



ANNUAL REPORT 2012-13



Albert Einstein College of Medicine  
OF YESHIVA UNIVERSITY

Science at the heart of medicine



## A WHOLE COMMUNITY

At Yeshiva University we believe that education amounts to more than merely acquiring knowledge. Rather, it is about seeking and achieving *shleimut*, or wholeness. This sort of meaningful wholeness permeates our sacred enterprise on every level. Our students work diligently inside and outside the classroom to live full and integrated lives; our faculty members instruct those students with the very best that research and education have to offer and imbue them with the sensitivities necessary to affect the world in wondrous ways. Our generous supporters partner with us to ensure that we may continue to dream and build.

This has been a remarkable year for Yeshiva University and Albert Einstein College of Medicine. We have received tremendous philanthropic support, continue to build our exceptional faculty and physical facilities and have been leaders in the world of research by making important scientific discoveries.

This annual report demonstrates how the students, faculty, alumni and supporters who make up the Yeshiva and Einstein family are changing the world and making our dreams a reality.

A handwritten signature in black ink that reads "Richard M. Joel". The signature is written in a cursive, flowing style.

Richard M. Joel, President  
Yeshiva University  
[www.yu.edu](http://www.yu.edu)



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annualreport2012-2013/](http://www.einstein.yu.edu/r/annualreport2012-2013/)



Dear Friends,

In 2006, when I left my position as director of the National Institute of Diabetes and Digestive and Kidney Diseases at the National Institutes of Health (NIH) to become dean at Einstein, I had no illu-

sions about the funding challenges we would face.

NIH grant awards are by far the largest source of Einstein revenue. I knew that congressional funding of the NIH had been stagnant since 2004 and was likely to remain that way for years.

But I also knew that private philanthropy could help offset the NIH budget declines.

The most obvious example of that philanthropy is the Michael F. Price Center for Genetic and Translational Medicine/Harold and Muriel Block Research Pavilion. We formally opened and dedicated this magnificent research building in June 2008 with members of the Price and Block families attending as guests of honor. Since then, we've filled the building with outstanding investigators who have enjoyed great success in their research and in securing NIH funding in a fiercely competitive environment.

Muriel Block was one of the first Einstein supporters I met after becoming dean. On the many occasions we were together in New York City and at her Florida home, I came to know her well and to appreciate her strong support for Einstein.

Sadly, Muriel died in the fall of 2010, but now we know that her support for Einstein will continue, thanks

to the wonderful gift in excess of \$150 million that Muriel recently left to Einstein. As described in this annual report, Muriel's bequest will allow us to endow the newly renamed Harold and Muriel Block Institute for Clinical and Translational Research at Einstein and Montefiore along with a series of professorial chairs and to establish the new Institute for Brain Research. The legacy of Harold and Muriel Block will live on in the medical research accomplishments of Einstein faculty so generously supported by her bequest.

Another key to Einstein's success is our partnership with Montefiore, the University Hospital and academic medical center for Einstein. Judy Aschner's appointment as our new chair of pediatrics and the expanded role for Allan Wolkoff, as director of the Marion Bessin Liver Research Center and chief of the division of gastroenterology and liver diseases at Einstein and Montefiore, illustrate the synergy possible when the medical school and the hospital/health system work together on our shared educational, research and clinical-care missions. Both appointments are discussed in the following pages.

Correcting our fiscal deficit by cutting the NIH budget is shortsighted for both humanitarian and economic reasons, and I fervently hope that our nation's leaders will realize that. But whatever the federal budget brings, I know that Einstein will continue to play a leading role in improving health, thanks to its superb partners.

A handwritten signature in black ink that reads "Allen M. Spiegel". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Allen M. Spiegel, M.D.

The Marilyn and Stanley M. Katz Dean



Dear Friends,

This year's annual report is about people who are dedicated to improving human health—researchers and clinicians, students and trainees, faculty and administrators—and the philanthropists who make Einstein's mission possible.

