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New York University School of Medicine

150 Wars

AT THE FOREFRONT OF RESEARCH







The research achievements of NYU School of Medicine alumni have been outstanding: Reed and Gorgas, Goldberger, Salk and Sabin are the

most celebrated, but many hundreds of alumni have added immeasurably to the scientific understanding that is the basis of today's medicine.

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Jonas Salk, Class of 1939: Walter Reed, Class of 1873



vsician

Contents Volume 48 • Number 1 • Fall 1991



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New York University School of Medicine

FOREFRONT OF RESEA

150 Years of Lab Bench to Bedside Saul J. Farber, M.D., MACP

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TOS Years of Lab Bench to Bedside OSCILLOS SERVICES OF LAB Bench to Bedside OSCILLOS SERVICES OF LAB Bench to Bedside AT NYU MEDICAL CENTER

t is no exaggeration to say that the history of the New York University School of Medicine over the last century and a half is the history of scientific medicine and the triumph of research.

To envision the world of medicine in 1841 is to conjure up an era before antisepsis or anesthesia, without the germ theory or cell theory, lacking microscopes or genetics. It fell uniquely to the institutions of medical education—in particular, to the teaching hospitals, the heart of academic medicine—to incorporate the research advances into both the practice of clinical care and the education and training of physicians.

"My ambition is less for acquiring a practice than it is for obtaining opportunities to follow up pathological investigations," William Welch wrote in 1877. His devotion typifies that of generations of physician-scientists to research as the royal road to medical progress.

Testifying before Congress in 1900 against an antivivisection bill, Welch was unequivocal: "The main cause of this unparalleled progress in physiology, pathology, medicine, and surgery has been the fruitful application of the experimental method of research."

The contributions of the School of Medicine to the biomedical revolution have been deep and broad. Always the link to clinical care has been maintained, with disease providing the stimulus and the direction along the avenues of exploration.

The story of research is the saga of men and women who pursued an answer to the host of perplexing threats to life and health. Their names live in the honor roll of societies around the world, for science knows no boundaries. As New York joined Berlin, Paris, and London as a center of medical research, scientists flocked to this metropolis, immeasurably increasing its importance.

The past illuminates the present and suggests the future. To observe the land-marks of the last hundred and fifty years of medical research is to appreciate a heritage and renew a commitment. Both the similarities and the contrasts are telling.

Today's biomedical researchers stand at the brink of a new era in medicine, when the understanding of life's basic mechanisms will be applied to healing. With the construction of the Skirball Institute for Biomolecular Medicine, NYU has indicated decisively that in its commitment to research it is a worthy successor to its illustrious forebears.

∀

Saul J. Farber, M.D., MACP, '42 Provost and Dean

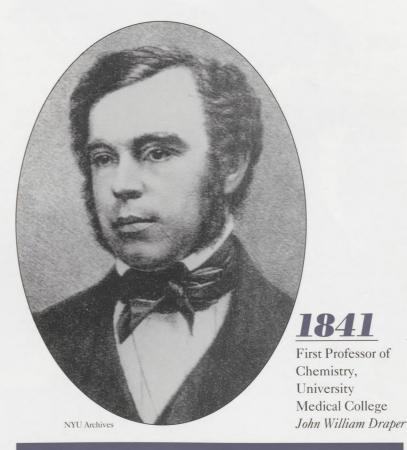
This issue of the NYU Physician is the first of three in celebration of the School of Medicine's sesquicentennial. The next two will be devoted to clinical care and medical education.



A Cavalcade of Biomedical Advances CONTROL THEN AND NOW

he establishment a century and a half ago of University
Medical College, the forerunner of the New York
University School of Medicine, occurred at a remarkable moment: the advent of scientific medicine. The new era decisively changed the way medicine is practiced and the way human beings live.

Until the eighteenth century, medical research was descriptive rather than experimental. From the time of Hippocrates, medicine had advanced by the meticulous observations of diseases and anatomy. The triumph of the experimental method in the 1800s transformed the healing arts into the science of medicine.

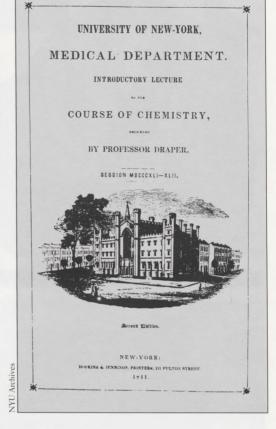


Physician-scientists at the NYU School of Medicine have been responsible for many of the research advances of the past 150 years. The dates of their contributions are printed in blue; dates of other key advances appear in gray.

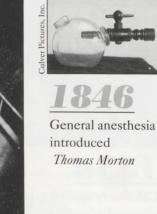


Cell theory enunciated Microscopial Researches Theodor Schwann

1841
University Medical
College founded







1840

The word 'scientist' coined
Philosophy of the
Inductive Sciences
William Whewell

1840

Handbook of Physiology

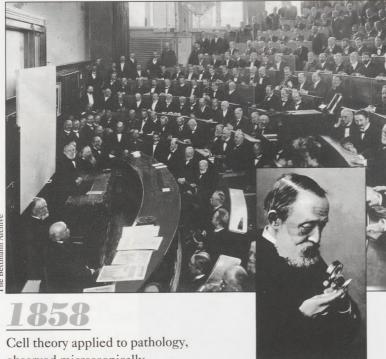
Johannes Muller

1843

Contagiousness of puerperal fever by infection from attendants demonstrated Ignaz Semmelweiz, Oliver Wendell Holmes

1849

Velocity of nerve current measured Hermann von Helmholz



The Bettmann Archive



1855

Bunsen burner invented Robert Bunsen



Cell theory applied to pathology, observed microscopically Cellular Pathology

Rudolf Virchow

1850s

First statistical data on cancer Domenico Rigoni-Stern 1853

Handbook of Rational Pathology Friedrich Henle 1854

"Bone Bill" passes NY state legislature, legalizing dissection of human body 1851

Nerve function analyzed Claude Bernard, "father of experimental medicine"



NYU Archives

Microscopy first taught at Bellevue Medical College



1865

Antisepsis discovered Joseph Lister



1866

Laws of heredity deduced Gregor Mendel



1862

"Flint murmur" described Austin Flint

"In making examinations of chests, supposed to be healthy, for purposes of study, I have repeatedly found murmur, evidently organic, when no disease of the heart was suspected."

—Austin Flint, M.D., in

The American Journal
of the Medical Sciences



1860

Germ theory developed Louis Pasteur

1859

Origin of Species

Charles Darwin



1878

First U.S. laboratory for teaching pathology opens at Bellevue Hospital Medical College William H. Welch

1870

In the United States, the medical catastrophe of the Civil War, documented in The Medical and Surgical History of the War of the Rebellion (1870), prompted a public outcry that gave a tremendous impetus to medical research. Stimulated by the Civil War, the drug industry expanded rapidly. Biologics against smallpox, tetanus, and diphtheria were available by the end of the nineteenth century.

1876
Isolation of anthrax

bacteria
Robert Koch



1877

Insect vector of disease established Sir Patrick Manson





Hygienic Laboratory opened on Staten Island, forerunner of NIH; Joseph Kinyoun, BV '82



1883
Isolation of diph-

theria bacillus

Edwin Klebs



1884

Carnegie Laboratory opened at University Medical College

1883

Discovery of cholera bacillus Robert Koch

"The laboratory and its expensive apparatus were viewed with great interest....Some of the germs, invisible to the eye, look large enough under the lens to sink an ocean steamer."

—The New York Times, 15 May 1885 on the opening of the Carnegie Laboratory

1882

Discovery of tuberculosis bacillus *Robert Koch* 1882

Cell division described Walter Flemming 1886

Loomis Laboratory opened at University Medical College 1889

Discovery of tetanus and diphtheria antitoxins *Emil von Behring*

1889

Induction of diabetes by pancreas removal Joseph von Mering





Discovery of mosquito transmission of yellow fever Walter Reed





First U.S. municipal laboratory for diagnosis opened: "inspector and diphtheria diagnostician," William Hallock Park director, Hermann Biggs



Culver Pictures, Inc.

1895

Discovery of X-rays Wilhelm Roentgen



1898

Discovery of radium Marie and Pierre Curie

1892

Discovery of phagocytosis *Ilya Mechnikov*

1896

Journal of
Experimental
Medicine
founded

1897

Side-chain theory of immunity stated *Paul Ehrlich*



Carrier Inc.

1903
Invention of electrocardiograph
Willem Einthoven

1900
Identification of human blood

groups Karl Landsteiner "Six months ago,...absolutely nothing was known concerning the propagation and spread of yellow fever... today the curtain has been drawn."

-Walter Reed, M.D.

1900

Interpretation of Dreams
Sigmund Freud

1901

Epinephrine isolated *Jokichi Takamine*

1903

Synthesis of polypeptides *Emil Fischer*

1906

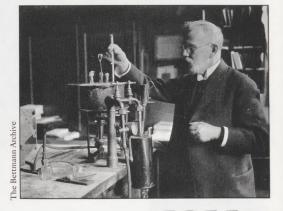
Identification of vitamins
Sir F. Gowland
Hopkins

1907

Discovery of sinoatrial node (cardiac "pacemaker") A. Keith, M. Flack



Prevention and cure of pellegra
Joseph Goldberger,
BV '95



1913

Schick test for susceptibility to diphtheria Bela Schick

1911

Arsphenamine developed for syphilis *Paul Ehrlich*

1911

Viral link to cancer in chickens demonstrated Peyton Rous

1915

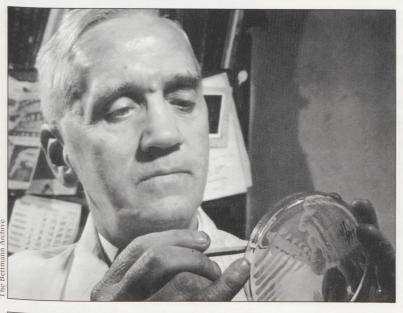
Induction of tumors with coal tar Koichi Yamagiwa, Katasusaburo Ichikawa

1917

Link between calorie consumption and energy established *Graham Lusk*, *R.J. Anderson*

1917

Discovery of heparin (anticoagulant)
William Henry Howell,
L. Emmet Holt





1928
Discovery of penicillin
Sir Alexander Fleming





ISOlation of insulin
Sir Frederick Banting,
Charles Best

1927

Conditioned
Reflexes
Ivan Pavlov

1929

Electroencephalography invented *Hans Berger*

Cancer Research

The discovery in 1775 by Pott that scrotal cancer in chimney sweeps related to prolonged exposure to soot began the modern period of cancer research.

Research continued to reveal environmental carcinogens, including ionizing radiation, coal-tar products, and azo dyes. It also identified both viral and hereditary factors.

The decades of microscopic exploration of the structure of cancer that followed the application of cell theory to pathology led to the important fact that cancer cells derive from normal cells.

1930s

Renal Study Group instituted Homer Smith, William Goldring, Herbert Chasis

1932

Discovery of Prontosil, first sulfa drug Gerhard Domagk 1935

Cortisone isolated *E.C. Kendall*





1932

Rheumatic Diseases Study Group organized Currier McEwen, '26

NATIONAL CANCER INSTITUTE

1937

National Cancer Institute established 1931

Invention of electron microscope C. J. Davisson, C. J. Calbick



YU Archives

10/40



1943

Discovery of streptomycin Selman Waksman

1940

Discovery of Dicumerol (anticoagulant) *Karl Link*

1940

Rh factor discovered Karl Landsteiner, P. Levine, A.S. Wiener 1944

DNA found to transmit heredity O.T. Avery, C.M. MacLeod



1949

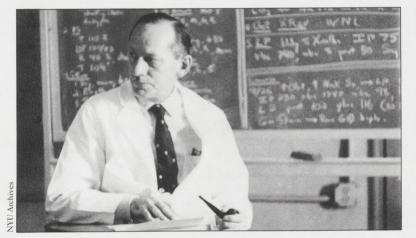
Streptokinase discovered William Tillett

"The addition of a major department of biophysics in the medical school might have as great an effect on the development of medical science in this century as biochemistry did in the past."

—Donal Sheehan, M.D.

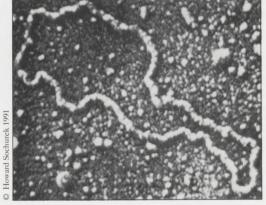
<u>The Mission of a Medical School,</u> 1945





NA Archives

1955
James Shannon,'29
named NIH
director



ODY TO

Transfer factor discovered H. Sherwood Lawrence, A.M. Pappenheimer

1953
DNA structure discovered
James Watson,

Francis Crick

<u>1955</u>

First polio vaccine developed *Jonas Salk*,'39

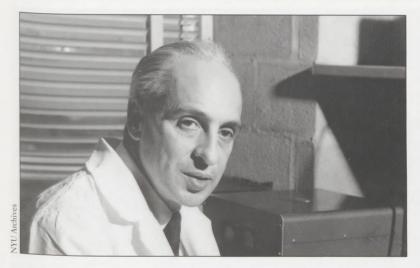
1950

Radioimmunoassay developed Rosalyn Yalow 1951

Oral contraceptives introduced *Gregory Pincus*

1956

Human growth hormones produced *Choh Hao Li*





1959
Severo Ochoa
awarded Nobel
Prize for medicine:
RNA synthesis
template

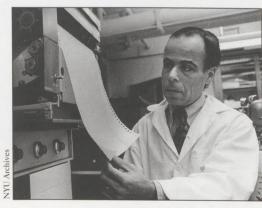
1961
Live-virus oral
polio vaccine
introduced
Albert Sabin, '31

NEW YORK

Herald Tribune

Established 121 Years Ago. A European Edition Is Published Daily in Paris TUESDAY, DECEMBER 19, 1961

Code of Life
Is Deciphered by 4 N. Y. U. Biochemists



1965

Rubella vaccine developed Saul Krugman, Louis Cooper

1967

First heart transplant *Christiaan Barnard*

1968

Mumps vaccine E.B. Buynak

1960

Clinical Research Center established at Bellevue



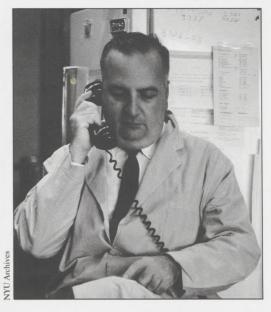


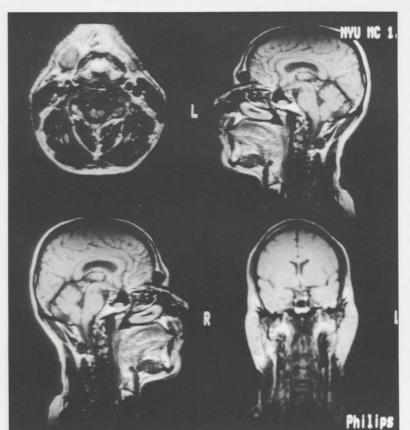
1972
Computerized axial tomography introduced

1970

National Medal of Science awarded to Michael Heidelberger "These studies on active and passive immunization for the prevention of viral hepatitis represent the culmination of fifteen years of effort by the New York University Medical Center group."

-Saul J. Krugman, M.D., 1971





1983

Magnetic resonance imaging introduced

1980

Baruj Benacerraf awarded Nobel Prize for medicine: immunogenetics



1982

Oncogenes identified Robert Weinberg, Mariano Barbacid

1984

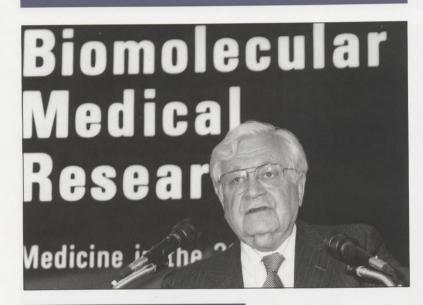
Identification of human immunodeficiency virus as cause of AIDS

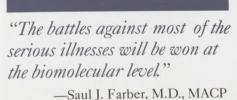
1980

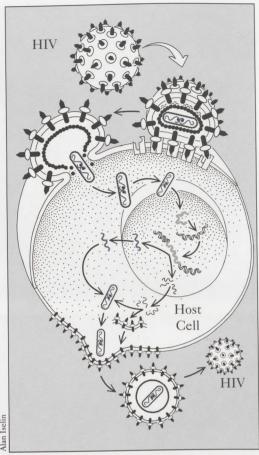
Vaccine against measles Saul Krugman

1981

Hepatitis-B vaccine Saul Krugman







1990s

Understanding and conquering AIDS

1990

Construction begins on the Skirball Institute for Biomolecular Medicine



1990s

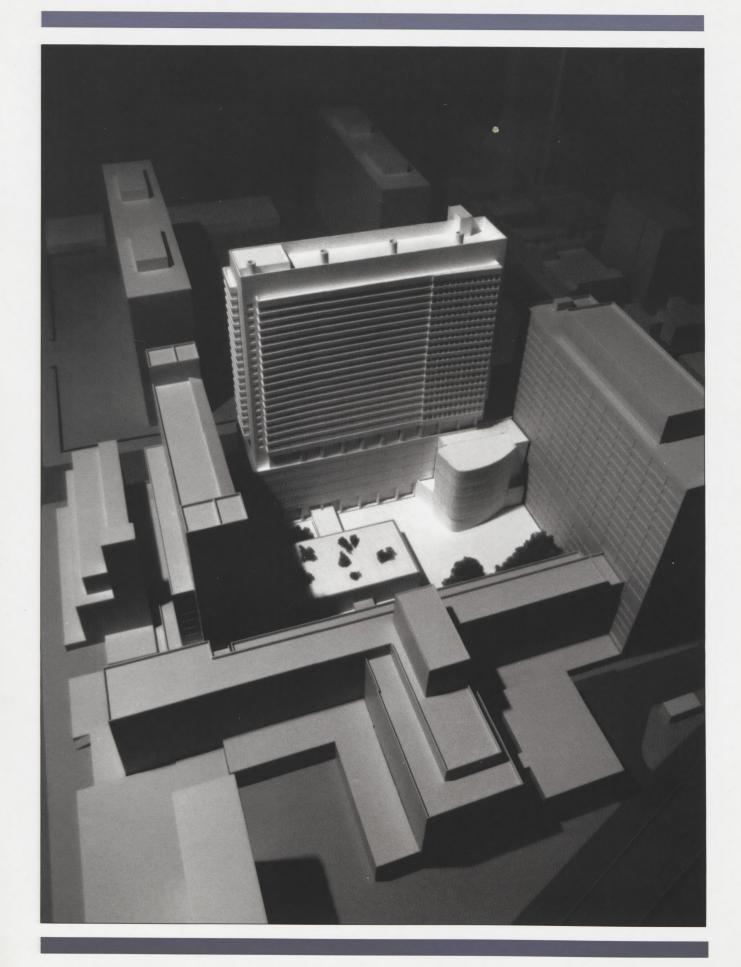
Monoclonal antibodies

1990s

Genetic engineering

1990s

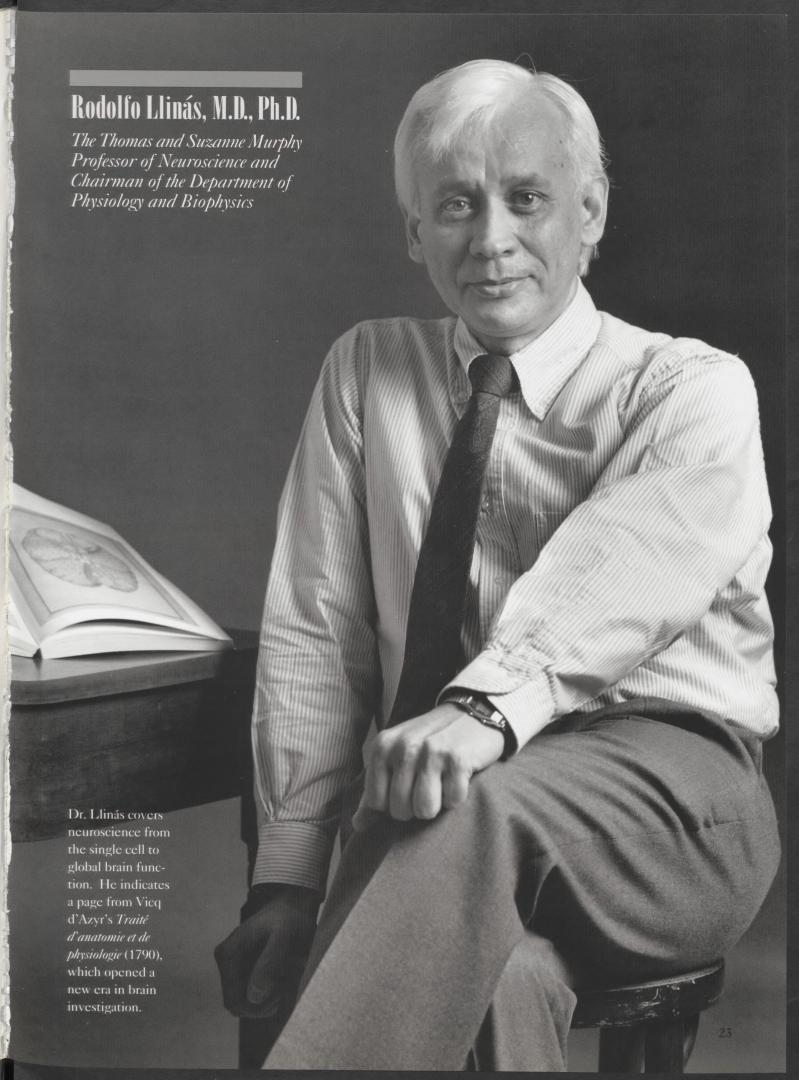
Human genome project



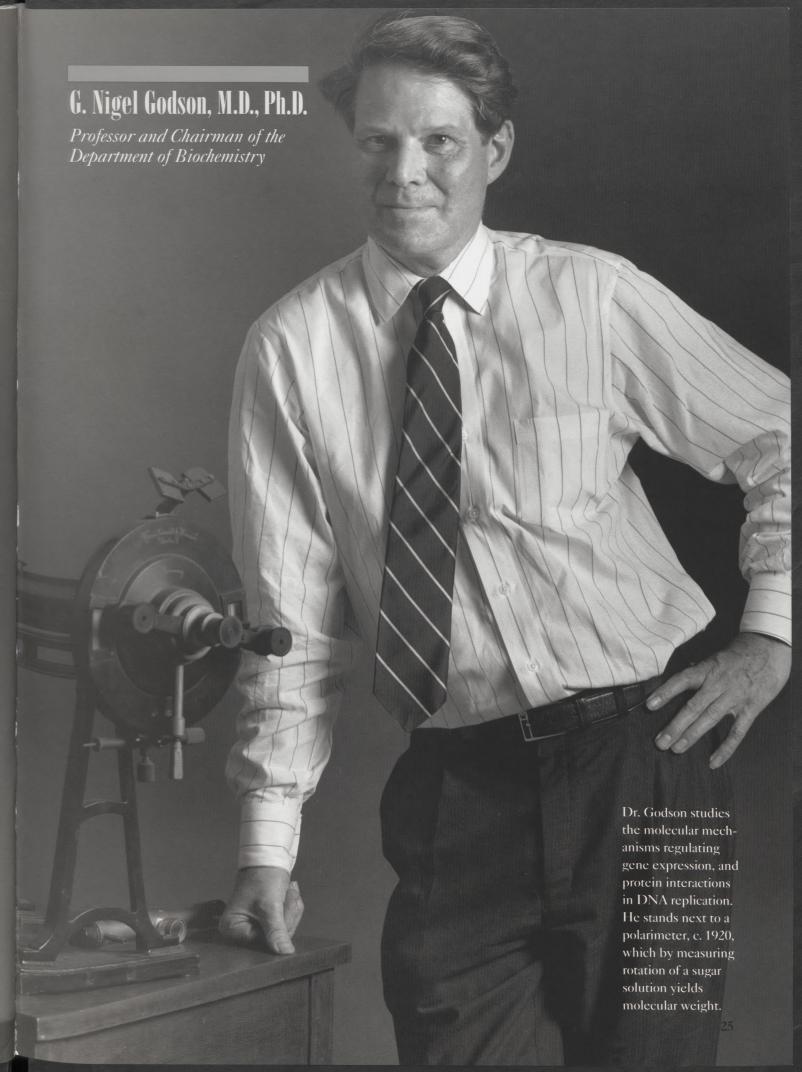
The Faces of Science CONTROL CONTROL

esearch is not faceless at NYU Medical Center. Since all of the men and women whose work is at the fore-front of biomedical progress could not be included, the research leaders—the chairs of the basic science departments and those holding endowed professorships—may stand in for their colleagues. Part of their achievement consists in their attracting and maintaining a superb cadre of physician-scientists.

