychiatry; Clinical Associate Professor of Psychiatry in Pediatrics*. Associate Attending Psychiatrist. Assistant Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1966; 1967]
- MARIA I. NEW, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1968]
- JAMES A. NICHOLAS, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958; 1967]
- WILLIAM F. NICKEL, JR., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- ARTHUR J. OKINAKA, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, University of Chicago. [1956; 1968]
- WILLIAM M. O'LEARY, *Associate Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959; 1965]
- THEODORE W. OPPEL, *Clinical Associate Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1926, M.A. 1927, Wisconsin; M.D. 1929, Pennsylvania. [1932; 1951]
- HERBERT PARSONS, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954]
- RUSSEL H. PATTERSON, JR., *Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1955; (Brooklyn). [1960; 1968]
- MARY ANN PAYNE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]
- MELVILLE A. PLATT, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, University of Western Ontario. [1956; 1968]
- NATHAN POKER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn; M.D. 1950, Columbia. [1953; 1968]
- JOHN L. POOL, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948; 1968]
- AARON S. POSNER, *Associate Professor of Ultrastructural Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963]
- JEROME B. POSNER, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963; 1967]
- DOUGLAS G. POTTS, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.Sc., Canterbury University College, New Zealand; M.B., Ch.B. 1951, University of Otago, New Zealand; M.D. 1960, New Zealand. [1967]
- ALFRED M. PRINCE, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1949, Yale; M.A. 1951, Columbia; M.D. 1955, Western Reserve. [1966]
- R. A. REES PRITCHETT, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- LEON C. RACKOW, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. FRANK REDO, *Clinical Associate Professor of Surgery; Clinical Associate Professor of Pediatrics (Surgery)*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1967]

## 24 FACULTY

- DONALD J. REIS, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1953; M.D. 1956, Cornell. [1963; 1967]
- CHARLOTTE RESSLER, *Associate Professor of Biochemistry*. B.A. 1944, N.Y.U.; M.A. 1946, Ph.D. 1949, Columbia. [1949; 1968]
- JOHN C. RIBBLE, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1955, Texas. [1959; 1966]
- WILLIAMS C. ROBBINS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963]
- THOMAS N. ROBERTS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1966]
- BERNARD ROGOFF, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1955; 1966]
- DAVID M. ROSEMAN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1947, M.D. 1951, Johns Hopkins. [1952; 1966]
- LEONARD ROSS, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- SIDNEY ROTHBARD, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951]
- ALBERT L. RUBIN, *Associate Professor of Surgery in Biochemistry*. Associate Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1959]
- RICHARD A. RUSKIN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1940, M.D. 1943, Duke. [1952; 1967]
- SAMUEL F. RYAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O., Dublin University. [1957; 1968]
- LEE SALK, *Clinical Associate Professor of Psychology in Pediatrics*. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, Ph.D. 1954, University of Michigan. [1966; 1968]
- CHARLES A. SANTOS-BUCH, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1953, Harvard; M.D. 1957, Cornell. [1958; 1968]
- PAUL D. SAVILLE, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.B., B.S. 1949, St. George's Hospital Medical College, London. [1959; 1967]
- BRIJ SAXENA, *Associate Professor of Biochemistry in Medicine*. Ph.D. 1954, University of Lucknow, India; Dr.rer.nat. 1957, University of Muenster, West Germany; Ph.D. 1961, Wisconsin. [1966]
- GEORGE SCHAEFER, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
- LAWRENCE SCHERR, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1966]
- JEROME L. SCHULMAN, *Associate Professor of Public Health*. A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1967]
- OLGA SCHWEIZER, *Associate Professor of Anesthesiology*. Attending Anesthesiologist, Memorial Hospital. B.A. 1932, Barnard; M.D. 1937, Columbia. [1954; 1968]
- ARTHUR W. SELIGMANN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1961; 1967]
- JOHN F. SEYBOLT, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963]
- ARTHUR K. SHAPIRO, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S.S. 1951, C.C.N.Y.; M.D. 1955, Chicago. [1966]
- PAUL SHERLOCK, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1967]

- ALBERT C. SHERWIN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1942, M.D. 1947, Columbia. [1950; 1964]
- MAURICE SHILS, *Associate Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962; 1967]
- RICHARD T. SILVER, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1967]
- DONALD J. SIMONS, *Clinical Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1927, Brown; M.D. 1931, Harvard. [1939; 1948]
- JULIO L. SIRIIN, *Associate Professor of Anatomy*. D.Sc. 1953, University of Buenos Aires, Argentina. [1967]
- PAUL A. SKUDDER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1958; 1967]
- REUVEN K. SNYDERMAN, *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1954; 1968]
- LESLIE H. SOBIN, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1955, Union; M.D. 1959, State University of New York (Brooklyn). [1960; 1968]
- CYRIL SOLOMON, *Clinical Associate Professor of Pathology in Medicine*. B.S. 1932, M.D. 1936, Maryland. [1965; 1967]
- MARTIN SONENBERG, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957]
- LAWRENCE S. SONKIN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1951; 1968]
- CHESTER M. SOUTHAM, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958]
- HERMAN STEINBERG, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1967]
- MAXWELL STILLERMAN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1932, Long Island College of Medicine. [1948; 1962]
- PETER E. STOKES, *Associate Professor of Medicine in Psychiatry; Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1967]
- RICHARD W. STONE, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1943, M.D. 1945, Wisconsin. [1957; 1966]
- WILLIAM D. STUBENBORD, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1932; 1966]
- WILLIAM J. SWEENEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942, Maryville College; M.D. 1949, Cornell. [1950; 1960]
- HOWARD J. TATUM, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Ph.D. 1941, M.D. 1943, Wisconsin. [1968]
- ALPHONSE E. TIMPANELLI, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953]
- MARJORIE J. TOPKINS, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1964]
- JEROME A. URBAN, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1952; 1968]
- PARKER VANAMEE, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961]
- GEORGE E. WANTZ, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. [1950; 1961]

## 26 FACULTY

- NATHANIEL WARNER, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1930, M.B.A. 1932, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1967]
- ELLIOTT L. WEITZMAN, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1943, Johns Hopkins; M.D. 1946, Maryland. [1964]
- LIVINGSTON WELCH, *Associate Professor of Psychology in Psychiatry*. A.B. 1931, M.A. 1932, Ph.D. 1935, Columbia. [1947; 1952]
- JOHN P. WEST, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1927, Alabama Polytechnic Institute; M.D. 1932, Cornell. [1938; 1954]
- JOHN C. WHITSELL II, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1968]
- BYARD WILLIAMS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division. A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953]
- ERICH H. WINDHAGER, *Associate Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1966]
- MYRON WINICK, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York (Brooklyn). [1958; 1968]
- KENNETH R. WOODS, *Associate Professor of Biochemistry*. B.A. 1948, Arizona State; Ph.D. 1955, Minnesota. [1956; 1968]

## ASSISTANT PROFESSORS

- ROBERT R. ABEL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Princeton; M.D. 1956, Cornell. [1957; 1967]
- SEYMOUR ADVOCATE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1937, Brooklyn College; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1963]
- INA R. ALTMAN, *Assistant Professor of Radiology*. B.S. 1956, Brooklyn; M.D. 1960, Women's Medical College, Philadelphia. [1965; 1967]
- HARLAN C. AMSTUTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1952, M.D. 1956, U.C.L.A. [1964; 1967]
- ARTHUR A. ANDERSON, JR., *Clinical Assistant Professor of Psychiatry*. B.S. 1949, M.D. 1954, University of Washington (Seattle). [1955; 1967]
- WILLIAM A. ANDERSON, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1942, Tuskegee Institute; M.D. 1953, University of Michigan. [1957; 1968]
- ANTHONY ANTOVILLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1926, M.D. 1929, Cornell. [1933; 1964]
- LUCIEN I. ARDITI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1950, Louisiana State University; M.D. 1954, Washington University. [1955; 1965]
- GEORGE C. ARMISTEAD, JR., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]
- DONALD ARMSTRONG, *Assistant Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- WILLIAM DAVID ARNOLD, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1965]
- JASON ARONSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, B.S. 1950, M.D. 1953, Minnesota. [1965]

- BARBARA S. ASHE, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- SULAMITA BALAGURA, *Assistant Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1965]
- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Columbia. [1954; 1962]
- LLOYD T. BARNES, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1963]
- EDMUND A. BASHKIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1951, Chicago; M.D. 1957, New York University. [1965; 1967]
- RICHARD R. BASS, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962]
- CURTIS H. BAYLOR, *Clinical Assistant Professor of Medicine*. B.S. 1929, Emory and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955]
- WILLIAM T. BEAVER, *Assistant Professor of Pharmacology*. Clinical Assistant Physician, Memorial Hospital. M.D. 1958, Cornell. [1961; 1966]
- CARL G. BECKER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- THOMAS BECKETT, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1949, Yale; M.A. 1951, Columbia; Ph.D. 1958, Adelphi. [1960; 1968]
- STANLEY J. BEHRMAN, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1945, Pittsburgh. [1948; 1953]
- CARL BELING, *Assistant Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute, Stockholm. [1965; 1966]
- FRANCIS A. BENEVENTI, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]
- BRY BENJAMIN, *Clinical Assistant Professor of Medicine*. B.S. 1945, Yale; M.D. 1947, Harvard. [1954; 1964]
- RICHARD M. BERGLAND, *Assistant Professor of Surgery (Neurosurgery)*. B.S. 1954, Wheaton; M.D. 1958, Cornell. [1962; 1967]
- CARL A. BERTSEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- RICHARD E. BETTIGOLE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. B.A. 1953, Yale; M.D. 1957, Columbia. [1964; 1966]
- HARRY BIENENSTOCK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Yeshiva; M.D. 1957, Chicago. [1960; 1968]
- OTTO E. BILLO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- ROBERT T. BINFORD, JR., *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Vanderbilt; D.M.D. 1955, M.S. 1959, Alabama; M.D. 1963, Cornell. [1965; 1967]
- STANLEY J. BIRNBAUM, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- SHELDON BLACKMAN, *Clinical Assistant Professor of Psychology in Psychiatry*. A.B. 1956, Princeton; M.A. 1958, Ph.D. 1960, Ohio State. [1968]
- JACK H. BLOCH, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1952, M.D. 1957, U.C.L.A.; Ph.D. 1967, Minnesota. [1968]
- RAYMOND C. BONNABEAU, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1955, Fordham; M.D. 1959, S.U.N.Y. (Brooklyn); Ph.D. 1967, Minnesota. [1968]

- ROBERT J. BOOHER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton University. [1954; 1956]
- IEMUEL BOWDEN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1936, M.D. 1939, Harvard. [1961; 1965]
- DAVID G. BRAGG, *Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1955, Stanford; M.D. Oregon. [1966]
- RICHARD D. BRASFIELD, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1942, M.D. 1944, Vanderbilt. [1953; 1966]
- ROBERT G. BRAYTON, *Assistant Professor of Medicine*. B.A. 1954, Williams; M.D. 1958, Cornell. [1961; 1968]
- PAUL W. BRAUNSTEIN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957]
- ESTHER M. BRESLOW, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955; Ph.D. 1959, New York University. [1961; 1964]
- ALFRED BROCKUNIER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962]
- KEEVE BRODMAN, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- JOHN L. BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1965]
- STUART I. BROWN, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.S.M. 1955, M.D. 1957, Illinois. [1966]
- VERONICA BROWN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, Cornell; M.A. 1926, Columbia; M.D. 1934, Cornell. [1953; 1964]
- ALBERT N. BROWNE-MAYERS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1933, Wisconsin; M.D. 1937, Columbia. [1949; 1967]
- MARY C. BUCHANAN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.B., Ch.B., B.Sc., 1946, University of Edinburgh; D.C.H. 1952, University of London. [1959; 1968]
- EDWARD A. BURKHARDT, JR., *Clinical Assistant Professor of Medicine*. B.A. 1925, M.A. 1926, Missouri; M.D. 1928, Harvard. [1932; 1964]
- HECTOR M. CABOT, *Assistant Professor of Physiology in Obstetrics and Gynecology*. Provisional Obstetrician and Gynecologist, New York Hospital. B.S. 1947, M.D. 1966, Ministry of Public Education, University of Montevideo, Uruguay. [1967]
- DONALD J. CAMERON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Amherst; M.D. 1955, Cornell. [1961; 1965]
- WALTER CAMP, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1953, Arkansas; M.D. 1957, Emory. [1965; 1968]
- WALTER T. CARPENTER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1934, Williams; M.D. 1938, Cornell. [1943; 1968]
- SUSAN T. CARVER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963]
- BENEDICT S. CATERINICCHIO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Johns Hopkins; M.D. 1958, New York. [1959; 1968]
- DANIEL CATLIN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- LEON CHARASH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1947, M.D. 1950, Cornell. [1957; 1968]
- FLORENCE CHIEN-HWA CHU, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956]
- KUO YORK CHYNN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]

- HUGH E. CLAREMONT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B.B.S. 1944, M.D. 1951, University of London; M.S. 1958, Colorado. [1958; 1966]
- DONALD G. C. CLARK, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.Sc. 1940, M.B., Ch.B. 1944, St. Andrews University, Scotland; M.D. 1945, Yale. [1951; 1967]
- MELVA A. CLARK, *Clinical Assistant Professor of Medicine*. A.B. 1935, Wellesley; M.D. 1939, Cornell. [1952; 1967]
- M. DAVID CLAYSON, *Assistant Professor of Psychology in Psychiatry*. B.S. 1956, Utah; A.M. 1960, George Washington University; Ph.D. 1963, Washington University. [1963; 1966]
- MARGARET H. S. CLEMENTS, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1951, M.B., B.Ch., B.A.O. 1956, Dublin University, Ireland. [1966; 1967]
- IRA B. COHEN, *Clinical Assistant Professor of Medicine*. A.B. 1941, M.D. 1945, New York University. [1967]
- JOHN T. COLE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954]
- C. STEPHEN CONNOLLY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1955, Fordham; M.D. 1959, Cornell. [1960; 1968]
- FRANCIS P. COOMBS, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1937, Colgate; M.D. 1940, Cornell. [1963; 1968]
- GEORGE N. CORNELL, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1958]
- DENTON S. COX, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale; M.D. 1952, Columbia. [1953; 1965]
- JEAN A. CRAMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1950, Cornell. [1951; 1967]
- F. MITCHELL CUMMINS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- TAPOSH KUMAR DAS GUPTA, *Assistant Professor of Surgery*. Clinical Assistant Surgeon, Memorial Hospital. I.Sc. 1948, M.B., B.S., R.Kar Medical College, Calcutta; Ph.D. 1967, London University. [1960; 1968]
- MARION DAVIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1942, Wyoming; M.D. 1946, University of Rochester. [1951; 1965]
- MICHAEL D. F. DECK, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.B.B.S. 1961, University of Sydney, M.C.R.A. 1965, College of Radiologists of Australia; F.F.R. 1967, Royal College of Surgeons, London. [1968]
- ALAN DEMAYO, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1949, University of Michigan; M.D. 1953, Albany. [1959; 1968]
- ELEANOR E. DESCHNER, *Assistant Professor of Radiology (Radiobiology); Assistant Professor of Radiobiology in Medicine*. B.A. 1949, Notre Dame of Staten Island; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1968]
- MONROE T. DIAMOND, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale; M.D. 1942, Virginia. [1944; 1965]
- ROBERT W. DICKERMAN, *Assistant Professor of Microbiology*. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962; 1965]
- CAROLYN H. DIEHL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1946, M.D. 1950, Cornell. [1952; 1966]
- JOHN H. DOHERTY, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]

## 30 FACULTY

- ROBERT E. ECKHARDT, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S. 1939, Ph.D. 1940, M.D. 1943, Western Reserve. [1948; 1966]
- HARRISON P. EDDY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1942, Williams; M.D. 1945, Columbia. [1965]
- KATHRYN H. EHLERS, *Assistant Professor of Pediatrics*. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1966]
- SIDNEY N. EICHENHOLTZ, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- ELIZABETH A. EILERS, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1954, Radcliffe; M.D. 1958, Harvard. [1964; 1967]
- HERBERT L. ERLANGER, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- HENRY R. ERLE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1963]
- GEORGE C. ESCHER, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1933, Columbia; M.D. 1937, Long Island College of Medicine. [1952; 1959]
- RALPH A. ESKESEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Drew; M.D. 1943, Johns Hopkins. [1952; 1968]
- RICHARD G. EVANS, *Assistant Professor of Radiology (Physics)*. B.Sc. 1956, University of Wales; M.S. 1966, Ph.D. 1968, U.C.L.A. [1968]
- M. ELAINE EYSTER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Duke. [1961; 1967]
- THOMAS J. FAHEY, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1955, Fordham; M.D. 1959, Cornell. [1965; 1967]
- HOLLON W. FARR, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital; Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1953]
- COLIN FELL, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- JOHN A. FINKBEINER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- HILLIARD E. FIRSCHEIN, *Assistant Professor of Biochemistry in Surgery*. B.S. 1948, Ohio State University; M.S. 1950, Wisconsin; Ph.D. 1958, Rochester. [1964]
- BERNARD FISHER, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, New York University. [1965]
- RICHARD J. FLEMING, *Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1952, Boston College; M.D. 1956, Tufts. [1966]
- JOHN T. FLYNN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1964]
- ELIZABETH F. FOCHT, *Assistant Professor of Radiology (Physics)*. Attending Radiation Physicist, New York Hospital; Consulting Associate Physicist, Memorial Hospital. A.B. 1935, Barnard; M.A. 1962, Ph.D. 1964, Columbia. [1947; 1961]
- GERARD FOUNTAIN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1939, M.D. 1943, Yale. [1958; 1966]
- WALTER FREEDMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, De Pauw; M.D. 1954, Cornell. [1960; 1965]
- NICHOLAS FREYDBERG, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1927, Pennsylvania; Ph.D. 1963, New York University. [1963; 1967]
- LIONEL O. FRIEDMAN, *Clinical Assistant Professor of Psychiatry*. B.A. 1952, New York University; M.D. 1956, State University of New York, New York City. [1967]
- HORACE T. GARDNER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]



- MARTIN GARDY, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, C.C.N.Y.; M.D. 1960, Cornell. [1963; 1966]
- HAROLD GENVERT, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950]
- MICHAEL D. GERSHON, *Assistant Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1966]
- DAVID L. GLOBUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1954, Washington University. [1958; 1966]
- MYRON L. GLUCKSMAN, *Clinical Assistant Professor of Psychiatry*. M.D. 1959, Wisconsin. [1960; 1967]
- ROBERT B. GOLBEY, *Clinical Assistant Professor of Medicine*. B.S. 1943, Bethany; M.D. 1949, New York University. [1961]
- DORIS K. GOLDBERG, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Vassar; M.D. 1957, N.Y.U. [1959; 1968]
- HARRY S. GOLDSMITH, *Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. A.B. 1952, Dartmouth; M.D. 1956, Boston University. [1963; 1967]
- STEPHEN GOODYEAR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1938, Harvard; M.D. 1943, Columbia. [1948; 1965]
- GEORGE W. GORHAM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1964]
- ANITA H. GOULET, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, Hospital for Special Surgery. B.A. 1948, Hunter; M.D. 1952, N.Y.U. [1953; 1968]
- WILLIAM R. GRAFE, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1951, Harvard; M.D. 1955, New York University. [1956; 1966]
- JOSE L. GRANDA, *Assistant Professor of Biochemistry in Surgery (Orthopedics)*. M.D. 1956, University of Madrid; Ph.D. 1963, University of Maryland. [1966]
- GEORGE F. GRAY, JR., *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1956, Texas; M.D., M.S. 1961, Baylor. [1968]
- NELSON M. GRAY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.Sc., M.D.C.M. 1932, M.Sc., 1934, McGill University. [1968]
- ERNEST GREENBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- AUGUST H. GROESCHEL, *Assistant Professor of Public Health*. Associate Director, New York Hospital. A.B. 1927, Holy Cross College; M.D. 1931, M.S. 1947, Columbia. [1954; 1962]
- MARGARET T. GROSSI, *Clinical Assistant Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1964]
- KEITH O. GUTHRIE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1964]
- THOMAS C. GUTHRIE, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1960]
- JOHANNA P. HAGEDOORN, *Assistant Professor of Anatomy*. B.S. 1958, Columbia; Ph.D. 1965, Yeshiva. [1968]
- PETER C. HARPEL, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Harvard. [1963; 1968]
- THOMAS S. HARPER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1937, California Technological Institute; M.D. 1942, Colorado. [1966]
- IRVING B. HARRISON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Cornell. [1968]

- RUDY H. HASCHEMEYER, *Assistant Professor of Biochemistry*. B.A. 1952, Carthage College; Ph.D. 1957, Illinois. [1967]
- PETER HATHAWAY, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1953, Harvard; M.D. 1960, Albany. [1966]
- ARTHUR H. HAYES, JR., *Assistant Professor of Medicine; Assistant Professor of Pharmacology*, Assistant Attending Physician, New York Hospital. A.B. 1955, University of Santa Clara; M.A. 1957, Oxford University, England; M.D. 1964, Cornell. [1965; 1968]
- MARGARET C. HEAGARTY, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1957, Seton Hill; B.S. 1959, West Virginia; M.D. 1961, Pennsylvania. [1968]
- THOMAS F. HENLEY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1936, North Carolina; M.D. 1938, Harvard. [1943; 1966]
- PHILIP S. HERBERT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1947, M.D. 1951, Cornell. [1952; 1968]
- RICHARD HERRMANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1965]
- ALEXANDER HERSH, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]
- NORMAN L. HIGINBOTHAM, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D.C.M. 1926, McGill. [1940; 1950]
- BASIL S. HILARIS, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1955, University of Athens. [1965; 1966]
- MARGARET W. HILGARTNER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1946, Bryn Mawr; M.A. 1952, M.D. 1955, Duke. [1956; 1967]
- RAYMOND B. HOCHMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Yale; M.D. 1956, Harvard. [1957; 1967]
- JAMES M. HOLMAN, *Clinical Assistant Professor of Surgery (Otolaryngology)*, Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1955]
- SEYMOUR HOPFAN, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1939, M.D. 1948, Royal College of Edinburgh, Scotland. [1966]
- EUGENE L. HORGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- HERBERT I. HOROWITZ, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- DONALD W. HOSKINS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell. [1960; 1965]
- S. STEVEN HOTTA, *Assistant Professor of Biochemistry*. A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961]
- GUSTAVUS A. HUMPHREYS, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946]
- JAMES R. HURLEY, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Cornell. [1963; 1968]
- MARTIN D. HYMAN, *Assistant Professor of Sociology in Medicine*. A.B. 1955, Princeton; M.A. 1958, Ph.D. 1964, Columbia. [1965; 1967]
- MARIAN ISAACS, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1948, M.D. 1951, Colorado. [1961; 1966]
- NORMAN J. ISAACS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, M.A. 1950, New York University; M.D. 1954, New York Medical College. [1959; 1967]
- RITA G. JACOBS, *Assistant Professor of Anesthesiology*. Associate Attending Anesthesiologist, Memorial Hospital. B.A. 1947, N.Y.U.; M.D. 1951, Woman's Medical College of Pennsylvania. [1959; 1968]