Einstein is known as a highly collaborative place, with researchers constantly crossing departmental lines to work together on projects, and these partnerships have proven crucial to our success.

In these pages, our focus is on acknowledging a different kind of partnership—the one between philanthropists and the work they support.

Philanthropy helps create the buildings that house our scientific programs, allows us to attract and retain our stellar researchers and ensures that we have the necessary equipment and supplies for our work to progress. Our donors often provide seed money for new ventures that develop into fundable research projects, create scholarships for our medical students and support our programs in global health.

Mrs. Muriel L. Block has now become the most amazing philanthropic partner that Einstein has known, and we were so fortunate to have such a dear, loyal and generous friend. Her gift will be transformative, and our gratitude is tempered only by the sadness that she isn't here to witness the fruits of the research supported by her gift.

And speaking of partners, I have the pleasure of partnering with our dedicated Board of Overseers and our phenomenal Dean Allen M. Spiegel, M.D., who has propelled Einstein to a truly new level of greatness since his arrival in 2006.

My thanks to our supporters, our faculty and administrators, and our students and alumni for the important roles they all play in this wonderful medical school.

*Ruth L. Gottesman*

Ruth L. Gottesman, Ed.D.  
Chair, Einstein Board of Overseers

# Philanthropy: Historic Bequest





## Muriel L. Block Bequeaths Largest Gift in Einstein History

*Inspired by her belief in the potential of translational medicine to heal the world, a leading supporter leaves a remarkable gift and an indelible legacy*

Einstein recently received a sum in excess of \$150 million to be used for medical research, in the names of Harold and Muriel Block.

For decades, Muriel L. Block was a passionate supporter of medical research at Albert Einstein College of Medicine. Her name, along with that of her late husband, Harold Block, graces the entrance of Einstein's state-of-the-art research facility, the Michael F. Price Center for Genetic and Translational Medicine/Harold and Muriel Block Research Pavilion, shown at left, which opened in 2008.

Muriel was a cherished member of the Einstein family, frequently attending events sponsored by Einstein's National Women's Division, visiting the school's Jack and Pearl Resnick Campus in the Bronx and meeting with deans and other Einstein administrators, researchers and faculty in New York and Florida, where she wintered.

At the time of her death in September 2010, Muriel was

considered one of Einstein's most generous benefactors, having created an endowed faculty scholar position in mental illness research in 1990 and provided a spectacular gift of nearly \$22 million in 2003 toward the construction of the new research facility—then the second-largest gift the College of Medicine had ever received.

Her support undoubtedly was a major force behind the most recent phase of Einstein's growth and development as a center for cutting-edge medical research.

But the story of Muriel's devotion to Einstein does not end there, because she named Albert Einstein College of Medicine as the remainder beneficiary of her estate. As a result, Einstein recently received a sum in excess of \$150 million to be used for medical research, in the names of Harold and Muriel Block.

# Muriel Block and Einstein: Timeline of an Enduring Partnership

**1970s and 80s** Muriel and her husband, Harold Block, a New York real estate executive and philanthropist, become members of Einstein's Society of Founders. Muriel joins Einstein's National Women's Division, serving on its national board and New York chapter executive board. After Harold's death in 1987, Muriel remains active with Einstein.

**1990** Muriel makes her first major gift to Einstein, establishing the Muriel and Harold Block Faculty Scholar in Mental Illness. To recognize her generosity, the College of Medicine holds a special reception in Muriel's honor on June 13.

**2003** Muriel's gift to Einstein of nearly \$22 million helps advance biomedical research through the construction of the Michael F. Price Center for Genetic and Translational Medicine/Harold and Muriel Block Research Pavilion. The building, dedicated in 2008, is the largest medical research facility built in the Bronx since the College of Medicine opened in 1955.

**2004** Einstein holds a special dinner in Muriel's honor at the Plaza Hotel on June 13. At its Hanukkah Dinner and Convocation on December 12, Yeshiva University awards Muriel an honorary doctorate in humane letters to recognize her exceptional philanthropic vision and generosity to the College of Medicine.