The remarkable advances of biomedical research today notwithstanding, a continuity exists from the beginning of scientific medicine 150 years ago. Accordingly, each researcher is posed with an object that reflects an aspect of the history of his or her department. The heritage of the past is thus recognized as medicine embarks on a period of unprecedented scientific breakthrough.

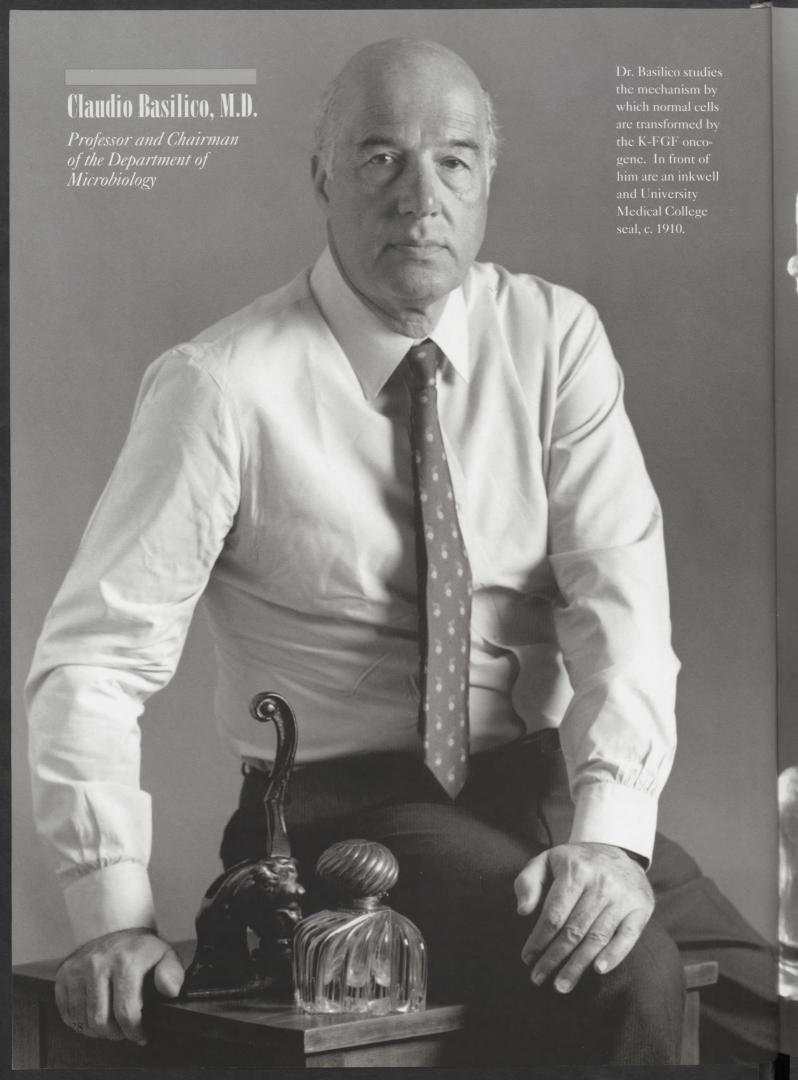


Arthur C. Upton, M.D. Professor and Chairman of the Department of Environmental Medicine holds a slide c. 1920 photographically.





David D. Sabatini, M.D., Ph.D. The Frederick L. Ehrman Professor and Chairman of the Department of Cell Biology Dr. Sabatini focuses on how newly synthesized proteins are targeted to function sites in the eukaryotic cell. He holds a c. 1920 microscope.





Victor Nussenzweig, M.D., Ph.D.

The Hermann M. Biggs Professor of Pathology

Dr. Nussenzweig studies how cells are protected from complement attack, and the immunobiology of protozoan parasites. He holds glass pipettes, used since the early 1900s.



Thriving in a Competitive Environment COMPETITION LIAISONS

protein that may cure septic infection; a magnet that could make magnetic resonance imagers "compact;" antibodies to treat AIDS; genetic weapons against cancer; a protein that treats skin ulcers.

What do these disparate bits of medical ingenuity have in common? They are discoveries made by NYU scientists that, thanks to collaboration with industry, may result in products which could greatly improve physicians' ability to fight disease.

Over the past decade, universities and corporations have been working more closely than ever. This growing cooperation is a result of the marked decline in federal support of research over the last decade, a decline which has increased the need to obtain new sources of research funding to supplement or replace funds that had come from the public sector.

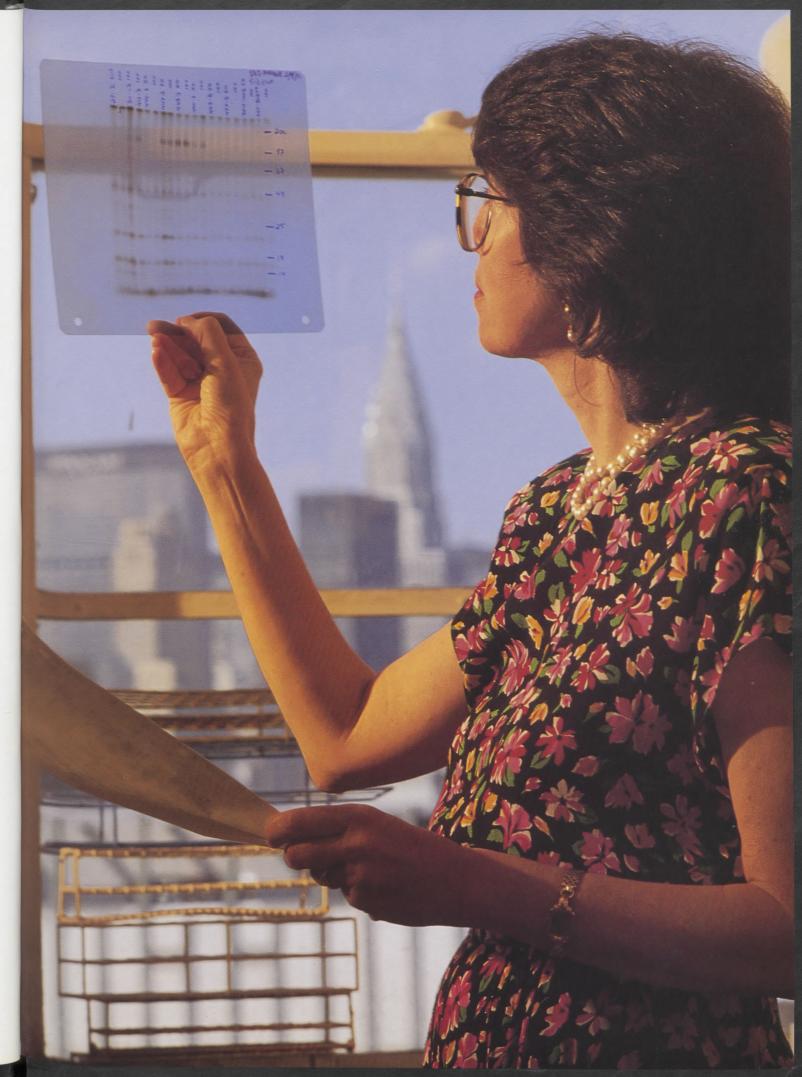
Academia needs the financial support that corporations can offer; and industry, seeking new business opportunities, often looks to the wealth of knowledge emerging from academia.

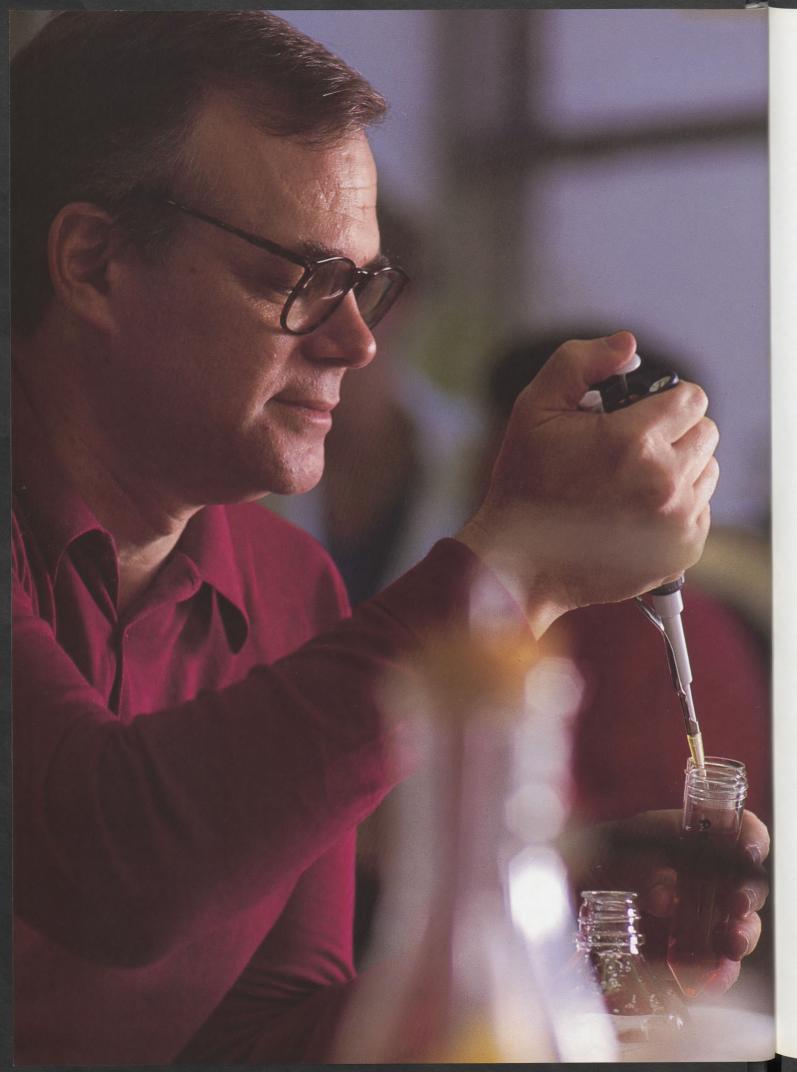
A perfect marriage? It can be, according to Isaac Kohlberg, Esq., vice-president for Industrial Liaison, who is responsible for technology transfer. Mr. Kohlberg came to NYU in 1989 to be the matchmaker between its scientists and corporations interested in supporting the development and commercialization of products based on university research.

The Office of Industrial Liaison identifies emerging technologies ripe for commercial development, establishes patent positions, generates support for ongoing research projects and develops research and license agreements with industry. It manages technology transfer not only for the School of Medicine, but for all the schools of New York University, serving as NYU's science and technology marketing arm. To that end it publishes a portfolio of research projects available for corporate development and partnership.

While commercially viable research collaboration with industry has always existed at NYU, Mr. Kohlberg and his staff actively investigate and establish specific commercial applications of ongoing research in order to bring potentially profitable technologies to industry's attention. In the two years since the creation of the Office of Industrial Liaison, research funding from industry has mushroomed from \$1.2 million in 1989 to the current level of over \$4.5 million; likewise, royalty income rose from \$150,000 to \$700,000 in the same period.

Susan Zolla-Pazner, Ph.D.: "In effect, an extension of my laboratory."





Questions Are Raised

oes the need to obtain funding from industry distract from pure research and the pursuit of knowledge? After all, many great discoveries came after years of study that at first may not seem to have had any application whatsoever.

Can a scientist serve two masters—the university and the corporation?

Does protecting and commercializing "intellectual property" in any way interfere with the free flow of information between scientists?

These are valid concerns, and the answers are not always simple. Consider the experience of four NYU scientists, and judge whether the technology transfer process has interfered with or enhanced their research.

Antibodies against AIDS: Susan Zolla-Pazner, Ph.D.

ne of the first scientists in the United States to describe the nature of the immunodeficiency suffered by people with AIDS, Susan Zolla-Pazner, Ph.D., professor of pathology, has been researching an antibody treatment for HIV infection since the early 1980s.

She began to isolate antibody-producing B cells (the infection-fighting cells produced in bone marrow) from people with AIDS, and developed a way to manufacture stable cell lines producing human monoclonal antibodies that may prove useful in the treatment and prevention of AIDS.

"I knew that taking this idea to its practical application would entail a great deal of time and effort," Dr. Zolla-Pazner recalled. "Much trial and error will go into selecting the most useful antibodies. I wanted to work with a company with expertise in HIV, one which would in effect become an extension of my laboratory."

Finding the corporation with the right match took more than two years.

"I did not realize how time-consuming this process would be. Matching academic research with the appropriate biotechnology company is really a stylized dance. And Isaac Kohlberg is a master choreographer," she commented.

Dr. Zolla-Pazner's antibodies were licensed to Medimmune Inc., a corporation which went public in early May, raising an initial \$25 million to develop products for clinical use.

Medimmune is attempting to develop three products from Dr. Zolla-Pazner's monoclonal antibodies. The first will be a "cocktail" of human monoclonal antibodies aimed at preventing transmission of HIV from an infected mother to her fetus. Clinical trials will begin within one to two years.

"If those results are positive, we will also use this cocktail in HIV-infected people to see if it slows the progress of the disease," Dr. Zolla-Pazner added.

The second product will be a modified monoclonal antibody to HIV, one which will be a powerful immunotoxin. The antibody will deliver the toxin to HIV-infected cells. This has worked in the test tube against HIV-infected cells; other immunotoxins are currently being developed to treat people with cancer.

The third product will use monoclonal technology to fight cytomegalovirus infection, a serious problem in immune-compromised people, including those receiving transplanted organs as well as people with AIDS.

Without Dr. Zolla-Pazner's interaction with industry, the results of her research might be significantly delayed—an intolerable state of affairs in the case of AIDS. "Hastening the fruits of research is worth every effort," she said.

Healing Skin Ulcers: Daniel B. Rifkin, Ph.D.

n NYU scientist's work with growth factors may soon result in a substantial payoff.

Chronic skin ulcers are a major source of discomfort for older people and for anyone with disabilities which make fre-

quent changes of position difficult. Synergen,

Inc., a Colorado-based biotechnology

company, is concluding clinical trials on

Daniel B. Rifkin, Ph.D.: "Science is a researcher's priority."

Trofak, a drug that heals these ulcers. Approval from the U.S. Food and Drug Administration is anticipated, and it is expected that Trofak will be on the market soon.

"Trofak represents NYU's first biotech product," noted Mr. Kohlberg. "The university can anticipate significant downstream royalty income."

How did this product come to be? Several years ago, Dr. Rifkin was able to isolate and characterize basic fibroblast growth factor, a naturally occurring protein that plays a vital role in angiogenesis, the regrowth of blood vessels, cartilage, and nerve cells.

Scientists at Synergen were able to clone the basic fibroblast growth factor molecule and devise a means of producing large quantities of it.

"Healing skin ulcers is just the beginning," said Bob Thompson, director of research at Synergen. "We think that basic fibroblast growth factor will have very broad applications, including bone repair and treatment of certain neurological disorders."

Dr. Rifkin is reflective about the patent process. "For some, being first may be attractive, but any scientist for whom that is a primary motivation is in the wrong line of work," he asserted.

Once a patent application is filed, intellectual property is protected, and scientific communication is virtually uninterrupted.

Yet he has nothing but praise for his collaboration with Synergen. "Without them, we could not have made such progress. They also saved us a great deal of expense by providing us with a substantial supply of recombinant protein."

While Synergen develops the drug, Dr. Rifkin is continuing to study growth factors and to probe their secrets. "My job as a scientist is to make discoveries, not to establish what the commercial applications might be," he said. "NYU has made it quite clear that science is a researcher's priority."

Blocking Receptor Proteins in Cancer Cells: Joseph Schlessinger, Ph.D.

oseph Schlessinger, Ph.D., the Kimmelman Professor and chairman of the Department of Pharmacology, came to NYU via a somewhat atypical route. For several years he held a high-level position at a biotechnology company. He has first-hand experience in both the academic and corporate spheres.

The former research director at Rorer Technology, Dr. Schlessinger says, "Although the company provided me with access to many resources and I had more than a hundred people working under me, I knew I had to return to academia. Because I have some talent at running things, there was continuous pressure on me at Rorer to stop being a scientist and be an administrator.

"The science is much more important to me; I'll be an administrator after I retire from the lab."

The outspoken scientist has made the study of growth factors and cell receptors his life's work. "It is absolutely essential for us to understand normal cell growth and differentiation," he said. "In that way we will be able to devise the means to block abnormal cell growth."

Dr. Schlessinger's research has been instrumental in recognizing receptor proteins in cancer cells and discovering that these proteins can be blocked with different agents. "If we can use this knowledge to develop a drug to block these receptors from receiving growth factors, the cancer cells will not grow."

NYU has recently applied for several patents involving this technology. One covers a new system for identifying the target proteins of certain receptors. Using this system, drugs with the potential to treat cancer and diabetes can be identified to see if any fit the target receptors.

Dr. Schlessinger is collaborating on some of this research with Axel Ullrich, Ph.D., of the Max Planck Institute in Munich. The Office of Industrial Liaison is exploring the possibility of entering into a research and license agreement with a "start-up" company formed around this technology, which will provide research funding for NYU totaling \$3 million over three years.

Will this new company distract Dr. Schlessinger from his research?

"Oh, no," he protested. "We are simply interested in developing promising leads to catch the interest of one of the large pharmaceutical companies, which will invest the millions of dollars and the personnel necessary to bring a new drug to market."

He explained that diversified sources of funding allow scientists increased research flexibility. "Our primary goals are conducting research and teaching. If in the course of these activities we discover something that could become a commercial product, it is our responsibility to capitalize on it."

He is most excited about his current project: his laboratory has recently identified several new tyrosine phosphatase receptors. In addition to its impact on diabetes, this research may have applications to cancer treatment.

"In Type I diabetes, the pancreas either does not produce insulin or produces it in insufficient amounts," he explained. "In Type II, enough of the hormone is manufactured, but the cells are not respon-

sive to insulin although they have an insulin receptor. If we can manipulate that . . . "

He paused for a moment. "We have so many ideas."

Cytokine Research: Jan Vilcek, M.D.

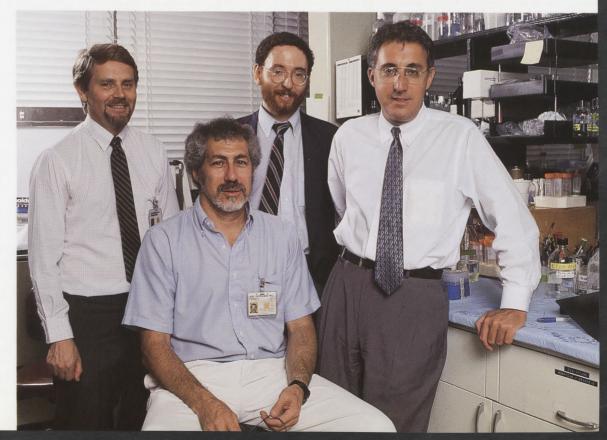
ince the early 1970s, Jan Vilcek, M.D., professor of microbiology, has been researching cytokines, a potent class of immune-system hormones that include the interferons. He first found a method to produce beta interferon in 1975 and published the data without giving thought to a patent. Later another scientist patented a slightly modified version of Dr. Vilcek's technique.