- JERRY HART JACOBSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. B.A. 1944, M.D. 1947, New York University. [1955; 1963]
- PETER T. JANULIS, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1948, M.D. 1951, Cornell. [1955; 1965]
- BRIAN E. JOHNSON, *Assistant Professor of Physiology in Medicine*. B.Sc. 1958, Ph.D. 1965, University of London. [1965; 1967]
- A. BRADFORD JUDD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1950, Cornell; M.D. 1954, Harvard. [1967]
- FRANCIS KANE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1940, University of Buffalo. [1946; 1966]
- ANNA KARA, *Assistant Professor of Medicine (Physical Medicine)*. M.D. 1948, University of Montreal. [1957; 1964]
- MARILYN G. KARMASON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Barnard; M.D. 1953, Harvard. [1956; 1967]
- J. HARRY KATZ, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1964]
- JOSEPH T. KAUER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953]
- AVRAAM T. KAZAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1934, Princeton; M.D. 1938, Columbia. [1965]
- EDWARD B. C. KEEFER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1939, M.D.C.M. 1943, McGill. [1946; 1955]
- LEMOYNE C. KELLY, *Clinical Assistant Professor of Medicine*. A.B. 1924, University of Rochester; M.D. 1929, Cornell. [1935; 1953]
- ANN P. KENT, *Clinical Assistant Professor of Public Health*. A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954]
- M. DOROTHEA KERR, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1944, Ohio State; M.D. 1950, Columbia. [1952; 1968]
- JOHN G. KEUHNELIAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon, New York Hospital. A.B. 1947, Princeton; M.D. 1951, Pennsylvania. [1955; 1966]
- PAUL JOSEPH KILLORAN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1950, Harvard; M.D. 1954, Boston. [1962; 1964]
- ANNE C. KIMBALL, *Assistant Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, Pennsylvania. [1963; 1964]
- JOHN T. KIMBALL, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital, B.A. 1956, Arizona; M.D. 1960, Colorado. [1961; 1967]
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950]
- EDWARD M. KLINE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1930, Washington and Jefferson; M.D. 1934, Western Reserve. [1966]
- ROBERT C. KNAPP, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Columbia; M.D. 1953, State University of New York, Brooklyn. [1958; 1963]
- ROBERT G. KNIGHT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1943, Harvard; M.D. 1947, Cornell. [1965]
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]
- LEON KUTNER, *Assistant Professor of Microbiology*. B.A. 1949, Temple; M.S. 1950, Ph.D. 1953, Pennsylvania State University; M.D. 1963, Pennsylvania. [1964]

- MORTIMER J. LACHER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1951, Syracuse; M.D. 1955, Chicago. [1961; 1968]
- COSTAS T. LAMBREW, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Wesleyan University; M.D. 1957, Cornell. [1958; 1964]
- CHARLES S. LA MONTE, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1956, M.D. 1960, Harvard. [1961; 1966]
- EUGENE M. LANCE, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1954, M.D. 1958, Cornell. [1959; 1967]
- BERNARD LANDIS, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Syracuse; M.A. 1959, Ph.D. 1963, New School for Social Research. [1963; 1966]
- ALLISON B. LANDOLT, *Clinical Assistant Professor of Psychiatry*. A.B. 1941, Princeton; M.D. 1944, Columbia. [1947; 1967]
- LUDWIG G. LAUFER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1948, Cornell. [1961; 1965]
- RUSSEL W. LAVENGOD, JR., *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1964]
- HAROLD L. LEDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1935, M.D. 1939, New York University. [1950; 1966]
- BURTON J. LEE III, *Clinical Assistant Professor of Medicine*. B.A. 1952, Yale; M.D. 1956, Columbia. [1962; 1965]
- JOHN E. LEE, *Clinical Assistant Professor of Anatomy; Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. A.B. 1954, Princeton; M.D. 1958, Duke. [1963; 1967]
- ROBERT E. LEE, *Clinical Assistant Professor of Medicine in Psychiatry*. Consultant in Medicine, New York Hospital (Westchester Division). A.B. 1948, Colgate; M.D. 1952, Cornell. [1955; 1966]
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. B.S. 1949, Idaho; M.D. 1953, Columbia. [1962]
- LEO R. LESE, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1951, N.Y.U.; M.D. 1955, New York State University. [1958; 1968]
- ROBERTO LEVI, *Assistant Professor of Pharmacology*. M.D. 1960, University of Florence. [1966]
- AARON R. LEVIN, *Assistant Professor of Pediatrics*. B.Sc. 1948, M.B. B.Ch. 1953, Witwatersrand; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1966]
- DAVID B. LEVINE, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon, (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. 1954, Dartmouth; M.D. 1957, State University of New York, Syracuse. [1961; 1967]
- LENORE S. LEVINE, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Vassar; M.D. 1958, N.Y.U. [1960; 1968]
- BARRIE LEVITT, *Assistant Professor of Pharmacology*. M.D. 1959, State University of New York, Brooklyn. [1964; 1967]
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962]
- JOHN SIDNEY LEWIS, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. M.D. 1943, University of Alberta. [1952; 1964]
- MARJORIE LEWISOHN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, Michigan; M.D. 1944, Johns Hopkins. [1947; 1966]
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1943, M.D. 1946, Cornell. [1951; 1960]
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1945, National Shanghai Medical College. [1953; 1959]

- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960]
- LARS LINDBERG, *Visiting Assistant Professor of Surgery (Orthopedics)*. Department of Surgery, Hospital for Special Surgery. M.L. 1957, Karolinska Institute, Stockholm; M.D. 1967, University of Lund, Stockholm. [1968]
- LAURENCE LOEB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1949, University of Cincinnati; M.D. 1953, State University of New York, Brooklyn. [1965]
- ARMAND W. LORANGER, *Assistant Professor of Psychology in Psychiatry*. B.A. 1952, St. Mary's; M.A. 1955, Ph.D. 1958, Fordham. [1965; 1967]
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955]
- LUTHER B. LOWE, JR., *Assistant Professor of Medicine; Assistant Professor of Pediatrics (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1958, Roanoke; M.D. 1962, Cornell. [1963; 1967]
- NORTON M. LUGER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963]
- WILLIAM V. LULOW, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1933, Yale; M.D. 1937, Tufts. [1952; 1964]
- DONALD W. R. MACKENZIE, *Assistant Professor of Microbiology*. B.Sc. 1953, Ph.D. 1958, Edinburgh University, Scotland. [1967]
- NICHOLAS T. MACRIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Columbia; M.D. 1958, State University of New York, Brooklyn. [1963; 1967]
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961]
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962]
- MARK R. MARCIANO, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Columbia; M.D. 1954, Syracuse. [1959; 1966]
- CYRIL C. MARCUS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1958; 1965]
- FREDERIC W. MARTENS, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.E. 1949, Stevens Institute; M.D. 1957, Cornell. [1960; 1965]
- RENE C. MASTROVITO, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Cornell; M.Sc. 1951, Ohio State; M.D. 1957, Baylor. [1958; 1968]
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958]
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949]
- JOHN P. McCANN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1949, Marquette; M.P.H. 1955, Harvard. [1968]
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955]
- JAMES F. McGOVERN, *Clinical Assistant Professor of Medicine*. A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962]
- LILLIAN E. McGOWAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1929, Hunter; M.D. 1933, N.Y.U. [1937; 1968]
- MARION McILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958]

- ROBERT A. McKINLEY, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1947, Lehigh; M.D. 1951, Jefferson. [1965]
- WILLIAM K. McKNIGHT, *Clinical Assistant Professor of Psychiatry*. B.S. 1934, M.D. 1935, University of Pittsburgh. [1941; 1965]
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948]
- GEORGE McLEMORE, JR., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Cert. Med. 1946, North Carolina; M.D. 1948, Harvard. [1956; 1964]
- CHARLES J. McPEAK, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1941, M.D. 1944, Temple University. [1953; 1966]
- CHARLES K. McSHERRY, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1953, Fordham; M.D. 1957, Cornell. [1958; 1966]
- ALLEN W. MEAD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1949, Davidson; M.D. 1953, Cornell. [1960; 1965]
- MICHAEL MERBAUM, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1956, Drake; M.A. 1957, University of Missouri (Kansas City); Ph.D. 1961, North Carolina. [1968]
- 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; 1967]
- 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]
- DAVID W. MOLANDER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S., M.D. 1946, Minnesota. [1951; 1967]
- GEORGE R. MONAHAN, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. B.S. 1950, Villanova; M.D. 1957, New York Medical College. [1960; 1966]
- ROBERT MONES, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1949, Indiana; M.D. 1953, N.Y.U. [1968]
- HARRY H. MOORHEAD, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1950, University of Louisville. [1966]
- EDWARD CARL MUECKE, *Clinical Assistant Professor of Surgery (Urology)*. A.B. 1953, Reed College; M.D. 1957, Cornell. [1960; 1967]
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1961]
- WILLIBALD NAGLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1958, University of Vienna. [1963; 1967]
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill. [1957; 1962]
- KARL NEUMANN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Syracuse; M.D. 1958, S.U.N.Y. (Brooklyn). [1962; 1968]
- MYRON P. NOBLER, *Clinical Assistant Professor of Radiology*. B.A. 1953, M.D. 1957, New York University. [1966; 1967]
- REBECCA F. NOTTERMAN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. R.N. 1945, B.S. 1948, M.D. 1952, N.Y.U. [1954; 1968]

- ELADIO A. NUNEZ, *Assistant Professor of Radiology*. B.S. 1951, M.S. 1953, St. John's; Ph.D. 1964, N.Y.U. [1964; 1968]
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1945, M.D. 1958, Columbia. [1953; 1960]
- ELSA O'DONNELL-ALVELDA, *Assistant Professor of Anatomy*. M.S. 1951, D.Sc. 1956, University of Buenos Aires. [1964; 1966]
- HERBERT F. OETTGEN, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1951, Cologne University Medical School, Germany. [1958; 1967]
- MICHIKO OKAMOTO, *Assistant Professor of Pharmacology*. B.S. 1954; Tokyo College of Pharmacy; M.D. 1957, Purdue; Ph.D. 1964, Cornell. [1964; 1967]
- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. M.D. 1927, Long Island College of Medicine. [1944; 1950]
- JANE F. O'NEIL, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1932, Cornell; M.D. 1936, Rochester. [1942; 1968]
- ELENA I. R. OTTOLENGHI, *Assistant Professor of Microbiology*. A.B. 1954, Barnard; Ph.D. 1961, Rockefeller Institute; M.D. 1964, New York University. [1965]
- GIDEON G. PANTER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1956, M.D. 1960, Cornell. [1965; 1968]
- WALTER L. PERETZ, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.A. 1947, Princeton; M.D. 1952, Cornell. [1955; 1967]
- FRANCIS S. PERRONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1950, Cornell. [1956; 1964]
- HART DEC. PETERSON, *Assistant Professor of Pediatrics (Neurology)*; *Assistant Professor of Neurology*. Assistant Attending Pediatrician; Assistant Attending Neurologist, New York Hospital. A.B. 1954, Middlebury; M.D. 1958, Boston University. [1963; 1966]
- LOU ANN PILKINGTON, *Assistant Professor of Physiology*. M.S. 1959, Ph.D. 1961, University of Oklahoma. [1963; 1967]
- EDWARD L. PINNEY, JR., *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1947, West Virginia School of Medicine; A.B. 1949, Princeton; M.D. 1949, Washington University (St. Louis). [1968]
- OLIVE E. PITKIN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1943, Bennington; M.D. 1947, Yale. [1968]
- VIRGINIA POMERANZ, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1945, University of Michigan; M.D. 1949, S.U.N.Y. (Brooklyn). [1956; 1968]
- RAYMOND A. POPE, *Assistant Professor of Radiology (Physics)*. Assistant Attending Physicist, Memorial Hospital. Ph.D. 1965, Cambridge University. [1968]
- JOHN H. PRUNIER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Colgate; M.D. 1956, Cornell. [1957; 1967]
- 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]
- ARTHUR RAINES, *Assistant Professor of Pharmacology*. B.S. 1957, Fordham; M.D. 1960, Columbia; Ph.D. 1965, Cornell. [1966; 1968]
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. 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. 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]

- 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]
- PLINIO ROSSI, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1952, University of Rome. [1965; 1967]
- EDMUND O. ROTHCHILD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1953, N.Y.U.; M.D. 1957, Cornell. [1961; 1968]
- WALTER RUBIN, *Assistant Professor of Medicine; Assistant Professor of Anatomy*. 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 RUEGSEGGGER, *Clinical Assistant Professor of Medicine*. M.D. 1946, University of Zurich. [1961; 1962]
- JAMES W. RYAN, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, Dartmouth; M.D. 1961, Cornell; Ph.D. 1967, Oxford. [1968]
- MURIEL SACKLER, *Assistant Professor of Anatomy*. B.A. 1939, Brooklyn College; M.S. 1945, M.I.T.; Ph.D. 1963, Columbia. [1963; 1966]
- SIRGAY SANGER, *Clinical Assistant Professor of Psychiatry; Assistant Professor of Pediatrics (Psychiatry)*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1956, M.D. 1960, Harvard. [1967]
- ALFRED L. SCHERZER, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, 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]
- MARIE-LOUISE SCHOELLY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- DAVID SCHOTTENFELD, *Assistant Professor of Public Health*. A.B. 1952, Hamilton; M.D. 1956, Cornell; M.S. 1963, Harvard. [1957; 1967]
- EDWARD T. SCHUBERT, *Assistant Professor of Biochemistry in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1960; 1965]
- LEONARD SCHUYLER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1945, A.M. 1950, M.D. 1951, Columbia. [1958; 1963]
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- WILLIAM SEED, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Williams; M.D. 1962, Cornell. [1966; 1968]
- EDWARD E. SEELYE, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1948, Columbia; M.D. 1955, Albany. [1958; 1968]
- FRANK A. SEIXAS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Cornell; M.A. 1947, M.D. 1951, Columbia. [1955; 1968]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- MICHAEL A. SELZER, *Clinical Assistant Professor of Psychiatry; Clinical Assistant Professor of Pediatrics*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, Stanford; M.D. 1960, Western Reserve. [1966; 1967]
- 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]



- 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]
- MADOKA SHIBUYA, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1962; 1966]
- SELMA SILAGI, *Assistant Professor of Genetics in Obstetrics and Gynecology*. A.B. 1936, Hunter; A.M. 1938, Ph.D. 1961, Columbia. [1965; 1966]
- FREDERICK SILVERMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Emory; M.D. 1953, Indiana. [1957; 1968]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- HARRY A. SINCLAIRE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, Amherst; M.D. 1946, Cornell. [1949; 1968]
- DAVID I. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. 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]
- GERARD P. SMITH, *Assistant Professor of Physiology in Psychiatry*. Assistant Attending Physiologist, New York Hospital (Westchester Division). B.S. 1956, St. Joseph's; M.D. 1960, Pennsylvania. [1961; 1968]
- JAMES P. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, M.D. 1960, Georgetown. [1961; 1967]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- JOHN K. SMITH, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1957, M.D. 1960, Cornell. [1961; 1968]
- 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]
- DAVID E. SOBEL, *Clinical Assistant Professor of Psychiatry in Medicine; Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, North Carolina; M.D. 1953, Cornell. [1966]
- 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]
- GEORGE STASSA, *Assistant Professor of Anatomy; Assistant Professor of Radiology*. A.B. 1956, M.D. 1960, Columbia. [1964; 1967]
- 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]
- E. THOMAS STEADMAN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1950, M.A. 1953, Amherst; M.D. 1957, Cornell. [1958; 1968]
- 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, *Clinical 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; 1967]

## 40 FACULTY

- KURT H. STENZEL, *Assistant Professor of Surgery in Biochemistry*. 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]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949, 1964]
- GEORGE STRICKER, *Clinical Assistant Professor of Psychology in Psychiatry*. A.B. 1956, Chicago; Ph.D. 1960, Rochester. [1968]
- ELLIOT W. STRONG, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.S. 1952, M.D. 1956, Tufts. [1959; 1967]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DAVID SUSMAN, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. M.D. 1952, Queen's University, Ontario. [1963; 1968]
- 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, Husnan, China. [1954; 1962]
- ICHIRO TOIDA, *Visiting Assistant Professor of Public Health*. M.D. 1953, Tokyo University. [1968]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. RANDALL TOLLEFSEN, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- 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]
- PORTER H. WARREN, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1952, Tulane. [1961; 1968]
- CAROLYN W. WATSON, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins; M.D. 1949, Maryland. [1965; 1967]
- 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]
- DANIEL WELLNER, *Assistant Professor of Biochemistry*. A.B. 1956, Harvard; Ph.D. 1961, Tufts. [1967]
- 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]
- 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]
- ROBERT E. WIECHE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1948, Miami University (Ohio); M.D. 1952, Cornell. [1959; 1965]
- CARL WIERUM, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia; M.D. 1951, Cornell. [1952; 1967]
- 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]
- FLORENCE WILSON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, M.D. 1953, Cornell. [1957; 1968]
- 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*. A.B. 1952, New York University; M.D. 1956, State University of New York (Brooklyn). [1966]
- PATRICIA H. WINCHESTER, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1955, M.D. 1959, Duke. [1960; 1968]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- KATSUHIKO YANO, *Assistant Professor of Public Health*. M.D. 1951, Ph.D. 1961, Hiroshima Prefectural Medical College, Japan. [1967]
- ALVIN YAPALATER, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943 Oklahoma; M.D. 1946, Tulane. [1966]
- 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 UNIVERSITY 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 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 between the two institutions was strengthened in 1927 when an agreement between Cornell University and The Society of the New York Hospital established The New York Hospital-Cornell Medical Center. 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. A Joint Administrative Board, which consists of three representatives of each institution and a seventh member elected by the others, coordinates the policies of the Center. The position of Director of The New York Hospital-Cornell Medical Center was established in 1953. In 1966, a new position, that of President of The New York Hospital-Cornell Medical Center, was established.

In 1932, The New York Hospital-Cornell Medical Center was moved to its present site on York Avenue between 68th and 71st Streets. Twenty impressive buildings, most of them of modified Gothic design, now make up the Center. The William Hale Harkness Medical Research Building, a ten-story structure located at York Avenue and 70th Street, will bring to twenty-one the number of buildings in the complex. Cornell University Medical College, The New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors—the Rockefeller University, 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.

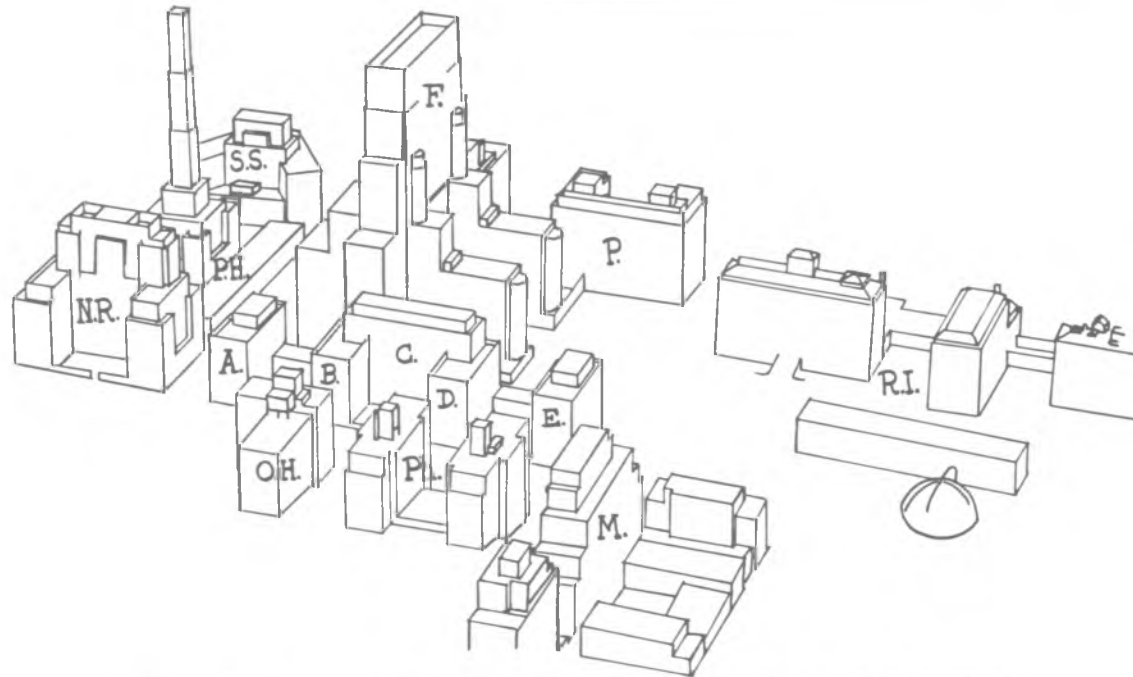
## FACILITIES FOR INSTRUCTION

The facilities provided by the physical plant of The New York Hospital-Cornell Medical Center for medical instruction are, in many respects, unexcelled. The Center comprises a large complex of buildings that are connected either conventionally or by underground passages. The facilities of the Center include ample accommodations for the care of hospital patients, for teaching which is conducted in the clinical departments, and for various activities related to the work of basic science departments in the Medical College.

### Cornell University Medical College

Instruction in the medical sciences is conducted in the buildings along York Avenue from 68th to 70th Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the Library are on the first floor of this building. The Medical College Alumni Office (Room C-140) and the Office of Admissions and Student Affairs (Room C-118) are located directly behind the Library. The B and D areas of the Medical College adjoin the Wood Building on the north and south sides. The upper floors of the central portion of the Medical College





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.

house the Departments of Microbiology, Pathology, Public Health and Physiology, along with the research laboratories for several of the clinical departments. The Anatomy Department is in the building at 70th Street (Area A), and the building at the 68th Street (Area E) end of the College houses the Departments of Biochemistry and Pharmacology. 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 also are housed in the buildings along York Avenue.