**2008** The Einstein community turns out to celebrate with Muriel, Einstein Overseer Michael Price and their families and friends at the June 12 dedication of the magnificent research facility named in their honor—home to leading investigators in cancer, diabetes, heart disease and other major areas of biomedical research.

**2012** Einstein receives in excess of \$150 million through Muriel Block's estate, representing the largest single gift in the College of Medicine's or Yeshiva University's history.

1. Muriel L. Block with David W. Preven, M.D., professor of psychiatry and behavioral sciences, at a reception celebrating the establishment of the Muriel and Harold Block Faculty Scholar in Mental Illness, June 13, 1990

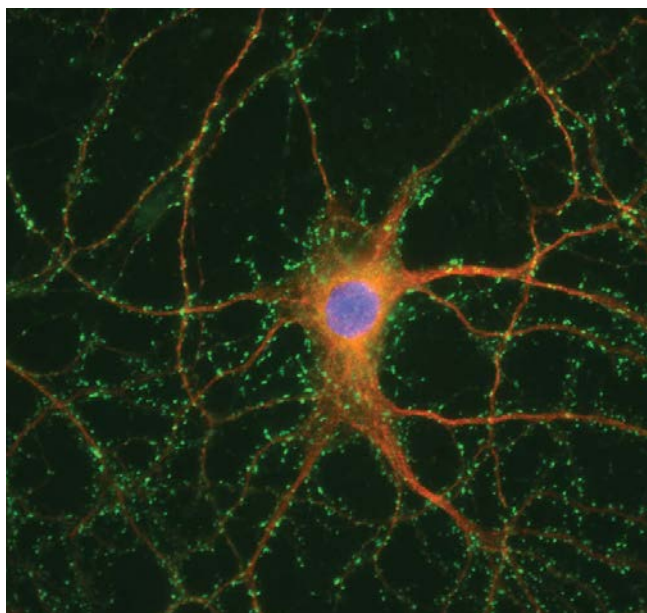
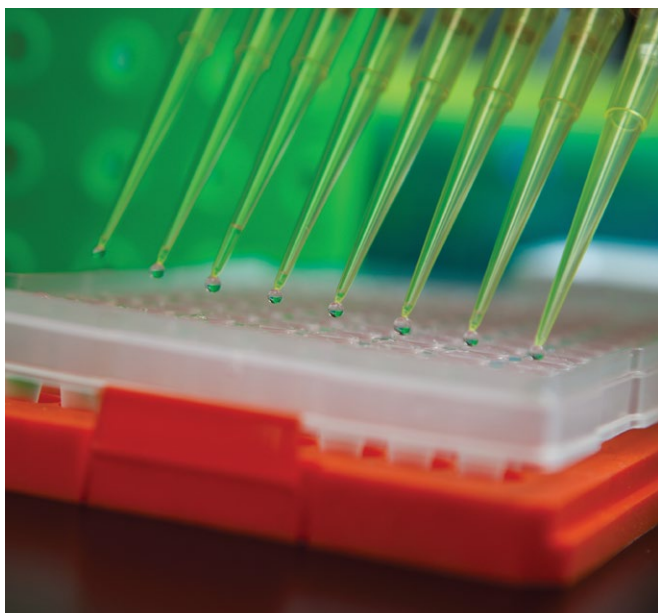
2. Muriel with the late Judy R. Rosenberg, a member of the Einstein Board of Overseers and a longtime leader of the National Women's Division, at the division's 50th Anniversary Celebration, October 30, 2003

3. Muriel with Einstein Overseer Michael F. Price, left, and Chairperson Emeritus Ira M. Millstein, at the groundbreaking for the Michael F. Price Center for Genetic and Translational Medicine/Harold and Muriel Block Research Pavilion, October 13, 2004

4. Allen M. Spiegel, M.D., the Marilyn and Stanley M. Katz Dean, with Muriel at the dedication of the Price Center/Block Research Pavilion, June 12, 2008







An Einstein imaging study showing neurons that display well-defined dendritic branching (orange) and synaptic junctions (green)

"I considered Muriel a friend and partner in my work as dean of Einstein," says Allen M. Spiegel, M.D., Einstein's Marilyn and Stanley M. Katz Dean. "From our many conversations over the years, it was very clear that she derived great personal satisfaction from her ability to make a difference in helping to improve the human condition. She clearly had the vision to do something that would have far-reaching consequences and had great confidence in Einstein as an institution. Her final gesture of extraordinary generosity will have a terrific impact on our work."