"I realized that we should have filed a patent application to protect our intellectual investment," he reflected. "This incident sensitized me to the importance of patents."

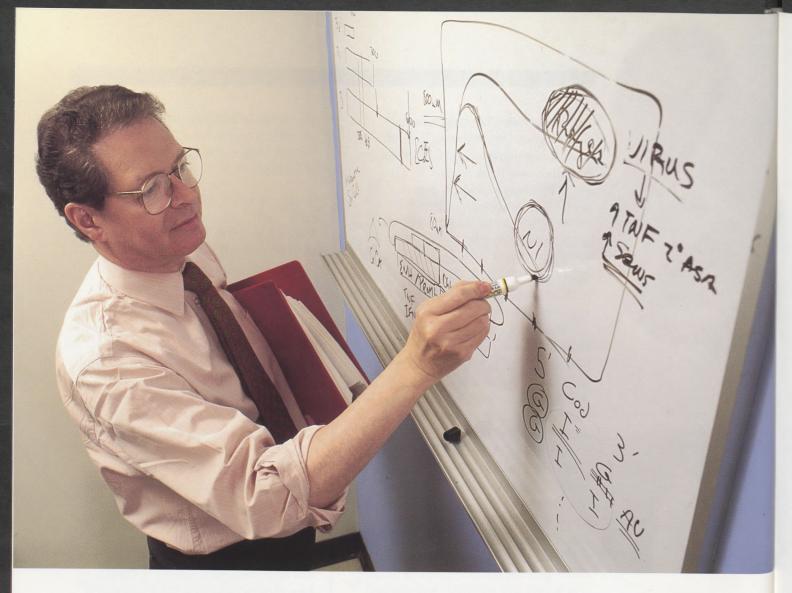
Since then, Dr. Vilcek and his associates have continued their research on interferons and have collected a number of patents.

One of them pertains to the production of monoclonal antibodies to gamma interferon.

This procedure, developed by Dr. Vilcek



The leadership team: Evan Stringer, Ph.D., Director of Industrial Liaison; Joel Oppenheimer, Ph.D., Associate Professor of Microbiology and Director of Scientific Affairs; Larry Schlossman, Office Administrator; Isaac Kohlberg, Esq., Vice-President for Industrial Liaison.



and Junming Le, Ph.D., research associate professor of microbiology, has been licensed to Centecor, Inc., for use in diagnostic testing.

Recently, Dr. Vilcek's work with Centecor has taken a new direction: the study of tumor necrosis factor.

Tumor necrosis factor was so named because it kills tumors. However, in large quantities it can become harmful to healthy tissues and can actually poison the body, as in the case of septic shock.

While working to develop a method to block this deadly action, Dr. Vilcek and Tae H. Lee, a graduate student in the Sackler Institute program, devised a means to produce monoclonal antibodies that neutralize this powerful cytokine.

Unlike Dr. Zolla-Pazner's antibodies, these are genetically engineered proteins made of fused antibodies from mice and from human material. They are called chimeric monoclonal antibodies, after the Chimera, the beast of Greek mythology that combined traits of different species.

"Laboratory tests have been very encouraging," Dr. Vilcek said. "Phase I human clinical trials using these antibodies against sepsis will begin soon."

Because tumor necrosis factor is overproduced in multiple sclerosis, the researchers hope that the antibodies may be able to halt the destructive course of that disease. Other potential applications include treatment to reduce rejection of transplanted organs and to lessen the severity of autoimmune disorders.

"Without the support of industry, we would not have been able to move nearly so quickly on these projects," Dr. Vilcek said.

A New Antibacterial, a Miniature Magnet

used to view the academic environment as incompatible with the pharmaceutical world," says Peter Elsbach,
M.D., professor of medicine. But now that

Jan Vilcek, M.D.:
"We need to protect our intellectual investment."

NYU has signed a licensing agreement with Xoma Corporation to develop drugs from his discovery of bacterial permeability increasing protein, he is very excited about the prospects.

This protein is a very powerful antibacterial agent, with potential as a drug treatment for sepsis and other serious infections.

"I like the people; I like the company," Dr. Elsbach said. While the Office of Industrial Liaison orchestrated the eventual match between Dr. Elsbach and Xoma, the process of finding the right company was not exactly a pleasurable one. "I frankly was quite bored going from meeting to meeting with various people from industry," he recalled. "I would rather be spending time in my laboratory."

Now that this agreement has given him a financial cushion, he is able to do exactly that.

While most recent NYU patents represent tiny bits of matter too small to be seen, products that result from the work of Manlio Abele, Ph.D., research professor of radiology, can be held in one's hand.

These products are powerful magnets constructed using a new formula devised by Dr. Abele. One result of his mathematical brainchild could be a magnetic imaging devise small enough to fit into an operating room. MRI scanners are now so massive that entire rooms are dedicated to housing them.

NYU has recently signed an agreement with Esaote Biomedica to develop MRI equipment using Dr. Abele's formula.

Avoiding Conflicts of Interest

eeking to avoid potential conflicts of interest in research, the Medical Center has convened a Conflict of Interest Committee, chaired by Dr. Vilcek, to develop a new set of guidelines.

"One situation that should never be allowed is to have a physician who is in charge of clinical trials of a potential new drug hold stock in the pharmaceutical company that manufactures it," Dr. Vilcek said. "We never want someone's observations to be more positive than reality because he or she has a financial stake in the outcome."

The Overall Effect

oes fear of jeopardizing a possible patent position restrict the free flow of information between scientists? Although a legitimate concern, there is no such problem at NYU, according to Mr. Kohlberg, who emphasizes his conviction that open scientific exchange is both imperative and inviolable.

"We have no policy to control what our faculty says or publishes, nor would NYU permit any such controls to be placed upon its faculty," he stated. "Furthermore, once we file for a patent—and we can file very quickly—the intellectual property is protected." Communication of scientific data is thereby virtually uninterrupted.

He relays a tale of a researcher who came into his office just days before he was scheduled to give a presentation on his latest discovery. Mr. Kohlberg and his staff were able to review the material and file a patent application so that the presentation was in no way delayed or restricted, yet the discovery enjoyed full protection.

Dr. Rifkin agrees. "I have never been discouraged from lecturing or publishing."

Similarly, Mr. Kohlberg insists there is no pressure to generate profitable patents or make sure that all research leads to lucrative applications.

"However, medicine is an applied science," Mr. Kohlberg said. "The public has a right to expect that medical research will lead to better ways of healing and preventing disease."

NYU now ranks thirteenth in the nation in terms of attracting corporate funding. While this standing demonstrates that the Medical Center is already an important competitor in the marketplace, the construction of the Skirball Institute and the recruitment of world leaders in biomedical research will make Mr. Kohlberg's job both more necessary—in the matter of raising funds—yet in some ways, easier.

"Success begets success," he observed. "Industry wants to invest in institutions with a track record and with a commitment to the future. NYU has both." ∇

The Diamond AIDS Research Center Control Contr

ellow fever raged for centuries around the world until NYU alumni Walter Reed, M.D., and William Gorgas, M.D., mastered the understanding of the disease and found a means to control its devastation at the beginning of the twentieth century.

Polio terrified Americans for nearly half a century until NYU alumni Albert Sabin, M.D., and Jonas Salk, M.D., developed the two vaccines that brought that viral disease under control in the late 1950s.

In recent years, Saul Krugman, M.D., professor of pediatrics, was instrumental in developing the first genetically engineered vaccine to combat another life-threatening disorder, hepatitis B.

With this record of contributing to the end of major public health threats, the NYU School of Medicine enters its sesquicentennial mounting a powerful response to the latest viral killer that has claimed victims around the world: acquired immune deficiency syndrome, AIDS.

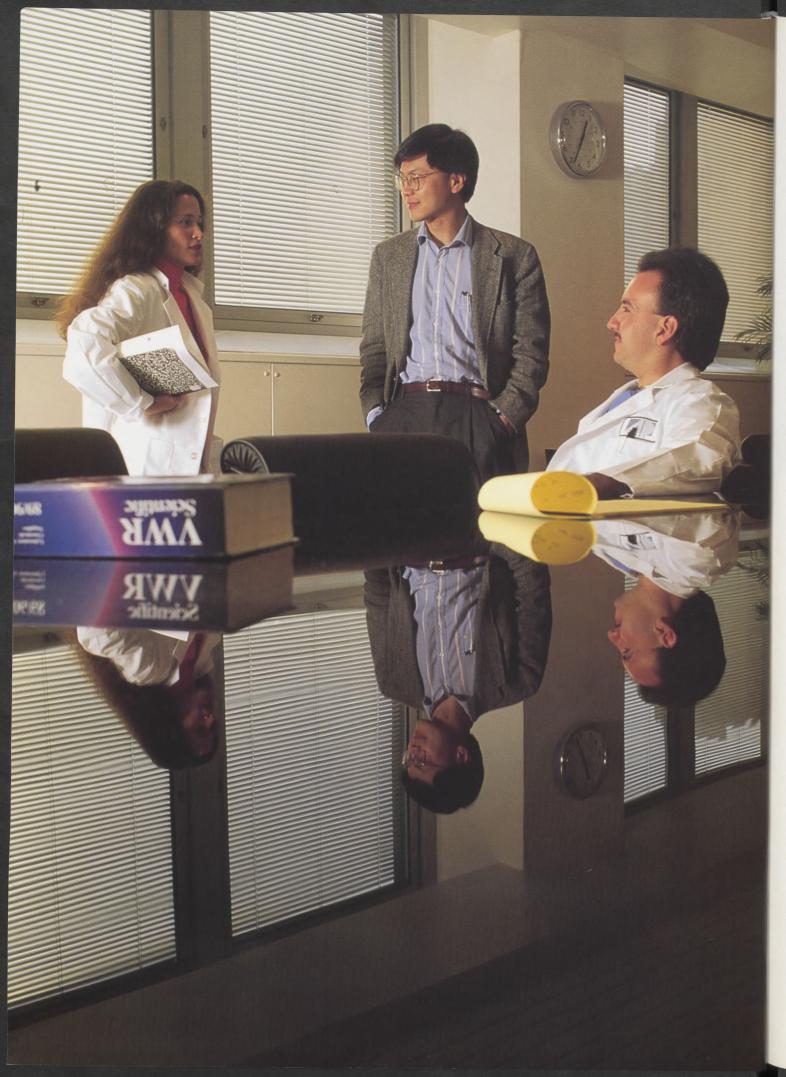
It was only a decade ago that NYU faculty members were among the first in the nation to identify Kaposi's sarcoma, a rare skin cancer, and pneumocystis pneumonia, an infection found only in people with suppressed immune systems, as manifestations of a then undefined syndrome which primarily affected otherwise healthy male homosexuals.

Partners in Research

en years later, in an historic partnership with New York City, NYU Medical Center, and the Public Health Research Institute, the Aaron Diamond Foundation has opened the Aaron Diamond AIDS Research Center for the City of New York, one of the largest and most advanced AIDS research laboratories in the world. It is certain to play a leading role in unlocking the secrets of the human immunodeficiency virus (HIV) and thereby facilitate a cure for AIDS.

With its superb medical and scientific community, and the highest concentration of people with AIDS in the the United States, New York City is the logical place for research on the disease to be centered.





Some 32,000 New Yorkers have developed AIDS since 1981, and health officials project that there will be 36,000 additional people with the disease in the city by 1995.

The municipal government contributed \$3.4 million to the Aaron Diamond AIDS Research Center, the largest city commitment to medical research since the quest for a polio cure in the 1940s. It also provided the space for the center in a building owned by the New York City Department of Health on First Avenue and Twenty-sixth Street, directly across from Bellevue Hospital Center and a few steps from Tisch Hospital and the New York Veterans Administration Medical Center.

The Aaron Diamond Foundation was established in 1955, and received a major bequest from the estate of Aaron Diamond, a real-estate developer, after his death in 1984. The foundation specializes in grants for medical research (primarily relating to AIDS and drug abuse), minority education, the arts, and human rights and civil liberties in New York City. The Diamond Foundation gave \$8 million to construct the AIDS research facility that bears its name.

The foundation's president is Irene Diamond, Aaron Diamond's widow, who has been instrumental in providing funds for a wide array of programs at NYU Medical Center, including substantial support for nine research projects.

A World Leader

hen fully staffed within the next two years, some fifty researchers, including seven principal investigators, will be in place. The center will rank in size and importance with such leading AIDS research centers as those at the National Institutes of Health in Bethesda and the Pasteur Institute in Paris.

Anthony S. Fauci, M.D., director of the National Institute of Allergy and Infectious Diseases, said that the laboratory "promises to be a scientific research magnet, attracting scientists from many disciplines and spawning collaborative ventures."

Mathilde Krim, Ph.D., a co-founder of

the American Foundation for AIDS Research (AMFAR), said that the center "will provide access to sophisticated equipment and resources not currently available to many of the city's researchers."

"We have not had this kind of laboratory in New York City since LaGuardia was mayor, and the city desperately needs it," Mrs. Diamond said.

"Opening this laboratory is an act of faith in our ability to end this epidemic through creative, hard work," noted Mayor David N. Dinkins at the opening ceremony on April 16. "Today, all of us become partners in the quest for the cure for AIDS.

"This is a day of hope for all New Yorkers."

A Stellar Staff

o ensure that this hope was well founded, an energetic leader in AIDS research was sought to head the Diamond Center. A search committee was formed; NYU's member was Vittorio Defendi, M.D., the Mary Ellen and Gerald Jay Ritter Professor of Oncology and chairman of the Department of Pathology.

The director that the committee chose is David D. Ho, M.D., professor of medicine and microbiology, formerly of the University of California at Los Angeles School of Medicine.

While NYU physicians were seeing the first AIDS cases on the East Coast, Dr. Ho saw the first cases in the West, which were actually the first five cases recorded by the Centers for Disease Control in 1980.

"No one had ever heard of an infectious disease that could wipe out the immune system," Dr. Ho recalled. "I was fascinated with the scientific implications. Then, when in the next six months to a year it became apparent that this disease was spreading rapidly and had the potential to become an epidemic, my interest quickly became humanistic as well as scientific."

He continued, "I am honored and excited to have been chosen to head this center, which can draw on the efforts of an outstanding cadre of NYU scientists."

Sonya Lopes, administrative assistant, and Michael Mirabile, research technician, at an informal meeting with David D. Ho, M.D., the Diamond Center's director.

The productivity of this exceptionally gifted investigator and the team which he leads has been characterized by an abundance of consistently high-quality contributions which have moved knowledge of AIDS ahead at strategic points.

He brings with him not only that team, which will form the nucleus of his recruitment efforts, but also a substantial amount of grant support from federal and private sources, in addition to the Diamond Foundation's generous commitment of \$1 million annually over five years for the facility's construction and initial operating budget.

Dr. Ho is credited with a number of significant discoveries, including isolating HIV in semen; detecting and characterizing several significant antibodies that neutralize the virus; and defining the primary infection stage of AIDS, a set of symptoms including rash and fever that usually occurs several weeks after exposure to HIV, and from which nearly all patients recover completely.

Dr. Ho's most recent published article, in the April 4, 1991 New England Journal of Medicine, describes the viral burden during the early stages of HIV infection. "We have shown that the initial spread of the virus is very rapid—from undetectable to very high levels within ten to fourteen days of the onset of primary infection symptoms," Dr. Ho stated. "Then the body mounts a powerful immune response. Within another two weeks, the virus has almost disappeared from the body and is barely detectable."

He continued, "What we have learned from this study is that the body can bring levels of the virus down from 10,000 infectious units to just 1 in about ten days. If we can understand this response better, we might have a means to provide patients with better health for a longer period of time.

"We also need to learn why the virus level eventually builds up again after lying dormant for years. Does this mean the patient has lost an effective immune response, or has the virus mutated to escape the response? If we can answer this question, we will know more about how to fight HIV."

In addition to leading the Diamond AIDS Research Center, Dr. Ho will co-direct the Center for AIDS Research (CFAR), a

How HIV Infects Cells

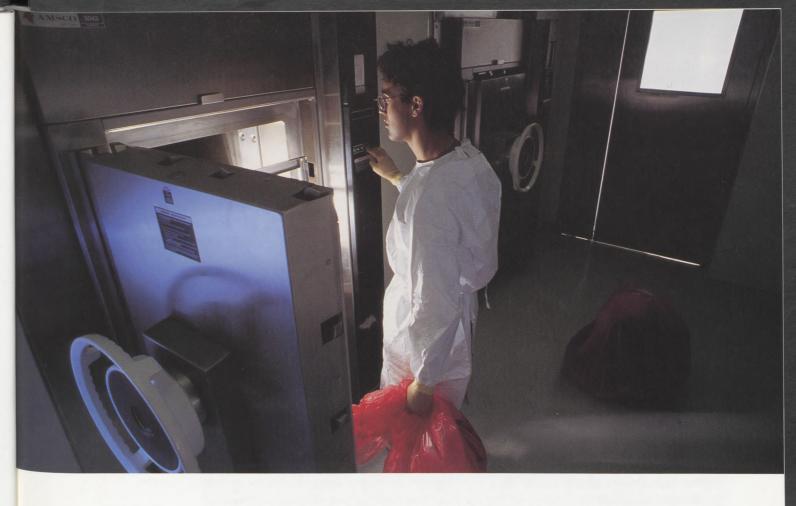
IV attacks cells through the CD4 receptors, the appendages present on the T4 lymphocytes that serve to exchange information with other immune system cells. HIV's outer shell (the envelope glycoprotein) is equipped with an appendage called gpl20, a glycoprotein molecule which happens to be a perfect fit for the CD4 receptor. When these molecules connect, the RNA and reverse transcriptase (the enzyme present in all retroviruses) of HIV flow into the infected cell's interior.



Measuring the titers of HIV in amniotic fluid.

HIV is now a feature of the cell. Reverse transcriptase converts HIV's RNA into DNA, which integrates itself into the host cell's chromosomes and directs the cell to manufacture more of the virus.

Eventually the host cell is directed to produce new strands of viral RNA, which become the blueprint for the manufacture of new HIV capsules. These eventually float off in the bloodstream and infect other cells. The host cell is killed in the process.



Research fellow

Daan Notermans conveys

waste to an autoclave for

sterilization prior to

disposal.

consortium consisting of NYU Medical Center, the Diamond AIDS Research Center, and the Public Health Research Institute.

Shared Resources

FAR was designed to coordinate and facilitate AIDS research and to stimulate new research in every part of the Medical Center. This goal is to be realized through the formation of interdisciplinary research programs and shared resource facilities, recruiting and developing promising AIDS investigators, and stimulating interdisciplinary collaboration and communication between basic science and clinical research.

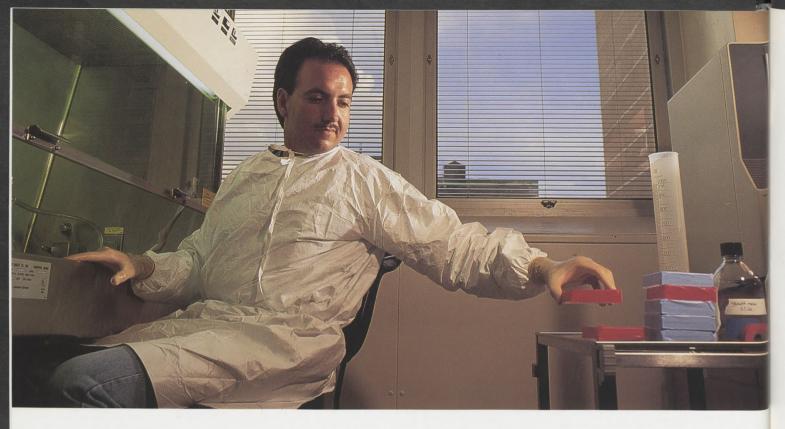
Another leading AIDS researcher who joined the Diamond Center is Richard A. Koup, M.D., assistant professor of medicine, from the University of Massachusetts. An acknowledged expert on cellular immune responses to HIV, Dr. Koup was drawn to the center by Dr. Ho's reputation and the facility's overall caliber.

Dr. Koup is studying resistance to zidovudine (formerly called azidothymi-

dine, or AZT) in order to learn why the drug eventually loses its effectiveness. Zidovudine inhibits the replication of some retroviruses, including HIV.

"The resistance problem is apparently more serious than the initial reports suggested," he said. "We are looking at new ways to attack the virus at weak points in its reproductive cycle." An active recruitment effort is underway to bring five additional staff scientists to head up independent research programs in the new center.

Ongoing research at NYU will be richly complemented by the resources of the Diamond Center. Collaborations include studying maternal-fetal transmission of HIV, William Borkowsky, M.D., associate professor of pediatrics, and Keith Krasinski, M.D., associate professor of clinical pediatrics; assessing the efficacy of anti-CD4 monoclonal antibodies, Franco Celada, M.D., professor of pathology; detecting HIV in the liver and intestines, Douglas Dieterich, M.D., clinical assistant professor of medicine; quantifying HIV in blood components, Simon Karpatkin, M.D., professor of medicine; investigating HIV decay, Mindell Seidlin, M.D., assistant professor of clinical medicine; evaluating the effectiveness of new AIDS drugs, Fred



Valentine, M.D., associate professor of medicine; and testing monoclonal antibodies against HIV, Susan Zolla-Pazner, M.D., professor of pathology.

The Laboratories

hen exiting the elevator of the seventh floor of the Public Health Building, a visitor immediately experiences a sense of purposeful serenity. The carpet in the elevator area and the accompanying sculpture feature the double-helix pattern of the DNA molecule. They are the inspirations of an architect with AIDS who works for Lord, Aeck and Sargent, the firm which designed and oversaw the construction of the Diamond Center.