## The New York Hospital

Clinical instruction is given in the eight separate departments forming The New York Hospital. The medical and surgical departments occupy the central hospital building, the women's clinic (Lying-In Hospital), the pediatric department and the psychiatric department (Payne Whitney Clinic) extend from north to south, overlooking the East River. Each clinic contains facilities for bed patients, an out-patient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building, with semi-private areas for bed patients, three floors for the out-patient department, and extensive laboratories for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semi-private beds and out-patient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are six floors containing 128 rooms for private patients. Living quarters for the resident staff are on the floors at the top of the main 27-story building and in the new house-staff residence across York Avenue. The entire Hospital has a capacity of approximately 1,230 beds. The Westchester Division in White Plains, N.Y., contains an additional 350 beds. This division, together with the Payne Whitney Clinic, forms the Psychiatry Department of The New York Hospital-Cornell Medical Center.

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

## Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in The New York Hospital, advantage also is 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.

## THE HOSPITAL FOR SPECIAL SURGERY

The Hospital for Special Surgery, which includes a modern hospital facility containing 204 beds and a new adjoining research building, is at 535 East 70th Street across from The New York Hospital. The Hospital for Special Surgery provides the orthopedic and rheumatic services of The New York Hospital-Cornell Medical Center.

## MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES

Memorial Hospital is affiliated with the Sloan-Kettering Institute for Cancer Research and these institutions together form Memorial Sloan-Kettering Cancer Center. James Ewing Hospital, a municipal institution with which Memorial Hospital is affiliated, is located next to it on 68th Street. In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with Cornell University Medical College in 1914. The agreement between Memorial Hospital and the College requires that the professional staff of the Hospital be named by the Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital has 273 beds, and the James Ewing Hospital has 240 beds.

## FRANKLIN D. ROOSEVELT VETERANS ADMINISTRATION HOSPITAL

This 1,800-bed psychiatric hospital, located in Montrose, New York, recently has become affiliated with the Medical College.

## The Loomis Laboratory

The original Loomis Laboratory, which was founded in 1886, at 414 East 26th Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

## The 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 1300 York Avenue. The sections for current journals, reference works, and medical monographs are adjacent to the reading room. The book stacks and carrels are on the two floors below the main reading room.

The Library has more than 90,000 books and 1,360 journals dealing with the medical sciences and clinical medicine. There are many complete sets of important journals in English, German, and French as well as selected collections of monographs and textbooks.

Several of the departments in the Medical College have libraries with journals, monographs, and textbooks pertaining to the specific subject areas of the department. These collections, inter-library loans, and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the Medical College Library.

In addition to using the College Library, students may obtain certain privileges at the library of the New York Academy of Medicine. The Academy, which is located at Fifth Avenue and 103rd Street, has the second-largest medical library in the United States.

## The Oskar Diethelm Historical Library

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

## The Russell Sage Institute of Pathology

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

## REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical professions, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. Cornell was one of the first medical colleges in the United States to require a college degree as a standard of admission. Only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell University 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 in order to qualify for admission to the study of medicine in New York State are set forth in the *Regulations of the Commissioner of Education*. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with this minimal preparation as background.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for 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 Committee on Admissions selects a class of approximately eighty-nine students from a group of more than 1,500 applicants. The members of the Committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, and soundness of personality that will enable them to complete satisfactorily their course in the Medical College. Moreover, a medical school must acknowledge its serious obligation to society. It must graduate only those who can be expected, with reasonable certainty, to do creditable work in medicine after graduation. The Committee on Admissions selects from all the applicants those who best seem to fulfill these requirements.

In selecting a relatively small class from a large group of well-qualified applicants, the Committee 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 Committee on Admissions 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 New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

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

## APPLICATIONS FOR ADMISSION

All requests for application forms should be addressed to the Committee on Admissions, 1300 York Avenue, New York, New York 10021. In order to apply for admission, the regular form issued for this purpose must be completed and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. Because of the large number of students applying in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a specific year, the application forms may be obtained upon request, beginning on July 1 of the previous year. The completed applications should be filed during the fall, and no applications will be accepted after November 30. A nonrefundable charge of \$10 is made for submitting an application. A check or money order made payable to Cornell University Medical College should be sent with the application.

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.

Owing to the large number of applicants it is not possible for the Committee on Admissions to have personal interviews with every candidate. Therefore, the invitations for interview are decided by the Committee. However, any student who is attending a college at a distance from New York City is invited to write and request an interview if he is visiting in the area. In such instances, every effort will be made to arrange personal conferences with members of the Committee on Admissions.

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 FOR ADVANCED STANDING

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

Medical College. These applicants must present a certificate of honorable dismissal from the medical school, or schools, they have attended, and they may be required to take examinations in any of the medical courses taken in another school.

Although a certain number of students are regularly admitted from other institutions to enter the third-year class at Cornell University Medical College, rarely have 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 completed 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 of 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 one 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 percent 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 percent 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. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

## EXAMINATIONS FOR MEDICAL LICENSURE

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

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



# GENERAL INFORMATION

## FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room D-07, 1300 York Avenue, New York, N.Y. 10021.

*Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, 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. PERSONNEL HEALTH SERVICE. See description, page 56.

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 years, \$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. Monocular microscopes are available for rental at \$35 to \$50 a year. Anyone wishing to rent one of these microscopes should write to the Office of Admissions to make reservation as early as possible.

## PERSONNEL HEALTH SERVICE

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

## RESIDENCE HALLS

F. W. Olin Hall, a student residence which was built with a generous gift from the Olin Foundation, was completed for occupancy in 1954. The residence is located at 445 East 69th Street, directly across from the Medical College entrance on York Avenue. Olin Hall contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since two rooms share a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Student rental for an academic year is \$550; for a full year (12 months), \$650; and for periods of

less than an academic year, \$55.00 per 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, an elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen one and one-half room furnished apartments, and nineteen three-room, furnished apartments. Monthly rentals range from \$75.00 to \$85.00 for the one and one-half room apartments and from \$115 to \$125 for the three room apartments.

Two adjacent buildings, also known as the Livingston Farrand Apartments, were remodeled in 1960 for married students. The building at 425 East 69th Street contains twenty two-room furnished apartments, with rentals ranging from \$70.00 to \$77.00 per month. The building at 423 East 69th Street has sixteen two-, three-, and four-room furnished apartments. Monthly rentals range from \$70.00 to \$77.50 for two-room apartments; from \$110 to \$120 for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

## FINANCIAL AID

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

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

## Scholarships

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

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

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on 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.** This fund provides three scholarships designated as

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

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

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

6. **THE JEREMIAH S. FERGUSON SCHOLARSHIP.** This scholarship was established in memory of Jeremiah S. Ferguson, who, throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000 and the income from it is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid and who, by their conduct and scholarship, have proven 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, 1911-39. The interest from this fund is to be awarded either to one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that Department. The scholarships are to be awarded by the

Executive Faculty upon nomination by the head of the Department of Anatomy.

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

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

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

11. **THE ELSIE STRANG L'ESPERANCE SCHOLARSHIP.** Established by a bequest from Dr. L'Esperance, this scholarship provides financial assistance for women students at Cornell University Medical College.

12. **THE RUTH HOLLOHAN SCHOLARSHIP FUND.** This fund was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is used for scholarships in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

13. **THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley, this scholarship is awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

14. **THE LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship fund is available to women students in the Medical College.

15. **FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be

given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

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

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

20. **ROBERT E. SPENO SCHOLARSHIP FUND.** This fund was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a room-rent scholarship.

21. **ELIZABETH AND NEILL HOUSTON SCHOLARSHIP FUND.** The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

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

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 Coppermines Foundations, Inc., the fund provides financial assistance for needy and worthy students.
27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.
28. **THE MARY PUTNAM JACOBI—ANNA FORREST ROWE SCHOLARSHIP.** A bequest from William Vincent Rowe endowed this fund. The income provides 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.** The income from the endowment, given by Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.
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.** The amount of \$1,000, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.
33. **THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT.** A \$5,000 grant is made annually by the Society to provide scholarships for students who are in need of financial aid.
34. **THE WELD FUND SCHOLARSHIP.** Established by David and Mary Blake Weld, the income from this fund provides scholarship assistance for needy students who are in good academic standing.
35. **THE CARL J. SCHMIDLAPP MEMORIAL FUND.** This fund was established by Dr. Jean Schmidlapp Humes '49, in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income from the fund is awarded annually to a deserving student in any class of Cornell Medical College selected by the faculty on the basis of need and ability.
36. **MAIER AND SHANTSYA HITZIG SCHOLARSHIP.** Dr. William M. Hitzig '29, established this scholarship in memory of his father and mother through a gift of \$5,000. The income from this fund is allotted annually as a scholarship, with preference 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 to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four-year scholarship to one or two students. 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 PHILIP G. WOODWARD SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest to the Society of The New York Hospital from Philip G. Woodward, is available to be used for Philip G. Woodward Scholarships, to be awarded to third- or fourth-year medical students of the Cornell University Medical College, who have demonstrated interest, initiative, and ability in the fields of psychiatry, neurology, and/or behavioral biology.

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 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.

44. **HEALTH PROFESSIONS SCHOLARSHIP PROGRAM.** At the present time the Health Professions Scholarship Program, administered by the Public Health Service of the U.S. Department of Health, Education, and Welfare, contributes approximately \$16,000 per year for each enrolled class. Maximum awards may not exceed \$2500 per year, and all awards are based on demonstrated financial need.

45. **THE ANNA E. RAY ROBINSON EDUCATION FUND.** The income from this fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for medical students. A preference is to be given to descendants of Anna E. Ray Robinson and her husband.

46. **THE DICK KATZIN, M.D., SCHOLARSHIP FUND.** This fund was established in 1966 by Dick Katzin '65. The income will be used to give financial aid to needy students.

## 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 preprofessional 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 through the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.
3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits. Students are required to clear themselves of all indebtedness to the College, with the exception of formal loans, before graduation.
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. Loans up to \$2000 may be made yearly if justified by financial need. Interest is not charged until three years after graduation and then is assessed at the federal interest rate current at the time the loan was made. Loans are to be repaid during a ten year period beginning three years after graduation.

## 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.** Three prizes are given in commemoration of John Metcalfe Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes are presented at the end of the fourth year to the three students who have the highest academic standing for the four years' work. Only those

who have taken the full course of study at Cornell University Medical College are eligible.

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

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

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

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 1968 the William Mecklenburg Polk Prize awards for research were:

First prize: Thomas D. Bird

Second prize: Richard W. Wilson

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

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

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

A. The award is presented at graduation to the student whose research has been determined by the Medical College to be the most meritorious performed by a member of the graduating class. The originality of the research project and the thoroughness of the investigation are the major determinants in the selection of the recipient.

B. If the Dean finds it inappropriate to make the award in any one year, the award will be deferred until the following year. Only one award, however, will be made during any one calendar year. To be considered for this prize, the theses must be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Borden Prize for Research for the year 1968 was awarded to John B. Winfield.

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 for his work in research and sculpture. The income of this fund is to be awarded yearly, at the discretion of the professor in charge, to a student who has performed outstanding work in anatomy. 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 is 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.** This prize is presented in memory of the late, famed Chief of Neurology at The New York Hospital-Cornell Medical Center, Dr. Harold G. Wolff. The prize consists of \$300 and a selection of writings which represent Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15. The Harold G. Wolff Research Prize for the year 1968 was awarded to Peter I. A. Szilagyi.

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. For 1968 the National Foundation Merit Award was given to Harold E. Carlson.

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

21. **THE SANDRA LEE SHAW MEMORIAL FUND.** The fund supports an annual prize given in memory of Sandra Lee Shaw. The prize is awarded to the medical student who has produced an outstanding research paper in the fields of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes in Research. The Sandra Lee Shaw prize for 1968 was awarded to Robert F. Zager.

## ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship and satisfactory moral qualifications. It was organized at the College of Medicine of the University of Illinois, Chicago, 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 1968 were: Arnold E. Andersen, Michael S. Balis, Harold E. Carlson, Francis V. Chisari, Robert C. Collins, Anthony G. Coscia, James H. Dauber, Steven A. Dressner, John E. Feldmann, Edward L. Goodman, Creig S. Hoyt, Robert E. Koehler, Jr., Patrick Rooney, Sidney F. Stein, Jack Waxman, John B. Winfield, Robert F. Zager.

## 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.

Milton Helpern '26, President  
 Albert L. Rubin '50, Vice President  
 Frederic T. Kirkham, Jr., '47, Secretary  
 Henry Mannix, Jr., '50, Treasurer  
 William A. Barnes '37, Chairman, Alumni Fund

### Directors

*Three-Year Term:* Irving S. Wright '26; John T. Queenan '58  
*Two-Year Term:* Richard Flandreau '49; Walter F. Riker, Jr., M'43  
 George Schaefer '37; Anthony T. Ladd '45  
*One-Year Term:* Allen W. Mead '53; Roy C. Swan '47  
 Executive Secretary: Carol Ashley

### Quarterly Editorial Board

Richard T. Silver '53, Editor  
 Donald Kaye, Faculty Representative, Associate Editor  
 Lawrence Scherr '57, Associate Editor  
 Ari Kiev '58, Associate Editor  
 William W. Goodhue, David S. Lerner, Student Editors

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

## MILITARY ADVISERS

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

Carl A. Berntsen, Clinical Assistant Professor of Medicine—Navy

George W. Frimpter, Associate Professor of Medicine—Air Force

August H. Groeschel, Assistant Professor of Public Health—Army

Paul A. Skudder, Clinical Associate Professor of Surgery—Coordinator of the Medical Education for National Defense Program

## WILLIAM D. STUBENBORD VISITING PROFESSORSHIPS

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



## EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

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

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

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. 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 with the degree of 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 who are not candidates for degrees.

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

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

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

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

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

are given to illustrate the application of the basic sciences to clinical medicine. A series of lectures covering normal growth and development are given by the departments of pediatrics and obstetrics and gynecology.

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

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

## ELECTIVE TIME

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

## FOURTH-YEAR CURRICULUM

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

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

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

## SUMMER FELLOWSHIPS

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

## ONE-YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to

pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

## 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, Joseph C. Hinsey Professor of Anatomy, Chairman

Dorothea Bennett, Associate Professor of Anatomy  
Dana C. Brooks, Associate Professor of Anatomy  
James L. German III, Clinical Associate Professor of Anatomy  
Wilbur D. Hagamen, Associate Professor of Anatomy  
Myron Jacobs, Clinical 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  
Julio L. Sirlin, Associate Professor of Anatomy

Michael D. Gershon, Assistant Professor of Anatomy  
Johanna Hagedorn, Assistant Professor of Anatomy  
John E. Lee, Clinical Assistant Professor of Anatomy  
Elsa O'Donnell-Alvelda, Assistant Professor of Anatomy  
Walter Rubin, Assistant Professor of Anatomy  
Muriel Sackler, Assistant Professor of Anatomy  
George Stassa, Assistant Professor of Anatomy

### Instructors:

Irene Geyer-Duszynska  
John C. Weber

### Research Fellow:

Antonio P. de Oliveira

### Assistants:

Lorraine Flaherty  
Jacqueline Winterkorn

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

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student, and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with first-hand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into 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 and are supplemented by 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 AND 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. GRADUATE GENETICS SEMINAR COURSE.** Microbial and molecular genetics. Fall 1968. Cytological genetics. Spring 1969. Drs. Bennett, Cavaliere, and German.

**B. A REVIEW OF DISSECTION** (students should arrange to work in pairs).  
Dr. Swan. 15 weeks.

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

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

## ANESTHESIOLOGY

Joseph F. Artusio, Jr., Professor of Anesthesiology, Chairman  
William S. Howland, Professor of Anesthesiology  
Benjamin E. Marbury, Clinical Professor of Anesthesiology  
Alan Van Poznak, Clinical Professor of Anesthesiology

C. Paul Boyan, Associate Professor of Anesthesiology  
Charles L. Burstein, Clinical Associate Professor of Anesthesiology  
Olga Schweizer, Associate Professor of Anesthesiology  
Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology

Herbert L. Erlanger, Clinical Assistant Professor of Anesthesiology  
Anita H. Goulet, Clinical Assistant Professor of Anesthesiology  
Rita G. Jacobs, Assistant Professor of Anesthesiology  
George R. Monohan, Clinical Assistant Professor of Anesthesiology  
David Susman, Clinical Assistant Professor of Anesthesiology

### Clinical Instructors:

Leslie L. Balazs  
Raymond G. Barile  
Melvin L. Bernstine  
Dragan Borovac  
John S. L. Chen  
Ira M. Cimonis

Gabriel G. Curtis  
John L. Fox  
Barnett Junker  
Aileen Kass  
Charles Lomanto

Louis J. Maggio  
Gail M. Ryan  
Jerold Schwartz  
Leibert S. Turner  
Judith K. Weingram

### Fellows:

Julio Araoz  
Michael J. Brooks  
Ching-Ming Chen  
James Dana  
Julieto Eltanal  
Paul Goldiner

Heidi C. Gutierrez  
Bienhard Hou  
Gregorio Javin  
Herta Maria Luise Juttner  
Jae-Koo Kim  
Suk Soon Lee

Heide E. Lim  
Raul Limjuco  
Loleta Palac  
George Panariello  
Mohammed Radmanesh  
Marlyn G. Sy

**SECOND YEAR.** The Department of Anesthesiology participates in the teaching of Pharmacology. Anesthetic agents are considered not only as depressants of the central nervous system but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. We also assist in the teaching about drugs which affect respiratory mechanisms. This department participates in lectures, laboratory demonstrations and student seminars.

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society of Anesthesiologists. In this experience, students

spend time in the operating rooms and laboratories and see how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

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

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

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

## BIOCHEMISTRY

Alton Meister, Israel Rogosin Professor of Biochemistry, Chairman  
Julian R. Rachele, Professor of Biochemistry

Roy W. Bonsnes, Associate Professor of Biochemistry  
Jack Goldstein, Associate Professor of Biochemistry  
Aaron S. Posner, Associate Professor of Ultrastructural Biochemistry  
Charlotte Ressler, Associate Professor of Biochemistry  
Albert L. Rubin, Associate Professor of Surgery in Biochemistry  
Kenneth R. Woods, Associate Professor of Biochemistry

Esther M. Breslow, Assistant Professor of Biochemistry  
Helena Gilder, Assistant Professor of Biochemistry  
Rudy H. Haschemeyer, 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  
Kurt H. Stenzel, Assistant Professor of Surgery in Biochemistry  
Daniel Wellner, Assistant Professor of Biochemistry

### Instructors:

Suresh S. Tate                      John D. Termine

### Research Associates:

Geoffrey F. Bull                      Marian Orlowski                      Toshihiko Ubuka

### Fellows:

David F. David	Gerald Rosenthal	Vaira P. Wellner
S. L. N. Rao	William B. Rowe	Mark B. Weksler
Robert R. Riggio	Gabriel H. Schwartz	Sherwin Wilk



Assistants:

Richard W. Avenia  
William F. Bowers  
Nora Cooke  
Jerald D. Gass  
Melvin B. Hayes

Bernard Horowitz  
Mona Jensen  
Louise A. Lichtenberg  
Lawrence M. Pinkus  
Noel M. Relyea

Paul G. Richman  
Sr. Marilyn Stevens  
Laura Tarantino  
Roberta E. Weisbrod  
Peter O. Zelazo

**GENERAL BIOCHEMISTRY.** Given in the first year and designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. Instruction includes lectures, assigned readings, reports, and laboratory work on proteins, nucleic acids, enzymes, carbohydrates, fats, vitamins, hormones, and other compounds of biological importance. Consideration is given to metabolism, genetics, nutrition, and to the application of biochemical and biophysical principles to medicine. Lectures, conferences, and demonstrations. 33 hours, first term. 33 hours, second term. Conferences, demonstrations, and laboratory work. 154 hours, third term.

## Elective Courses

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

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

**RESEARCH IN BIOCHEMISTRY.** By arrangement with the Chairman of the Department. Other courses are offered in advanced biochemistry. These courses, which are described in the *Announcement of the Graduate School of Medical Sciences*, are open to qualified medical students.