Muriel's bequest—the largest gift in the College of Medicine's nearly 60-year history—will greatly augment Einstein's capacity to advance its mission to improve human health. The gift will support important areas of research and has become the centerpiece of Einstein's ambitious \$500 million capital campaign, quietly launched in 2006 and now set to enter a more public phase in April 2013.

As an expression of the Einstein community's gratitude, several entities will be named in honor of Muriel and her late husband, Harold Block, who was a leading New York City real estate executive:

**The Harold and Muriel Block Institute for Brain Research.**

This new interdisciplinary institute will be established to recognize Muriel's avid interest in helping advance research on neuropsychiatric disorders. The institute will focus on basic and applied research on the entire spectrum of neuropsychiatric disorders and will include faculty members from a wide variety of departments.

**The Harold and Muriel Block Building.** In recognition of Muriel's commitment to improving health and quality of life for future generations, the College of Medicine will rename one of its most significant buildings in her honor. Previously known as Abraham Mazer Hall, the

"She clearly had the vision to do something that would have far-reaching consequences and had great confidence in Einstein as an institution."

building was the first dormitory for Einstein medical students; today, it serves as headquarters for a number of important programs.\*

**The Harold and Muriel Block Scholars.** Endowed chairs are reserved for the most senior and significant faculty at Einstein, and a series of chairs known as the Harold and Muriel Block Scholars will be established to support the work of outstanding Einstein faculty members working in a variety of disciplines.

**The Harold and Muriel Block Institute for Clinical and Translational Research (ICTR) at Einstein and Montefiore.** Einstein's NIH-funded ICTR, part of a national consortium intended to reduce the time between discoveries and treatments, and to train the next generation of clinical researchers, will be named in grateful recognition of Harold and Muriel Block.

"It is an honor and a privilege for us to recognize Muriel in these

ways," says Ruth L. Gottesman, Ed.D., chair of Einstein's Board of Overseers. "To have a major research institute, the primary site of our training program for physician-scientists and a group of our most senior researchers all bear the names of Harold and Muriel will be a lasting tribute to her legacy. But the work that will result from her gift will be Muriel's true legacy."

"Muriel was an extraordinary woman," adds Dean Spiegel, "and I believe that extraordinary things will come out of Einstein as a result of her bequest. Not everyone was fortunate enough to meet her during her lifetime, but I think the entire Einstein community—researchers, students, administrators, alumni and other donors—should feel gratified and inspired by this amazing gesture."

*\*One of the residential towers built on Einstein's Jack and Pearl Resnick Campus in the intervening years was recently renamed in honor of Abraham Mazer, thereby preserving the Mazer family's connection to resident life on campus.*

"It is an honor and a privilege for us to recognize Muriel in these ways. But the work that will result from her gift will be Muriel's true legacy."

Sophie Molholm, Ph.D., the Muriel and Harold Block Faculty Scholar in Mental Illness, an associate professor in the department of pediatrics and in the Dominick P. Purpura Department of Neuroscience and associate research director at the Children's Evaluation and Rehabilitation Center





## The Campaign to Transform Einstein

**O**n April 15, 2013, at the Plaza Hotel in Manhattan, Albert Einstein College of Medicine publicly announced its new capital campaign, “The Campaign to Transform Einstein.”