Blonde wood panels line the corridors, and the laboratories are widely spaced, well lit, and arranged with the needs of the people who will work in them kept constantly in mind. Equipment includes the usual computers, powerful microscopes, and high-speed centrifuges, as well as a quarter-million-dollar cell sorter and analyzer.

Of prime importance is the amount of space devoted to the level III containment facility. (The Centers for Disease Control identifies four containment levels, with IV representing maximum containment; this is used, for example, when working with the

virus that causes smallpox.) In this 6,000-square-foot area, workers wearing disposable gowns enter through two sets of doors, with air flow from the outside always directed into the facility. Exhaust air is filtered, and waste material is sterilized in a huge modern incinerator.

"Although HIV can be studied in a level II area, the extra level of containment allows us a superior margin of safety and the capability to work with large amounts of the virus," Dr. Ho observed. "It also allows us to have a room for SCID mice."

These mice have severe combined immunodeficiency (SCID), a genetic disorder resulting in the lack of lymphocytes. They are so immunodeficient that human cells can be grafted into these animals without rejection.

"The human cells grow and thrive within the rodent," Dr. Ho explained. "Because these are human cells, the animal becomes susceptible to HIV infection. This animal model is extremely useful in testing drugs."

A Source of Vast Data

n the ten years of the epidemic, its demographics have shifted. Intravenous drug users, their sexual partners, and their children are now the fastest-growing segment of HIV-infected people.

Prepping P24, an experiment to test for antibodies to HIV.

AIDS Research at NYU: A Ten-Year Review

n June 1981, Alvin Friedman-Kien, M.D., professor of dermatology and microbiology; Kenneth Hymes, M.D., assistant professor of medicine; and Linda Laubenstein, M.D., assistant professor of clinical medicine, gave the first full report on Kaposi's sarcoma in homosexual men in the syndrome soon to be called AIDS.

In November of that year, Jeffrey Greene, M.D., clinical associate professor of medicine, gave the first presentation on opportunistic infections in intravenous drug users and homosexual men.

Shortly thereafter, Susan Zolla-Pazner, Ph.D., professor of pathology, described the nature of the immunodeficiency present in the first nineteen patients, all homosexual men, who were diagnosed with AIDS at the New York Veterans Administration Medical Center.

Early in 1982, Michael Marmor, Ph.D., associate professor of environmental medicine, devised a study to determine if the immunodeficiency Dr. Zolla-Pazner described was also present in asymptomatic homosexual men—the first study to document damage to the immune system in people who were not yet ill. Dr. Marmor continued his research for the next six years, publishing a number of original reports on the natural history of HIV infection.

In 1984, NYU's Kaplan Cancer Center received a federally sponsored Master Agreement for clinical studies of AIDS through the efforts of Fred Valentine, M.D., professor of medicine and head of NYU's AIDS Clinical Trials Group. As part of that agreement, Robert Holzman, M.D., associate professor of medicine, led clinical trials to measure the effectiveness of the antibiotics trimethoprim and sulfamethoxazole (Bactrim) and sulfadoxine and pyrimethamine (Fansidar) against pneumocystis pneumonia.

In recognition of its leadership in the field, NYU became one of the original



fourteen centers to be named an AIDS Treatment and Evaluation Unit in 1986 by the National Institutes of Health, which has been the principal support for the study of new therapies against AIDS.

In 1989, the National Institute of Allergy and Infectious Diseases awarded a grant to NYU Medical Center to create the Center for AIDS Research (CFAR) under the direction of H. Sherwood Lawrence, M.D., the Jeffrey Bergstein Professor of Medicine, co-director of NYU Medical Services and head of the Division of Infectious Diseases and Immunology.

The Diamond AIDS Research Center is a major component of CFAR. Dr. Lawrence observed of Dr. Ho's appointment as CFAR co-director, "This has strengthened CFAR's administrative base, broadened the scope and depth of its scientific activities, and stimulated a wide range of collaborative enterprises with CFAR members designed to bring the latest scientific discoveries to practical clinical application in the care of people with AIDS.

"Moreover, the availability of the Diamond AIDS Research Center's splendid laboratory complex specifically equipped with high-level containment facilities will allow larger amounts of AIDS virus to be grown, and studies using HIV-infected SCID mice to be carried out in safety—activities vital to the design and *in vivo* testing of candidate AIDS vaccines."

Scientists at the Diamond Center will have easy access to a wide and varied pool of patients, patient materials, and ongoing clinical and epidemiological studies at the Medical Center.

This will be advantageous for both scientists and patients. "We want not only to perform basic research, but also to ask questions that are directly relevant to patient care," Dr. Ho asserted. "We want to determine how HIV destroys cells in patients, not just in the test tube."

The Diamond Center's main area of study is pathogenesis, the mechanisms by which HIV infects cells, causes disease, and damages organ systems. Once these mechanisms are understood, effective vaccines and drug treatments can be devised.

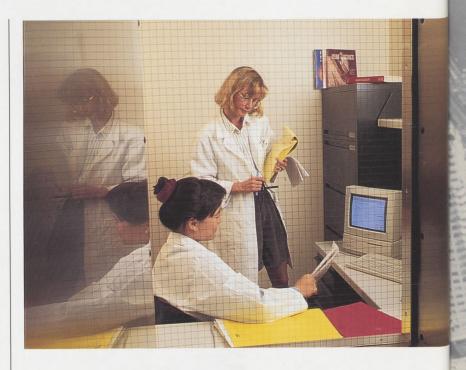
"In order to create an effective vaccine, we have to know exactly which parts of the virus to target," said Dr. Ho. "If a vaccine's antibodies are directed against the critical areas, then it will block infection. Otherwise, it will not."

Currently, work is centered on an HIV surface structure, the envelope glycoprotein. This protein appears to govern both the virus's binding to susceptible cells and its entry into the host cells. Scientists are mapping the sites on the envelope glycoprotein that are functionally important for the virus. Those are the sites that need to be targeted by the immune responses induced by a vaccine.

Other research in the center is focused on killer T-cells. These cells, produced by the thymus gland, kill cells bearing foreign antigens, which identify them as not belonging to the host organism. "Certain protein sequences in the virus can be recognized and disrupted by killer T-cells," Dr. Ho emphasized. "Defining these sequences will help toward development of an effective vaccine."

The Future of AIDS

r. Ho exudes a calm and deliberate hopefulness. "Since I work in the field, I am by definition an optimist," he said.



Research fellow Ruth Connor, Ph.D., reviews data with student fellow Jennifer Lee.

He points to the enormous amount of information that has been learned in just the seven years since HIV was identified. In fact, more is known about this virus than about any other.

The outlook for drug treatments is promising, Dr. Ho stated. "Many candidate drugs are in the testing pipeline, each of which targets a specific aspect of the virus's life cycle."

As for vaccines, while early attempts to develop one were unsuccessful, recent studies with SIV (simian immunodeficiency virus, a close relative to HIV that causes an AIDS-like disease in monkeys) demonstrate that immunity can be bestowed in monkeys.

These experiments were set up with optimal conditions, challenging the animals shortly after inoculation with the same strain of SIV used in the vaccine. Still, the results are encouraging.

"So far, I do not see any vaccine or drug on the list that can be called a cure," Dr. Ho cautioned. "But with the right combination of drugs and with more knowledge of the virus, it is possible that in five years or so I will be able to see a definitive cure on the horizon."

FALL 1991



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For the Alumni, Faculty, and Friends of the NYU School of Medicine







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NEWS FROM THE SCHOOL

Oliva Named President and Medical Alumnus

This year has been an auspicious one for L. Jay Oliva: not only has the chancellor of New York University been designated president elect by the university's Board of Trustees, but he has also been made an honorary member of the School of Medicine's Alumni Association, class of '91.

The Alumni Association noted its pride to include among its members the person "who is entrusted with guarding the health, well-being, and pursuit of excellence of the unified body which comprises this great university."

Dr. Oliva, who will succeed to the presidency when John Brademas becomes president emeritus in March 1992, has been associated with NYU since 1960, serving as professor, dean, vice-president, provost, and chancellor. A scholar of eighteenth-century Russia, he is the first faculty member in NYU's 159-year history to assume the presidency.

"In Dr. Oliva, we have not only a great teacher and an outstanding scholar, but someone who understands how a university functions on every level," said Laurence A. Tisch, chairman of NYU's Board of Trustees and himself an honorary medical alumnus class of '86.

"There is no finer choice to guide NYU through the coming decade," Dr. Brademas said of the president-elect and new medical alumnus.

Freedberg Receives First Beckman Award

or his "outstanding commitment to Jewish and humanitarian concerns," Irwin M. Freedberg, M.D., the George Miller Mackee Professor and chairman of the Department of Dermatology, was awarded the first E. Mark Beckman Memorial Award by the United Jewish Appeal-Federation of Jewish Philanthropies.

At a ceremony on March 26 announcing the award, Dr. Saul Farber presented the award to Dr. Freedberg, under whose ten-year chairmanship the Department of Dermatology has become a world-wide model of dermatological research and clinical study.

Dr. Freedberg serves as president of the Medical Board of Bellevue Hospital Medical Center, the Society of Investigative Dermatology, and the

Association of Professors of Dermatology. He is also treasurer of the American Dermatological Association, and chairman of both the Program Committee of the XVIIIth International Congress of Dermatology and the Committee on Health Policy of the of the American Academy of Dermatology.

The award bears the name of the esteemed and well-loved professor of obstetrics and gynecology and director of the Division of Gynecologic Oncology, who died in a bicycle accident in 1989.

"I am deeply honored to receive an award from so important an organization as UJA-Federation, as well as one that commemorates an outstanding colleague and physician," Dr. Freedberg said.

Dr. Farber Elected Chairman of the NY Academy of Medicine

The New York Academy of Medicine has elected Saul J. Farber, M.D., MACP, provost and dean, as chairman of its Board of Trustees.

Dr. Farber, who is also the chairman of the Department of Medicine, has long been active in academy affairs. He served as chairman of its Section on Medicine from 1962 to 1968, and has been a member of the Board of Trustees for the last several years.

Founded in 1847, the academy has three major goals: to improve medical education and practice, to encourage measures that would improve public health, and to establish a library where medical literature would be available to serve the public.

In announcing Dr. Farber's election, the Academy's president, Jeremiah A. Barondess, M.D., cited Dr. Farber's expertise and devotion. "He is a

wise counsellor of broad experience in all the areas of our activities."

Dr. Farber plays an active role in medical affairs at the local, state, national, and international levels. He is a president emeritus of the American College of Physicians and has served as chairman of the American Board of Internal Medicine. He is a member of the New York Board of Health and the New York State Task Force on Life and the Law.

Among Dr. Farber's many honors may be listed a Career Scientist Award of the Health Research Council of New York, the Medical Alumni Achievement Award of the NYU School of Medicine Alumni Association, the Great Teacher Award of the New York University Alumni Association, and the Distinguished Teacher Award of the American College of Physicians.



Dr. Freedberg accepting the Beckman Memorial Award from Dr. Farber.

Symposium Honors Saul Krugman at 80

riends and colleagues from throughout the world of science and medicine converged at NYU Medical Center on April 12 to honor Saul Krugman, M.D., professor of pediatrics, on the occasion of his eightieth birthday.

The eminent scientist-physician has been a part of the NYU School of Medicine since his residency training at Bellevue in 1946. He has graced the school's faculty for more than forty years, including as chairman of the Department of Pediatrics from 1960 to 1974.

The Saul Krugman Symposium was chaired by Frederick C. Robbins, University Professor Emeritus of Epidemiology and Biostatistics of Case Western Reserve University School of Medicine; Robert W. McCollum, M.D., dean emeritus of Dartmouth University Medical School; and Thomas H. Weller, M.D., emeritus professor of Tropical Public Health, Harvard Univerity School of Public Health. A reception and dinner was hosted by Wade P. Parks, M.D., Ph.D., the Pat and E. John Rosenwald Professor and chairman of the Department of Pediatrics.

Participants included Albert B. Sabin, M.D., '31; Joseph Dancis, M.D., professor of pediatrics and former chairman of the department; and William Borkowsky, M.D., associate professor of pediatrics and director of the Pediatric Infectious Diseases and Immunology Program at NYU.

Also, Louis Z. Cooper, M.D., director of Pediatric Service, St. Luke's-Roosevelt Hospital Center; Samuel L. Katz, M.D., the W.C. Davison Professor of Pediatrics, Duke University School of Medicine; Cladd E. Stevens, M.D., head of the Laboratory of Epidemiology, New York Blood Center; Anne A. Gershon, M.D., director of Pediatric Infectious Diseases, Columbia University College of Physicians and Surgeons; Robert M. Chanock, M.D., chief of the Laboratory National Institute of Allergy and Infectious Diseases; and



Catherine M. Wilfert, M.D., professor of pediatrics and microbiology, Duke University School of Medicine.

In addition, two subsequent generations of Krugmans were represented: Richard D. Krugman, M.D., '68, director of the C. Henry Kempe Center for Child Abuse and Neglect at the University of Colorado School of Medicine; and Scott Krugman, who is entering Dartmouth Medical School.

At the symposium's luncheon, the Saul Krugman Endowment for M.D.-Ph.D. students was announced.

Saul Krugman has enhanced the health of children around the world by his significant research on the natural history and prevention of three infectious viral diseases: measles, rubella, and hepatitis.

Among his most valuable achievements, Dr. Krugman accelerated the licensure of the measles vaccine in 1963. He did the same for the rubella vaccine in 1969.

His research into hepatitis led to his identifying two distinctive clinical, epidemiological, and immunological types of the disease—MS-1 (hepatitis A) and MS-2 (hepatitis B). Moreover, Dr. Krugman demonstrated that hepatitis B immune globulin is effective in the prevention of hepatitis B. Plasma from chronic hepatitis B carriers could therefore be used to develop a vaccine.

Dr. Krugman's studies led to the licensing of a vaccine in 1981. His role in its development was recognized at the 1981 International Symposium on Viral Hepatitis, held in his honor.

The author of more than 200 articles, Dr. Krugman is the co-author of *Infectious Disease of Childhood* and *Viral Hepatitis*. Among his numerous honors are the Albert Lasker Public Service Award (1983), election to the National Academy of Sciences (1976), and Senior Membership in the Institute of Medicine (1986).

Dr. Krugman flanked by his successors as chairman of the Department of Pediatrics, Dr. Dancis and Dr. Parks.

Berson Awards Honor Alumni Achievement



simon Karpatkin, M.D., '58, Barry S. Coller, M.D., '70, and Doris H. Milman, M.D., '42, received the 1991 Solomon A. Berson Medical Alumni Achievement Awards. They were presented by Saul J. Farber, M.D., MACP, '42, provost and dean, at the annual Medical Alumni Weekend.

Dr. Karpatkin, professor of medicine, was honored for Basic Science. His innovative and imaginative research has focused on platelets, specifically their physiology, biochemistry, and immunology. He was the first to demonstrate heterogeneity of platelet metabolism and function. He recognized that large platelets, which he designated megathrombocytes, were an index of thrombopoiesis; his subsequent demonstration of autoimmunity in thrombocytopenic purpura is a citation classic.

In a unique research accomplishment, he demonstrated the importance of glycoprotein GP II-GP IIIa's interaction with tumor cells in metastasis of malignant cells.

Dr. Karpatkin was also the first to recognize the clinically significant thrombocytopenia in HIV-infected people.

Dr. Coller, also a hematologist, was named for Clinical Science. Professor of Medicine and Pathology at the State University of New York at Stony Brook Health Science Center and head of its Division of Hematology, Dr. Coller is an internationally recognized authority on normal and disordered hemostasis and thrombosis.

His studies have helped explain the complex interactions and molecular abnormalities of von Willebrand factor with platelets and endothelium, and have identified the genetic, immunologic, and biochemical defects of Glanzmann's thrombasthenia. He has developed unique monoclonal antibodies to the platelet membrane's glycoprotein receptors, with potential uses as diagnostic and antithrombotic agents.

Dr. Milman, recognized in



Berson award winners: Dr. Karpatkin, Dr. Coller, Dr. Milman. Mrs. William Berson, Dr. Berson's widow.

Health Sciences, is professor of pediatrics at the State University of New York Health Science Center at Brooklyn. A practicing pediatrician with extensive investigative and clinical knowledge, she has achieved international recognition for her work in child and adolescent psychiatry.

Her talents extend to the field of history. She has produced a historical profile of SUNY-Brooklyn's Department of Pediatrics, which vividly preserves both the skills and humanism of the individual physicians.

The awards honor the memory of Sol Berson, M.D., '45, developer of radioimmunoassay, a discovery of inestimable value in endocrinology. Despite world acclaim, he remained the true physician—humble, dedicated, productive. The Alumni Achievement Awards, presented annually since 1954 (Dr. Berson himself was so honored in 1969), were named in his memory in 1979.

Josef Jaksy, M.D. (1900-1991): Holocaust Rescues Honored

That into whatsoever house I shall enter, it shall be for the good of the sick to the utmost of my power, I holding myself aloof from wrong, from corruption, from tempting of others to vice.

As part of the Hippocratic Oath, these words have been recited by generations of physicians, and will continue to be by generations to come. Medical professions are founded in this passage; so was Josef Jaksy's life.

All physicians use their art and skill to save lives. Dr. Jaksy used other means as well.

On the faculty of the NYU School of Medicine since emigrating from Czechoslovakia in 1948, he never spoke of his activities during the war. Few people even suspected that the quiet, well-regarded clinician and teacher had been a hero during the Nazi occupation.

Professor of urology at the State University of Bratislava when the Nazis invaded, he enjoyed a reputation throughout Europe, serving as personal physician to the bishop of Slovakia and the mayor of Bratislava.

When anti-Jewish persecutions began, Dr. Jaksy, a Lutheran, and a handful of

friends met to decide how they could help their Jewish neighbors. They conceived a fourfold plan: to find hiding places; to provide money, food, and medicine; to provide false identification papers; and to help people escape the country.

At the risk of his own life, Dr. Jaksy embarked on a mission to save the lives of others. He hid Jews in his clinic, including one woman for nearly three years. Defying orders calling on Christians to divorce Jewish spouses, he hid his first wife until he obtained false papers allowing her to enter Switzerland.

As a urologist, he was able to save Jewish men from the notorious "trouser checks" by providing documents claiming their circumcisions had been performed for medical reasons—and coaching them on the medical conditions in order to fool the Gestapo.

After the war, Dr. Jaksy declined efforts of Bratislava's



Dr. Jaksy: his service to humanity is honored.

Jewish community to honor him. His modesty is characteristic of rescuers: he claimed to have done no more than others would have done under the same circumstances; when asked why he had done so, he answered, "Wouldn't you do the same for your neighbor?"

Through the intervention of Amira Trattner, CSW, a friend and neighbor, Dr. Jaksy's story was brought to the attention of the Anti-Defamation League's Jewish Foundation for Christian Rescuers and of the Yad Vashem Holocaust Memorial in Jerusalem.

As a result, Dr. Jaksy was awarded Israel's highest honor for non-Jews, the Righteous Among the Nations Medal, and received a citation of honor from the State of New York, expressing "profound gratitude for the singular example...of what the human spirit is at its best."

Dr. Jaksy did not live to receive the honor he so deeply deserved: he died a week before he was to have received the award, one day after turning ninety-one. The award ceremony, held at the Medical Center, became a memorial service, with his wife, Elizabeth, accepting the medal in his memory. Colleagues, patients, and associates-all friends-came together to share their grief at their loss and their joy at having known one who, as a physician and a human being, truly walked the path of righteousness.

Arthur Tessler, M.D., professor of clinical urology, met Dr. Jaksy in 1956. "This quiet, gentle, cultured physician befriended a young resident," Dr. Tessler recalled. "It does not surprise me that he never mentioned his wartime heroism and humanism. I am deeply proud to have been a friend of this giant among us."

Coles Panel Hails Basketball Founder



Dr. Oliva watches as Dr. Herschkopf cuts the ribbon on the new panel.

on January 22, the Jerome S. Coles Sports Center marked the memory of an NYU physician who enabled Michael Jordan to walk on air.

Luther Gulick, M.D., was a graduate of the NYU School of Medicine (class of 1889) and a professor at its School of Pedagogy from 1906 to 1909. He also worked as an assistant to Dr. James Naismith at Springfield College in Massachusetts. While there, Dr. Gulick suggested that Dr. Naismith develop a cardiovascular exercise that could be performed indoors and would be as entertaining as it was beneficial.

Together, the two physicians generated a regimented practice of running and jumping. They threw in peach

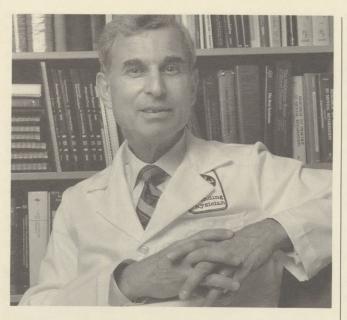
baskets and leather balls, then completed the picture with rules and scoring. The result: basketball.

Dr. Gulick's contribution was recognized at the Basketball Hall of Fame in Springfield with a stained-glass panel bearing his name, likeness, and accomplishments. When the hall was renovated, NYU was able to secure the mural for the Coles Athletic Center.

A ceremony celebrating the acquisition featured L. Jay Oliva, Ph.D., president-elect of New York University, and Isaac S. Herschkopf, M.D., '75, treasurer of the School of Medicine Alumni Association and no mean hoopster himself.

The colorful glass panel can be seen in the entrance hallway of the Coles Center.

Kolodny Joins Faculty as Chair of Neurology



am a biochemical geneticist."

Using this phrase to describe himself is Edwin H. Kolodny, M.D., '62, who on June 1 became chairman of the Department of Neurology as the Bernard A. and Charlotte Marden Professor of Neurology. He epitomizes the multidisciplinary approach to medicine, with its intimate connection between research and clinical care.