## Courses Open to Special Students

**BIOCHEMISTRY.** Fee, \$25 a term.

## MEDICINE

Alexander G. Bearn, Professor of Medicine, Chairman  
Benjamin Alexander, Clinical Professor of Medicine  
Joseph H. Burchenal, Professor of Medicine  
Frank E. Cormia, Clinical Professor of Medicine (Dermatology)  
John E. Deitrick, Professor of Medicine  
Murray Dworetzky, Clinical Professor of Medicine (Allergy)  
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)  
 Thomas Killip III, Roland Harriman Professor of Medicine  
 Allyn B. Ley, Professor of Medicine  
 E. Hugh Luckey, Professor of Medicine  
 Carl Muschenheim, Clinical Professor of Medicine  
 W. P. Laird Myers, Professor of Medicine  
 Ralph E. Peterson, Professor of Medicine  
 George G. Reader, Professor of Medicine  
 Heonir Rochas, Visiting Professor of Medicine  
 J. James Smith, Clinical Professor of Medicine  
 Eugene Stead, Visiting Professor of Medicine  
 David D. Thompson, Professor of Medicine  
 Douglas P. Torre, Clinical Professor of Medicine (Dermatology)  
 Robert F. Watson, Clinical Professor of Medicine  
  
 Samuel C. Atkinson, Clinical Associate 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  
 Norman Brachfeld, Associate Professor of Medicine  
 J. Robert Buchanan, Clinical Associate Professor of Medicine  
 Henry A. Carr, Clinical Associate Professor of Medicine  
 Aaron D. Chaves, Clinical Associate Professor of Medicine  
 Bayard D. Clarkson, Associate Professor of Medicine  
 William N. Christenson, Clinical Associate Professor of Medicine  
 Hartwig Cleve, Associate Professor of Medicine  
 George O. Clifford, Associate Professor of Medicine  
 Eugene J. Cohen, Clinical Associate Professor of Medicine  
 Betty S. Danes, Associate Professor of Medicine  
 Farrington Daniels, Jr., Associate Professor of Medicine (Dermatology)  
 John W. Dougherty, Clinical Associate Professor of Medicine  
 William J. Eisenmenger, Clinical Associate Professor of Medicine  
 Borje Ejrup, Clinical Associate Professor of Medicine  
 Ralph L. Engle, Jr., Associate Professor of Medicine  
 William T. Foley, Clinical Associate Professor of Medicine  
 Alvin H. Freiman, 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  
 Mary E. W. Goss, Associate Professor of Sociology in Medicine  
 Sidney M. Greenberg, Clinical Associate Professor of Medicine  
 Susan J. Hadley, Associate Professor of Medicine  
 Leonard L. Heimoff, Clinical Associate Professor of Medicine  
 Henry O. Heinemann, Associate Professor of Medicine  
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine  
 Lawrence S. Hobson, Clinical Associate Professor of Medicine  
 Melvin Horwith, Clinical Associate Professor of Medicine  
 Raymond W. Houde, Associate Professor of Medicine  
 Abraham S. Jacobson, Clinical Associate Professor of Medicine  
 Norman B. Javitt, 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  
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine  
 Herbert Koteen, Clinical Associate Professor of Medicine  
 Irwin H. Krakoff, Associate Professor of Medicine  
 John S. La Due, Clinical Associate Professor of Medicine  
 Richard Lee, Clinical Associate Professor of Medicine  
 Mack Lipkin, Clinical Associate Professor of Medicine  
 Martin Lipkin, Associate Professor of Medicine  
 Edward J. Lorenze, Clinical Associate Professor of Medicine

Donald B. Louria, Associate Professor of Medicine  
 Daniel S. Lukas, Associate Professor of Medicine  
 Aaron J. Marcus, Associate Professor of Medicine  
 Klaus Mayer, Clinical Associate Professor of Medicine  
 Richard R. McCormack, Clinical Associate Professor of Medicine  
 Ellen McDevitt, Associate Professor of Medicine  
 Ralph L. Nachman, Associate Professor of Medicine (Hematology)  
 Theodore W. Oppel, Clinical Associate Professor of Medicine  
 Mary Ann Payne, Clinical 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  
 Paul Saville, Associate Professor of Medicine  
 Brij Saxena, Associate Professor of Biochemistry in Medicine  
 Lawrence Scherr, Associate Professor of Medicine  
 Arthur Seligmann, Clinical Associate Professor of Medicine  
 Paul Sherlock, Clinical Associate Professor of Medicine  
 Maurice E. Shils, Associate Professor of Medicine  
 Richard T. Silver, Clinical Associate Professor of Medicine  
 Cyril Solomon, Clinical Associate Professor of Pathology in Medicine  
 Martin Sonenberg, Associate Professor of Medicine  
 Lawrence S. Sonkin, Clinical Associate Professor of Medicine  
 Chester M. Southam, Associate Professor of Medicine  
 Herman Steinberg, Clinical Associate Professor of Medicine  
 Peter E. Stokes, Associate Professor of Medicine  
 Richard W. Stone, Clinical Associate Professor of Medicine  
 William D. Stubenbord, Clinical Assistant Professor of Medicine  
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine  
 Parker Vanamee, Associate Professor of Medicine  
 Byard Williams, Clinical Associate Professor of Medicine

Robert Abel, Clinical Assistant Professor of Medicine  
 William A. Anderson, Clinical Assistant 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  
 Lloyd T. Barnes, Clinical Assistant Professor of Medicine  
 Curtis H. Baylor, Clinical Assistant Professor of Medicine  
 Bry Benjamin, Clinical Assistant Professor of Medicine  
 Carl A. Berntsen, Jr., Clinical Assistant Professor of Medicine  
 Richard Bettigole, Assistant Professor of Medicine  
 Harry Bienenstock, Clinical Assistant Professor of Medicine  
 Robert Binford, Assistant Professor of Medicine  
 Robert G. Brayton, Assistant Professor of Medicine  
 Kevve Brodman, Clinical Assistant Professor of Medicine  
 John L. Brown, Jr., Clinical Assistant Professor of Medicine  
 Veronica Brown, Clinical Assistant Professor of Medicine  
 Edward A. Burkhardt, Clinical Assistant Professor of Medicine  
 Donald J. Cameron, Clinical Assistant Professor of Medicine  
 Susan T. Carver, Assistant Professor of Medicine  
 Hugh E. Claremont, Clinical Assistant Professor of Medicine  
 Melva A. Clark, Clinical Assistant Professor of Medicine  
 Ira B. Cohen, Clinical Assistant Professor of Medicine  
 C. Stephen Connolly, Clinical Assistant Professor of Medicine  
 Francis P. Coombs, Clinical Assistant Professor of Medicine  
 Denton S. Cox, Clinical Assistant Professor of Medicine  
 Jean A. Cramer, Clinical Assistant Professor of Medicine  
 Marion Davis, Clinical Assistant Professor of Medicine

Eleanor E. Deschner, Assistant Professor of Radiobiology 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  
 Elizabeth A. Eilers, Assistant Professor of Medicine  
 Henry R. Erle, Clinical Assistant Professor of Medicine  
 George C. Escher, Clinical Assistant Professor of Medicine  
 Ralph A. Eskesen, Clinical Assistant Professor of Medicine  
 Elaine Eyster, Assistant Professor of Medicine  
 Thomas J. Fahey, Clinical Assistant Professor of Medicine  
 John A. Finkbeiner, Clinical Assistant Professor of Medicine  
 John T. Flynn, Clinical Assistant Professor of Medicine  
 Horace T. Gardner, Clinical Assistant Professor of Medicine  
 Martin Gardy, Assistant Professor of Medicine  
 David L. Globus, Clinical Assistant Professor of Medicine  
 Robert B. Golbey, Clinical Assistant Professor of Medicine  
 George W. Gorham, Clinical Assistant Professor of Medicine  
 Ernest Greenberg, Clinical Assistant Professor of Medicine  
 Keith O. Guthrie, Clinical Assistant Professor of Medicine  
 Peter C. Harpel, Assistant Professor of Medicine  
 Arthur H. Hayes, Assistant Professor of Medicine  
 Richard Herrmann, Clinical Assistant Professor of Medicine  
 Raymond B. Hochman, Clinical 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  
 James R. Hurley, Assistant Professor of Medicine  
 Martin Hyman, Assistant Professor of Sociology in Medicine  
 Marian Isaacs, Assistant Professor of Medicine  
 Norman Isaacs, Clinical Assistant Professor of Medicine  
 Brian E. Johnson, Assistant Professor of Physiology in Medicine  
 Anna Kara, Assistant Professor of Medicine  
 J. Harry Katz, Clinical Assistant Professor of Medicine  
 Lemoyne C. Kelly, Clinical Assistant Professor of Medicine  
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine  
 John T. Kimball, Clinical Assistant Professor of Medicine  
 Edward M. Kline, Clinical Assistant Professor of Medicine  
 Mortimer J. Lacher, Clinical Assistant Professor of 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 III, Clinical Assistant Professor of Medicine  
 Robert D. Leeper, Assistant Professor of Medicine  
 Leo R. Lese, Clinical Assistant Professor of Medicine  
 Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine  
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine  
 Luther B. Lowe, Jr., Assistant Professor of Medicine  
 Norton M. Luger, Clinical Assistant Professor of Medicine  
 Nicholas T. Macris, Clinical Assistant Professor of Medicine  
 Melville G. Magida, Clinical Assistant Professor of Medicine  
 Mark R. Marciano, Clinical Assistant Professor of Medicine  
 Abraham Mazur, Clinical Assistant Professor of Biochemistry in Medicine  
 John P. McCann, Clinical Assistant Professor of Medicine  
 James F. McGovern, Clinical Assistant Professor of Medicine  
 George A. McLemore, Jr., 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  
 David Molander, Clinical Assistant Professor of Medicine  
 Willibald Nagler, Assistant Professor of Medicine  
 Irwin Nydick, Clinical Assistant Professor of Medicine  
 Herbert F. Oettgen, Assistant Professor of Medicine

Francis S. Perrone, Clinical Assistant Professor of Medicine  
 John Prunier, Clinical Assistant Professor of 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  
 Edmund O. Rothschild, Clinical Assistant Professor of Medicine  
 Walter Rubin, Assistant Professor of Medicine  
 Emmanuel Rudd, Clinical Assistant Professor of Medicine  
 Paul Rueggesser, Clinical Assistant Professor of Medicine  
 James Ryan, Assistant Professor of Medicine  
 Leonard Schuyler, Clinical Assistant Professor of Medicine  
 Ernest Schwartz, Clinical Assistant Professor of Medicine  
 Frank A. Seixas, Clinical Assistant Professor of Medicine  
 Charles Sheard III, Clinical Assistant Professor of Medicine  
 Edward H. Shepard, Clinical Assistant Professor of Medicine  
 Gerald M. Silverman, Clinical Assistant Professor of Medicine  
 Harry A. Sinclair, Clinical Assistant Professor of Medicine  
 James P. Smith, Assistant Professor of Medicine  
 David E. Sobel, Clinical Assistant Professor of Psychiatry in Medicine  
 John Kelly Smith, Assistant Professor of Medicine  
 Peter H. Stern, Clinical 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  
 Carl Wierum, Clinical Assistant Professor of Medicine  
 Florence A. Wilson, Clinical Assistant Professor of Medicine  
 Sidney Winawer, Assistant Professor of Medicine  
 A. Lee Winston, Clinical Assistant Professor of Medicine  
 Charles W. Young, Assistant Professor of Medicine

Instructors:

Robert Ascheim	Harvey Klein	Raymond L. Sherman
Alexandra Dimich	Susan Kline	Robert Timberger
Malin R. Dollinger	Theodore Nagel	Gary Wadler
Monroe Dowling	Eladio Nunez	William G. Winters
Sidney Fillmore	Albert Ross	Samuel Yeh
Warren Johnson	Ellen Scheiner	

Clinical Instructors:

Henriette E. Abel	Claude E. Forkner, Jr.	John F. Marchand
Ralph A. Baer	David Gluck	Robert S. Martin
James S. Bernstein	Howard Goldin	N. Eileen McGrath
Alan A. Bloom	Marshall J. Hanley	Donald McKaba
Morton Blum	Herman G. Helpern	Willis Murphy
Warren S. Braveman	Ann C. Hill	Allen C. Nadler
Samuel H. Brethwaite	Helene Holtz	Lewis Neporent
Harrison O. Brown	Thomas P. Jernigan	Martin Nydick
Walter A. Camp	Vincent Joy	Normand Olivier
Vincent A. Cipollaro	Arthur Karanas	Richard Perkins
Robert Collier	Richard J. Kaufman	Raymond E. Phillips
C. Pinckney Deal, Jr.	Ludwig Klein	Aurelia Potor
Peter de Nesnera	Neil Klein	Sanford M. Reiss
Edgar G. Desser	Bernard Koven	Charles Ressler
Robert E. Dye	Martha Larsen	Melvin Rubenstein
Adrian Edwards	James Ledwith	Lawrence Scharer
Alvin N. Ehrlich	Bruce C. Levy	Alan G. Snart
Ernest R. Esakof	Marianne Lindner	Edward L. Worthington
Edwin Ettinger	Carleton MacDonald	Stanley Yormack

## 84 MEDICINE

### Research Associates:

Bruce Belshaw  
Philip Holzberger  
Anthony Imondi  
Hisao Kitayama

James M. Miller  
Premila Rathnam  
Christian Rittner

Margaret E. Todd  
Erna Werber  
Alice Ullmann

### Research Fellows:

Christina B. Gidynski

Mildred Goldberg

Jerome Meyers

### Fellows:

Emilio Abello  
Karl Adler  
Karl Anderson  
Carl Apstein  
Sumner Auerbach  
Martin Barandes  
Kenneth Barnes  
Michael Bayer  
Sidney R. Block  
Michael Britt  
Robert Carey  
Eugene Chin  
Cal Cohn  
Judith Chown  
Morton Coleman  
Thomas Cosantino  
Thomas da Cruz  
Davey Deal  
Frank de Furia  
Bernard Diamant  
Lewis Drusin  
Robert Erickson  
Kenneth A. Ewing  
Theodore Failmezger  
George A. Falk  
Jaco Fishenfeld  
Louis Fishman  
Howard Frankel  
Ronald B. Garren  
Timothy Gee  
David L. Geffner  
Robert Geller  
Robert Giller  
Laurence Glassberg  
Margery Golden  
Michael Goldstein  
William Gough  
Joseph M. Green

Edward Grossman  
Nei Luz Gulco  
Roscoe B. Guy  
Raymond L. Hargrove  
Charles Hennekens  
Michael Hoffman  
Jane S. Henkel  
T. L. Hsu  
Eric Jaffe  
William Johnson  
Dennis Kasper  
Lois A. Katz  
Herbert Kornfeld  
Ruth Lawrence  
Stanley V. Leblang  
Barry Levin  
Matthew E. Levison  
Charles Lightdale  
Sonia Lindo  
Allan Lipton  
Theodore List  
Antonio Macedo  
Gerald Mandell  
Bento Mascarenhas  
Majid Mesgarzadeh  
Stuart Miller  
Robert Millman  
John B. Morrison  
Walter Mountcastle  
Bruce Nitzberg  
John Northup  
Albino E. Novaes  
Michael Oliphant  
George A. Omura  
Martha E. Omura  
Bergein F. Overholt  
Vellore T. Padmanabhan  
Jacqueline Parthemore

Alan M. Peabody  
Vyda Petzold  
Paul Pierce  
Carl Pinsky  
B. Frank Polk  
Adolpho Preciado-Solis  
Aron Primack  
Robert Reid  
Freddy Revilla  
Steven Rinner  
Marcos Rivelis  
Humberto Rosas-Herrera  
Merle A. Sande  
Rabin M. Sarda  
George Sartiano  
Stephen Scheidt  
Harris Schoenfeld  
Zalman Schrader  
Paul C. Schwartz  
Mario Shapiro  
Joseph Shields  
Zelman Skloven  
Henry Solomon  
Jerry Spivak  
Charles Steinberg  
Phyllis Stephenson  
Charles Stringfellow  
Frank A. Tomao  
Frank Troncale  
Earl Tulloch  
Thomas Tuttle  
David Van Thiel  
Armando Vidalon  
Vincent Vinciguerra  
Robert Wallace  
Babette Weksler  
Lawrence Widerlite  
Judith Woodruff

### Lecturers:

William G. C. Monroe

Robert L. Yeager

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

It is evident that a large number of options are open to those pursuing a career in medicine, a diversity which includes laboratory, clinical, and

administrative areas, as well as the specialty, etc. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities and needs. There is no preconceived image of an ideal graduate except that he be competent and content in his career choice and that he be sufficiently well-prepared to adapt to the changes that will occur in the practice of medicine in the future. The program provides the student with certain fundamental concepts and skills that will allow him thoughtfully to explore and evaluate career possibilities. The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concept developed in the basic sciences. This approach to the interpretation of symptoms, signs and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the out-moded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value.

The depth to which each student pursues the pathophysiologic approach will vary from a study of the factors responsible for illness in a single patient, to an investigation of a disorder at a fundamental level. Clearly, this spirit of inquiry is essential to all areas of medicine. The program of the Department is designed to provide the challenges and opportunities to develop this quality.

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

## Second Year

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

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

**INTRODUCTORY MEDICINE.** A series of lectures which emphasize the pathophysiology of commonly observed disorders is given. Topics, such as anemia, shock and fever, are selected for their value in elaborating fundamental principles pertinent to many diseases.

**CLINICAL PATHOLOGY.** The student is instructed in the techniques of commonly used laboratory procedures to examine body fluids and excretions. Where applicable, the procedures are correlated with concurrent lectures and discussions in Introductory Medicine. The student is expected not only to acquire technical skill but also to acquire an appreciation of normal variations and the limitations and risks of various procedures.

**NEUROLOGY.** The techniques of the neurologic examination are presented in lectures and by patient examination. This study of the nervous system stresses the recognition and interpretation of signs and symptoms in pathophysiologic terms.

## Third Year

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

A separate four-week clerkship on the Neurology Service of The New York Hospital provides additional training in the diagnosis of diseases of the nervous system.

## Fourth Year

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

## 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

Donald W. Mackenzie, Assistant Professor of Microbiology

Elena I. Ottolenghi, Assistant Professor of Microbiology

Dieter H. Sussdorf, Assistant Professor of Microbiology

Research Associate:

Bent F. Vestergaard

Lecturer:

Irving Abrahams

Assistants:

Fran Auerbach

Constance Blaser

Peter B. Jahrling

June E. Kaiser

Laura D. Kramer

Neal A. Machtiger

Priscilla A. Schaffer

Anne Wolin

Marion M. Zatz

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower



intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles, involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and 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.

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

## Elective Courses

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

**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 physiochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites. Minimum prerequisites for credit are: general microbiology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

**ADVANCED IMMUNOLOGY.** Every second or third year. 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 techniques of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. 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 *vita*, and such experience might later be useful when qualifying for various board certifications. Similar honorary fellows at other medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

## NEUROLOGY

Fred Plum, Anne Parrish Titzell Professor of Neurology, Chairman  
Henry S. Dunning, Clinical Professor of Neurology  
Fletcher H. McDowell, Professor of Neurology

Gerald Klingon, Clinical Associate Professor of Neurology  
Henn Kutt, Associate Professor of Neurology  
Paul R. McHugh, Associate Professor of Neurology

Jerome B. Posner, Associate Professor of Neurology  
 Donald J. Reis, Associate Professor of Neurology  
 Donald J. Simons, Clinical Associate Professor of Neurology

Walter A. Camp, Clinical Assistant Professor of Neurology  
 Thomas Guthrie, Clinical Assistant Professor of Neurology  
 John E. Lee, Clinical Assistant Professor of Neurology  
 Robert Mones, Clinical Assistant Professor of Neurology  
 Hart deC. Peterson, Assistant Professor of Neurology

Instructors:

Robert Brennan

Mitsuhiko Miura

Marcus E. Raichle

Clinical Instructor:

Sydney Louis

Research Associate:

Helen Goodell

Fellows:

Gary Birnbaum

Sami Harik

Richard D. Sweet

Richard B. Carruthers

Madelyn Olson

Thomas Swift

Raymond H. Coll

Frank Petito

Akemi Takekoshi

Howard S. Emery

Kurt Sligar

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

## Second Year

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

## Third Year

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

## Elective Experiences

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

## OBSTETRICS AND GYNECOLOGY

Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman  
 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

Roy W. Bonsnes, Associate Professor of Biochemistry in Obstetrics and Gynecology  
 Myron I. Buchman, Clinical Associate Professor of Obstetrics and Gynecology  
 E. William Davis, Jr., Clinical Associate Professor of Obstetrics and Gynecology  
 Thomas F. Dillon, Clinical Associate Professor of Obstetrics and Gynecology  
 Hortense M. Gandy, Associate Professor of Endocrinology in Obstetrics and Gynecology  
 William P. Given, Clinical Associate Professor of Obstetrics and Gynecology  
 Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology  
 Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology  
 John L. Lewis, Jr., Associate Professor of Obstetrics and Gynecology  
 Stewart L. Marcus, Associate Professor of Obstetrics and Gynecology  
 Melville A. Platt, Clinical Associate Professor of Obstetrics and Gynecology  
 Richard A. Ruskin, Clinical Associate Professor of Obstetrics and Gynecology  
 Samuel F. Ryan, 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  
 Howard J. Tatum, Clinical Associate Professor of 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  
 Hector M. Cabot, Assistant Professor of Physiology in Obstetrics and Gynecology  
 John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology  
 Walter Freedman, Clinical Assistant Professor of Obstetrics and Gynecology  
 Robert C. Knapp, Clinical Assistant Professor of Obstetrics and Gynecology  
 Cyril K. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology  
 Frederick W. Martens, Clinical Assistant Professor of Obstetrics and Gynecology  
 Irwin R. Merkatz, Assistant Professor of Obstetrics and Gynecology  
 Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology  
 Gideon G. Panter, Clinical Assistant Professor of Obstetrics and Gynecology  
 John T. Queenan, Clinical Assistant Professor of Obstetrics and Gynecology  
 Selma Silagi, Assistant Professor of Genetics in Obstetrics and Gynecology  
 Frederick Silverman, Clinical Assistant Professor of Obstetrics and Gynecology  
 E. Fletcher Smith, Clinical Assistant Professor of Obstetrics and Gynecology  
 E. Thomas Steadman, Clinical Assistant Professor of Obstetrics and Gynecology  
 Robert E. Wieche, Clinical Assistant Professor of Obstetrics and Gynecology

### Instructors:

Alan M. Blank

Philip B. Mead

**Clinical Instructors:**

Naef K. Basile  
Charles H. Bippart  
Jerome H. Brander  
John D'Urso

Richard F. Hnat  
Robert Livingston  
Robert N. Melnick  
Myles C. Morrison

Virginia K. Pierce  
Jay B. Skelton  
William D. Walden  
Virginia Werden

**Research Associate:**

Anna-Riitta Fuchs

**Research Fellows:**

Weiyu Chen  
Fernando De La Rama

Antonio C. V. Lopes  
Alexander Neri

Karri K. Wichmann

**Fellows:**

Richard L. Berkowitz  
Jeffrey L. Brown  
Gerald D. Buckley  
Lars L. Cederquist  
James R. Farina  
Enrique C. Gadow  
Myron A. Hays

Richard P. Karoll  
Robert E. Kaye  
Niels H. Lauersen  
Jennifer R. Niebyl  
Richard A. Niles  
Austin M. Pattner  
Thomas A. Quetel

Joseph E. Ringland  
William H. Robischon  
Frederick W. Schweizer  
Arthur G. Shapiro  
G. Millard Simmons, Jr.  
Frank J. Zlatnik

## First Year

**INTRODUCTION TO BIOLOGY OF HUMAN REPRODUCTION.** During the last trimester, a series of eleven sessions is held for the entire first-year class as an introduction to the biology of human reproduction. The subjects in this lecture series include a review of reproductive physiology in the male and female, endocrinology of pregnancy, fetology, male and female infertility, family planning, and world population problems.

## Second Year

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

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

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

## Third Year

**INTRODUCTION TO PRACTICAL OBSTETRICS AND GYNECOLOGY.** Combines theoretical instruction with practical work in Obstetrics and Gynecology. Each student will study in the Lying-In Hospital for a period of seven to eight weeks. The first week will consist of daily lectures and

seminars covering the physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the genital organs.

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

Concomitant with this program, all students will attend the following sub-courses:

**COURSE I: OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY.** Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Mondays, 9 A.M. to 12 NOON.

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

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

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

## Fourth Year

A full program of fourth year electives is offered in the department, including advanced clinical training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in on-going laboratory research. These are listed and described in detail in the *Catalogue of Electives*.