This campaign, the largest in Einstein’s history, has a working goal of \$500 million and will focus philanthropic support on top priorities, including:

- continuing to revitalize the Einstein campus;
- advancing key areas of biomedical research while continuing to recruit and retain the best talent; and
- enhancing education and training for the next generation of physicians and scientists.

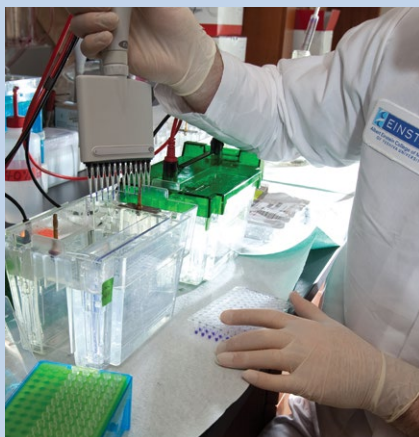
Thanks to hundreds of donors who have already provided leading gifts totaling more than \$400 million,

Einstein has entered a transformative new phase of growth and development.

As always, Einstein is deeply grateful to the friends and supporters whose partnership is critical to the College of Medicine’s continued success in ensuring a healthier future for humankind.

Generosity at this time will allow the College of Medicine to pursue cutting-edge research, prepare the next generation of physicians and researchers, and speed the translation of groundbreaking discoveries from the laboratory to patient care.

By helping Einstein reach and exceed its goal in this campaign, friends and alumni have the opportunity to join Einstein in its mission to transform human health.



### DIABETES

Einstein researchers report that xylitol, a low-calorie sweetener derived from plant and vegetable fibers, can help prevent metabolic complications associated with obesity and type 2 diabetes. The investigators found that xylitol helps ward off the insulin resistance (the body's inability to respond to insulin) that accompanies diabetes. The findings suggest that xylitol might aid in treating type 2 diabetes.

### CANCER

The hormones estradiol and progesterone prepare the uterus for pregnancy. But sometimes uterine cells proliferate abnormally, leading to menstrual irregularities, endometrial

polyps, endometriosis or endometrial cancer. Einstein researchers discovered a molecule (KLF15) that controls the actions of estradiol and progesterone in the endometrium. The discovery suggests a new approach for preventing and treating estrogen-fueled diseases, including breast cancer.

In the largest cancer study of firefighters ever conducted, Einstein scientists found that firefighters exposed to the 9/11 World Trade Center disaster site had a significantly greater possibility of developing cancer compared with other New York City firefighters who were not exposed. The researchers will continue to follow the group to see if specific cancers emerge as more common.

### HEART DISEASE

Many heavyset people who show no signs of high blood pressure, high cholesterol or diabetes may not be so healthy as they seem. When Einstein researchers analyzed data from the Women's Health Initiative Observational Study, they found that overweight and obese women often have elevated markers of inflammation (such as C-reactive

protein) in their blood. People with elevated levels of these markers are at increased risk for heart disease.

### AGING

"It's in their genes" is a common explanation for why some people live to age 100 and beyond. Until now, researchers looking for these "longevity genes" have focused on physiologically advantageous genetic variations, such as high levels of HDL ("good") cholesterol. But Einstein scientists have found that positive personality traits such as being outgoing, optimistic and easygoing may also be part of the longevity-genes mix. Nongenetic factors such as family upbringing and birth order can also influence personality.





## MALARIA

An agent developed by Einstein researchers has proved effective at clearing infections caused by malaria parasites—by starving them to death. One of the world’s leading killers, malaria is a mosquito-borne disease caused by the single-celled organism *Plasmodium falciparum*. The Einstein researchers exploited *P. falciparum*’s Achilles’ heel: it can’t synthesize purines, vital building blocks of DNA. Instead, the parasite makes purines indirectly by using an enzyme. The Einstein scientists were able to inhibit this enzyme with a drug they designed. Deprived of purines, the parasites died.