A native of Boston, Dr. Kolodny graduated from Harvard College in 1957 with a B.A. in economics. His M.D., with honors, came from NYU's five-year program, where his love of genetics was stimulated by study with Severo Ochoa and Baruj Benacerraf.

He also began an enduring involvement with the impact of inborn errors of metabolism on the central nervous system, and in the research methodology for evaluating children with developmental disabilities.

Following internship and two years of residency at Bellevue Hospital Center, Dr. Kolodny returned to Boston, completing his residency in neurology at Massachusetts General Hospital while active as a research fellow in neurology and neuropathology at Harvard Medical School. Ex-

cept for a three-year fellowship at the National Institutes of Health, he remained at both institutions, becoming professor of neurology in 1985.

His focus has been and remains lysosomal diseases. He is especially involved with the adult forms of these disorders, including metachromatic leukodystrophy and Tay-Sachs, Gaucher, Krabbe, and Fabry disease, which usually affect children but may manifest themselves during adulthood. Variations in genetic mutation can affect both onset time and severity.

"What in some cases is a mild inconvenience is in others a fatal flaw," he noted. "We are exploring the mechanisms of gene-protein interrelationships to determine why and how this is so."

He seeks the molecular causes of inherited diseases of the nervous system with and without known biochemical markers. His work has been instrumental in identifying the enzyme deficiency in Tay-Sachs disease.

"I am sometimes asked how can I specialize in inherited neurological diseases that often affect children tragically, and where there is 'no penicillin'," Dr. Kolodny said. "A neurologist deals with the here and now, with making the best of what is. There is an increased emphasis in medicine today on quality of life, not only survival. Ameliorating symptoms may be the best we can do, and that can be immensely valuable.

"We can help family members develop coping strategies, as well as make informed decisions about subsequent family planning. Following the natural history of a disease provides important research insights. Patients stimulate me in my research."

On his decision to join the NYU faculty, Dr. Kolodny said, "This is an incredibly exciting time in neuroscience, and NYU has a very strong commitment to the biomolecular approach, with excellent programs in cell biology, biochemistry, neurophysiology. It also provides exceptionally

rich and varied clinical data."

His goals for the department are to stimulate students and residents to pursue academic medicine; to improve understanding of the molecular basis of the most enigmatic neurogenetic diseases; to create academic programs that focus on solutions to neurological diseases; and to stress the importance of genetic factors in neurological diseases not thought to be genetic, such as Parkinson's disease and multiple sclerosis.

Joining the faculty at the same time is another distinguished physician and NYU graduate: Roselyn Kolodny, M.D., '63, instructor of pediatrics at Harvard Medical School and chief of the Pediatrics Department at the Harvard Community Health Plan's Kenmore Division.

Schlessinger Named Kimmelman Professor

Joseph Schlessinger, Ph.D., chairman of the Department of Pharmacology, has been named to the Helen and Milton A. Kimmelman Professorship of Pharmacology.

He becomes the twentieth member of the School of Medicine faculty to hold an endowed chair.

The gift comes from the Helen and Milton Kimmelman Foundation. Income from the funds will be used solely in support of the professorship for programs, projects, and research in molecular pharmacology.

Under the terms of the agreement, the person who occupies the professorship shall also be the departmental chairman, and be involved in each aspect of academic medicine: biomedical research, clinical care, and education.

"The Kimmelman Foundation's support helps create financial stability that enhances one's peace of mind and is a boon to one's creativity," Dr. Schlessinger remarked. "I am

both honored and deeply gratified."

The foundation's director, Mrs. Helen Kimmel, is a member of the Medical Center's Board of Trustees. She has been instrumental in directing support from the foundation, which she established with her late husband, Milton A. Kimmelman, to various projects throughout the Medical Center.

Dr. Farber observed how essential the private sector has been in NYU's successes. "It is most satisfying to recognize the Kimmelman Foundation for its important support. In so doing we salute a true friend. It is to Dr. Schlessinger's credit to attract such interest."

An internationally recognized biomedical scientist, Dr. Schlessinger had previously been the Ruth and Leonard Simon Professor of Cancer Research in the Department of Chemical Immunology at the Weizmann Institute of Science in Rehovot, Israel.

Homer Smith Professorship and Award Inaugurated



Dr. Ilya Prigogine

A visiting professorship, award, and lecture series in honor of the late Homer William Smith, M.D., has been established by the NYU School of Medicine.

The idea was initiated by Rodolfo Llinás, M.D., Ph.D., the Thomas and Suzanne Murphy Professor of Neuroscience and chairman of the Department of Physiology and Biophysics. Planning was undertaken by Dr. Llinás; Saul J. Farber, M.D., MACP, dean and provost; Herbert Chasis, M.D., professor of medicine, who was associated with Dr. Smith in applying quantitative studies of renal function; David Baldwin, M.D., professor of medicine; and W. James Sullivan, M.D., professor of physiology and biophysics.

Homer William Smith, M.D. (1895-1962) spent the greater part of his scientific career at the NYU School of Medicine, serving as professor and chairman of the Department of Physiology from 1928 to 1961. His scientific interests were broad, but his name is particularly associated with renal physiology, a field which he dominated. The methods he developed for quantifying renal function are still extensively employed.

"Scientist, teacher, essayist, philosopher, and perennial student, Homer Smith was a true exponent of NYU's tradition of research and teaching excellence," Dr. Llinás said. "His lifelong drive to comprehend biological processes in terms of the physical and chemical laws governing their behavior was prophetic."

Fundraising efforts involved former associates of Dr. Smith and faculty and friends of the School of Medicine. A particularly generous gift was received from the Lucius N. Littauer Foundation.

The first Homer W. Smith Visiting Professor was Ilva Prigogine, Ph.D., whose work addresses fundamental questions that lie on the borders of physics, chemistry and biology. He divides his time between the Free University of Brussels, where he is director of the Solvay Institutes of Physics and Chemistry, and the University of Texas at Austin, where he is director of the Ilya Prigogine Center for Studies in Statistical Mechanics, Thermodynamics, and Complex Systems.

His numerous scientific honors include the 1977 Nobel Prize in chemistry.

Dr. Prigogine presented two lectures: "Theoretical Physics and Biology: An Everlasting Dialogue" and "Time, Dynamics, and Chaos: An Alternative Formulation of Classical and Quantum Dynamics."

The first lecture was preceded by an appreciation of Smith's career given by Dr. Chasis, who also provided witty commentary to a 1938 film showing Smith, himself, and the team.

Since Dr. Smith was keenly aware in all his work of the physical principles underlying the functioning of biological systems, it is particularly appropriate that Professor Prigogine be the first Homer W. Smith Visiting Professor.

If certainty is possible, one may be certain that Smith would greet the naming of Ilya Prigogine as the first Homer W. Smith Visiting Professor with enthusiasm.

Michael Heidelberger, Ph.D. (1888-1991)

on June 25, a scientist justly called the father of modern immunology died at the age of 103.

In a distinguished and much-honored scientific career that spanned three-quarters of a century, Dr. Michael Heidelberger played a pivotal role in developing immunochemistry, a quantitative discipline that virtually transformed immunology.

"To his colleagues and students at the NYU School of Medicine, Dr. Heidelberger was a devoted friend, quintessential mentor, and inspiring presence," said Saul J. Farber, M.D., MACP, provost and dean.

Dr. Heidelberger continued his research and teaching into the tenth decade of his life. He was a familiar figure in his laboratory, which was filled with the joyful sounds of discovery, as well as in the halls and in the faculty dining room. "Everyone in the Medical Center community was touched by this great man in our midst," Dr. Farber said.

in our midst," Dr. Farber said.
Born in New York City,
Michael Heidelberger received
his Ph.D. in chemistry from
Columbia University. in 1912,
he joined the Rockefeller Institute, returning to Columbia
University College of Physicians and Surgeons in 1928
as its first professor of
immunochemistry.

After more than three decades at Columbia, Dr. Heidelberger faced mandatory retirement at age 65. In 1964 he joined the faculty of the NYU School of Medicine as adjunct professor of pathology, a position he held until his death.

"His contributions to medical science were of immense significance," observed Vittorio Defendi, M.D., the Ritter Professor of Oncology and chairman of the Department of Pathology. Dr. Heidelberger is credited with the discovery that antibodies are proteins.

His pathbreaking research



into the nature and interrelationship of antigens and antibodies was crucial to the understanding of immunologic processes and is largely responsible for innovating state-of-the-art technologies in the fight against viral and bacterial infections.

"Most of all, he was a man totally dedicated to the knowledge and practice of science, guided by an uncompromising commitment to honesty, generosity, and civic virtues," Dr. Defendi said. Active in the peace movement, he was a vigorous opponent of the Vietnam War, and led a student protest against the United States invasion of Cambodia when he was in his eighties.

He was also a talented classical musician who played the clarinet and violin with friends and amateur chambermusic groups.

Dr. Heidelberger's numerous awards and honors include the National Medal of Science, two Lasker Clinical Medical Research Awards, and the Louis Pasteur Gold Medal of the Swedish Medical Society.

"He will continue to be an inspiration to generations of physicians and scientist," Dr. Farber said. "We have lost a devoted friend and an extraordinary individual, whose like we will not soon see."

Class of 1941 Celebrates Fiftieth Reunion

t seems difficult to believe that half a century has passed since these graduates received their degrees: their poised and smiling faces indicate their successes and gratifications in the pursuit of their profession.





NYU Post-Graduate Medical School Selected Courses 1991

September

9/3 - 12/20	#400	Basic Sciences on Ophthalmology (Mon-Fri 8:00 - 10:00 a.m.)
21	#401	Advances in Ocular Surgery —Alumni Day 1991
9/25 - 2/26/92	#561	Comprehensive Psychiatry Review (Weds. 4:00 - 7:00 p.m.)

October

7-8	#610	Breast Cancer Diagnosis: State of the Art 1991
9-12	#611	MRI: Clinical State of the Art 1991
14-18	#329	Five-Day Emergency Medicine Board Review: With emphasis on the written and practice orals
18-20	#456	Comprehensive Seminar on Fine Needle Aspiration: A review and update with small-group "hands on" workshops.
21-24	#457A	Fine Needle Aspiration: A Four-Day Tutorial for Pathologists: Technique and Cytology (limited to 18 registrants)
22,24,29,31	#156	Review of Medical Mycology (Tues & Thurs 4:00 - 7:00 p.m.)
25	#372	Menopausal Estrogens: An Update on Osteoporosis, Heart Disease and Cancer
10/31 - 11/1	#808	Transplantation in New York: Immunobiology, Immunosuppression, Complications, Role of Government

November

9	#101	Fiberoptic Endoscopy Workshop for the Management of the Difficult Airway
16	#355	Selegiline: New Applications in Neurological and Psychiatric Disorders

December

9-12	#350	Neurosurgery NYC/1991—Grand Hyatt Hotel, NY
9-13	#321	Board Review in Geriatric Medicine
13-15	#351	Complications in Pediatric Neurosurgery—Grand Hyatt Hotel, NY
14-15	#730	State of the Art in Clinical Urology
15-20	#603	CT and MRI: Head to Toe—Grand Hyatt Hotel, NY
20	#600	The Identification and Reporting of Child Abuse and Maltreatment—
		Grand Hyatt Hotel, NY

For Information, Contact:

NYU Post-Graduate Medical School 550 First Avenue, New York, NY 10016 (212) 263-5295

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Relations

'15

Irwin E. Siris, New York City, is retired associate professor of surgery at NYU. Our most senior alumnus, he writes, "I have devoted my whole life to the medical school and center." A past president of the Medical Society of Kings County, his hobby is golf. He and Florence have two children.

'19

Evan W. McLave, Southhold, NY, retired in 1970.

Benjamin Sherwin, Ft. Lauderdale, FL, retired in 1969 from his practice in general surgery. He taught anatomy at NYU and animal surgery at Columbia, was director of surgery at Lincoln Hospital, and served on the staff at Jewish Memorial Hospital. He enjoys golf, swimming, and attending cultural events. He and Hilda have two children and three grandchildren.

'20

Meyer Ginsberg, New York City, is attending emeritus in cardiology at Maimonides Medical Center. He and Miriam have two children.

'21

Harry Blum, Brooklyn, semiretired from a practice in otolaryngology, practices 3 1/2 days a week at age 92 (it keeps him young). He likes painting, mostly in Connecticut, using landscapes and still-life portraits as models. He and Regina have two children.

Howard H. Gilman, New York City, is retired at 91 after a career in internal medicine. He and Suzanne have one child.

Leo A. Shifrin, New York City, is retired. His wife is Viola.

Nathaniel Uhr, Topeka, KS, is retired. His wife is Jewel.

'22

Milton Reder, New York City, continues a private practice in otolaryngology. He and Violet have two children.

'24

Joseph Laval, New York City, is emeritus professor of ophthalmology at Mt. Sinai Medical Center, a Fellow of the Royal Society of Physicians, an honorary surgeon of the New York Police Department, and a consulting surgeon at Manhattan Eye and Ear Infirmary. Economics is his hobby. He and Peggy have two children.

Michael Weingarten, New York City, a gastroenterologist, has retired from private practice and is a consultant at Beth Israel Medical Center. He enjoys reading, travel, and visiting museums and medical conferences. He and Beatrice have two children.

'25

Sidney Grossman, West Englewood, NJ, is a retired surgeon who practiced at Mt. Sinai, Bronx-Lebanon, and Misericordia hospitals. His wife is Dorothy.

Samuel F. Ravitz, Elizabeth, NJ, retired from dermatology in 1962. trained in dermatology from 1926 to 1942. I entered army service as a captain in the medical corps in 1942 and remained with the army until retiring in 1962. Since retirement, I read the medical journals and try to absorb whatever is new in medicine. Now in my ninetieth year. I'm in excellent health. But I miss so many of my fellow physicians who were my friends. They have left this world. There are advantages in reaching a peaceful old age, but somehow there is a price to pay. If I sound morose, I assure you I am a cheerful old boy. It's not pleasant to be a solitary survivor. I welcome any news whatever of the survivors of the Class of '25.'

Frank E. Roth, Bloomfield, CT, is retired attending in pediatrics at Mt. Sinai Medical Center. Currently he is medical director of Goodwill Industries in Hartford, a Fellow in the American Academy of Pediatrics, a member of the American Board of Pediatrics, the New England Pediatrics Society, the Connecticut State Medical Society, and the Hartford Medical Society. He is a former president of the Connecticut Chapter of the American Academy of Pediatrics and a former scoutmaster in the Boy Scouts of America. He enjoys golf, bridge, theater, and reading. A widower, he has two children.

'26

Irving B. Blumenfeld, Venice, FL, has nothing new to report.

Eulius Seldin Downs, Hyannis, MA, left the American Baptist Mission in Tura, Assam, India, in 1968.

Abraham L. Feldman, Mt. Vernon, NY, retired as an attending in general surgery at Mt. Vernon Hospital. His hobby is photography. He and Mae have two children.

Philip Krainin, Boca Raton, FL, retired in 1975 from internal medicine. He and Stella have two children, both physicians.

Currier McEwen, South Harps-well, ME, writes: "Only four of us attended Alumni Day: Abraham L. Feldman, Mitchell M. Benedict, and I, with our wives, and Max J. Goldberg, who was brought by a nephew. I heard from Irving B. Blumenfeld, who is legally blind; Luis C. Clavell, who is sick; Anthony M. Kasich; Arthur A. Knapp, who is disabled with Parkinson's; and Philip Krainin."

'27

Cheri Appel, New York City, is a psychiatrist in private practice. Widowed with two children, she enjoys taking classes at Hunter College.

Harold Gartner, White Plains, NY, is a retired anesthesiologist. He and Dorothy have two children.

Moses L. Press, Bar Harbour, FL, is retired. A widower and father of two, he enjoys travel and photography.

Nathaniel H. Schwartz, Laurel, FL, is director of medicine emeritus at United Hospital in Portchester, NY. His hobbies: sculpture, painting, and horticulture. He and Cherry have three children.

'28

Harry Bloch, South Orange, NJ, is a retired pediatrician who is a consultant at Kings County Medical Center. In the past twenty years he has published three to four articles a year on the history of medicine; other interests are travel and gardening. He and Rose have two children.

Lionel A. Kase, Chillicothe, OH, is a retired psychiatrist. He enjoys gardening, photography, and canning. His wife is Mildred.

Willis A. Murphy, New York City, is retired from internal medicine at New York Hospital-Cornell Medical Center. His wife is Alvina.

ALUMNI NEWS

Irving L. Schmierer, Cranbury, NJ, writes about his six grandchildren (including two physicians) and two greatgrandchildren.

Morris Siegel, New York City, is a retired epidemiologist. He and Miriam have two children.

Morris Steiner, Brooklyn, is professor of pediatrics emeritus at SUNY Health Sciences Center at Brooklyn. A widower with two children, he enjoys reading and photography.

'29

Nathan Block, Long Branch, NJ, is a retired pathologist from Bellevue. He and his wife, Julia, enjoy travel, bridge, and tennis. He has two children (one a physician) by his first wife.

Irving J. Hanssmann, Council Bluffs, IA, is retired from internal medicine. He enjoys music, oil painting, and carpentry. Being 84 and recent problems with his eyesight make travel difficult, but "I often think of my classmates." He and Elaine have two children and four grandchildren.

Bernard C. Hecht, Vero Beach, FL, is retired. He and Louise have three children.

James A. Shannon, Lake Oswego, OR, is long retired after an outstanding career which includes having helped create and lead the National Institutes of Health. Among those for whom he was a mentor is Saul Farber, '42. He is a widower with two children.

Arthur M. Tiber, Cincinnati, OH, is retired from internal medicine. He and Ruth have three children.

'30

David Bergstein, Bay Harbor Island, FL, is retired as an associate attending pediatrician at Maimonides Medical Center. He enjoys music. He and Frances have two children.

Salvatore P. Carvo, Brooklyn, is a retired cardiologist. He is a widower with two children.

Harry Ehrlich, Hollywood, FL, retired from obstetrics/gynecology, enjoys golf and travel. He has two children.

Maurice F. Goldfinger, Brooklyn, is a retired family practitioner. He lectures at Brooklyn College on recent advances in medicine. He spends time reading, playing golf, and traveling. He and Perle have two children. "At the age of 85, having survived a carcinoma of the sigmoid colon, replacement of the aortic valve, and a double bypass, I am thankful for medical progress and roll along merrily but somewhat more cautiously."

Benjamin Pollet, Brooklyn, is associate director of family practice at Wyckoff Heights Hospital, maintains a private practice, and arranges a CME lecture program. "I am one of the old breed." He and Estelle have two children.

'31

Benjamin Bender, Brooklyn, is a consultant in dermatology at the Brooklyn VA Medical Center. He enjoys travel, reading—and napping. He and Anne have two daughters.

Frances Holmes, Los Angeles, CA, retired from the practice of obstetrics/gynecology at Good Samaritan Hospital. A widow, she has two children, both physicians. Her hobbies are golf, piano, and organ.

Charles E. Kossman, Memphis, TN, is professor emeritus of medicine at the University of Tennessee Hospital. He is active academically at its College of Medicine. He recently published "History of Electrocardiographic Leads" in Mirvis, ed., Body Surface Electrocardiographic Mapping. He and Margaret have two children.

Albert B. Sabin, Washington D.C., is "alive at 84." The developer of the oral polio vaccine is retired from virology and infectious disease research. Besides publishing many papers, he enjoys reading and music. He and Heloisa have four children—two his, two hers.

Philip Strax, Ft. Lauderdale, FL, offers the following:

Congratulations—One and All! In '31 a motley band,

All primed with knowledge, love and skill,

Set forth with pride, degrees in hand,

To mend the worn and heal the

They set up shop in east and

And saved the lives of king and slave.

And helped the ailing mind or breast

Of rich or poor, of queen of knave.

And some have stacked up mounds of gold,

While others garnered honors rare;

A few have left the churning fold, But most still give relief and care.

And some have heard their Maker's call,

And learned their earthly chores were done,

But they live on as do we all: We'll always be of '31.

And though the twilight dims our eyes,

(Or is it presbyopic sight?)
The years have taught and made us wise

And helped each find his own delight.

But though we live to a hundred and three

And proudly grasp our place in the sun,

We'll always boast for all to see— We're of the class of '31.

For '31 leads all the rest For what we've done and what we do;

And should one doubt that we're the best,

Our wives will surely vouch it's true!

'32

Theodore J. Edlich, Jr., New York City, is an attending in internal medicine at St. Clare's Hospital. He is an art collector. He and Dede have two surviving sons, both physicians; Richard is Distinguished Professor of Plastic Surgery at the University of Virginia, which has established a professorship in biomedical research in his name.

Philip S. Greenbaum, Tucson, AZ, retired in 1978 from a private practice in psychiatry. He has lived in Tucson since 1944, and was with the Veterans Administration from 1940 to 1961. He enjoys travel, cards, and chess. He has three children and six grandchildren.

ALUMNI NEWS

Arthur Lautkin, New York City, is instructor of radiology at Mt. Sinai Medical Center. He and Fredda have four sons; three are radiologists and the "black sheep" is a psychologist. He decries the overuse CT and MRI, and that "much of the fun and excitement has gone out of medicine." He attends three to four medical conferences a week, and also enjoys crossword puzzles.

Robert V. Schatken, Fairfax, VA, retired from general surgery in 1984. Last worked at DeWitt Army Hospital in Ft. Belvoir. He enjoys golf. He and Virginia have two children.

Nathan H. Wexler, Lake Peekskill, NY, is an associate in family practice at Brookdale Hospital. He enjoys gardening, movies, and swimming. He and Celia have two children, one a physician.

'33

Eleanor L. Adler, Albuquerque, NM, retired from pediatrics in 1979.