## PATHOLOGY

John T. Ellis, Professor of Pathology, Chairman  
A. Whitley Branwood, Professor of Pathology  
Milton Helpert, Visiting Professor of Pathology  
Aaron Kellner, Clinical Professor of Pathology  
John G. Kidd, Professor of Pathology  
Robert C. Mellors, Professor of Pathology  
George E. Murphy, Professor of Pathology

Robert W. McDivitt, Associate Professor of Pathology  
Alfred M. Prince, Clinical Associate Professor of Pathology  
Charles A. Santos-Buch, Associate Professor of Pathology  
John E. Seybolt, Clinical Associate Professor of Pathology  
Leslie H. Sobin, Associate Professor of Pathology

Carl G. Becker, Assistant Professor of Pathology  
 Margaret H. S. Clements, Assistant Professor of Pathology  
 George F. Gray, Assistant Professor of Pathology  
 C. Richard Minick, Assistant Professor of Pathology  
 Carolyn W. Watson, Clinical Assistant Professor of Pathology

Instructors:

Daniel R. Alonzo	L. David Stacey, Jr.	Janet A. Mouradian
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Visiting Fellows:

L. Whittington Gorham	Andrew H. Littell
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Fellows:

Solange G. Abu-Nassar	Nadira Bandukwala	Yoon-Bok Jhee
Ramesh Anand	Eun-Sook Cho	Hydow Park
Thomas A. Angelo	Sharon deWit	Gurdip S. Sidhu

Assistant:

Charlotte Street

Lecturers:

Arthur S. Carlson	Theodore Robertson
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## 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, a very considerable amount of constantly changing gross material is available for student study.

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

**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; it then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systematic pathology including an introduction to neuropathology.

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

**NEUROPATHOLOGY.** The pathology of the nervous system is studied, and altered structure and function are correlated. 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  
Paul F. De Gara, Clinical Professor of Pediatrics (Allergy)  
John Edwards, Visiting Professor of Pediatrics (Genetics)  
Milton I. Levine, Clinical Professor of Pediatrics

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics  
Peter A. McF. Auld, Associate Professor of Pediatrics  
Charles H. Bauer, Clinical Associate Professor of Pediatrics  
Samuel R. Berenberg, Clinical Associate Professor of Pediatrics  
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, Clinical Associate Professor of Pediatrics (Genetics)  
Martin J. Glynn, Clinical Associate Professor of Pediatrics  
Henry P. Goldberg, Clinical Associate Professor of Pediatrics  
Herman Grossman, Associate Professor of Pediatrics (Radiology)  
James Q. Haralambie, Clinical Associate Professor of Pediatrics  
Edmund N. Joyner III, Clinical Associate Professor of Pediatrics  
Philip Lankowsky, Associate Professor of Pediatrics  
Florence Marshall, Clinical Associate Professor of Pediatrics  
Robert McGovern, Clinical Associate Professor of Pediatrics  
Virginia Mitty, Clinical Associate Professor of Pediatrics  
M. Lois Murphy, Associate Professor of Pediatrics  
Bertrand L. New, Clinical Associate Professor of Pediatrics (Psychiatry)  
Maria I. New, Associate Professor of Pediatrics  
S. Frank Redo, Clinical Associate Professor of Pediatrics (Surgery)  
John C. Ribble, Associate Professor of Pediatrics  
Lee Salk, Clinical Associate Professor of Pediatrics (Psychology)  
Maxwell Stillerman, Clinical Associate Professor of Pediatrics  
Myron Winick, Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics  
Richard R. Bass, Clinical Assistant Professor of Pediatrics  
Otto E. Billo, Clinical Assistant Professor of Pediatrics  
Mary Buchanan, Clinical Assistant Professor of Pediatrics  
Walter T. Carpenter, Clinical Assistant Professor of Pediatrics  
Benedict Caterinicchio, Clinical Assistant Professor of Pediatrics



Leon Charash, Clinical Assistant Professor of Pediatrics  
 Alan P. DeMayo, Clinical Assistant Professor of Pediatrics  
 Kathryn H. Ehlers, Assistant Professor of Pediatrics  
 Doris Goldberg, Clinical Assistant Professor of Pediatrics  
 Margaret T. Grossi, Assistant Professor of Pediatrics  
 Peter Hathaway, Assistant Professor of Pediatrics  
 Margaret C. Heagarty, Assistant Professor of Pediatrics  
 Margaret Hilgartner, Assistant Professor of Pediatrics  
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics  
 Aaron R. Levin, Assistant Professor of Pediatrics  
 Lenore S. Levine, Clinical Assistant Professor of Pediatrics  
 Wan Ngo Lim, Assistant Professor of Pediatrics  
 Luther B. Lowe, Jr., Assistant Professor of Pediatrics (Dermatology)  
 Marion McIlveen, Clinical Assistant Professor of Pediatrics  
 Karl Neumann, Clinical Assistant Professor of Pediatrics  
 Rebecca Notterman, Clinical Assistant Professor of Pediatrics  
 Hart deC. Peterson, Assistant Professor of Pediatrics (Neurology)  
 Olive Pitkin, Clinical Assistant Professor of Pediatrics  
 Virginia Pomeranz, Clinical Assistant Professor of Pediatrics  
 Sirgay Sanger, Assistant Professor of Pediatrics (Psychiatry)  
 Alfred L. Scherzer, Assistant Professor of Pediatrics  
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics  
 William T. Seed, Assistant Professor of Pediatrics  
 Michael Selzer, Clinical Assistant Professor of 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  
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

## Instructors:

Virginia C. Canale	Lawrence Helson	Norma W. Sternberg
Peter Farnsworth	Anthony Hirsch	Lisa Tallal
Irving Fish	Michael McCarthy	

## Clinical Instructors:

Peter Axel	Arthur F. Fost	Alberto Lacoious-
Marvin Boris	Diane B. Gareen	Petrucelli
Renee Brilliant	G. Gail Gardner	Irwin Rappaport
Joseph H. DiLeo	Phyllis Koteen	Reuben H. Reiman
Philip W. H. Eskes	Ruth D. Peters	Beatrice S. Slater
		Josef Soloway

## Research Associates:

Luisella C. Crippa	Belle Granich
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## Fellows:

Ved B. Bhardwaj	William Greenberg	Israel Rayman
Aaron Blum	Harry A. Hages	Quinn B. Rosefsky
Leslie Bullock	Peter Hope	Yashinori Sato
William Deely	Richard Judelsohn	Gerald Spielman
Mark Degnan	David Klain	Harvey Triebwasser
Robert Eilsofon	Frederic Kleinberg	Jan Wiggelinkhuizen
Judith Elliott	Alan Korostoff	Joyce Wolf
John J. Engel	Alfred Krauss	Mary Wong
Kunio Fujii	Roy Lieberman	Christine A. Zalesky
Angela C. Gilladoga	Teresa Procupez	

## Lecturers:

Virginia Apgar (Teratology)	David M. Levy (Child Psychiatry)
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**THIRD YEAR.** Thirty-five lectures throughout the school year present the subject of normal growth and development in infants and children, principles of genetics and nutrition, problems of the newborn infant, and disease in the pediatric age group. Students serve as clinical clerks on the pediatric pavilions, nurseries, and pediatric out-patient department of The New York Hospital. They are assigned to examine newly admitted patients in rotation and gain experience in diagnosis and management of sick children who require hospital residence, as well as children followed in the various out-patient clinics. Night and weekend rotations are scheduled on the pediatric and emergency pavilions. Special rounds and seminars are arranged for the clinical clerks; they also attend regular departmental conferences and rounds.

**FOURTH YEAR.** The students' activities are entirely elective. The department offers a variety of clinical pediatrics electives encompassing general and subspecialty clinic out-patient activities at The New York Hospital; and combined in-patient and out-patient activities at The New York Hospital, Hospital for Special Surgery, and Memorial Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis.

## PHARMACOLOGY

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

Amir Askari, Associate Professor of Pharmacology  
Raymond Houde, Associate Professor of Pharmacology

William T. Beaver, Assistant Professor of Pharmacology  
Walter W. Y. Chan, Assistant Professor of Pharmacology  
Arthur Hayes, Assistant Professor of Pharmacology  
Roberto Levi, Assistant Professor of Pharmacology  
Barrie Levitt, Assistant Professor of Pharmacology  
Michiko Okamoto, Assistant Professor of Pharmacology  
Arthur Raines, Assistant Professor of Pharmacology  
Alan Van Poznak, Assistant Professor of Pharmacology

### Research Associates:

Thomas Baker                      Srinivas Rao

### Research Fellows:

Haruhiko Sato                      Yung Jai Sohn

**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 systematically, 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 offered twice 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.

This course is offered during each module but will be given only if there are at least six students registered.

**CLINICAL PHARMACOLOGY.** Electives offer the student an opportunity to become acquainted with problems of the experimental design and conduct of controlled clinical drug trials. Present departmental programs in the clinic are concerned with (a) the assay and evaluation of analgesic drugs, and (b) the study of cardiovascular drugs, especially antiarrhythmic agents. Recommended time: 1 to 2 modules, half time.

**MEDICAL EDITING.** An experience is offered for one to three students to join in the activities of the editorial office of *Clinical Pharmacology and Therapeutics*, an official publication of the American Society for Pharmacology and Experimental Therapeutics. Students will participate in all aspects of the handling of manuscripts from their receipt to final disposition, including selection of referees, exchanges between reviewers and the editor, exchanges between the editor and author regarding suggestions for modifications made by referees, and the final editing processes involved in readying the manuscript for publication. Recommended time: 2 modules, part-time.

**RESEARCH.** Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. For detailed description of opportunities consult the *Catalogue of Electives*. In brief, special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system and biochemical aspects of pharmacology. Recommended time: to be arranged.

## PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman  
Roger L. Greif, Professor of Physiology

Harold G. Hempling, Associate Professor of Physiology  
Erich E. Windhager, Associate Professor of Physiology

## 98 PHYSIOLOGY AND BIOPHYSICS

Sulamita Balagura, Assistant Professor of Physiology  
Colin Fell, Assistant Professor of Physiology  
Lou Ann Pilkington, Assistant Professor of Physiology

### Research Associates:

Michael Wiederholt                      Fred S. Wright

### Research Fellows:

Raja N. Khuri                      Daniel J. O'Donovan  
Michael Kinney                      Tze Kong Young

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 department is fortunate in having 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 each 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 four-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, Barklie McKee Henry Professor of Psychiatry, Chairman  
 Barbara J. Betz, Professor of Psychiatry  
 Sanford Goldstone, Professor of Psychology in Psychiatry  
 Francis J. Hamilton, Clinical Professor of Psychiatry  
 William N. Schoenfeld, Clinical Professor of Psychology in Psychiatry  
 Richard A. Silberstein, Visiting Professor of Psychiatry  
 Otto A. Will, Jr., Clinical Professor of Psychiatry

Eric T. Carlson, Clinical Associate Professor of Psychiatry  
 James E. Daniells, Clinical Associate Professor of Psychiatry  
 Frederic F. Flach, Clinical Associate Professor of Psychiatry  
 Donald M. Hamilton, Clinical Associate Professor of Psychiatry  
 Lawrence J. Hatterer, Clinical Associate Professor of Psychiatry  
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine in Psychiatry  
 Ari Kiev, Clinical Associate Professor of Psychiatry (Social Psychiatry)  
 Richard N. Kohl, Associate Professor of Psychiatry  
 Edward Y. Liang, Clinical Associate Professor of Psychiatry  
 James F. Masterson, Jr., Clinical Associate Professor of Psychiatry  
 Robert S. McCully, Associate Professor of Psychology in Psychiatry  
 Paul R. McHugh, Associate Professor of Neurology in Psychiatry  
 Alan A. McLean, Clinical Associate Professor of Psychiatry  
 Thomas H. Meikle, Jr., Associate Professor of Neuroanatomy in Psychiatry  
 Bertrand L. New, Clinical Associate Professor of Psychiatry  
 Leon L. Rackow, Clinical Associate Professor of Psychiatry  
 Arthur K. Shapiro, Clinical Associate Professor of Psychiatry  
 Albert C. Sherwin, Clinical Associate Professor of Psychiatry  
 Peter E. Stokes, Associate Professor of Medicine in Psychiatry  
 Nathaniel Warner, Clinical Associate Professor of Psychiatry  
 Elliott L. Weitzman, Clinical Associate Professor of Psychiatry  
 Livingston Welch, Clinical Associate Professor of Psychology in Psychiatry

Arthur A. Anderson, Jr., Clinical Assistant Professor of Psychiatry  
 Jason Aronson, Clinical Assistant Professor of Psychiatry  
 Edmund A. Bashkin, Clinical Assistant Professor of Psychiatry  
 Thomas Beckett, Clinical Assistant Professor of Psychology in Psychiatry  
 Sheldon Blackman, Clinical Assistant Professor of Psychology in Psychiatry  
 Albert N. Browne-Mayers, Clinical Assistant Professor of Psychiatry  
 M. David Clayson, Assistant Professor of Psychology in Psychiatry  
 Harrison P. Eddy, Clinical Assistant Professor of Psychiatry  
 Bernard Fisher, Clinical Assistant Professor of Psychology in Psychiatry  
 Gerard Fountain, Clinical Assistant Professor of Psychiatry  
 Nicholas Freyberg, Clinical Assistant Professor of Psychology in Psychiatry  
 Lionel O. Friedman, Clinical Assistant Professor of Psychiatry  
 Myron L. Glucksman, Clinical Assistant Professor of Psychiatry

Stephen Goodyear, Clinical Assistant Professor of Psychiatry  
 Nelson M. Gray, Clinical Assistant Professor of Psychiatry  
 Thomas S. Harper, Clinical Assistant Professor of Psychiatry  
 Irving B. Harrison, Clinical Assistant Professor of Psychiatry  
 Thomas F. Henley, Clinical Assistant Professor of Psychiatry  
 Philip S. Herbert, Clinical Assistant Professor of Psychiatry  
 Peter T. Janulis, Clinical Assistant Professor of Psychiatry  
 A. Bradford Judd, Clinical Assistant Professor of Psychiatry  
 Francis D. Kane, Clinical Assistant Professor of Psychiatry  
 Marilyn G. Karmason, Clinical Assistant Professor of Psychiatry  
 Avraam T. Kazan, Clinical Assistant Professor of Psychiatry  
 M. Dorothea Kerr, 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  
 Allison B. Landolt, Clinical Assistant Professor of Psychiatry  
 Ludwig G. Laufer, Clinical Assistant Professor of Psychiatry  
 Robert E. Lee, Clinical Assistant Professor of Medicine in Psychiatry  
 Alfred B. Lewis, Jr., 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  
 Rene C. Mastrovito, Clinical Assistant Professor of Psychiatry  
 Lillian E. McGowan, Clinical Assistant Professor of Psychiatry  
 Robert A. McKinley, Assistant Professor of Psychiatry  
 William K. McKnight, Assistant Professor of Psychiatry  
 Michael Merbaum, Clinical Assistant Professor of Psychology in Psychiatry  
 Stanley T. Michael, Clinical Assistant Professor of Psychiatry  
 Harry H. Moorhead, Clinical Assistant Professor of Psychiatry  
 Jane F. O'Neil, Assistant Professor of Psychiatry  
 Edward L. Pinney, Jr., Clinical Assistant Professor of Psychiatry  
 Jacques M. Quen, Clinical Assistant Professor of Psychiatry  
 Fred V. Rockwell, Clinical Assistant Professor of Psychiatry  
 Sirgay Sanger, Clinical Assistant Professor of Psychiatry  
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry  
 Edward E. Seelye, Assistant Professor of Psychiatry  
 Michael A. Selzer, Clinical Assistant Professor of Psychiatry  
 Gerard P. Smith, Assistant Professor of Physiology in Psychiatry  
 David E. Sobel, Clinical 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  
 George Stricker, Clinical Assistant Professor of Psychology in Psychiatry  
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry  
 Bettina Warburg, Clinical Assistant Professor of Psychiatry  
 Porter H. Warren, 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. Yapalater, Clinical Assistant Professor of Psychiatry

## Instructors:

Lawrence A. Downs	Richard Rutkin
Walter J. Muller	Helen N. Siegrist

## Clinical Instructors:

Edward T. Adelson	Marvin B. Blitz	Remo R. Cerulli
Joseph Arcuri	James W. Brown	Edwin H. Church
Ralph D. Baker	Alexander Carlen	Howard N. Cooper
Harvey H. Barten	Robert S. Carson	Lois B. de Alvarado
James E. Baxter	Charles I. Celian	John R. Delaney

Mary V. Di Gangi  
 Thomas L. Doyle, Jr.  
 Samuel V. Dunkell  
 Stuart R. Edelson  
 Simon J. Epstein  
 G. Renee Ferguson  
 Theodore H. Finkle  
 Maria Freile Fleetwood  
 Daniel N. Hertz  
 George L. Hogben  
 David M. Hurst  
 Howard D. Kibel  
 Mary M. Knight  
 Henry J. Lefkowitz

Edna A. Lerner  
 Arnold S. Maerov  
 John F. McGrath  
 Herbert E. McGrew  
 Wayne E. Myers  
 Daniel J. O'Connell  
 Maurice Pachter  
 Esra Petursson  
 Robert B. Poundstone  
 Edwin R. Ranzenhofer  
 Martha K. Reese  
 David B. Robbins  
 Philip S. Robbins

George Samios  
 Jack G. Schoenholtz  
 George F. Simor  
 Max Spital  
 John B. Stadler  
 C. Neil Taylor  
 Sylvia G. Traube  
 Kenneth F. Tucker  
 Traer Van Allen  
 Morton L. Wadsworth  
 James R. Ware  
 Louis Weinstein  
 Alden E. Whitney

#### Research Associates:

A. Dale Console  
 Norman Dain

Robert Fried  
 Sam Korn

Thomas A. Loftus

#### Fellows:

Richard N. Besley  
 James J. Cadden  
 Arthur S. Campbell  
 Doo-Young Cho  
 William F. Crosby  
 Suzanne C. Draghi  
 Rudolph E. Ehrensing  
 Douglas R. Elliott  
 Roland J. Foraste

Lois B. Fuller  
 Francis J. Hamilton, Jr.  
 John O. Ives  
 Irving S. Kolin  
 Robert J. MacMurray  
 Doris B. Nagel  
 Michael J. Patton  
 Elmore F. Rigamer  
 George J. Roff

Herbert L. Rothman  
 Barry Selmanowitz  
 Robert L. Seward  
 Charles A. Shamoian  
 Penelope K. Sullivan  
 Agop Tashchian  
 Kenneth Van Roenn  
 Stanley Yarus  
 Anna Zagoloff

#### Research Fellows:

Hannah S. Decker  
 Milton D. Hassol

Stephen R. Kern  
 Meribeth Simpson

#### Research Assistant:

Myrtle Guy

The Department of Psychiatry offers instruction and electives 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 to psychiatric disorders and the methods of their examination and study. In the third year this preliminary training is utilized in the study of both in- and out-patients of the Payne Whitney Psychiatric Clinic. In addition, field trips are offered to a community mental health center, a drug addiction center, a state hospital, and the Westchester Division of The New York Hospital. In the fourth year numerous electives are offered. The importance of personality problems in general medicine is taught in the pavilions of The New York Hospital.

**FIRST YEAR: 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 are provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 22.

**SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION.** The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the out-patient

department of the Payne Whitney Psychiatric Clinic. The course offers practical experience in interviewing, history taking, and in the methods of psychiatric examination. Total hours, 33.

**THIRD YEAR: CLINICAL PSYCHIATRY.** Groups of seven to eight students rotate through the in- and out-patient services of the Payne Whitney Psychiatric Clinic four days a week for four-week periods. One day per week is devoted to a field trip to other psychiatric facilities. Students examine and work up in-patients and, in addition, have the opportunity to examine out-patients. The program includes a series of lectures, seminars, case presentations, and four afternoons in the Division of Child Psychiatry.

**FOURTH YEAR: ELECTIVES.** During the fourth year the following electives are offered: A clinical clerkship in the psychiatric in-patient department, clinical experience in the psychiatric out-patient department, research in child psychiatry, social psychiatry, metabolic psychiatry, the history of psychiatry, psychochemotherapy, and audiovisual teaching.

## PUBLIC HEALTH

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

Kenneth G. Johnson, Associate Professor of Public Health  
Jerome L. Schulman, Associate Professor of Public Health

Samuel L. Berenberg, Clinical Assistant Professor of Public Health  
Aaron D. Chaves, Clinical Assistant Professor of Public Health  
August H. Groeschel, 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  
David Schottenfeld, Assistant Professor of Public Health  
Ichiro Toida, Visiting Assistant Professor of Public Health  
Katsuhiko Yano, Assistant Professor of Public Health

### Clinical Instructors:

Gladys L. Hobby William H. Loery

### Research Associates:

Koichiro Maeno Isabel Mountain Julia T. Weld  
Jeanne F. Magagna Joseph Mountain

### Research Fellow:

Francis A. Ennis

### Visiting Lecturers in Biometrics:

George Condouris John C. Seed

The teaching aim of the Department of Public Health is to help increase the student's understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. This is the base for the different "way of looking at things" of the managerial physician who goes to the same total pool of biomedical science and technology as is used by the clinical physician, but who extracts from it by indirect ways quite different elements for application to the disease problems of a whole



community. The existence and potentialities of this "other" way of using biomedical science and technology for the control of disease must be known and comprehended by all physicians. For all patients are under these two medical influences at once—that of the clinical physician and that of the managerial physician. To a considerable extent the teaching of this aspect of medicine involves identification of both the 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 apply the knowledge derived from the basic medical sciences and from clinical medicine to the understanding of the emerging disease problems of the day and to the possible ways they can be modified through either the clinical or the managerial systems.

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

**SECOND YEAR: EPIDEMIOLOGY I AND II.** The first course is an introduction to the study of disease and its determinants in a community. During the first part of the course, special emphasis will be placed on the design of epidemiologic studies, testing the significance of observed results by appropriate statistical means. Throughout the first trimester, each Thursday afternoon, a lecture will be given from 3-4 P.M., followed by a laboratory exercise from 4-5 P.M. Each Saturday morning from 9-10 A.M. lectures in computer science and in bioassay methodology will be given.

In the third trimester a series of lectures, given each Wednesday morning, 9-10 A.M., will be devoted to the epidemiology of *specific* infections and chronic diseases. Total hours, 44.

**SECOND YEAR: PARASITOLOGY.** The principal emphasis in this course is on 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 microscopic 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 main avenues for the study of diseases in man-clinical medicine and epidemiology. The important larger parasites of man are considered; the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Wednesday, and Friday afternoon during the latter part 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.

**THIRD YEAR.** The course 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 clear medical import which may be expected to represent major problems related 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, 45 hours; total morning clinics, 30 hours.