## BRAIN INJURY

Using advanced MRI-based imaging techniques, researchers at Einstein and Montefiore, the University Hospital and academic medical center for Einstein, have shown that repeatedly heading a soccer ball increases the risk for brain injury and cognitive impairment. Amateur soccer players (average age 31) who had played the sport since childhood were asked to recall the number of times they headed the ball during the past year. Frequent “headers” had brain injuries



similar to those seen in concussion patients. The findings are of special concern since soccer is the world’s most popular sport and is growing in popularity in the United States, especially among children.

## HIV

An Einstein study may explain why so many people with HIV experience memory loss and other cognitive problems despite undergoing potent antiretroviral therapy. Even though HIV infects only about 5 percent of the brain cells known as astrocytes, the researchers found that even this low level of astrocyte infection can profoundly damage the blood-brain barrier—weakening it and allowing harmful compounds

to enter the brain. The evidence came from a laboratory model of the blood-brain barrier made of human cells and from examining brain tissue from macaque monkeys infected with the simian form of HIV.

## EBOLA VIRUS

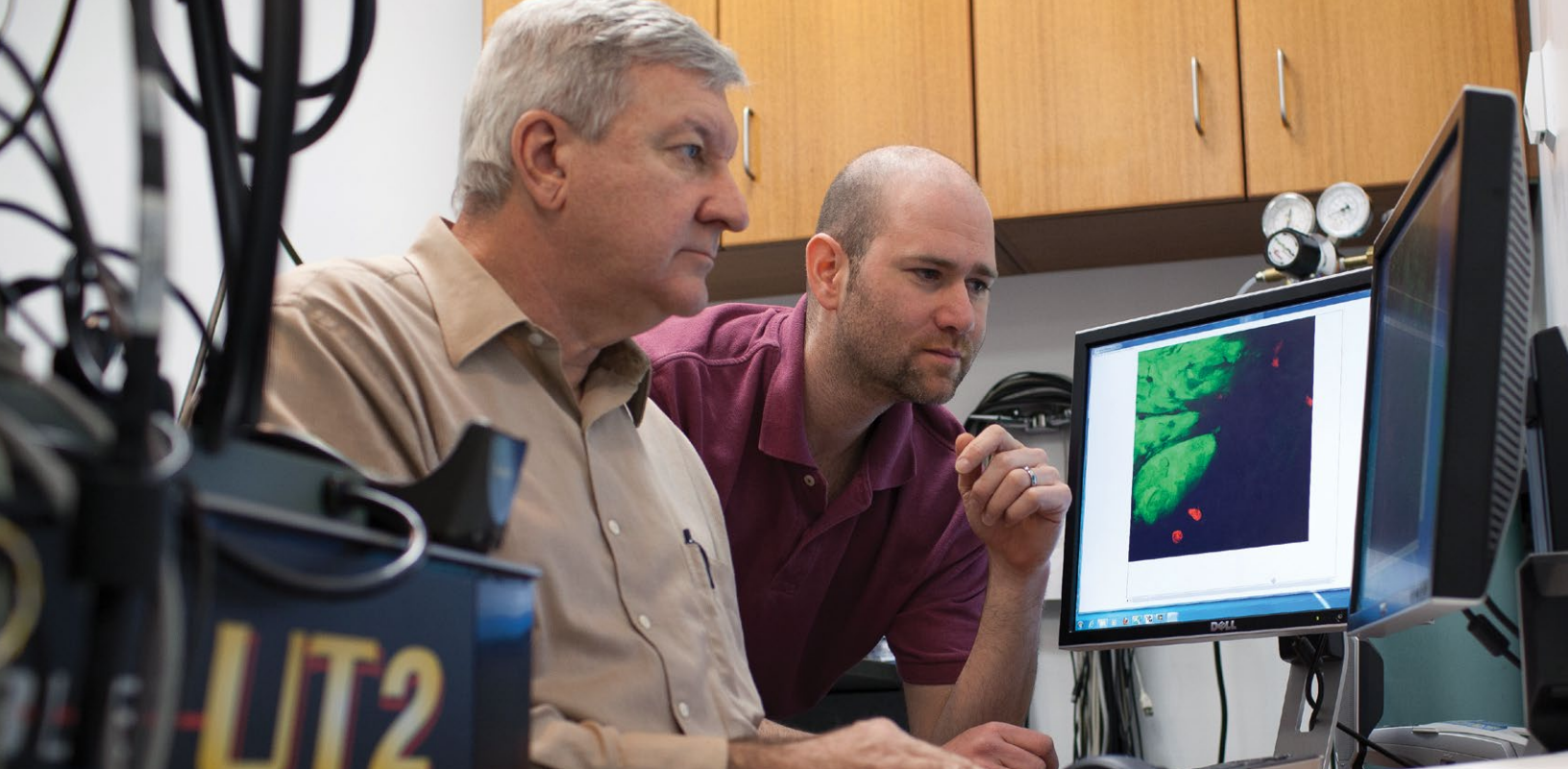
Einstein researchers have identified the “key” that the deadly Ebola virus uses to enter and infect cells: It’s a protein called NPC1. When present in mutated form, NPC1 causes Niemann-Pick disease. Cells with mutated NPC1 appear to be resistant to Ebola infection. The findings suggest a possible strategy for blocking infection due to Ebola, one of the world’s most lethal viruses and a potential bioterrorism agent.