Marjorie B. Klugherz, Brooklyn, is an associate attending in pediatrics at Maimonides Medical Center.

Jerome Lehner, Poughkeepsie, NY, is a retired otolaryngologist who specialized in head and neck surgery. He is an honorary staff member at St. Francis Hospital. He enjoys golf, duplicate bridge, and oil painting.

Irving Madoff, Los Angeles, CA, is a retired pathologist who enjoys the theater, music, and tennis. He and Frances have two daughters.

Victoria Soloway, New York City, is clinical instructor of pediatrics at NYU. She works in Bellevue's Pediatric Chest clinic, and her specialty is public health. She enjoys music and travel. A widow, she has two sons, both Ph.D.s.

'34

Samuel C. Bukantz, Tampa, FL, professor of medicine at the University of South Florida, received the 1991 Distinguished Clinician Award from the American Academy of Allergy and Immunology. He is also the editor of *Hospital Practice*.

Isaac Frankel, New York City, is retired and an honorary staff member at Central Suffolk Hospital. He enjoys his vacation home in Jupiter, FL. He and Edith and have two children.

Harold W. Glascock, Jr., Williamsburg, VA, is retired from the Army Medical Corps and works independently as a medical evaluator of physical and mental disability. His hobbies: "senior babysitter and chief dog walker." A widower, he has one son.

Barnett A. Greene, Lawrence, NY, is a forensic anesthesiologist who is an emeritus attending at Brooklyn Caledonian Hospital Center. He enjoys ballroom dancing. He and Lee, a retired New York City schoolteacher, have two sons and six grandchildren.

Nathan Hilfer, Forest Hills, is an assistant attending at St. John's Hospital. He and Frieda have two daughters.

Leo L. Orenstein, New York City, is a psychiatrist and psychoanalyst, an honorary attending "off service." He and Beatrice have two children.

Jean Pakter, New York City, was honored with the American Public Health Association's Martha May Eliot Award at its 118th annual meeting. A colleague who nominated her for the honor said "throughout her career of nearly 50 years, she has worked diligently to develop model services to meet the everchanging health needs of mothers, children, and their families."

'35

Irving D. Ehrenfeld, New Rochelle, NY, is an attending and chief in dermatology at Bronx-Lebanon Hospital. His hobby is computers. He and Anne have two children.

Bernard Farfel, Houston, TX, is an emeritus in internal medicine at Texas Methodist Medical Center. He and Bettie have three children.

Joseph M. Polito, Boca Raton, FL, is a consulting surgeon at Doctor's Hospital of Hollywood. He enjoys swimming and travel. He and Lucille have two sons, both physicians.

Ernest H. Reynolds, Reidsville, NC, is retired from family practice. He and Mildred have five children.

George M. Saypol, Morristown, NJ, associate professor of clinical surgery at NYU, is retired. His hobbies are his family, walking, and reading. He and Grace have two children.

'36

Jacob A. Arlow, Great Neck, NY, is clinical professor of psychiatry at NYU. He contributed to *On Freud's "Analysis Terminable and Interminable*," the first in a series, "Contemporary Freud: Turning Points and Critical Issues," published by Yale and the International Psychoanalytical Association.

Arthur H. Fleischmann, Belle Harbor, NY, is an attending in family practice at Peninsula Medical Center. He recently published "Combined Irradiation Modalities in the Therapy of Malignant Lymphona with Chylothorax" and "Ischemic Necrosis of the Tibialis Anticus Muscle with Renal Syndrome." He writes: "For the past 25 years, my hobby of construction collage has expanded considerably. I have exhibited at the AMA convention, colleges, and public libraries. Having sold several works, the idea of making art my new profession has been tempting-but the thought of giving up medicine is disquieting. My work has been described as a 'fairvland of temples, castles, bridges, and concert halls with miniature musical instruments and a profusion of varied multimedia works.' Remember the adage 'Life is short. Art is long." He is also a self-taught pianist. He and Jessica have two daughters

Jacob A. Mishkin, St. Petersburg Beach, FL, retired in 1981 from private practice in internal medicine. He is a part-time staff member at Bay Pines VA Medical Center. His hobbies are tennis, golf, and speaking to lay groups. He and Mary have three children.

Irving Rachlin, West Palm Beach, FL, is retired. Hobbies: "Living. Also golf." He and Shirley have two daughters.

Carl Schiller, New York City, is an attending in charge of plastic surgery at Maimonides Medical Center. His hobby is golf. He and Lynn have three children.

'37

Sidney M. Fierst, New York City, is professor of clinical medicine at SUNY Brookdale Hospital. He has been made chief emeritus in gastroenterology, and is still a full-time teacher and clinical researcher. Recently published papers on carcinoma of the stomach fundus and plasmocytoma of the stomach. He enjoys golf, tennis, and poetry. He and Fannie have two children.

Arnold F. Knudsen, Santa Maria, CA, is an otolaryngologist and honorary staff member at Marion Medical Center. A member of the Nu Sigma Nu medical fraternity at NYU, he credits Dean Wyckoff as his inspiration. (He and his son-in-law, Currier McEwen, were fellow frat members.) He enjoys music, golf, contract bridge, and fishing. He and Marguerite have two children.

Edward Press, Portland, OR, has retired and is a part-time consultant in public health. He enjoys swimming, racquetball, travel, and business. No papers recently, but he has published 30 or so in his time. He and Ruth have two children.

Irving M. Schneider, Melville, NY, has retired and is an attending emeritus in urology at Booth Memorial Hospital. "Six years have been devoted to myself, my family, and my hobbies, with no one telling me what I can and cannot do."

'38

Leonard I. Ehrlich, Great Neck, NY, is emeritus professor of clinical pediatrics at North Shore University Hospital. "In the practice of pediatrics in Great Neck for 49 years and still going strong." He is a widower with four children.

Harold S. Kaufman, Miami, FL, is retired. He and Frances have two children.

Jacob E. Nadler, Kew Gardens, is a retired cardiologist who has been "very ill for a long time." His wife is Sadie.

Harry Naidich, Boca Raton, FL, is retired from radiology at Nassau County Medical Center. He enjoys art. He and Edith have two sons.

Norman Rosenberg, East Brunswick, NJ, retired as a professor of surgery at the University of Medicine and Dentistry of New Jersey—Robert Wood Johnson University Hospital. His *Handbook of Carotid Artery Surgery, Facts & Figures* was recently published. He enjoys golf, tennis, and reading. He and Ruth have two children.

'39

Evelyn Apogi, Bayside, is a retired anesthesiologist and director emeritus at Flushing Hospital. Her hobbies include needlework and gardening. She and Hylan A. Bickerman, M.D., have two children.

H. Harold Friedman, Denver, CO, is clinical professor of medicine at the University of Colorado Health Sciences Center, and attending and director of the Electrocardiographic Laboratory at Rose Medical Center. He recently published Diagnostic Electrocardiography and Vectorcardiography and Problem-Oriented Medical Diagnosis. He and Charlotte have three children.

Margaret Schaffner Tenbrinck, Scottsdale, AZ, is a retired pediatrician, who in addition to full-time medical work in New York and Arizona until 1982 also worked at the Albert Schweitzer hospitals in Gabon and Peru, the Apache Reservation Hospital in Whiteriver, AZ, and at Children's Hospital in Jerusalem. Her paper "Normal Infant Born to a Mother with PKU" appeared in JAMA in 1982. Hobbies include the arts, literature. her grandson, and continuing her medical education. She and E.J.A. Tenbrink have with two daughters, a professor at St. John's University and a library director at Taliesen West, the Frank Lloyd Wright school.

Wilfred Yoslow, Brooklyn, is clinical associate professor of orthopedic surgery at NYU and an associate attending at Bellevue. He and Miriam have three children.

'40

Allan R. Aronson, New York City, associate professor of clinical medicine at NYU, is retired from private practice in internal medicine and is a clinical consultant to NYU's Blood Donor Program. He was profiled in the October 1989 issue of *Medical Alumni News*. His hobbies are gardening and collecting popular music (from the '30s to the '50s). He and Alice have three children.

Marvin C. Becker, Verona, NJ, a cardiologist, is an emeritus attending at St. Barnabas Hospital. He enjoys painting, golf, piano, and fishing. He and Sylvia have three children.

Marvin L. Blumberg, Rego Park, is president of the New York chapter of the American Academy of Pediatrics.

Hilda Knobloch, Savannah, GA, is retired. A pediatrician, her specialty is developmental disabilities. She enjoys archeology, piano, and photography.

Grace R. and Raymond F. Spanjer, Dunellon, FL, have both retired from family practice. "We have been a husband and wife team since graduating and marrying the same day. After interning at the Medical Center in Jersey City, we moved to a small town in northwest Georgia, where we practiced rural medicine, including home deliveries, nursing home work, and county health department clinics. We had no hospital for years. It was great fun. We retired in 1980." They have four sons, including a pediatrician and a New York-based French horn player.

Leon M. Tancer, Teaneck, NJ, after 26 years of being a chief at French Hospital, Brookdale Medical Center, and Maimonides Medical Center, has given up all administrative responsibilities. He is at Columbia-Presbyterian Medical Center, where he is professor of clinical gynecology at the College of Physicians and Surgeons. He is expected to enhance the education of residents in the art of clinical gynecologic surgery, the two aspects of his specialty he loves most. He expects his reduced commuting time to have a positive effect on his tennis game.

'41

Bertram Charap, Forest Hills, is an attending in ophthalmology at New York Eye and Ear Infirmary. His hobbies are fishing, gardening, and tennis. He and Elaine have three sons, all physicians (as are two daughters-in-law).

Gerald Emmett Fonda, Springfield, NJ, is an ophthalmologist and director of St. Barnabas Medical Center's Low Vision Center. His hobby is fishing. His most recent papers: "Legal Blindness Can Be Compatible with Driving" and "Visolett Magnifier without and with Bifocal," both in *Ophthalmology*. He and Lois have five children.

Lawrence Katz, Los Angeles, CA, is retired from general surgery. He and Evelyn have two children.

Nathan Kreeger, Brooklyn, has an active practice in internal medicine and is a consultant at Interfaith Medical Center. He enjoys travel and reading. He and Doris H. Milman, M.D., '42, have one daughter, Elizabeth Goldman, M.D., '72, and two grandchildren.

Abraham M. Oshlag, Griffin, GA, is a retired internist who enjoys flower growing and travel. His wife is Ann.

'42

Harold S. Cole, New York City, is a pediatrician and medical director of Bronx Developmental Center. His is coauthor of *Prediabetes*

Kermit H. Gruberg, Oakland, CA, is retired and pursuing interests in American history and building doll houses: His wife is Betty Ann.

Doris H. Milman, Brooklyn, is professor of pediatrics at SUNY Health Science Center at Brooklyn with a specialty in child and adolescent psychiatry. Her most recent paper: "Children's Medical Center of Brooklyn: An Historical Profile." She enjoys travel, theater, and museums. She and Nathan Kreeger, M.D., '41, have one daughter, Elizabeth Goldman, M.D., '72, and two grandchildren.

Sidney Reiff, Los Angeles, CA, is working (though not full time) at the Kaiser Foundation in internal medicine. He enjoys photography, reading, travel—and southern California. He sees Sam Achs and Ray Marcus often. He and Renee have three children (including Russell, '81) and five grandchildren.

'43M

L. Fred Ayvazian, South Orange, NJ, is chief of the Pulmonary Section at the VA Medical Center in East Orange. He enjoys writing. He and Gloria have three children.

Leonard B. Gutner, Mamaroneck, NY, retired from active practice in 1989. He enjoys tennis, skiing, and gardening, as well as his grandchildren. He and Gloria have five children and eight grandchildren.

Marvin Kuschner, Huntington, NY, is dean and Distinguished Service Professor Emeritus of Pathology at SUNY Stony Brook. His hobbies are reading history and fishing. He and Kathryn have one son.

Antonio Rullan, Guaynabo, PR, is a part-time attending in otolaryngology (head and neck surgery) at San Juan VA Medical Center. He retired as professor of medicine at the University of Puerto Rico School of Medicine in 1978. He was named Distinguished Alumnus in 1968. He is the founder and incorporator of SSS (the Blue Shield plan of Puerto Rico). He enjoys gardening, music, and finances. He and Jane have three surviving children, two of whom are physicians.

Charlotte Marker Zitrin, Great Neck, NY, is supervising psychiatrist at Long Island Jewish Medical Center. She and Arthur, '45, have two children.

'43D

Sheldon G. Cohen, Chevy Chase, MD, is an attending in internal medicine (allergy and immunology) at the NIH Clinical Center. He is also scientific advisor, Intramural Research Program, National Institute of Allergy and Infectious Diseases, and Scholar in Residence, National Library of Medicine. He has written journal article series and textbook chapters on the history of medicine.

William J. Farley, Brielle, NJ, is attending emeritus in pediatrics at Jersey Shore Medical Center. He enjoys golf and photography, and is interested in school health and sports medicine. He and Beatrice have three children.

Frank C. Gesualdo, Northport, NY, a gynecologist at St. Joseph's Hospital (Catholic Medical Center), is "semiretired." His wife is Mary.

Abraham Schlossman, New York City, is chief of Ocular Motility at Manhattan Eye and Ear Infirmary. His hobby is art and music appreciation. He and Carolyn have one daughter.

Howard E. Wiener, Woodmere, NY, is chief of ophthalmology at St. John's Episcopal, South Shore, Long Island. His hobbies are golf, photography, and travel. He and Marilyn have four children.

'44

Elaine W. Cotlove, Kensington, MD, is clinical professor of psychiatry at George Washington University Medical Center, an instructor at the Washington Psychoanalytic Institute, and a consultant in psychiatry at the National Naval Medical Center. She enjoys books, concerts, and ballet, and visiting her grandchildren on the West Coast. She is widowed with two children (one a physician) and four grandchildren.

Jerome D. Gross, Chicago, IL, is an attending in general surgery at Columbus Hospital. He lists both tennis and medicine as hobbies.

Herbert L. and Shirley M. Lippsett, Boca Raton, FL, are retired from obstetrics/gynecology and pediatrics, respectively. They enjoys travel, theater, gardening, grandchildren, and "the finer things in life." They have three children.

Vincent J. Manzella, Cocoa Beach, FL, retired from a 25-year practice in colon and rectal surgery in 1979. He was assistant vice president at Greater NY Blue Cross, and associate director of Bronx-Lebanon Hospital. He enjoys boating, computers, electronics, woodworking, and "all repairs." He and Mildred have five children (two his, three hers).

Edmund M. Pellegrino, Bethesda, MD, the John Carroll Professor of Medicine and Medical Ethics and director of the Center for the Advanced Study of Ethics, Georgetown University, received an honorary Doctor of Humane Letters degree from Le Moyne College, Syracuse, NY.

45

Seymour Berg, New York City, is clinical associate professor of psychiatry at NYU and chief psychiatrist of the Adept Program at Bellevue. He and Florence have four children.

Barbara Fish, Los Angeles, CA, is professor of psychiatry and biobehavioral sciences at the UCLA School of Medicine. She has focused nearly four decades of research on the study of biological antecedents of schizophrenia and severe psychiatric disorders in infants and children. She has been named to the Della Martin Endowed Chair in Psychiatry and Biobehavioral Sciences.

ALUMNI NEWS

David B. Friedman, New York City, is clinical associate professor of psychiatry at NYU. He enjoys photography, tennis, and reading. He and Nancy have three children; two sons are in obstetrics/gynecology at Harvard Medical School, and their daughter starts Harvard College this fall.

Maurice Goodgold, New York City, is an atttending physician in radiology and internal medicine at Beth Israel Medical Center, which awarded him its Alumni Award in 1990. He enjoys woodworking, clock making, and gardening. He and Sally have two children.

Allan K. Michaelson, Miami, FL, is an attending in internal medicine at Doctor's Hospital of Coral Gables. His hobby is golf. He and Bunny have two children

Harrison F. Wood, West Hartford, CT, is retired from internal medicine. He wrote the section on Duodenal Ulcer in When Doctors Get Sick. His hobby is collecting art. He and Nina have two sons.

'47

Stanley M. Aronson, dean of medicine emeritus and University Professor, Brown University Medical School, is president of Hospice Care of Rhode Island and editor-in-chief of the *Rhode Island Medical Journal*. He has been appointed by The Rockefeller Foundation to evaluate its clinical epidemiology programs in 27 medical schools in Asia, Southwest Pacific, Africa, and South America.

Ralph Crawshaw, Portland, OR, received the Benjamin Rush Award for Citizenship and Community Service. Dr. Crawshaw is best known for his work with Oregon Health Decisions, a grassroots movement to promote informed citizen participation in health policy.

Helen N. Helper, Pearl River, NY, is an attending in pediatrics at Nyack Hospital. She and Alex have four children.

Robert T. McClusky, Brookline, MA, is chief of pathology at Mass General. Has recently had articles published on an autoimmune target in nephritis and Wegener's granulomatosis autoantigen. He and Jean have two children.

Victor Parsonnet, Millburn, NJ, is a cardiovascular surgeon and director of surgery at Newark Beth Israel Medical Center. Many recently published papers, from angioplasty to pacemakers. He enjoys tennis and music. He and Mia have three children.

Howard D. Slobodien, Metuchen, NJ, is an attending surgeon at Perth Amboy General Hospital. He enjoys golf and editing *NJ Medicine*. He and Sally have four children and six grandchildren.

Daniel M. Taylor, Kensington, CT, is the Solomon Professor of Ophthalmology and co-chairman of the department at the University of Connecticut Health Center-New Britain General Hospital. He has performed clinical research in the fields of congenital strabismus, corneal transplantation, cataract surgery, refractive surgery, and excimer laser corneal reprofiling, leading to 91 papers, book chapters, and abstracts. He and Lola have two sons.

'48

Severin T. Golojuch, South River, NJ, has retired.

Robert R. Henderson, Stanton, NJ, is a consultant in administrative medicine with his own firm, RRH Associates. Clients are large corporations, insurance carriers, medical groups, and hospitals. He enjoys fishing and tree farming. He and Elizabeth have four children and four grandchildren.

David L. Krohn, New York City, is professor of clinical ophthalmology at NYU and director of its Glaucoma Service. He and Barbara have two daughters.

Norman Orentreich, New York City, is clinical professor of dermatology at NYU. He and Roslyn have three children; Catherine is class of '87.

Irwin K. Stone, Watertown, NY, has retired from internal medicine at House of the Good Samaritan. He enjoys fly fishing, sailing, scuba diving, photography, and gardening. He and Wilfreda have two children; their son is a physician.

'49

Betty Lowell Cottle, Hollidaysburg, PA, is a senior attending in anesthesiology at Mercy Hospital. She and Harold have three children.

James Lee Eliasoph, Darien, CT, is an attending in urology and former division director at Stamford Hospital. He and Sarah have one daughter.

Jacob S. Israel, Scarsdale, NY, is professor of anesthesiology at Albert Einstein College of Medicine and director of anesthesiology at Montefiore—North Central Bronx Hospital. He is the officer in charge of the Naval Unit at Montefiore, which provides the navy with physicians and residents with income and loan repayment. His hobbies are tennis, sailing, and the U.S. Navy. He and Judith have five children (three his, including one physician; two hers).

Yvette Brown Lederberg, St. Thomas, VI, is retired from a specialty in allergy and immunology at St. Thomas Hospital. She enjoys travel, reading, swimming, and boating. She is widowed with two children (her daughter is a physician).

Marcus A. Rothschild, New York City, is professor of medicine at NYU and chief of nuclear medicine at the New York VA Medical Center. His hobbies are home, golf, history, and children's stories. He is the editor of Alcoholism: Clinical and Experimental Research, and has received two awards from the Research Society on Alcoholism.

'50

Richard D. Amelar, New York City, is professor of clinical urology at NYU and an authority on male infertility. He and Alice have three daughters.

Herbert I. Goldman, Great Neck, NY, is an attending in pediatrics at Long Island Jewish-Hillside Medical Center. His hobbies are swimming, tennis, and playing piano. He and Joan have three children.

Lester Hollander, Piedmont CA, is a senior consultant in medicine at the Kaiser Foundation Hospital in Oakland. He and Muriel have five children.

Arthur Lind, Scarsdale, PA, is instructor of clinical medicine (assistant visiting) at NYU. He enjoys tennis and bridge, and is a rosarian. He and Mary Eveline have two children and a new grandchild—their first.

Ira L. Mintz, Closter, NJ, practices psychiatry and psychoanalysis, specializing in eating disorders and psychosomatic illnesses. He is the co-editor of *Psychosomatic Symptoms: Psychodynamic Treatment of the Underlying Personality Disorder* and *Eating to Live or Living to Eat: The Psychodynamic Treatment of the Eating Disorders*.

'51

Salvatore Aiello, Massapequa, NY, is an attending physician, department of pediatrics, Mid-Island Hospital. He and Margaret have two children.

Frank E. Ceccarelli, Kaneohe, HI, is medical director of Castle Medical Center in Kailua. "After practicing urology for twenty years in the army and sixteen years in Kailua, I had a coronary in May '89—the day after quitting smoking. TPA and angioplasty resulted in normal EKG and treadmill, and I started administration. Boat in water, tennis courts near by, and the weather in Hawaii is wonderful." He and Mary have two daughters, one of whom is finishing medical school.

Elaine B. Feldman, Augusta, GA, is professor of medicine, physiology, and endocrinology, and chief, Section of Nutrition, at the Medical College of Georgia. Her specialty is hyperlipidemia. She won the 1990 Joseph B. Goldberger Award from the AMA. Her hobbies are travel and music (opera). She and Daniel have three children.

Ira J. Gelb, Larchmont, NY, specializes in cardiovascular disease. He and June have four children. Stanley F. Wallace, Bedford, MA, practices psychiatry. He enjoys jogging and playing the guitar. He and Carol have three children.

Stanley F. Wallace, Bedford, MA, practices psychiatry. He enjoys jogging and playing the guitar. He and Carol have three children.