**FOURTH YEAR.** The teaching program is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. The principal emphasis is on more advanced epidemiologic studies of diseases of importance to clinicians. Dr. Jerome L. Schulman presides over these exercises. 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  
Giulio D'Angio, Professor of Radiology  
Robert S. Sherman, Clinical Professor of Radiology  
Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology  
Robert H. Freiburger, Associate Professor of Radiology  
Herman Grossman, Associate Professor of Radiology  
Zuheir Mujahed, Clinical Associate Professor of Radiology  
Nathan Poker, Clinical Associate Professor of Radiology  
D. Gordon Potts, Associate Professor of Radiology

Ina R. Altman, Assistant Professor of Radiology  
David G. Bragg, Assistant Professor of Radiology  
Florence Chien Hwa-Chu, Clinical Assistant Professor of Radiology  
F. Mitchell Cummins, Clinical Assistant Professor of Radiology  
Michael Deck, Assistant Professor of Radiology  
Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)  
Richard G. Evans, Assistant Professor of Radiology (Physics)  
Richard Fleming, Assistant Professor of Radiology  
Elizabeth Focht, Assistant Professor of Radiology (Physics)  
Basil S. Hilaris, Clinical Assistant Professor of Radiology  
Seymour Hopfan, Clinical Assistant Professor of Radiology  
James Hurley, Assistant Professor of Radiology  
Paul Killoran, Assistant Professor of Radiology  
Myron Nobler, Clinical Assistant Professor of Radiology  
Eladio Nunez, Assistant Professor of Radiology  
Raymond Pope, Assistant Professor of Radiology (Physics)  
Plinio Rossi, 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  
George Stassa, Assistant Professor of Radiology

Harry L. Stein, Clinical Assistant Professor of Radiology  
 Robin C. Watson, Assistant Professor of Radiology  
 Stephen White, Clinical Assistant Professor of Radiology  
 Patricia H. Winchester, Assistant Professor of Radiology

Instructors:

Alan Baker	Peter E. Dobrowolski	Joseph M. Murphy
Stephen Balter	Saad Hasan	Melvin J. Myers
Waltraud-Gisela Blasberg	J. Garrett Holt	Robert M. Ryan
John Cavallari		

Clinical Instructors:

James Marquis	Richard C. Packert	Samuel Phillips
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Fellows:

Mahoto Furuya	Jeremy Kaye	Paul Myerson
Kenneth Gorske	Barry Loigman	Jay Protass

The teaching of radiology extends through all of the four academic years. It is conducted by didactic lectures, demonstrations, conferences with small groups in connection with clinical clerkships, and presentations of the radiologic manifestations of disease at the regular conferences of the clinical departments and by a variety of elective courses.

During the first year, in collaboration with the Department of Anatomy, carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with the dissection sessions in gross anatomy. The use of radiographs enhance the student's understanding of anatomical details, and can provide him with a clearer perspective of important anatomical relationships. In the last trimester of the first year, Radiology participates in a multidisciplinary course in radiobiology.

In the second year during the course in physical diagnosis, several hours are devoted to radiologic examination of the heart, lungs, and abdomen.

The third year students receive twenty hours of didactic lectures mainly on selected areas of roentgen diagnosis, roentgen therapy and radiation protection.

The fourth year student has available a wide range of elective subjects in diagnostic radiology, nuclear medicine, and radiation therapy. He may select a program at the New York Hospital, Memorial Hospital, the Hospital for Special Surgery, or a program that involves all three institutions. A clinical clerkship type of elective in radiation therapy is also available at the Memorial Hospital.

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.

Five floors of the L Building comprise the main Radiology Department. A large diagnostic section is located in the Dr. Connie Guion out-patient building adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, Urology Clinic, and in the Payne Whitney Psychiatric Hospital.

The Firestone Radiation Therapy Center at Memorial Hospital provides the latest clinical facilities for radiation therapy as well as ample space for teaching and research. Modern and well equipped diagnostic radiology services are also located in the Memorial Hospital and the Hospital for Special Surgery.

New diagnostic radiology research facilities are located on the sixth and seventh floors of the William Hale Harkness Research Building.

## SURGERY

C. Walton Lillehei, Lewis Atterbury Stimson Professor of Surgery, Chairman

William A. Barnes, Clinical Professor of Surgery

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

Herbert Conway, Clinical Professor of Surgery (Plastic Surgery)

William Cooper, Clinical Professor of Surgery (Orthopedics)

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

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

Cranston W. Holman, Clinical Professor of Surgery

Victor F. Marshall, Professor of Surgery (Urology)

John M. McLean, Professor of Surgery (Ophthalmology)

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

S. W. Moore, Professor of Surgery

Sten-Erik Olsson, 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)

Björn Thorbjarnarson, Clinical Professor of Surgery

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

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

Peter Dineen, Clinical Associate Professor of Surgery

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

John H. Eckel, Clinical Associate Professor of Surgery

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

David W. Furnas, Clinical Associate Professor of Surgery (Plastic Surgery)

Henry Gans, Associate Professor of Surgery

Helena Gilder, Associate Professor of Surgery (Biochemistry)

Edward I. Goldsmith, Clinical Associate Professor of Surgery

Dicran Goulian, Jr., Clinical Associate Professor of Surgery (Plastic Surgery)

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

Peter M. Guida, Clinical Associate Professor of Surgery

George R. Holswade, Clinical Associate Professor of Surgery

Allan E. Inglis, Clinical Associate Professor of Surgery (Orthopedics)

Bernard Jacobs, Clinical Associate Professor of Surgery (Orthopedics)

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

Robert W. McDivitt, Associate Professor of Pathology in Surgery

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

Laurence Miscall, Clinical Associate Professor of Surgery

James A. Nicholas, Clinical Associate Professor of Surgery (Orthopedics)

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

Arthur J. Okinaka, Clinical Associate Professor of Surgery

Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)

Russel H. Patterson, Jr., Associate Professor of Surgery (Neurosurgery)

S. Frank Redo, Clinical Associate Professor of Surgery

Paul A. Skudder, Clinical Associate Professor of Surgery

George E. Wantz, Clinical Associate Professor of Surgery

John P. West, Clinical Associate Professor of Surgery

John C. Whitsell II, Clinical Associate Professor of Surgery

Harlan C. Amstutz, Clinical Assistant Professor of Surgery (Orthopedics)

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

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

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

Richard M. Bergland, Assistant Professor of Surgery (Neurosurgery)

Jack H. Bloch, Assistant Professor of Surgery

Raymond C. Bonnabeau, Jr., Assistant Professor of Surgery

Paul W. Braunstein, Clinical Assistant Professor of Surgery  
 Stuart I. Brown, Clinical Assistant Professor of Surgery (Ophthalmology)  
 George N. Cornell, Assistant Professor of Surgery  
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)  
 J. Edwin Drew, Clinical Assistant Professor of Surgery (Urology)  
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)  
 Hollow W. Farr, Clinical Assistant Professor of Surgery  
 Hilliard E. Firschein, Assistant Professor of Biochemistry in Surgery (Orthopedics)  
 Harold Genvert, Clinical Assistant Professor of Surgery  
 William R. Grafe, Jr., Clinical Assistant Professor of Surgery  
 José Luis Granda, Assistant Professor of Biochemistry in Surgery (Orthopedics)  
 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)  
 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 (Orthopedics)  
 Eugene M. Lance, Assistant Professor of Surgery (Orthopedics)  
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)  
 David B. Levine, Clinical Assistant Professor of Surgery (Orthopedics)  
 Harvey A. Lincoff, Clinical Assistant Professor of Surgery (Ophthalmology)  
 Lars Lindberg, Visiting Assistant Professor of Surgery (Orthopedics)  
 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  
 Edward C. Muecke, Clinical Assistant Professor of Surgery (Urology)  
 George C. Mueller, Clinical Assistant Professor of Surgery (Otolaryngology)  
 Walter L. Peretz, Clinical Assistant Professor of Surgery (Ophthalmology)  
 Donald M. Shafer, Clinical Assistant Professor of Surgery (Ophthalmology)  
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic Surgery)  
 Stuart S. Snyder, Clinical Assistant Professor of Surgery (Ophthalmology)  
 John R. Williams, Clinical Assistant Professor of Surgery (Otolaryngology)

#### Instructors:

Donald W. Abel	Brent J. Holleran	Chitranjan S. Ranawat
James W. Asaph	Robert L. Kaster	Michael F. Rodi
Walther H. O-S. Bohne	Tomihisa Koshino	Thomas J. Schulz
Robert G. Carlson	Peter L. Laino	Robert P. Sengelmann
Armand F. Cortese	Ferdinand Lavenuta	William T. Stubenbord
Alfredo Czerniecki	Hong Kun Lee	Richard B. Welch
Robert L. Diaz	Thomas H. Milhorat	Kuhrt Wieneke, Jr.
William F. Flynn	Terry O. Miller	Robert L. Wilson
John S. Glenn	Jean Paul Perrault	

#### Clinical Instructors:

Samuel Avnet	Wade Duley	Alfred J. Nadel
Howard D. Balensweig	Richard G. Eaton	John G. Ogilvie
Mitchell Brice II	Milton Gabel	Earl A. O'Neill
Michael Browne	Robert A. Goldstone	Richard H. Raskind
Anthony Camarda	Suzanne A. L. Howe	Thomas D. Rizzo
Thomas I. Carey	John N. Insall	Leon Root
Robert L. Clarke	Jerome Lawrence	John H. Seward
Merrill S. Climo	Alfred E. Mamelok	David S. Speer
Edward C. Coats	Peter J. Marchisello	John F. Struve
Elizabeth F. Constantine	Mary H. Markham	William S. Tunner
Rudolph C. Dangelmajer	Joseph B. Mason	Konstantin P. Veliskakis
Robert D. Deans	David R. McKee	Philip H. Zweifach

#### Research Associate:

Ronald W. Gillette

## Research Fellows:

Shinobu Akiya  
Robert D. Deitch  
Serge J. Dos

Tatsuo Hirose  
Nils H. Kasström  
Kazuo Kawasaki

Hiroshi Nakamura  
Ryosho Nakamura  
Valavanur A. Subramanian

## Fellows:

Edgar R. Anderson, Jr.  
John M. Aronian  
John M. Aversa  
Frank R. Barta, Jr.  
Jerome S. Berkowitz  
Robert B. Cameron  
Stephen E. Carney  
Sheldon Cohen  
John W. Coleman  
James J. Crossley  
Christopher J. Daly  
Joseph C. DeFiore, Jr.  
Michael W. Dunn  
Robert J. Ellis  
Robert S. Ennis  
Ihsan Erdamar  
William J. Fisher  
Paul F. Fitzgerald  
David F. Flanagan  
Stephen R. Geller  
Victor M. Goldberg  
Daniel A. Goor

Mary K. Hammock  
Nicholas G. Herr  
Julian T. Hoff  
Joseph I. Hoffman  
Krzysztof Krawczynski  
Arnold Landé  
Mark A. Lieberman  
Walter J. Loehr  
Rodger H. Lofland  
John C. McCabe  
Michael D. McCusker  
Irvine G. McQuarrie  
Craig A. Mehlau  
Brian G. Miscall  
Gerald J. Monchik  
Holland V. Moore  
William P. O'Grady  
John M. Parsons  
Herbert S. Perry  
Robert A. Pezzulich  
Andrew G. Pichler

Anthony J. Presto III  
William Rassman  
J. Richard Rees  
David M. Richter  
Sergio M. Sanchez  
Robert G. Schwager  
Bruce S. Selden  
Gad Shtacher  
Garry L. Smith  
Jacqueline J. Struthers  
John B. Thompson, Jr.  
Richard N. Tiedemann  
Garrett R. Tucker III  
Robert S. Waldbaum  
Herbert E. Wassermann  
William A. White  
Stephen F. Winer  
Dennis W. Wise  
Steven I. Woodrow  
Henry C. C. Yu  
F. Darwin Zahn

## Research Assistant:

Frederick G. Sumner II

## Assistant:

Stephanie Sanfilippo

## MEMORIAL HOSPITAL

Edward J. Beattie, Jr., Professor of Surgery, Chairman  
Willet F. Whitmore, Jr., Clinical Professor of Surgery (Urology)

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  
Harry Grabstald, Associate Professor of Surgery (Urology)  
Theodore R. Miller, Clinical Associate Professor of Surgery  
John L. Pool, Clinical Associate Professor of Surgery  
Reuven K. Snyderman, Clinical Associate Professor of Surgery (Plastic Surgery)  
Jerome A. Urban, Clinical Associate Professor of Surgery

Robert J. Booher, Clinical Assistant Professor of Surgery  
Lemuel Bowden, Clinical Assistant Professor of Surgery  
Richard D. Brasfield, Clinical Assistant Professor of Surgery  
Daniel Catlin, Clinical Assistant Professor of Surgery  
Donald G. C. Clark, Clinical Assistant Professor of Surgery  
Taposh Kumar Das Gupta, Assistant Professor of Surgery  
Harry S. Goldsmith, 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  
 Guy Robbins, Clinical Assistant Professor of Surgery  
 Maus Stearns, Jr., Clinical Assistant Professor of Surgery  
 Elliot W. Strong, Clinical Assistant Professor of Surgery  
 H. Randall Tollefsen, Clinical Assistant Professor of Surgery

**Instructor:**

Nael Martini

**Clinical Instructors:**

Myron Arlen  
 Angelo DePalo  
 Alfred A. Fracchia  
 Frank P. Gerold  
 John T. Goodner

Charles C. Harrold, Jr.  
 Ralph E. L. Hertz  
 John C. Lucas  
 A. Ranald Mackenzie  
 Oliver S. Moore

Michael A. Paglia  
 Elisabeth P. Pickett  
 Stuart Quan  
 Horace W. Whiteley, Jr.

**Fellows:**

Yehuda G. Adam  
 Luis A. Algarra  
 Hiroyuki Ashikari  
 Joseph R. Barrie  
 Sheldon C. Binder  
 Carl D. Brannan

Celso M. Carandang  
 Gabriel F. de Freitas  
 Ali A. El-Domeiri  
 W. Philip E. Exelby  
 William H. Knapper

Jorge Monroy  
 Thomas E. Murphy  
 Moustapha M. Rifai  
 Suheil F. Siman  
 Alan D. Turnbull

## 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.

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

**THIRD YEAR.** The new curriculum that went into effect in 1967 provides a core program of clinical teaching and experience in surgery to all students during 11 or 12 week periods of the third year. This consolidates all the didactic and clinical teaching that previously was distributed through the third and fourth years, and leaves the fourth year for elective studies which the student might want to undertake.

In the third year curriculum one hour, on Wednesday mornings from 8 to 9 provides lectures on surgery and its subspecialties. These lectures for the entire class are given by the department chairman and the chiefs of the subspecialties of their immediate associates.

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

observed 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 evaluate therapy of the ambulatory patients.

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

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. 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 for 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 an understanding of the source of surgical patients, but it also affords an opportunity for him to see what surgical therapy may accomplish. In addition, the student has the chance to observe the occasional post-operative complications in the following-up clinics where patients return following surgery that has been performed within the hospital.

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

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

**GRAND ROUNDS.** From 9 to 10:30 A.M. on Saturdays 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 out-patient clinics are closed—from 5 P.M. to 9 A.M. Monday through Friday and over the weekend. Seeing the wide range of conditions requiring emergency is a valuable experience for the clinical clerk.



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

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

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

## 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.

## FEEES

MATRICULATION FEE: \$10

ADMINISTRATION 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>
<b>ANATOMY:</b>					
Gross Anatomy .....	246	...	...	...	...
Microscopic Anatomy .....	165	...	...	...	...
Neuroanatomy .....	84	...	...	...	...
Developmental Anatomy and Genetics	77	...	...	...	572
<b>BIOCHEMISTRY .....</b>					
220	...	...	...	...	220
<b>MICROBIOLOGY AND IMMUNOLOGY .....</b>					
165	...	...	...	...	165
<b>PHYSIOLOGY .....</b>					
231	...	...	...	...	231
<b>RADIOBIOLOGY .....</b>					
11	...	...	...	...	11
<b>PATHOLOGY .....</b>					
297	...	...	...	...	297
<b>PHARMACOLOGY .....</b>					
154	...	...	...	...	154
<b>PHYSICAL DIAGNOSIS* .....</b>					
129	...	...	...	...	129
<b>MEDICINE:</b>					
Clinical Pathology and Introductory					
Medicine .....	...	80	...	...	...
Specialties, Clerkship, and OPD ....	...	...	385	...	...
Lectures .....	...	...	45	...	510
<b>SURGERY:</b>					
Specialties, Clerkship, and OPD ....	...	...	385	...	...
Lectures .....	...	...	45	...	430
<b>OBSTETRICS AND GYNECOLOGY:</b>					
Practical Instruction .....	...	...	280	...	...
Lectures .....	11	...	35	...	326
<b>PEDIATRICS:</b>					
Practical Instruction .....	...	...	280	...	...
Lectures .....	11	...	35	...	326
<b>PSYCHIATRY:</b>					
Medical Aspects of Human Behavior	22	...	...	...	...
Psychiatry .....	...	33	136	...	...
Behavioral Science .....	11	...	...	...	202
<b>PUBLIC HEALTH:</b>					
Parasitology .....	...	33	...	...	...
Field and Section .....	...	...	36	...	...
Lectures .....	...	11	30	...	...
<b>BIOMETRICS .....</b>					
33	...	...	...	...	...
<b>RADIOLOGY .....</b>					
20	...	...	...	...	...
<b>NEUROLOGY:</b>					
Lectures .....	...	11	15	...	...
Clinical Hours .....	...	33	140	...	...
<b>ELECTIVES HOURS .....</b>					
1225	...	...	...	1225	1225
Totals .....	1089	979	1867	1225	4798

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

# FIRST-YEAR SCHEDULE 1968-69

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

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Physiology	
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy	Gross Anatomy	
11-12						
12-1	Lunch	Lunch		Lunch	Lunch	
1-2	Physiology	Gross Anatomy	Lunch	Radiobiology	Gross Anatomy	
2-3	Gross Anatomy		Phys. Conf.	Psychiatry		
3-4			Psychiatry	Free		
4-5			Free			

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Phys. Conf.	Dev. & Gen.	Biochemistry	Phys. Conf.	Physiology	
10-11	Biochemistry	Physiology		Physiology	Biochemistry	
11-12						
12-1						
1-2	Lunch	Lunch	Lunch	Lunch	Lunch	
2-3	Biochemistry	Physiology	Dev. & Gen.	Physiology	Dev. & Gen.	
3-4			Dev. & Gen.			
4-5			Free			

\* Multidepartmental course.

## SECOND-YEAR SCHEDULE

### 1968-69

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

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

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

1968-69

		12 weeks	11 weeks		7 weeks		7 weeks		8 weeks		SECTION I:	
SECTION I:		Med.	Surg.	VACATION		Ob.	VACATION	Neurol., Psych., & Pub. Health		Ped.	Div. C	
Div. A						Ped.		Ob.		Neurol., Psych., & Pub. Health	Div. D	
Div. B						Surg.		Med.	Ped.		Ob.	Div. E
SECTION II:				CHRISTMAS				SPRING			SECTION II:	
Div. C		Ob.	Neurol., Psych., & Pub. Health			Ped.	Med.		Surg.		Div. A	
Div. D		Ped.	Ob.			Neurol., Psych., & Pub. Health			Div. B			
Div. E		Neurol., Psych., & Pub. Health	Ped.	Ob.	Surg.							
		8 weeks	8 weeks	7 weeks		11 weeks		11 weeks				

FOURTH-YEAR SCHEDULE  
1968-69

## Elective Modules

A	September 3-October 27	(8 weeks)
B	October 28-December 21	(8 weeks)
C	January 6-February 23	(7 weeks)
D	February 24-April 13	(7 weeks)
E	April 14-May 28	(6½ weeks)

## 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*.

### DIVISION OF BIOMATHEMATICS

The Field of Biomathematics is supported jointly by the Medical College and the Sloan-Kettering Institute.

Sol I. Rubinow, Professor of Biomathematics, Chairman

Hirsh G. Cohen, Visiting Professor of Biomathematics

Joel L. Lebowitz, Visiting Professor of Biomathematics

Betty J. Flehinger, Visiting Associate Professor of Biomathematics

Richard P. Kelisky, Visiting Associate Professor of Biomathematics

Evelyn F. Keller, Assistant Professor of Biomathematics

Aubrey Rotenberg, Assistant Professor of Biomathematics

Tai Te Wu, Assistant Professor of Biomathematics

Research Associate:

Bruce W. Knight

Research Fellows:

Daniel A. Bloch

Valerie Miké

The Division of Biomathematics offers a wide range of opportunities for the development of quantitative methods in the biological and medical sciences, with special emphasis on the application of mathematics and the utilization of automatic computers. Graduate study programs leading to advanced degrees in the Fields of Biomathematics and Biostatistics are available to students whose primary interests are mathematical, but who wish to concentrate on biological or medical applications.

Graduate students in the Field of Biomathematics are required to obtain thorough training in linear algebra, complex variables, and partial differential equations and boundary value problems. Students in the Field of Biostatistics are required to obtain thorough training in probability theory and fundamentals of statistical inference. In addition to other courses, an appropriate plan of study in the relevant aspects of biology, chemistry, physics, and medicine will be made to suit the particular area of application of the individual student. Some typical research areas in Biomathematics are biological and chemical kinetics, biophysics, molecular biology, and physiological systems. Some typical research areas in Biostatistics are differential diagnosis, nerve impulse transmission, planning of clinical trials, storage and retrieval of medical information, and surveillance programs.

Special opportunities are also available for research at the postdoctoral level. While postdoctoral fellows should have a high degree of competence in the basic skills of biomathematics or biostatistics, they need not necessarily be professional mathematicians.

## 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, 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

Harold W. Fisher

John M. Walker

### REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Harold W. Fisher

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

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

Saul Green, Associate Professor of Biochemistry  
 Jerome S. Nisselbaum, Associate Professor of Biochemistry  
 Morton K. Schwartz, Associate Professor of Biochemistry

Nancy W. Alcock, Assistant Professor of Biochemistry  
 Ellen Borenfreund, Assistant Professor of Biochemistry  
 John D. Fissekis, 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  
 James C. Parham II, 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  
 Norbert I. Swislocki, Assistant Professor of Biochemistry  
 Thomas E. Wagner, Assistant Professor of Biochemistry

### Instructors:

Martin Fleisher                      Edward D. Lash

Intensive study is offered in the fields of enzymology, bioorganic chemistry, molecular biology, metabolism of proteins and nucleic acids, and biochemistry of protein hormones.