## VITAMIN D DEFICIENCY

People taking oral steroids are twice as likely as the general population to have severe vitamin D deficiencies, according to a study of more than 31,000 children and adults. The results of the study suggest that physicians should more diligently monitor vitamin D levels in patients being treated with oral steroids. Patients most likely to use steroids have chronic pulmonary, rheumatic and kidney diseases.

# Research & Discovery





John S. Condeelis, Ph.D., with David R. Entenberg, M.Sc., senior associate in the department of anatomy and structural biology

“The EGL Charitable Foundation’s investment places Einstein among a select group of institutions that offer research scientists and clinicians the tools to bring about significant medical advances.”

## Multimodal Imaging: Speeding Results from Bench to Bedside

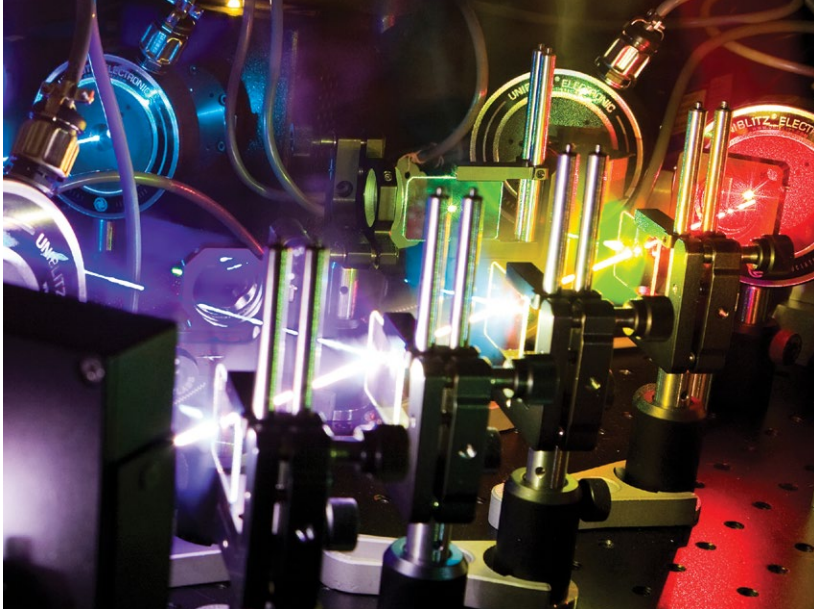
When Einstein released its updated Strategic Research Plan in 2010, an integrated imaging program was a top priority. It became reality this past year thanks to a major commitment from the EGL Charitable Foundation (EGLCF), brought about through the vision and generosity of Einstein Honorary Overseer Evelyn Gruss Lipper, M.D. ’71.