'52

William D. Eckert was cited as "the no. 1 investigator in murder cases and a legend among criminal investigators" in *The Amazing People of Kansas.* He heads the International Reference Organization in Forensic Medicine (INFORM), the world's only forensic pathology research center, which he founded in 1966. He receives letters daily for assistance with wrongful death cases.

Ira Eliasoph, White Plains, NY, is associate attending in opthalmology at Mt. Sinai Medical Center. He was course director for a two-day postgraduate seminar on "Cosmetic Surgery of the Aging Eye," given for the eighteenth year at Mt. Sinai. His hobbies are photography, tennis, and travel. His wife is Margaret.

Carl V. Granger, Buffalo, NY, is head of rehabilitation medicine at Buffalo General Hospital. His hobbies are travel and yardwork. He and Joanne have two children.

Robert H. Seinfeld, East Patchogue, NY, has retired from the practice of obstetrics and gynecology. He is director emeritus of Brookhaven Memorial Hospital Medical Center. He is a widower with three children; one son-in-law is Jeff Fein, chief resident in internal medicine at Bellevue.

Grace L. Tarrant Di Liberti, Appleton, WI, is a radiologist at Shawano Hospital. She and **Charles Di Liberti** have three children, one in his fourth year at Baylor Medical School.

June Flory Winkler, Hasbrouck Heights, NJ, is an allergist on the courtesy staff of Passaic General Hospital. She and James have four children.

'53

Elaine German, Princeton, NJ, is director of medical education at United Hospitals Medical Center. Her specialty is endocrinology; she contributed the chapter on the testes in *Textbook of Medicine and Internal Medicine for Dentists*. She and Philip have two children.

Charles M. Holtzman, Roslyn Heights, is director of medicine at Central General Hospital. His hobby is tennis. He and Natalie have two sons.

Ira J. Laufer, New York City, is director of the Diabetes Treatment Center at the New York Eye and Ear Infirmary. He received the Max Ellenberg Professional Service Award of the Clinical Society of New York Diabetes Association for 1990. He enjoys tennis, sailing, and learning to play the trumpet. He and Barbara have two children.

Donald S. MacNair, Lubbock, TX, is a retired pathologist. He is teaching computer science in Germany for the University of Maryland. He is interested in computer-assisted instructional programs in health sciences. He has written articles on computer sciences and book reviews in *JAMA*. He enjoys playing the bass trombone in a brass band. He and Marian have four children.

Edward M. Zohman, Fullerton, CA, is a general surgeon at Martin Luther Hospital. He and Naomi have three children, one a fourth-year medical student at UCLA.

'54

Hugh J. Carroll, Brooklyn, is professor of medicine and director, Hypertension-Electrolyte Division, at SUNY Health Science Center at Brooklyn. He wrote a textbook entitled *Water, Electrolyte and Acid-Base Metabolism*. Last year he received an award from the American College of Physicians for "outstanding contributions to internal medicine," was appointed Distinguished Professor of the State University of New York, and won the Teacher of the Year Award. His hobbies are languages and music. He and Margaret have seven children and five grandchildren.

Pauline G. Hecht, New York City, is instructor of surgery at NYU and an attending in surgery at Beth Israel Medical Center. She received an educational grant from the American Cancer Society, New York City Division Grant for the lecture series "Symposium in Neoplasia." She is the concertmaster of the Doctors' Orchestral Society of New York. She and Arthur have three children.

Raymond M. Simon, Dobbs Ferry, NY, is an attending in internal medicine attending at Doctor's Hospital. His hobbies are reading and travel. He and Myra have three children.

Walter Strauss, Kentfield, CA, practices internal medicine. His hobbies are running, skiing, mountain climbing, and diamonds. He and Janet have five children.

Ralph M. Wynn, Albuquerque, NM, is professor of obstetrics and gynecology and anatomy and director of undergraduate education at the University of New Mexico University Hospital. He wrote a text, *Biology of the Uterus*. His hobby is music.

155

Klaus M. Bron, Pittsburgh, PA, is senior staff radiologist at Presbyterian-University Hospital. He and Lois have two children.

B. Bernie Herron, New York City, is an associate attending psychiatrist at Montefiore Hospital. He and Susan have four children.

Eugene L. Pollack, Rancho Palos Verdes, CA, is assistant clinical professor of surgery at UCLA and a staff surgeon at Kaiser. He and Joan have two children.

Naomi F. Rothfield, Avon, CT, is professor of medicine at the University of Connecticut School of Medicine Health Center and chief of the Section of Arthritis. She and Lawrence have four children.

Leonti H. Thompson has retired from psychiatry with his wife to the Philippines and lives by the sea, where he hopes to read and write. He and Corazon have one son.

'56

Frederick F. Becker, Houston, TX, is vice-president for research at the University of Texas's M.D. Anderson Cancer Center. He has been appointed by President Bush to a six-year term with the National Cancer Advisory Board; its responsibilities include making decisions on the awards of research funds to institutions around the country.

John F. Ferry, Covington, LA, is a staff ophthalmologist at St. Tammany Parish Hospital. He and Patricia have five children

George S. Fidone, Helotes, TX, is a pediatrician and medical director of the San Antonio State Hospital facility for the mentally retarded. He and Jacqueline have five children, one a pediatric hematology oncology Fellow at St. Jude's, another completing his third year of an internal medicine residency.

David Harris, Huntington, NY, is commissioner of Health Services for Suffolk County. He was elected secretary-treasurer of the American College of Preventive Medicine. His hobby is gardening. He and Ruth have one daughter.

Fred S. Kantor, Orange, CT, is one of four researchers at the Yale University School of Medicine who co-authored a paper published in *Science* reporting that a genetically engineered vaccine successfully protected laboratory mice against experimentally induced Lyme disease. A human vaccine may eventually result.

Sidney Perlman, Hartford, CT, has received the American College of Physicians' 1990 Laureate Award of the Connecticut Chapter, given to physicians who have demonstrated an abiding commitment to excellence in medical care, education, or research.

Bernard L. Schapiro, Flemington, NJ, is an attending in family practice at Hunterdon Medical Center. His hobbies are skiing, fishing, and tennis. He and Jane have three children.

Melvin Tresser, Orlando, FL, is a senior attending in internal medicine at Orlando Regional Medical Center. His hobbies are travel and photography. He and Bella have three children.

'57

Ira H. Friedman, New York City, is associate clinical professor of surgery at Mt. Sinai School of Medicine and an attending surgeon at Beth Israel Medical Center. He presented a lecture and video at Shaare Zedek Hospital in Jeruselem on laparoscopic cholecystectomy. He and Erika have two children.

Walter Futterweit, Yonkers, NY, is clinical professor of medicine and chief of the Endocrine Clinic at Mt. Sinai Medical Center. He and Gloria have three children.

Donald Kaye, Gladwyne, PA, is chairman of the Department of Medicine at the Hospital of the Medical College of Pennsylvania. He is president-elect of the Philadelphia County Medical Society and a state delegate to the AMA. His hobby is gardening. He and Janet have four children, all of whom are connected to medicine.

Richard M. Schisgall, Potomac, MD, is an attending in pediatric surgery at Holy Cross Hospital. He and Harriet have three children.

Joel M. Schwartz, Brooklyn, NY, is chief of hematology at Coney Island Hospital. His most recent paper is on aplastic anemia after antithyroid drugs. His hobby is Judaic studies. He and Florence have two children.

'58

Peter E. Bogdan, Greenwich, CT, is chief of staff and head of urology at Greenwich Hospital. He enjoys golf, trout fishing, and travel. He and Dubby have three children.

Melvin D. Brown, Bronx, is associate attending in surgery at St. John's Hospital. His hobby is flying a Cessna '72. He and Ellen have five children. Robert E. Kravetz, Phoenix, AZ, is on active staff, Phoenix Baptist Hospital; his specialty is gastroenterology. He edited *Arizona Medical History*. His hobby is collecting medical antiques. He and Nancy have three children, one a physician.

Robert E. Kravetz, Phoenix, AZ, is on active staff, Phoenix Baptist Hospital; his specialty is gastroenterology. He edited *Arizona Medical History*. His hobby is collecting medical antiques. He and Nancy have three children, one a physician.

<u>ALUMNI NEWS</u>

Abner L. Notkins, Bethesda, MD, received the 1989 Philip Hench Award. He was cited for "outstanding contributions in the field of rheumatology and arthritis by discovery of a component of the immune system and for providing new insight into the nature of rheumatoid factor.

Harvey Rosenblatt, New York City, is in private practice in psychiatry and psychoanalysis. His hobbies are music, photography, and nature. He and Ursula have two children; their son is in his third year at Johns Hopkins Medical School.

Stuart F. Schlossman, Newton Centre, MA, has been named the Baruj Benacerraf Professor of Medicine at Harvard Medical School.

Alex C. Solowey, Bronx, is chief of the surgical service at Manhattan DVA Medical Center. He and Roberta have two children.

'59

William S. Albert, North Caldwell, NJ, is an attending in gastroenterology at Passaic General Hospital Center. He and Marian have one son.

Abraham Jankowitz, New York City, is clinical associate professor of psychiatry at Albert Einstein College of Medicine and on staff at Bronx Childrens' Psychiatric Center. He enjoys travel, photography, and classical music. He and Noreen have three children.

Joel Notkin, West Caldwell, NJ, is chief of the Division of Nephrology at Mountainside Hospital. He and Harriet have three children.

Michael L. Stein, Woodbridge, CT, is assistant clinical professor of pediatrics at Yale-New Haven Hospital. He and Judy have two children.

Richard P. Wedeen, Teaneck, NJ, is associate chief of staff for research (specialty: nephrology) at the VA Medical Center in East Orange. He wrote an editorial on "The Politics of Lead" published in *Industrial Health and Environmental Policy*. His hobby is medical history. He and Roberta have one son.

'60

Harold M. Dick, Saddle River, NJ, is professor and chairman, Department of Orthopaedic Surgery, Columbia Presbyterian Medical Center. He and Joyce have one daughter.

H. Thomas Foley, Cheverly, MD, is medical officer at the Armed Forces Institute of Pathology, Washington, D.C. His specialties are internal medicine and legal medicine. He enjoys tennis, racquetball, and bridge. He and Mary have two children.

Claude W. Mitchell, San Francisco, CA, is chief of ophthalmology at King Faisal Hospital in Saudi Arabia. He and Anita have four children.

Ethel S. Person, New York City, is professor of clinical psychiatry at Columbia University and director of the Columbia Psychoanalytic Center. Her *Dreams of Love and Fateful Encounters: The Power of Romantic Passion* was recently issued in paperback She and Stanley Diamond have two children.

George F. Waltuch, Los Altos Hills, CA, is clinical professor of medicine (hematology-oncology) at Stanford University Hospital. He and Anne have four children.

'61

Micheline M. Mathews-Roth, Boston, MA, is associate professor of medicine at Harvard Medical School and associate physician at Brigham and Women's Hospital. Her research interests include the structure and function of carotenoid pigments (including cancer prevention) and photobiology of skin. She developed the first successful treatment for erthropoietic protoporphyria. Her hobbies are sewing and music. She and Robert have one son.

Bernard Moss, Bethesda, MD, is laboratory chief, National Institutes of Health. His specialty is virology, in which he has published more than 300 papers. He and Toby have three children.

William I. Rosenblum, Richmond, VA, is professor and vice-chair of pathology and director of neuropathology at the Medical College of Virginia. His research continues what he began at NYU -brain microcirculation. "I am very proud of continuous funding by NIH over the past 22 years. I am almost as proud of my card in the American Federation of Musicians and 21-year membership in the Richmond Symphony (2nd violin section). My biggest disappointments are (1) the rapidly accelerating disappearance of conditions that made possible the practice of medicine and research by the same faculty person; (2) the noticeable rise of 'antiscience' in American; and (3) the related rise in the influence of so-called animal rights advocates, who attempt through both legal and illegal means to enforce their religious principles upon the American public at the expense of public health."

George Truchly, New York City, is professor of clinical orthopedic surgery at NYU. His hobbies are skiing and photography.

Howard E. Voss, Stamford, CT, an allergist, was elected chairman of the medical staff of Stamford Hospital. He feels it is both a privilege and an honor." He and Sally have one son.

'63

William B. Cohen, Los Angeles, CA, is an attending surgeon at Cedars-Sinai Medical Center. He and Joy have one daughter.

Roselyn L. Kolodny, Newton, MA, is chief of the pediatric section of the largest HMO in the greater Boston area, the Harvard Community Health Plan. Besides administration and a large clinical practice, she teaches Harvard medical students and residents. She and Edwin have four children, one of whom is a third-year medical student.

Allan Lipton, Hershey, PA, is professor of medicine and chief of oncology at Hershey Medical Center. His most recent paper: "Adjuvant Low-Dose Aspirin Plus Dipyridamole in Colorectal Cancer." His hobbies include tennis and jogging. He and Nancy have three children.

Frank Mainzer, San Francisco, CA, is chairman of the Department of Radiology, St. Francis Memorial Hospital. He and Lonnie have six children (combined).

David B. Soll, Rydal, PA, is chief, Department of Ophthalmology, Cooper Hospital/University Medical Center—Robert Wood Johnson Medical School. He published "Current Concepts in the Medical and Surgical Management of Thyroid Disease." He and Jean have four children.

'64

Robert E. Donohue, Denver, CO, is professor of surgery and chief of urology at the Denver VA Medical Center. His hobbies are skiing, touring the West, and reading. He and Julie have two children.

Howard S. Goldberg, Swampcott, MA, is an attending in dermatology at Lynn Hospital. He enjoys tennis and swimming. He and Betsy have two daughters.

Lee Goldsmith, Scarsdale, NY, is both an attorney and physician, specializing in legal medicine. He lectured at the Rockland Psychiatric Center on "The Expanding Legal Problems of the Practicing Psychiatrist." His hobbies are sailing and tennis. He and (Dr.) Arlene have three children.

Arnold Jacobson, Orinda, CA, a gynecologist, is director of in vitro fertilization at San Ramon Regional Medical Center. He recently published "A Novel Superovulation Regimen: Three-Day Lupron with Overlapping Gonadotropins." Hobbies are golf, scuba diving, and tennis. He and Jo-Ann have two children.

Leonard J. Rothman, Cornwallon-Hudson, NY, is in obstetrics and gynecology at St. Luke's Hospital, Newburgh. He enjoys tennis and skiing. He and Judy have two children.

'65

Julia Brandes, Atherton, CA, is a member of the Permanente Medical Group practicing nephrology and internal medicine. Her group provides care to more than 2 million patients in Northern California. She and Ian Wall have three children.

Arthur I. Feinberg, Hollywood, FL, is assistant professor of surgery at the University of Miami and senior staff surgeon at Memorial Hospital. He enjoys boating, cruising the Bahama out islands, fishing, and diving. He and Gilda-Jo have two children.

Ira M. Lebenson, Urbana, IL, is a cardiovascular surgeon at Christie Clinic. He and Cecile have three children.

Lloyd F. Novick, Glenmont, NY, is director of the Center for Community Health at the New York State Department of Health and chairman and professor, Department of Epidemiology, School of Public Health, State University of New York at Albany. His specialty is preventive medicine. He co-authored "HIV Seropositivity in Newborns in New York State" which appeared in JAMA. He enjoys canoeing and skiing. He and Carole have two children.

Melvyn Rosenstein, Santa Monica, CA, is co-director, critical care, and former chief of staff at Brotman Medical Center. His hobbies are skiing, movies, and cycling. He and Gitta have four children.

'66

Michael D. Goldfield, San Mateo, CA, is assistant clinical professor of psychiatry at the University of California at San Francisco. He enjoys squash. He and Ronnie have two children.

Jay A. Levine, Coconut Grove, FL, is an attending in cardiology at Miami Heart Institute. His hobby is golf. He and Marcia have two children.

Maurice D. Levy, Topeka, KS, is staff surgeon at the Topeka VA Medical Center. He enjoys bicycling. He and Nicole have one son.

Alan L. Rubin, Tiburon, CA, is an endocrinologist and chairman of continuing medical education at St. Francis Memorial Hospital. "As I turned 50 last year, I count my blessings: a close family, a satisfactory medical practice, a beautiful home, a lovely environment to live in. To celebrate I am climbing a mountain—Mt. Shasta—since I am fortunate to have the other major element for a satisfying life, good health." He also enjoys singing and gardening. He and Enid have two children.

Barry L. Zaret, Woodbridge, CT, is chief of cardiology at Yale-New Haven Medical Center. He has written more than 200 papers and book chapters. His hobbies are long-distance running and reading nonmedical literature. He and Myrna have three children.

'67

Henry R. Black, New Haven, CT, is professor of medicine and director of the Preventive Cardiology Program and codirector of the Yale Vascular Center at the Yale School of Medicine.

Neil P. Dreyer, Stamford, CT, is an attending in internal medicine (nephrolgy) at Stamford Hospital. He enjoys marathon running. He and Lois have two sons.

Thomas Q. Garvey, III, Potomac, MD, is an attending in gastroenterology at Suburban Hospital. His most recent paper: "Switch Candidates from the GI Perspective." He enjoys playing tennis and building model ships. He and Carole have one son.

Dean Schuyler, Rockville, MD, is in the private practice of psychiatry. He wrote *A Practical Guide to Cognitive Therapy.* When not occupied with psychiatry, he works in the allied field of hockey journalism. He and Terry have two daughters.

Arthur J. Silvergleid, Redlands, CA, is chief executive officer and medical director of a two-county nonprofit community blood center. He teaches hemat-

ology part-time. He has served as president of the California Blood Bank Society, and was founder and president of the Blood Centers of California. Hobbies: wine, skiing, movies, fiction, tennis, golf. He and Margaret have two children. He is looking forward to seeing as many classmates as possible in 1992 for the class's 25th reunion.

Carol S. Stern, Redmond, WA, is in the private practice of dermatology. She has two children.

'68

Richard D. Krugman, Englewood, CO, has been appointed interim dean of the University of Colorado School of Medicine. He is professor of pediatrics at the University of Colorado School of Medicine and director of its C. Henry Kempe National Center for the Prevention and Treatment of Child Abuse and Neglect. He chaired the U.S. Advisory Board on Child Abuse and Neglect, which issued its first report to Congress in June 1990. He and Mary have four children.

Michael E. Selzer, Philadelphia, PA, is professor of neurology at the University of Pennsylvania Medical School and an attending at its hospital. His research interest is in spinal cord regeneration: "I use the sea lamprey as an experimental model. I am on sabbatical in my own laboratory, learning molecular biological techniques to apply to the study of regeneration." His hobby is squash. He is divorced with two children.

Mark S. Slonim, El Cajon, CA, is a hand surgeon. He has a chapter in *MRI* of the Hand and Wrist and Clinical MRI (Edelman). He enjoys skiing and golf. He and Deborah have three children.

Martin L. Smithline, Wyckoff, NJ, is director of opthalmology at Valley Hospital. He and Catherine have three children.

Paula L. Stillman, Auburn, MA, is professor of pediatrics and associate dean for curriculum at the University of Massachusetts Medical Center. She received the 1990 John P. Hubbard Award, given for significant contributions to the pursuit of excellence in the field of evaluation in medicine. She has performed extensive research on the development of patient instructor model, and has played a key role in introducing standardized clinical evaluation procedures for use in residency training and for medical students. She and (Dr.) Alfred have two children.

'69

Steven L. Dubovsky, Boulder, CO, is professor and vice-chairman of psychiatry at the University of Colorado School of Medicine. His research is in the psychology of manic depressive illness; he was the first to introduce calcium channel blockers as psychiatric drugs. He recently published *Mind-Body Deceptions*. Hobbies include rock climbing, running, and tae kwon do. He and Anne have two daughters.

Susan D. Gisser, Wynnewood, PA, is a pathologist at Cooper Hospital/University Medical Center. Her hobbies are dancing and growing cacti and succulents.

Margaret R. Kind, New York City, is an associate attending in psychiatry at Metropolitan Hospital. She presented "Parent Education in High School, a Primary Prevention Program" at the American Psychiatric Association convention. She and Steven Roth have three children.

Kenneth A. Klein, Racine, WI, is medical director, Department of Radiation Oncology, St. Luke's Hospital. "My work and my family take up most of my time. I have taken up weight training, and in my spare time, I am trying to develop a program for a handball calculator to enable the physician to check the radiotherapy dose calculations without leaving his desk." He and Ann have two sons.

Irving M. Paltrowitz, River Vale, NJ, is attending physician and chief of gastroenterology at Holy Name Hospital. He and Joanne have three children.

John R. Rostkowski, Martinez, CA, is a psychiatrist and vice president of the medical staff at Walnut Creek Hospital. His hobby is skiing. He and Georgene have two children.

'70

David M. Brody, Briarcliff Manor, NY, is a psychiatrist at New York Hospital-Cornell Medical Center Westchester Division. His hobbies are skiing and tennis. He and Lynne M. Brody have two children.

Howard A. Cohen, Los Angeles, CA, is director, Cardiac Catheterization Laboratory, St. John's Hospital. He wrote "Optimizing the Results of Balloon Coronary Angioplasty of Non Ideal Lesions" in *Progress in CV Disease*. He and Christine have two children.

Peter D. Gorevic, Centerport, NY, is a rheumatologist/allergist and professor of medicine at SUNY Health Science Center at Stony Brook. His most recent paper is "Characterization of Ocular Amyloid." He likes jogging and music. He and Judy have three children.

David C. Mendelson, Rochester, NY, is senior attending in medicine at Genesee Hospital. His hobby is gardening. He and Michelle have two children.

Howard M. Miller, Morganville, NJ, is attending radiologist at the John F. Kennedy Medical Center, specializing in diagnostics. He enjoys bicycling, walking, tennis, and travel. He and Tina have two children.

771

Jonathan E. Friedberg, Miami Beach, FL, is practicing diagnostic radiology at South Shore Hospital. He and Diane have two children.