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

Dorris J. Hutchison, Associate Professor of Microbiology, Chairman  
 Gilbert Dalldorf, Professor of Pathology, Emeritus  
 Frank W. Foote, Jr., Professor of Pathology  
 Frank L. Horsfall, Jr., Professor of Microbiology  
 Frederick S. Philips, Professor of Pharmacology  
 F. Kingsley Sanders, Professor of Cell Biology  
 Fred W. Stewart, Professor of Pathology, Emeritus

Edward A. Boyse, Associate Professor of Biology  
 Etienne de Harven, Associate Professor of Biology  
 Jørgen F. Fogh, Associate Professor of Microbiology  
 Peter J. Gomatos, Associate Professor of Microbiology  
 Leopold G. Koss, Associate Professor of Pathology  
 Alice E. Moore, Associate Professor of Biology  
 Lloyd J. Old, Associate Professor of Biology  
 H. Christine Reilly, Associate Professor of Microbiology  
 Francis M. Sirotnak, 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

Alberta M. Albrecht, Assistant Professor of Microbiology  
 June L. Biedler, Assistant Professor of Biology  
 Edward S. Essner, Assistant Professor of Biology  
 Wilbur F. Noyes III, Assistant Professor of Biology  
 Herbert F. Oettgen, Assistant Professor of Biology  
 Morris N. Teller, Assistant Professor of Biology

### Instructors:

James G. Cappuccino      Elaine G. Diacumakos

The program in Biology is oriented toward an understanding of factors which initiate, control, and modify growth and biological development. Opportunity is offered for advanced work and research in cytology, genetics, virology, immunology, microbiology, endocrinology, and pharmacology.

Undergraduate prerequisites for a major in Biology include courses in inorganic chemistry, organic chemistry, qualitative and quantitative chemistry, physical chemistry, physics (mechanics, electricity, and magnetism; sound, heat, and light), mathematics (through calculus), and general biology or zoology or botany. If any of these requirements are not completed at the undergraduate level, they must be completed during the first year of graduate study.

Programs are determined individually on the basis of interest, training, and prior experience. Elective courses in basic medical sciences include those described for the Medical College. Formal graduate courses, seminars, and tutorials are arranged with the faculties of the Sloan-Kettering Division of the Medical College.

## BIOPHYSICS

John S. Laughlin, Professor of Biophysics

Edward R. Epp, Associate Professor of Biophysics, Chairman  
 Helen Q. Woodard, Associate Professor of Biophysics

Jerrold Fried, Assistant Professor of Biophysics  
Harold Moroson, Assistant Professor of Biophysics  
Ira Pullman, Assistant Professor of Biophysics  
Roy S. Tilbury, Assistant Professor of Biophysics  
Louis Zeitz, Assistant Professor of Biophysics

Instructor:

Peter J. Kenney

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 Memorial Sloan-Kettering 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 1968

Ambinder, Edward P.	Med. <sup>1</sup>	Mt. Sinai Hospital, New York, N.Y.
Anderson, Arnold E.	Med.	Peter Bent Brigham Hospital, Boston, Mass.
Applestein, Jeffrey M.	Med.	University of Washington Affiliated Hospitals, Seattle, Wash.
Arcuni, Oreste J.	Surg.	The New York Hospital, New York, N.Y.
Balis, Michael S.	Med.	University of California, San Francisco, Calif.
Barnes, John E.	Rot.	University of Oregon Hospitals, Portland, Ore.
Barritt, A. Sidney III	Med.	University of Virginia, Charlottesville, Va.
Bates, Paul E.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Battista, Joseph V., Jr.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Bedford, Robert F.	Med.	Virginia Mason Hospital, Seattle, Wash.
Berkowitz, George E.	Med.	Memorial Hospital, New York; North Shore Hospital, Manhasset, N.Y.
Bird, Thomas D.	Rot.	University of Washington Hospitals, Seattle, Wash.
Brockman, William W.	Med.	Baltimore City Hospitals, Baltimore, Md.
Brown, Stuart T.	Med.	Presbyterian-University of Pennsylvania Medical Center, Philadelphia, Pa.
Calder, David H.	Rot.	San Francisco General Hospital, San Francisco, Calif.
Carlson, Gabrielle A.	Med.	Jewish Hospital, St. Louis, Mo.
Carlson, Harold E.	Med.	Barnes Hospital, St. Louis, Mo.
Chisari, Francis V.	Med.	Cornell University Hospitals, New York, N.Y.
Cohen, Arlan A.	Med.	University of Washington Affiliated Hospitals, Seattle, Wash.
Cooper, George IV	Med.	University Hospitals, Cleveland, Ohio
Copeland, Lois J.	Med.	Cornell University Hospitals, New York, N.Y.
Coscia, Anthony G.	Med.	Cornell University Hospitals, New York, N.Y.
Daly, John T.	Path.	Duke Hospital, Durham, N.C.
Dressner, Steven A.	Surg.	The New York Hospital, New York, N.Y.
Ekong, Enobong A.	Med.	Boston City Hospital, Boston Univ. Div., Boston, Mass.
Feldman, Howard L.	Surg.	University of Pennsylvania Hospital, Philadelphia, Pa.
Feldmann, John E.	Med.	Cornell University Hospitals, New York, N.Y.
Goldstein, Paul R.	Med.	Boston City Hospital, Tufts Div., Boston, Mass.
Goodman, Edward L.	Med.	Parkland Memorial Hospital, Dallas, Tex.
Graff, Jerold B.	Med.	Cornell, North Shore, Memorial, N.Y.
Greene, David	Med.	Los Angeles County General Hospital, Los Angeles, Calif.
Gyves, Michael T.	Rot.	Degoesbriand Memorial Hospital, Burlington, Vt.
Haddock, James B.	Med.	Rochester General Hospital, Rochester, N.Y.
Hands, Robert A., Jr.	Ped.	Presbyterian Hospital, New York, N.Y.
Hensle, Terry W.	Surg.	Boston City Hospital, Harvard Div., Boston, Mass.
Herwick, Robert P., Jr.	Rot.	Children's Hospital, San Francisco, Calif.
Heumann, Sidney	Rot.	Southern Pacific Memorial Hospital, San Francisco, Calif.
Holden, Stuart	Surg.	The New York Hospital, New York, N.Y.
Horowitz, Alfred L.	Med.	Memorial Hospital, New York; North Shore Hospital, Manhasset, N.Y.
Hoyt, Creig S.	Med.	Stanford University Affiliated Hospitals, Palo Alto, Calif.
Jaffe, Stephen L.	Med.	University of Virginia, Charlottesville, Va.
Johnson, Leland P.	Rot.	University of Oregon Hospitals, Portland, Ore.
Kaplan, Henry J.	Med.	University Hospitals, Cleveland, Ohio

<sup>1</sup> Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

Kass, Robert M.	Surg.	The New York Hospital, New York, N.Y.
Ketchum, Robert V.	Rot.	Letterman General Hospital, San Francisco, Calif.
Klepach, Garron L.	Surg.	The New York Hospital, New York, N.Y.
Klingensmith, William	Med.	University of Oregon Hospitals-V.A., Portland, Ore.
Kocsis, James H.	Med.	Cornell, North Shore, Memorial, N.Y.
Koehler, Robert E., Jr.	Med.	Barnes Hospital, St. Louis, Mo.
Lane, Katherine S.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Larsen, John W.	Med.	Presbyterian St. Luke's Hospital, Chicago, Ill.
Lavalle, Peter L.	Rot.	University of Colorado Medical Center, Denver, Colo.
Lewis, Michael M.	Med.	Cornell, North Shore, Memorial, N.Y.
Madsen, John E., Jr.	Rot.	Chicago Wesley Memorial Hospital, Chicago, Ill.
Marcus, Robert S.	Surg.	The New York Hospital, New York, N.Y.
McCormick, David P.	Ped.	University of Minnesota Hospitals, Minneapolis, Minn.
McDougal, William S.	Surg.	University Hospitals, Cleveland, Ohio
Meharg, John G., Jr.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Mehlman, Ira	Rot.	Kaiser Foundation, San Francisco, Calif.
Milhorat, John H.	Rot.	University Hospitals, Madison, Wis.
Newman, Ruth D.	Rot.	New York Infirmary, New York, N.Y.
Nimetz, Allen A.	Med.	Mt. Sinai Hospital, New York, N.Y.
O'Donohue, Neil	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Page, Joan L.	Med.	Evanston Hospital, Evanston, Ill.
Piecznik, Steve R.	Rot.	Greenwich Hospital, Greenwich, Conn.
Rankin, Ronald S.	Rot.	University of Utah Hospitals, Salt Lake City, Utah
Ravin, Carl E.	Surg.	University of California Hospitals, San Francisco, Calif.
Reading, Paul E., Jr.	Rot.	Cleveland Metropolitan General Hospital, Cleveland, Ohio
Reidy, Robert W. II	Med.	New England Medical Center Hospitals, Boston, Mass.
Roediger, John H.	Rot.	San Francisco General Hospital, San Francisco, Calif.
Rooney, J. Patrick	Med.	Barnes Hospital, St. Louis, Mo.
Rose, John G.	Surg.	The New York Hospital, New York, N.Y.
Semel, Charles D.	Rot.	Genesee Hospital, Rochester, N.Y.
Slepyan, David H.	Surg.	King County Hospital, Seattle, Wash.
Thorpe, Ray M.	Rot.	University of Utah Hospitals, Salt Lake City, Utah
Uhran, George M.	Surg.	The New York Hospital, New York, N.Y.
Vecchione, John J.	Med.	Bellevue Hospital-New York University, New York, N.Y.
Walker, Robert S.	Med.	St. Luke's Hospital, New York, N.Y.
Waxman, Jack	Med.	Cornell University Hospitals, New York, N.Y.
White, William R.	Surg.	The New York Hospital, New York, N.Y.
Wilbur, Bruce G.	Med.	William A. Shands Hospital, Gainesville, Fla.
Winfield, John B.	Med.	Cornell University Hospitals, New York, N.Y.
Wolfe, John C.	Med.	Cornell University Hospitals, New York, N.Y.
Wood, David R.	Rot.	University of Utah Hospitals, Salt Lake City, Utah
Zager, Robert F.	Med.	Cornell University Hospitals, New York, N.Y.
Zendel, Stephen A.	Med.	Grady Memorial Hospital, Atlanta, Ga.

# REGISTER OF STUDENTS, 1968-69

## FOURTH YEAR

Saul Joseph Ahola, B.A. 1965, Blackburn College	Dayville, Conn.
Daniel Leon Alkon, B.A. 1965, University of Pennsylvania	Philadelphia, Pa.
Vincent Daniel Anku, B.A. 1965, Grinnell College	Ghana, W. Africa
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.A. 1965, Cornell University	Brooklyn, N.Y.
Jeffrey Stephen Borer, B.A. 1965, Harvard University	New York, N.Y.
David Walter Boyer, Jr., B.A. 1963, University of Colorado	Pueblo, Colo.
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.
Robert Chaplin Collins, B.A. 1964, University of California (Berkeley)	Los Angeles, Calif.
William Howard Davidson, B.A. 1965, Portland State College	Milwaukie, Ore.
James Henry Dauber, B.E.P. 1964, Cornell University	New York, N.Y.
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.
Kathleen Maher Foley, B.S. 1965, St. John's University	Flushing, New York
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	New York, N.Y.
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.
Paul Jacob Grant, A.B. 1965, Columbia University	El Paso, Tex.
Marc Alan Grinberg, B.A. 1964, Dartmouth College	Pittsburgh, Pa.
George William Gross, Jr., B.A. 1965, Hamilton College	Westfield, Pa.
David Henry Gunderson, B.S. 1965, Wheaton College	Chicago, Ill.
Richard Jay Haber, A.B. 1965, Columbia University	New York, N.Y.
Richard Nathaniel Hatfield, B.S. 1965, University of Massachusetts	Hamilton, Mass.
Charles DeLisle Hearey, Jr., A.B. 1964, Wesleyan University*	Oaklyn, N.J.
Douglas Whitmer Hershey, B.A. 1964, Yale University	Hershey, Pa.
John Winslow Hirshfeld, Jr., B.A. 1965, Cornell University	Ithaca, N.Y.
Judith Lebowich Howland, A.B. 1965, Bryn Mawr College	New York, N.Y.
Charles George Kelley, B.S. 1965, University of Massachusetts	Petersham, Mass.
Jeffrey Theodore Kessler, B.A. 1965, Wesleyan University	Moorestown, N.J.
Francis Henry Koch, A.B. 1965, Fordham University	Paterson, N.J.
Neil Kraybill Kochenour, B.M.E. 1964, Cornell University	Lancaster, Pa.
Barbara Cox Koehler, A.B. 1965, Drew University	Boonton, N.J.
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.S. 1965, Rutgers University	Scotch Plains, N.Y.
Elizabeth Sprague Mann, B.A. 1965, Swarthmore College	Lakewood, Ohio
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.

\* On leave of absence, research fellowship.

Michael Francis Mulroy II, A.B. 1964, Georgetown University	Alton, Ill.
James Stanley Ogsbury, Jr., B.A. 1965, Denison University	Waynesboro, Va.
Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University	South Orange, N.J.
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.
John Albert Rothschild, B.A. 1965, Cornell University	Skokie, Ill.
David Louis Schenkar, B.A. 1965, University of Washington	Mercer Island, Wash.
Paul Charles Schuler, A.B. 1965, Dartmouth College	Washington, D.C.
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.
Dale Gottdiener Sickles, A.B. 1965, Cornell University	Poughkeepsie, N.Y.
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.
Sidney Fredrick Stein, A.B. 1965, Dartmouth College	Swampscott, Mass.
Warren Lee Van Kampen, B.S. 1965, Wheaton College	Wheaton, Ill.
Robert Lyne Warburton, B.S. 1965, 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 Zavadiil III, B.A. 1965, Cornell University	Bethesda, Md.

## THIRD YEAR

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 College	Worcester, Mass.
Peter William Blumencranz, B.A. 1966, University of Pennsylvania	Kings Point, N.Y.
Kenneth John Blunt, B.A. 1966, Dartmouth College	Hanover, Pa.
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.
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 Coleman, B.A. 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.
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.

\* On leave of absence, research fellowship.

- James Glenn Haines, B.A. 1966, Johns Hopkins University  
 Thomas Shelor Harbin, Jr., B.A. 1966, Vanderbilt University  
 Nicholas Jackson Hardin, B.A. 1965, Amherst College  
 David Frederick Harris, B.A. 1966, Dartmouth College  
 Peter Bradley Tate Houghton, A.B. 1966, Cornell University  
 Clark Nelson Hopson, A.B. 1966, Brown University  
 Robert Edwin Ingham, A.B. 1966, University of California (Berkeley)  
 Peter Arthur Jarvis, B.S. 1966, City College of New York  
 Richard Clemens Karl, Jr., B.A. 1967, Cornell University  
 Richard Alan Katz, A.B. 1966, Cornell University  
 Kenneth Jay Kessler, B.A. 1966, University of Virginia  
 John Warren Kirk, A.B. 1966, Providence College  
 Howard Henry Kirtland III, B.S. 1966, Georgetown University  
 Arthur Paul Knauert, A.B. 1966, Columbia University  
 Kenneth John Kurtz, B.A. 1966, Williams College  
 Gregory Michael La Gana, B.S. 1966, St. Peter's College  
 Salvatore Anthony J. Latteri, B.A. 1966, St. Michael's College  
 David Stephen Lerner, A.B. 1966, Columbia University  
 Barry Steven Levy, B.A. 1966, Tufts University  
 Louis Anthony Lobes, Jr., A.B. 1966, College of the Holy Cross  
 Michael Bruce MacQuarrie, A.B. 1966, Dartmouth College  
 Kathryn Elizabeth McGoldrick, 1966, Manhattanville College  
 Richard Lawrence Mattson, B.A. 1966, Carleton College  
 Clifford Ray Miller, B.S. 1966, State University of New York (Buffalo)  
 Robert Gordon Miller, B.S. 1963, United States Naval Academy  
 Stephen Henry Moore, B.A. 1966, University of Minnesota  
 Michael James Morris, B.A. 1966, Cornell University  
 Michael Francis Nigro, Jr., A.B. 1966, Harvard University  
 Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota  
 Roy Michael Nuzzo, B.A. 1966, Rutgers University  
 Robert Ernest Prout, B.A. 1966, Cornell University  
 Robert Michael Quinlan, B.S. 1966, College of the Holy Cross  
 Charles David Richards, B.A. 1966, University of Utah  
 Diane Marie Richters, B.S. 1966, Bucknell University  
 Mark Jeffrey Rosenberg, B.A. 1966, Amherst College  
 Roger Michael Rossomondo, B.S. 1966, Providence College  
 Robert Joseph Rubin, B.A. 1966, Williams College  
 Roy Michael Rubin, B.A. 1966, Dartmouth College  
 William Atkinson Ruth, B.A. 1966, Yale University  
 Jurij Savvykyj, B.S. 1966, Utica College  
 Edgar Charles Schick, Jr., B.S. 1966, College of the Holy Cross  
 Stuart Floyd Seides, B.S. 1967, Pennsylvania State University  
 Francis Edward Sharkey, B.S. 1965, Fairfield University  
 Richard Michael Sigel, A.B. 1966, Cornell University  
 Carol Frances Singer, B.A. 1966, University of Michigan  
 Peter George Sohnle, B.A. 1966, Rutgers University  
 Richard Alfred Sperling, B.A. 1966, University of North Carolina  
 Howard Charles Steier, A.B. 1966, Queens College  
 Henry Ellis Streifeld, A.B. 1966, Dartmouth College  
 Peter Imre Antal Szilagyi, B.S. 1965, Yale University; M.A. 1966, Harvard University  
 Susan Scholl Szilagyi, B.A. 1966, Grinnell College  
 Michael David Talbot, A.B. 1966, Columbia University  
 Richard Loren Tax, B.A. 1966, Hofstra University  
 Eric Joseph Thomas, B.S. 1966, Fordham University  
 Eric Neil Thompson, A.B. 1966, Cornell University  
 Thomas Stone Thornhill, A.B. 1966, Williams College  
 Stephen Ernest Tosi, A.B. 1966, Dartmouth College  
 Wyomissing, Pa.  
 Rome, Ga.  
 Needham, Mass.  
 Oyster Bay, N.Y.  
 Jamaica, West Indies  
 Glen Ridge, N.J.  
 Lafayette, Calif.  
 New York, N.Y.  
 Pelham, N.Y.  
 Beverly, N.J.  
 Lakewood, N.J.  
 Oak Park, Ill.  
 Poughkeepsie, N.Y.  
 New York, N.Y.  
 Pittsburgh, Pa.  
 Nutley, N.J.  
 Clifton, N.J.  
 Brooklyn, N.Y.  
 Bayonne, N.J.  
 Pelham Manor, N.Y.  
 Long Beach, Calif.  
 Worcester, Mass.  
 Wichita, Kan.  
 Tonawanda, N.Y.  
 Miramar, Calif.  
 Richville, Minn.  
 Hurley, N.Y.  
 Woburn, Mass.  
 Minneapolis, Minn.  
 Hawthorne, N.J.  
 Portland, Conn.  
 Watertown, Mass.  
 Salt Lake City, Utah  
 River Edge, N.J.  
 Maplewood, N.J.  
 Haworth, N.J.  
 Brooklyn, N.Y.  
 Hempstead, N.Y.  
 Ardsley-on-Hudson, N.Y.  
 Utica, N.Y.  
 Delmar, N.Y.  
 Jericho, N.Y.  
 Pound Ridge, N.Y.  
 New York, N.Y.  
 Teaneck, N.J.  
 Basking Ridge, N.J.  
 North Plainfield, N.J.  
 Douglaston, N.Y.  
 Flushing, N.Y.  
 Hamden, Conn.  
 St. James, Mo.  
 Queens, N.Y.  
 Westbury, N.Y.  
 Bronx, N.Y.  
 Poughkeepsie, N.Y.  
 Charleston, W.Va.  
 Shrewsbury, Mass.



Joseph Santo Tulumello, A.B. 1965, Harvard University  
 Henry Davis von Oesen, B.A. 1966, Amherst College  
 Steven Edward Vogl, A.B. 1966, Cornell University  
 Harold Walker Ward, Jr., B.A. 1966, Lehigh University  
 Fredrick Louis Weber, Jr., B.A. 1966, Wesleyan University  
 George Lewis Wineburgh, B.A. 1966, Cornell University

Piscataway, N.J.  
 Wilmington, N.C.  
 Brooklyn, N.Y.  
 Glasgow, Ky.  
 Syracuse, N.Y.  
 Utica, N.Y.

## SECOND YEAR

Gerald Francis Abbott, 1967, Creighton University  
 Francis Vincent Adams, A.B. 1967, Georgetown University  
 Lawrence Yawo Agodaa, B.A. 1967, State College of Iowa  
 Ronald Frederick Altman, A.B. 1967, Cornell University  
 Laurence Richard Avins, B.A. 1967, Amherst College  
 Alan Stuart Bahler, B.S.E.E. 1957, M.S.E.E. 1959, Newark College of Engineering;  
 Ph.D. 1966, Johns Hopkins University  
 Richard Stuart Bailyn, A.B. 1967, Cornell University  
 Charles Frederick Barer, B.A. 1967, Cornell University  
 Francis Joseph Bia, B.S. 1967, Fordham University  
 Julian Bindler, A.B. 1967, Cornell University  
 Peter Anthony Blasco, B.S. 1967, Georgetown University  
 Wayne Robert Brinton, B.S. 1967, University of Utah  
 Paul Axtell Bunn, B.A. 1967, Amherst College  
 Lawrence Reid Burdge, Jr., B.A. 1964, Duke University  
 Stephen William Burke, B.S. 1967, Spring Hill College  
 Fred Chin Chu, A.B. 1967, Princeton University  
 Arnold William Cohen, B.S. 1967, Bucknell University  
 James Robert Cohen, A.B. 1967, Cornell University  
 David Allen Console, A.B. 1967, Cornell University  
 John Bennett Coombs, B.S. 1967, University of Washington  
 Florence Grace Crawford, B.A. 1967, Drew University  
 Thomas James Crawford, A.B. 1967, Hamilton College  
 Robert Louis Cucin, B.S. 1967, Cornell University  
 John Francis Denver, Jr., B.S. 1967, University of Notre Dame  
 Jay Gaston DuBois, A.B. 1967, Cornell University  
 Stephen Curtis Duck, A.B. 1967, Wesleyan University  
 Jeanette Arleah Easton, B.S. 1967, Muhlenberg College  
 Jeffrey John Eckardt, B.A., 1967, Williams College  
 Keith Fortier, B.S. 1967, Rutgers University  
 Howard Alan Freed, B.A. 1967, Brandeis University  
 James Arthur Fry, B.S. 1967, Grinnell College  
 Kent R. Gamette, B.S. 1967, Brigham Young University  
 Walter Frederick George, B.A. 1967, Holy Cross College  
 Jeffrey Neal Gingold, B.A. 1967, Tufts University  
 David Ross Gutknecht, A.B. 1967, Cornell University  
 Eric Ian Gutnick, B.A. 1967, Ohio Wesleyan University  
 Ronald Keith Harris, B.S. 1967, Upsala College  
 John David Haynes, Jr., B.S. 1967, Wheaton College  
 Boyd Frederick Helmkamp, B.A. 1967, Brown University  
 Wynn Howard Hemmert, B.S. 1967, University of Utah  
 Richard Thomas Hoppe, B.A. 1967, Cornell University  
 David Anthony Horvat, B.S. 1967, Boston College  
 John Joseph Janick, B.S. 1967, State University of New York  
 (Albany)  
 Ronald Steven Kahan, B.A. 1967, Yale University  
 David Richard Kalifon, B.S. 1967, Rutgers University  
 Morton, Aaron Kamzan, B.S. 1967, Union College  
 John Allen Kessler, B.A. 1967, Princeton University  
 Mitchell Harlan Koch, A.B. 1967, Cornell University  
 Timothy Walter Lane, B.A. 1967, Yale University  
 Robert Laureno, A.B. 1967, Cornell University  
 Wayne Lawrence Letizia, B.A. 1967, Dartmouth College

Chicago, Ill.  
 Forest Hills, N.Y.  
 Ghana, West Africa  
 Rockville Centre, N.Y.  
 Princeton, N.J.  
 Houston, Texas  
 Teaneck, N.J.  
 Bronxville, N.Y.  
 New York, N.Y.  
 Jamaica, N.Y.  
 Rosemount, Minn.  
 Salt Lake City, Utah  
 Dewitt, N.Y.  
 Red Bank, N.J.  
 Elmira, N.Y.  
 Jersey City, N.J.  
 Fair Lawn, N.J.  
 Elkins Park, Pa.  
 Roslyn, N.Y.  
 Seattle, Wash.  
 Asbury Park, N.J.  
 Whitesboro, N.Y.  
 New York, N.Y.  
 Merrick, N.Y.  
 St. Louis, Mo.  
 Indianapolis, Ind.  
 Englishtown, N.J.  
 Memphis, Tenn.  
 Manasquan, N.J.  
 New York, N.Y.  
 Naperville, Ill.  
 Provo, Utah  
 Croton-on-Hudson, N.Y.  
 Great Neck, N.Y.  
 Nutley, N.J.  
 Philadelphia, Pa.  
 Glenridge, N.J.  
 Nanuet, N.Y.  
 Miami, Fla.  
 Afton, Wyo.  
 Seaford, N.Y.  
 Danielson, Conn.  
 Port Chester, N.Y.  
 Larchmont, N.Y.  
 New York, N.Y.  
 Lido Beach, N.Y.  
 Moorestown, N.J.  
 Mt. Kisco, N.Y.  
 Houlton, Me.  
 University Heights, Ohio  
 Newark, N.J.

- David Seth Liebling, B.A. 1967, Rutgers University  
 Ivan Stewart Login, B.A. 1967, University of Pennsylvania  
 Richard Alan Lynn, B.A. 1967, New York University  
 Christine Daniele Maisonneuve, C.P.E.M. 1966, University of Paris  
 Theo Clyde Manschreck, B.A. 1967, Carleton College  
 Sam Stanley Miller, A.B. 1963, Columbia University  
 Thomas Saunders Moore, B.A. 1967, University of Virginia  
 Peter Allen Monoson, B.A. 1967, Hamilton College  
 John Merritt Morse, B.S. 1967, Iowa State University  
 Patrick Joseph Murphy, A.B. 1967, Holy Cross College  
 Angel Jesus Olazabal, B.S. 1967, Manhattan College  
 Edward Carleton Palmer, A.B. 1967, Dartmouth College  
 John Craig Perlmutter, B.A. 1967, Queens College  
 Eugene John Pilek, B.S. 1967, Iona College  
 Henry Anthony Pitt, A.B. 1967, Cornell University  
 Ronald Mark Podell, A.B. 1967, Cornell University  
 Robert Lawrence Protell, A.B. 1967, Rutgers University  
 Marianne Nucci Prout, B.A. 1967, Cornell University  
 Louis Edward Rambler, A.B. 1967, Princeton University  
 Charles William Rance, B.S. Georgetown University  
 John Peter Roberts, B.A. 1967, Middlebury College  
 Robert George Robinson, A.B. 1967, Cornell University  
 Nancy Josette Ronsheim, B.S. 1964, Cornell; M.A.T. 1965, Harvard University  
 Steven Gerald Rosenblatt, B.A. 1967, Vanderbilt University  
 Brian Raymond Rutley, B.A. 1967, University of San Francisco  
 Carl Howard Sadowsky, B.S. 1967, State University of New York  
 (Stony Brook)  
 Bill Stuart Schnall, B.A. 1967, Kenyon College  
 Kenneth Victor Schwartz, A.B. 1967, Princeton University  
 David William Schwenker, B.S. 1967, Cornell University  
 Paul Wayne Shank, B.A. 1964, Cornell University  
 Roger Pancoast Simon, B.S. 1964, M.S. 1967, Pennsylvania  
 State University  
 Bruce Michael Smith, B.A. 1967, Queens College  
 James Morgan Sprott, Jr., B.A. 1967, Vanderbilt University  
 Donald Robert Steinmuller, B.A. 1967, Williams College  
 Nestor Bohdan Tomycz, B.S. 1967, Rensselaer Polytechnic  
 Institute  
 Russell John Vergechik, B.A. 1967, Columbia University  
 Michael Peter Weinstein, A.B. 1967, Cornell University  
 Robert George Wickiewicz, B.S. 1967, St. Peter's College  
 Richard James Yeager, B.A. 1967, Swarthmore College  
 Springfield, N.J.  
 North Bergen, N.J.  
 West Hempstead, N.Y.  
 Bronxville, N.Y.  
 Chicago, Ill.  
 San Antonio, Tex.  
 Newport News, Va.  
 Brooklyn, N.Y.  
 La Grange, Ill.  
 Chicago, Ill.  
 Bayamon, P.R.  
 Fall River, Mass.  
 Rego Park, N.Y.  
 Bronx, N.Y.  
 Union, N.J.  
 Red Bank, N.J.  
 Fort Lee, N.J.  
 South Bend, Ind.  
 Cherry Hill, N.J.  
 Garden City, N.Y.  
 Kingston, N.Y.  
 Pittsburgh, Pa.  
 Great Neck, N.Y.  
 Chevy Chase, Md.  
 Inglewood, Calif.  
 Hollis, N.Y.  
 Hewlett, N.Y.  
 Millburn, N.J.  
 Scotia, N.Y.  
 Pittsburgh, Pa.  
 Philadelphia, Pa.  
 Bayside, N.Y.  
 Lake Wales, Fla.  
 Marblehead, Mass.  
 Utica, N.Y.  
 Harrington Park, N.J.  
 Great Neck, N.Y.  
 Jersey City, N.J.  
 Toms River, N.J.

## FIRST YEAR

- Robert John Berry, B.S. 1968, University of Utah  
 Margaret Johnson Bia, B.S. 1968, Fordham University  
 Bruce Mark Bissonnette, B.S. 1968, Purdue University  
 Kenneth Ronald Blanchard, S.B. 1961, Massachusetts Institute of  
 Technology; A.M., Ph.D. 1965, Princeton University  
 John Timothy Boyle, B.S. 1968, University of Notre Dame  
 Bruce Lawrence Burgreen, B.A. 1968, Queens College  
 Richard Michael Cabot, B.S. 1968, Dickinson College  
 Robert William Carlson, B.S. 1968, University of Washington  
 James Henry Clifford, Jr., A.B. 1968, Dartmouth College  
 Henry Leon de Givé III, A.B. 1968, College of the Holy Cross  
 Robert Gary DeLong, B.S. 1968, Cornell University  
 William Augustus Donnelly, Jr., B.A. 1968, Yale University  
 Patricia Anne Duerr, A.B. 1966, College of New Rochelle  
 Lawrence H. Ehrlich, B.A. 1968, Western Reserve University  
 Golden, Colo.  
 Brooklyn, N.Y.  
 Evansville, Ind.  
 Poughkeepsie, N.Y.  
 Suffern, N.Y.  
 Flushing, N.Y.  
 Ardsley, N.Y.  
 Mercer Island, Wash.  
 Merrick, N.Y.  
 Atlanta, Ga.  
 Manlius, N.Y.  
 Weston, Vt.  
 Jackson Heights, N.Y.  
 Mamaroneck, N.Y.

- Lawrence David Eisenhauer, B.A. 1968, Dartmouth College  
 Martin Peter Elliott, B.A. 1968, Reed College  
 Louis Cornelius Enkema, Jr., A.B. 1967, Stanford University  
 Robert Patrick Ferguson, B.A. 1968, Cornell University  
 Frederick John Ferlic, B.S. 1968, University of Notre Dame  
 David Stoker Folland, B.S. 1968, University of Utah  
 William Webster Frayer, B.S. 1966, M.S. 1968, Cornell University  
 Marc Jay Friedman, A.B. 1968, Princeton University  
 Steven Michael Friedman, A.B. 1968, Princeton University  
 James Edward Gadek, B.S. 1968, Georgetown University  
 Frank William Gamache, Jr., B.A. 1968, Wesleyan University  
 Robert Jay Goldenkranz, A.B. 1968, New York University  
 Thomas William Griffin, B.S. 1968, Boston College  
 Robert Russell Hackford, Jr., B.A. 1968, Harvard University  
 Newell Anthony Hargett, B.S. 1968, Xavier University  
 Daniel Malin Hayes, B.S. 1968, Fairfield University  
 Paul George Hess, B.A. 1968, Fordham University  
 Irving Mark Hiatt, B.A. 1968, Cornell University  
 Jonathan Willard Hopkins, B.S. 1966, Massachusetts Institute of Technology  
 James Wethington Husted, B.A. 1968, Villanova University  
 Barton Inkeles, B.S. 1968, Brooklyn College  
 Charles Ignatius Jarowski, B.A. 1968, Columbia University  
 David Cedric Jimerson, A.B. 1968, Harvard University  
 Ralph Michael Kamell, B.S. 1968, Cornell University  
 Michael Jerome Kaminsky, B.A. 1967, Yale University  
 Glen Ray Kartchner, B.S. 1968, University of Arizona  
 Kenneth Sherrard Kelleher, Jr., A.B. 1968, College of the Holy Cross  
 Thomas Lyle Kennedy III, B.A. 1968, Princeton University  
 Bart Peter Ketover, A.B. 1968, Princeton University  
 William Barry Kleinman, B.A. 1968, Rutgers University  
 Thomas Monroe Krop, A.B. 1968, Cornell University  
 Mary Kathryn Kukolich, A.B. 1968, Cornell University  
 Michael Hugh Lavyne, A.B. 1968, Williams College  
 Daniel Lyons Leary, A.B. 1960, Harvard University  
 Bruce Kerr Lloyd, B.S. 1968, Pennsylvania State University  
 Neil Ross MacIntyre, Jr., B.S. 1968, University of San Francisco  
 Phillip Hugh Maguire, B.S. 1968, St. Peter's College  
 Jonathan Mardrossian, B.A. 1968, Williams College  
 Henry Masur, A.B. 1968, Dartmouth College  
 Richard Edward Mattison, B.A. 1968, Lafayette College  
 Paul Thomas McDonald, B.S. 1965, United States Military Academy  
 Donald Harwood Morgan, B.A. 1962, Cornell University  
 Bruce Wright Moulton, A.B. 1968, Cornell University  
 Henry Wilke Murray, A.B. 1968, Cornell University  
 Michael Anthony Mustille, B.A. 1968, Williams College  
 John Tobias Nagurney, A.B. 1967, Harvard University  
 Peter Edward Nielsen, B.A. 1968, New York University  
 Michael William Panio, B.A. 1968, Cornell University  
 Joseph Edison Parrillo, Jr., A.B. 1968, Dartmouth College  
 James Benjamin Peake, B.S. 1966, United States Military Academy  
 James Stapleton Reilly, B.A. 1966, Fordham University  
 Philip Cullen Reilly, B.A. 1968, Fordham University  
 William Marvin Riedesel II, B.A. 1968, University of Rochester  
 Robert John Riesenfeld, A.B. 1968, Duke University  
 Peter Scott Robinson, B.S. 1968, Cornell University  
 Jon Anderson Rothenberg, A.B. 1963, Harvard University  
 Michael Wayland Rubottom, B.S. 1968, San Diego State College  
 Judith Anne Scheraga, B.A. 1968, Cornell University  
 William Norman Scott, B.A. 1968, University of Pennsylvania  
 Ryan Stuart Searle, B.S. 1968, University of Utah  
 Barrington, R.I.  
 Centerport, N.Y.  
 Berkeley, Calif.  
 Slingerlands, N.Y.  
 Carroll, Iowa  
 Salt Lake City, Utah  
 Endwell, N.Y.  
 Westbury, N.Y.  
 Baltimore, Md.  
 Woodbridge, N.J.  
 Hamden, Conn.  
 Brooklyn, N.Y.  
 Glen Ridge, N.J.  
 Concord, Mass.  
 Maysville, Ky.  
 Hartford, Conn.  
 Buffalo, N.Y.  
 Syracuse, N.Y.  
 Urbana, Ill.  
 Rochester, N.Y.  
 New York, N.Y.  
 Massapequa Park, N.Y.  
 Sinking Spring, Pa.  
 Elizabeth, N.J.  
 Memphis, Tenn.  
 St. David, Ariz.  
 Alexandria, Va.  
 Allentown, Pa.  
 Hewlett Harbor, N.Y.  
 Glen Rock, N.J.  
 McLean, Va.  
 Kalamazoo, Mich.  
 Newburgh, N.Y.  
 Newburyport, Mass.  
 Newtown Square, Pa.  
 La Jolla, Calif.  
 Belleville, N.J.  
 White Plains, N.Y.  
 Washington, D.C.  
 Bradford, Pa.  
 Rockville Centre, N.Y.  
 Claymont, Del.  
 Marblehead, Mass.  
 Washington, D.C.  
 Willard, N.Y.  
 Cornwall, N.Y.  
 New York, N.Y.  
 Yonkers, N.Y.  
 Paterson, N.J.  
 Kensington, Md.  
 Forest Hills, N.Y.  
 New York, N.Y.  
 Denver, Colo.  
 Oradell, N.J.  
 Findley Lake, N.Y.  
 New York, N.Y.  
 La Mesa, Calif.  
 Ithaca, N.Y.  
 Jersey City, N.J.  
 Salt Lake City, Utah

Geoffrey William Sheridan, B.S. 1968, Rensselaer Polytechnic Institute	Massapequa, N.Y.
Barry Hamilton Smith, A.B. 1965, Harvard University; Ph.D. 1968, Massachusetts Institute of Technology	Greenwich, Conn.
Joseph Lorenzo Smith, 1968, University of Utah	Green River, Wyo.
Thomas William Smith, B.S. 1968, Ohio State University	Columbus, Ohio
Dorothy Jacqueline Stein, B.A. 1968, University of Pennsylvania	Philadelphia, Pa.
Mark Andrew Sullivan, A.B. 1968, College of the Holy Cross	Springfield, Mass.
Karl Chia-Tsen Sze, B.A. 1968, Cornell University	Garden City, N.Y.
Frederick Elliot Tabachnick, B.A. 1968, Queens College	Bayside, N.Y.
Jerome William Takiff, B.A. 1968, Rutgers University	Elizabeth, N.J.
Richard Harrison Tuck, A.B. 1968, Franklin & Marshall College	Johnstown, Pa.
Richard Walter Urbanek, B.A. 1968, Queens College	Floral Park, N.Y.
August John Valenti, B.S. 1968, Saint Peter's College	Wayne, N.J.
Mark Vrana, B.S. 1968, Cornell University	Ithaca, N.Y.
Robert Alan Weinstein, A.B. 1968, Cornell University	Chicago, Ill.
Roy Glen Wiggans III, A.B. 1968, Bucknell University	Westport, Conn.
Donald Drake Wilson, B.A. 1968, Colgate University	Ridgewood, N.J.
Stephen George Wood, B.A. 1968, Stanford University	Palo Alto, Calif.

## SUMMARY

Fourth Year .....	86
Third Year .....	88
Second Year .....	89
First Year .....	91
Total .....	354

# REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abel, Donald W.	Surgery	107
Abel, Henriette E.	Medicine	83
Abel, Robert R.	Medicine	81
Abello, Emillo	Medicine	84
Abrahams, Irving	Microbiology	86
Abu-Nassar, Solange G.	Pathology	93
Adam, Yehuda G.	Surgery	109
Adelson, Edward T.	Psychiatry	100
Adler, Karl	Medicine	84
Advocate, Seymour	Medicine	81
Akiya, Shinobu	Surgery	108
Albrecht, Alberta M.	Sloan-Kettering (Biology)	120
Alcock, Nancy W.	Sloan-Kettering (Biochemistry)	119
Alexander, Benjamin	Medicine	79
Algarra, Luis A.	Surgery	109
Allen, Fred H.	Pediatrics	94
Alonso, Daniel R.	Pathology	93
Altman, Ina R.	Radiology	104
Amstutz, Harlan	Surgery	106
Anand, Ramesh	Pathology	93
Anderson, Arthur A., Jr.	Psychiatry	99
Anderson, Arthur F.	Pediatrics (Emeritus)	11
Anderson, Edgar R., Jr.	Surgery	108
Anderson, Karl	Medicine	84
Anderson, William A.	Medicine	81
Angelo, Thomas A.	Pathology	93
Antoville, Anthony A.	Medicine	81
Apgar, Virginia	Pediatrics	95
Araoz, Julio	Anesthesiology	77
Arcuri, Joseph	Psychiatry	100
Arditi, Lucian I.	Medicine	81
Arlen, Myron	Surgery	109
Armistead, George C.	Medicine	81
Armstrong, Donald	Medicine	81
Arnold, William D.	Surgery	106
Aronian, John M.	Surgery	108
Aronson, Jason	Psychiatry	99
Artusio, Joseph F., Jr.	Anesthesiology	77
Asaph, James W.	Surgery	107
Ascheim, Robert S.	Medicine	83
Ashe, Barbara S.	Pediatrics	94
Ashikari, Hiroyuki	Surgery	109
Askari, Amir	Pharmacology	96
Atkinson, Sam C.	Medicine	80
Auerbach, Fran	Microbiology	86
Auerbach, Sumner	Medicine	84
Auld, Peter A. Mcf.	Pediatrics	94
Avenia, Richard W.	Biochemistry	79
Aversa, John M.	Surgery	108
Avnet, Samuel	Surgery	107
Axel, Peter	Pediatrics	95
Baer, Ralph A.	Medicine	83
Baker, Alan	Radiology	105
Baker, Ralph D.	Psychiatry	100
Baker, Thomas	Pharmacology	96
Balagura, Sulamita	Physiology	98
Balasz, Leslie	Anesthesiology	77

Balensweig, Howard D.	Surgery	107
Balis, M. Earl	Sloan-Kettering (Biochemistry)	119
Balter, Stephen	Radiology	105
Bandukwala, Nadira	Pathology	93
Barandes, Martin	Medicine	84
Barber, Hugh R. K.	Obstetrics & Gynecology	90
Barile, Raymond G.	Anesthesiology	77
Barnes, Kenneth	Medicine	84
Barnes, Lloyd T.	Medicine	81
Barnes, William A.	Surgery	106
Barondess, Jeremiah A.	Medicine	80
Barr, David P.	Medicine (Emeritus)	11
Barrie, Joseph R.	Surgery	109
Barta, Frank R., Jr.	Surgery	108
Barten, Harvey H.	Psychiatry	100
Bashkin, Edmund A.	Psychiatry	99
Basile, Naef K.	Obstetrics & Gynecology	91
Bass, Richard R.	Pediatrics	94
Bauer, Charles H.	Pediatrics	94
Bauer, Goran C. H.	Surgery	106
Baumgartner, Leona	Pediatrics; Public Health (Emeritus)	11
Baxter, James E.	Psychiatry	100
Bayer, Michael	Medicine	84
Baylor, Curtis H.	Medicine	81
Bearn, Alexander G.	Medicine	79
Beattie, Edward J.	Surgery	108
Beaver, William T.	Pharmacology	96
Becker, Carl G.	Pathology	93
Becker, David V.	Medicine; Radiology	80; 104
Becker, E. Lovell	Medicine	80
Beckett, Thomas	Psychiatry	99
Behrman, Stanley J.	Surgery	106
Beling, Carl	Obstetrics & Gynecology	90
Belshaw, Bruce	Medicine	84
Bendich, Aaron	Sloan-Kettering (Biochemistry)	119
Beneventi, Francis A.	Surgery	106
Benjamin, Brv.	Medicine	81
Bennett, Dorothea	Anatomy	75
Berenberg, Samuel R.	Public Health; Pediatrics	102; 94
Bergland, Richard M.	Surgery	106
Berkowitz, Jerome S.	Surgery	108
Berkowitz, Richard L.	Obstetrics & Gynecology	91
Bernstein, James S.	Medicine	83
Berstine, Melvin L.	Anesthesiology	77
Berntsen, Carl A.	Medicine	81
Besley, Richard N.	Psychiatry	101
Bettigole, Richard E.	Medicine	81
Betz, Barbara J.	Psychiatry	99
Bhardwaj, V. D.	Pediatrics	95
Biedler, June L.	Sloan-Kettering (Biology)	120
Bienenstock, Harry	Medicine	81
Billo, Otto E.	Pediatrics	94
Binder, Sheldon C.	Surgery	109
Binford, Robert T.	Medicine	81
Bippart, Charles H.	Obstetrics & Gynecology	91
Birnbaum, Gary	Neurology	89
Birnbaum, Stanley	Obstetrics & Gynecology	90
Blackman, Sheldon	Psychiatry	99
Blank, Alan M.	Obstetrics & Gynecology	90
Blasberg, Waltraud-Gisela	Radiology	105
Blaser, Constance	Microbiology	86
Blitz, Marvin B.	Psychiatry	100
Bloch, Daniel A.	Sloan-Kettering (Biomathematics)	117

Bloch, Jack H.	Surgery	106
Block, Sidney R.	Medicine	84
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Brooks, Michael J.	Anesthesiology	77
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Brown, Jeffrey L.	Obstetrics & Gynecology	91
Brown, John Lyman	Medicine	81
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Brown, Veronica	Medicine	81
Browne, Michael	Surgery	107
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Cerruli, Remo	Psychiatry	100
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Dargeon, Harold W. K.	Pediatrics (Emeritus)	11
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Gee, Timothy	Medicine	84
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Gold, Harry	Pharmacology (Emeritus)	11
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Associate Professors . . . . .	219
Assistant Professors . . . . .	360
Instructors, Assistants, etc. . . . .	712
Total . . . . .	1,382

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