Edward M. Geltman, Olivette, MO, is associate professor of medicine at Washington University School of Medicine and medical director of the Cardiac Diagnostic Laboratory at Barnes Hospital. His most recent paper is "Sex Bias in the Management of Coronary Artery Disease." He enjoys fatherhood, rowing, golf, and photography. He and Nancy have one son.

Matthew Gudis, Mt. Kisco, NY, is in the private practice of psychiatry. He and Barbara have two daughters.

Lee K. Richman, Lakewood, CO, is associate clinical professor of medicine at the University of Colorado Health Sciences Center and an attending in gastroeneterology at Lutheran Medical Center. He enjoys skiing, tennis, and gardening ("the only English perennial garden in Colorado"). He and Jill have two children.

Richard Sackler, Greenwich, CT, enjoys skiing and bicycling. He and Beth have three children.

Tadataka Yamada, Ann Arbor, MI, has been appointed the John G. Searle Professor and chair, Department of Internal Medicine, at the University of Michigan Medical School. His wife is Leslie.

'72

Jay Gerstenblith, Baltimore, MD, is a senior attending in pulmonary medicine at St. Agnes Hospital. He and Miriam have three children.

Paul A. Gluck, Miami, FL, is an attending in obstetrics and gynecology at Baptist Hospital of Miami. He is president of the Florida Obstetrics/Gynecology Society and chairman of the Florida Medical Association Committee on Professional Liability. He testifed before the state legislature on abortion and AIDS testing. "I still find time to enjoy the tranquility of a gentle breeze sailing on Biscayne Bay and travel with my family—most recently to Hawaii." He and Joan have two children.

Edward J. Lipinsky, St. James, NY, is an attending in otolaryngology at St. John's Episcopal Hospital. He enjoys skiing, hiking, and biking. He and Janet have two sons.

Theodore P. Werblin, Bluefield, WV, is an ophthalmologist at Princeton Community Hospital. His most recent papers deal with lamellar refractive surgery and keratoplasty. He enjoys white water rafting and salt water aquariums. He and Sara have three children.

Jeffrey A. Wolf, Santa Barbara, CA, is head of obstetrics and gynecology, South Bay Service Area, Cigna Health-Plans of California, South Bay Hospital. His hobbies are amateur radio, R/C aircraft, piano, and photography. He and Rosalie have two daughters.

'73

Clifford M. Elson, Schenectady, NY, is an attending in obstetrics and gynecology at St. Clare's Hospital. He enjoys photography, hiking, reading, canoeing, and cross-country skiing. He and Marilyn have three children.

Jonathan A. Hollander, Berkeley, CA, is in internal medicine/medical oncology at Alta Bates-Herrick Hospital. He and Matilde have four children.

Karen M. Mackler, New Rochelle, NY, is practicing dermatology at Montefiore and New Rochelle hospitals. Her hobbies are tennis and reading. She and Paul Saenger, M.D., have two daughters.

Elliot Schildkrout, Newton, MA, is associate clinical professor of psychiatry at New England Medical Center. He and Barbara '74 have two children.

Steven L. Valenstein, Boca Raton, FL, is an attending oncologist at Boca Raton Community Hospital. He enjoys weightlifting and golf. He and Hilary have two sons.

74

Dorothy N. Friedberg, New York City, is assistant clinical professor of ophthalmology at NYU. She recently wrote "Microsporidial Keratoconjunctivitis in Acquired Immunodeficiency Syndrome." She and Neal have two children.

Stanley D. Hoffman, Amherst, NY, is in dermatology at St. Joseph Community Hospital. His hobby is gardening. He and Elizabeth have seven children.

Maurie Markman, Hillside, NJ, is vice chairman, department of medicine, at Memorial Sloan-Kettering Cancer Center. He and Tomes have four children.

Jeffrey M. Mitchel, Englewood, NJ, is an attending cardiologist at Englewood Hospital. His hobby: exercise. He and Lynda have three children.

Raphael I. Shapiro, Santa Fe, NM, is a surgeon and vice president of medical staff at St. Vincent Hospital. He recently participated in a medical exchange to Bukhara, USSR, where he lived and worked with a Soviet surgeon for one week. He enjoys skiing and travel. He and Angelina Vera have three children.

'75

Jeffrey M. Ambinder, Monsey, NY, is an oncologist in White Plains. He and Melanie have five children.

Carole S. Brafman, New Canaan, CT, is clinical assistant professor of psychiatry at Mt. Sinai Medical Center. She enjoys family outings and music. She and Myron Sharpe have two daughters.

Steven R. Goldstein, New York City, is assistant professor of clinical obstetrics and gynecology at NYU. He is working on the second edition of *Endovaginal Ultrasound* and has logged numerous frequent flyer miles doing postgraduate courses. He and Kathy are the new parents of Phoebe, delivered by Dr. Porges—she sleeps through the night, even if her father doesn't.

Steven D. Meed, New York City, is an attending rheumatologist at Lenox Hill Hospital. His hobbies are tennis, bicycling, dollhouses, and urban archaeology. He and Rita have two daughters.

Mitchell L. Petusevsky, Miami, FL, is medical director of the Critical Care Unit at Doctors Hospital. His specialty is pulmonary diseases. Jogging and music are his hobbies. He and Roberta have two daughters.

'76

Richard A. D'Amico, Cresskill, NJ, has taken numerous around-the-world trips, many under the auspices of Healing the Children of New Jersey, a nonprofit organization dedicated to providing medical care for Third World children by sending doctors to their countries or by bringing them to the United States. He led a team of three plastic surgeons, two or three anesthesiologists or nurse anesthesiologist, three to five nurses, and an administrator to Tamazanchale, Mexico. In one week, they performed 55 major reconstructive procedures for congenital cleft lip and palate, other deformities, and facial and hand burns. "I do it because I enjoy it and it's worthwhile. It's totally and ridiculously voluntary, which is what's wonderful about it.'

John A. Chanaslie, St. Louis, MO, is an instructor in medicine, Division of Dermatology, at Barnes Hospital, Washington University School of Medicine. His hobbies are classical guitar and chess. He and Deborah have two children.

Mark S. Friedman, Forest Hills, is an attending gastroenterologist at Booth Memorial Hospital. His hobby is photography. He and Rose have four children.



Sharon Henry has been named vice-president, medical operations, at Bristol-Myers Squibb U.S. Pharmaceutical Division. She will be responsible for support of products in the cardiovascular, central nervous system, metabolic, and antiinfective therapeutic areas; her activities will include clinical trial development, medical support of marketing, professional service, and medical education.

Jerome F. Levine, Woodcliff Lake, NJ, is an attending and associate director attending in internal medicine at Hackensack Medical Center, where he is also program director for Infectious Diseases Fellowship. He and Helaine have two children.

Seth O. Mankes, Patchogue, NY, is an attending in radiology at Brookhaven Memorial Hospital. His hobbies are tennis, swimming, and piano. He and Leslie have two children.

Randall Radin, Studio City, CA, is associate professor of radiology at the University of Southern California School of Medicine, specializing in gastrointestinal radiology and body CT. His recent papers deal with hepatic radiology.

777

Betsy E. Blechman, Los Angeles, CA, is an ophthalmologist. She has two children.

Richard S. Haber, New York City, is associate professor of medicine at Mt. Sinai Medical Center. He has written a paper on "Stimulation of Glucose Transport by Thyroid Hormone in ARL 15 Cells" that appeared in *Endocrinology*. His hobby is sailboat racing.

Judith B. Schartenberg, Birmingham, MI, practices ophthalmology at St. John Hospital Macomb Center. She and Roy Goodman, '75, have two children.

Harry Snady, New York City, is assistant professor of medicine at Mt. Sinai Medical Center, specializing in endoscopic sonography (gastroenterology). His hobbies are golf and wine. His wife is Laurel.

Marilyn J. Telen, Durham, NC, a hematologist, is assistant professor of medicine at Duke University Medical Center. She recently spent six months working in Dr. Jean-Pierre Cartron's lab in Paris. At Duke, she devotes most of her time to research into the expression of protein-based blood group antigens. She is also associate director of the Transfusion Service. She and Dr. Henry Greene have two sons.

78

Richard A. Balter, Port Jefferson, NY, is in internal medicine at St. Charles Hospital and John T. Mather Memorial Hospital. He and Lynette Horowitz, M.D., have two children.

Howard J. Birenbaum, Owing Mills, MD, is at the University of Maryland and director of neonatology at St. Agnes Hospital. "Neonatology at our community hospital is at the forefront. We are involved in the treatment INDs of surfactant therapy for the prevention and treatment of respiratory distress syndrome; the Vermont-Oxford trails facilitation service; study group for the complications of perinatal care. We also have introduced highfrequency ventilation for the treatment of premature infants with pneumothoraces and pulmonary interstitial emphysema." He and Debra have three children.

Gregory L. Fricchione, Stony Brook, NY, is associate professor of psychiatry at SUNY Stony Brook and residency director and director of consultation psychiatry at University Hospital. His papers have covered catatonia and steroid withdrawal syndromes. His hobbies are reading theology and anthropology, and travel. He and Kathryn have three children.

John A. Pfeiffer, Akron, OH, is in family practice. "Still playing soccer and now fast pitch softball in a summer league in Amish country (Mennonites love baseball). I am a radical libertarian, working with Ron Paul on his TV show, 'At Issue." He and Mary have three children (one his, two hers).

David A. Present, New York City, is chief of Orthopedic Oncology at Hospital for Joint Diseases. He and Karen have two children.

'79

Richard H. Cohan, Virginia Beach, VA, is associate professor of radiology at Eastern Virginia Medical School and an attending at Norfolk General Hospital. His hobbies are classical music and "pondering the bizarreness of life." He and Nina Shafiroff have three sons.

David Guzick, Pittsburgh, PA is associate professor of obstetrics and gynecology at the University of Pittsburgh School of Medicine and director of Reproductive Endocrinology at Magee Women's Hospital. He and Donna, a Ph.D. in sleep research, recently had a son.

ALUMNI NEWS

Glenn C. Murray, Pittsburgh, PA, is assistant professor of medicine at Presbyterian-University Hospital, specializing in critical care. His wife is Kinuko.

Jeffrey Parsonnet, Lebanon, NH, is associate professor of medicine at Dartmouth-Hitchcock Medical Center. His hobby is music. He and Kathy Ann have one son.

Robert P. Fein, Princeton, NJ, is assistant clinical professor of medical oncology at St. Peter's Medical Center, New Brunswick. He and Erica have three children.

'80

Anne E. Burdick, Orinda, CA, is a dermatologist at Kaiser Permanente Medical Center. She and Brian Berman have two sons.

Alissa B. Fox, Flemington, NJ, is a dermatologist at Somerset Medical Center. She and James have two children.

Ivan Grunberger, New York City, is associate chairman of urology at Long Island College Hospital. He has been principal investigator of the diasonic lithotriptor and has been lecturing nationally and internationally. His wife is Julie.

Ronald W. Kristan, Rumson, NJ, is an attending in ophthalmology/plastic surgery at Monmouth Medical Center. His hobby is skiing. He and Connie have three sons.

Martin P. Lefkowitz, Suffern, NY, is group director, cardiovascular medicine, at Lederle Laboratories. His specialty is nephrology. He and Laura have two children.

'81

Paul R. Gindoff, Potomac, MD, is assistant professor of obstetrics and gynecology at George Washington University School of Medicine and director of the in vitro fertilization programs. He enjoys swimming and outdoor activities. He and Michelle have two children.

Baruch Jacobs, Miami Beach, FL, is on the associate staff in plastic and reconstructive surgery at Mt. Sinai Hospital. He enjoys scuba diving at flying. He and Robin have two children.

Lisa C. Kanengiser, New York City, is an attending in pulmonary medicine at Queens Hospital Center. Her hobby is cooking. She and Laurence Ginsberg have two children.

David E. Leeman, Newton, MA, is associate director of the Cardiac Catheterization Laboratory at New England Deaconess Hospital. He and Ramona have three children.

Joseph R. Mermelstein, Manhasset Hills, NJ, is adjunct clinical attending, New York Eye and Ear Infirmary. He and Susan have three children.

'82

Anthony M. Frasca, Northport, NY, is an attending in anesthesiology at John T. Mather Memorial Hospital. He and Cindee own a horse and a golden retriever. He visited Susie and Mitchel Untracht in Palm Beach to welcome their son into the fold. Mitch is a fellow anesthesiologist in private practice in Palm Beach.

Barbara I. Gulanski, New Haven, CT, is associate research scientist at Yale-New Haven Hospital, specializing in neuroendocrinology.

Kenneth M. Kramer, Hamden, CT, is an attending in orthopedic urgery at Yale-New Haven Hospital. He sees local '82 alums Ron Nudel, Barbara Gulanski, and John Vecchio—"all bringing up the level of medicine in New Haven." He and Robin have five children, including a set of twins.

Simon L. Lo, Monterey Park, CA, is director of endoscopy and outpatient gastrointestinal services at Harbor-UCLA Medical Center. His hobbies are travel and home improvement. He and Yim Hom have two children.

Mace L. Rothenberg, Bethesda, MD, is special assistant to the director, Division of Cancer Treatment, National Cancer Institute, and a clinical researcher in the Medicine Branch, where his interests involve new therapies for advanced ovarian cancer. His hobbies are tennis, golf, and philately. He and Joyce have a new daughter.

Edward C. Yang, Forest Hills, was inducted as a Fellow of the American Academy of Orthopaedic Surgeons. His wife is Corinne Chin.

'83

Eric R. Braverman, Skillman, NJ, is director of Princeton Associates for Total Health. He has been a medical columnist in print and on television.

David J. Edelstein, Woodmere, NJ, is an attending in ophthalmology at Brookdale Hospital. His wife is Deborah Silberman, M.D.

Elliott Fuhrer, New York City, is attending in medicine (gastroenterology) at Metropolitan Hospital. He enjoys computers and biking.

David A. Haake, Culver City, CA, is in the second year of a Burroughs Wellcome Fund Fellowship in Infectious Diseases at UCLA. His hobbies are jogging, swimming, and photography. He and Deobrah have two children.

Lisa M. Wong, Newton, MA, is clinical instructor of pediatrics at Massachusetts General Hospital. She is a violinist with the Longwood Symphony Orchestra, which is made up of physicians and other health-care professionals. She and Lynn Chang have two children.

'84

Romeo Acosta, Jr., St. Petersburg, FL, is in obstetrics and gynecology at Bayfront Medical Center. He enjoys golf and fishing. He and Elba have two children.

Mary Jane Lambert, Seattle, WA, is an attending in internal medicine (primary care) at Swedish Hospital Medical Center.

Lisa B. Rooney, Tarzana, CA, is an attending pediatrician at Tarzana Medical Center. She and Robert have two children

Robert L. Salant, New York City, is a clinical instructor of urology at Beth Israel Medical Center His hobby is fishing. He and Ellen have two children.

'85

Julia F. Chang-Lin, New York City, is an attending pediatrician at Bellevue. Her hobbies are embroidery, reading, and philately. She and Chen-dao Lin have a new daughter.

Daniel G. Dadourian, West Roxbury, MA, is cardiology fellow at Harvard Medical School and the West Roxbury VA. He enjoys flying, skiing, and computers

Mark S. Lachs, Wilton, CT, is assistant professor of medicine at Yale University School of Medicine. His "The Forgiveness of Coinsurance: Charity or Cheating?" appeared in the *NEJM*. His hobbies are sailing and cycling. His wife is Susan.

Janice Kleinick Marks, New York City, affiliated with and joined with Dr. Elissa Gretz (resident at NYU class of '88) in the private practice of obstetrics and gynecology. She is also an adjunct assistant at Lenox Hill Hospital. She and Evan have one daughter.

Lisa G. Newman, New York City, is clinical instructor of medicine (endocrinology) at Mt. Sinai Medical Center.

Samuel H. Selesnick, Flemington, NJ, is working on an otology fellowship at the University of California at San Francisco. He enjoys skiing and tennis. His wife is Alexandra Kent.

'86

Charles H. Adler, Bala Cynwyd, PA, a neurologist, is doing a oneyear movement disorders fellowship at the Graduate Hospital of the University of Pennsylvania. His hobbies are golf and basketball. He and Laura have one daughter.

David H. Dorfman, Yonkers, NY, is a Fellow in pediatrics (emergency medicine) at Bronx Municipal Hospital Center. His latest papers are on congenital syphilis (in the *NEJM*) and febrile children with HIV infection. He and Carole Eastman have one son.

Charles M. Farber, New York City, is an internal medicine Fellow (hematology/oncology) at New York Hospital-Cornell Medical Center. He and Leslie have one daughter.

Ellen A. Johnston, Hershey, PA, is in family practice at Polyclinic Medical Center. She enjoys exercise, ping pong, and travel.

Deana M. Lazard, Newark, NJ, is a Fellow in internal medicine (rheumatology) at the University of Medicine and Dentistry of New Jersey. She and Robert Mills have a new son.

Mark Monane is a Fellow in geriatrics at Harvard Medical School and earning an MPH at the Harvard School of Public Health under a grant from the Kellogg Foundation.

'87

Richard A. Berkman, Rockville, MD, is a neurosurgery resident at the National Institutes of Health. He enjoys softball, tennis, and skiing. He and Stacey Goodman have one daughter.

Michelle A. Kim, Chesterfield, MO, is a child psychiatry Fellow at Walter Reed Army Medical Center.

Jessica Rosenberg (Brown), New York City, is chief resident in obstetrics and gynecology at New York Hospital-Cornell Medical Center. Her husband is James.

Paul J. Samuels, Chicago, IL, is a clinical instructor of neonatology at Prentice Hospital.

Adam R. Silvers, New York City, is a resident in radiology at Mt. Sinai Medical Center.

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Lita Aeder, Flushing, is chief resident in pediatrics at Brookdale Hospital. She and Mitchel have three children.

Sandor A. Joffe, New York City, is a resident in radiology at Beth Israel Medical Center. His wife is Susan.

Russell D. Robbins, New York City, is doing his residency in urology at NYU. His hobbies are birdwatching, tennis, and swimming. His wife is Valerie Rosenson.

Ruth Rosenberg, Philadelphia, PA, has completed two years of a residency in pediatrics at Children's Hospital and is continuing a residency in child psychiatry at the Philadelphia Child Guidance Clinic. Photography is her hobby. Her husband is Jacob Cohn.

Bruce M. Solitar, New York City, is a senior admitting resident at NYU in internal medicine. He enjoys music, Nintendo, and reading medical journals. His wife is Susan Parker.

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Alejandro Badia, New York City, is a PGY-2 resident at NYU in orthopedic surgery. He enjoys dancing and weightlifting.

Evan H. Crain, Baltimore, MD, is doing his residency in orthopedic surgery in the University of Maryland Medical System.

Glenn R. Jacobowitz, New York City, is a PGY-2 resident in general surgery at NYU. His wife is **Marilyn** Forman.

Barry Krosser, New York City, is a resident in orthopedic surgery at NYU. His wife is Elicia Weinstein.

Joshua Markower, Irvington, NY, works by day for Pfizer scouting new medical device technology; at night he plays music with Still Trust, which performs weekly in New York City.

OBITUARIES

ALUMNI

- '21 Samuel Berg, Newark, NJ, December 15, 1990.
- **'24 Isidor Goldberg**, Bronx, NY, November 18, 1990.
- '26 Thomas C. Case, New York, NY, January 1, 1991.
- '26 Kate F. Miller, Miami, FL, November 3, 1990.
- **'28 Morton Milsner,** St. Petersburg, FL, June 18,1990.
- **'29 Antonio Rottino,** New York, NY, June 1991.
- '31 Emanuel P. LaMotta, Manhasset, NY, April 1991.
- **'31 Stanton A. Rachlin**, Fayetteville, NC, January 27, 1991.
- '33 Stanley M. Mark, Whitestone, NY, March 17, 1991.

- '33 Louis Pelner, Coconut Creek, FL, November 23, 1990.
- '34 Marvin D. Linick, Chester, NY, January 20, 1991.
- '36 Hilliard Dubrow, New York, NY, June 3, 1991.
- '37 Leonard S. Rosenfeld, Chapel Hill, NC, November 27, 1990.
- '38 Milton Millman, La Jolla, CA, August 20, 1990.
- '38 Irving M. Riffin, Upper Montclair, NJ, December 29, 1990.
- '39 Florence G. Liben, Mount Vernon, NY, February 1991.
- '40 Walter S. Schachat, Pompano Beach, FL, December 16, 1990.
- '40 Isadore Schlamowitz, New York, NY, January 1991.
- '40 Joseph E. Terris, South Burlington, VT, December 1990.
- '42 Robert A. Herfort, West Penobscot, ME, May 16, 1991.
- '42 Louis S. Smith, Boynton Beach, FL, April 1, 1990.
- '48 Joseph Peyser, Lake Worth, FL, January 19, 1991.
- '49 Luther A. Cloud, Auburn, ME, March 5, 1991.
- '53 Richard M. Schisgall, Chevy Chase, MD, April 20, 1991.

FACULTY

Dorothy Fisher, M.D., clinical associate professor of dermatology, September 27, 1990.

Anastasios Georgotas, M.D., professor of psychiatry, November 10, 1990.

George L. Ginsberg, M.D., professor of clinical psychiatry, February 26, 1991.

Michael Heidelberger, Ph.D., adjunct professor of pathology, June 25, 1991 (see page 55).

Josef Jaksy, M.D., clinical professor of urology, June 18, 1991 (see page 53).

Dora Schaffer, M.D., clinical associate professor of psychiatry, February 11, 1991.

Gilbert M. Schiff, M.D., clinical associate professor of dermatology, January 26, 1991.

Constantin V. Teodoru, M.D., clinical associate professor of medicine, January 18, 1991.



In order to heal,
medicine must have the knowledge
that only basic science
can provide.