The new program, to be known as the EGLCF Integrated Imaging Program (IIP), will allow Einstein research teams to conduct their work with much more scientific precision by using multimodal imaging. This cutting-edge methodology combines the advantages of Einstein’s several different imaging technologies to illuminate tissue pathology across a tremendously wide imaging spectrum—from micrometers all the way to millimeters. The information that comes from integrating these multiple imaging modalities will show how complex diseases begin

and progress in the body—and will help scientists target cancer, diabetes, Alzheimer’s and other major health problems.

“Integrated imaging research is collaborative work by nature, and Einstein’s highly collaborative research environment makes it an ideal setting for such a program,” notes Robert H. Singer, Ph.D., professor and co-chair of anatomy and structural biology, professor in the department of cell biology and in the Dominick P. Purpura Department of Neuroscience and co-director of the Gruss Lipper Biophotonics Center (GLBC).

Dr. Singer serves as co-director of the new program along with John S. Condeelis, Ph.D., professor and co-chair of anatomy and structural biology, the Judith and Burton P. Resnick Chair in Translational Research, scientific director of the analytical imaging facility and co-director of the GLBC, and Craig A. Branch, Ph.D., associate professor of radiol-



Using laser technology in Einstein's advanced imaging systems

ogy and of physiology & biophysics and director of the Gruss Magnetic Resonance Research Center.

A test project already under way joins magnetic resonance imaging (MRI) with multiphoton imaging. "Consider a woman who presents with a breast tumor," says Dr. Condeelis, who is one of the project leaders. "Right now, using MRI in the conventional way, you can see a tumor but you don't know whether it's aggressive or nonaggressive."

Images produced by the new methodology, says Dr. Condeelis, will allow clinicians to offer aggressive therapy to women whose breast tumors require it, while sparing other women from such therapies and their harsh side effects. Dr. Branch is his co-leader on the project.

Another exciting possibility is for oncologists to use integrated imaging methodology to determine whether patients' tumors will be responsive or resistant to chemotherapy before starting therapy. This will allow for potentially lifesaving

changes in treatment strategies.

There is every reason to expect that integrated imaging will thrive at Einstein and lead to important discoveries. "A major push is under way in both the United States and Europe to develop integrated imaging programs," says Dr. Condeelis. In this country, he notes, "a few sites are already using integrated imaging but with more limited scope than what is possible at Einstein, where we have all of the imaging modalities in place."

"We are extremely grateful to the EGL Charitable Foundation for helping us create this vital resource at the College of Medicine," says Allen M. Spiegel, M.D., Einstein's Marilyn and Stanley M. Katz Dean. "The family's support has enabled Einstein to emerge as a leader in imaging research, and this latest investment places us among a select group of institutions that offer research scientists and clinicians the tools to bring about significant medical advances."

## Estate of Ruth Brandes

Einstein received more than \$715,000 from the estate of Ruth Brandes. Ms. Brandes visited the Einstein campus several years before her death in 2011. In keeping with her wishes, \$500,000 of her generous bequest has been directed toward cancer research at the College of Medicine. The remaining funds are being used to help support graduate students in Einstein's Medical Scientist Training Program working in the laboratories of mentors who are members of the Albert Einstein Cancer Center.

## The Berger Trusts

The College of Medicine received an additional distribution of \$417,974 this year from the trusts established by the late Max and Jean Berger. These funds were added to a nearly \$3.8 million bequest previously made by the Bergers to Einstein for research related to the human eye. A portion of these gifts was used to establish the Max Berger Chair in Ophthalmology, currently held by Ales Cvekl, Ph.D., professor and vice chair for research in ophthalmology and visual sciences and professor of genetics.





## Diane Belfer and Family Endow New Faculty Scholar in Diabetes Research

**E**instein Overseer and Benefactor Diane Belfer; her children, Sheryl and Kenneth Endelson; and Kathi and Gary Cypres (through the Belfer, Endelson & Cypres Family Philanthropic Fund) have established a new endowed academic position at Einstein. Teresa P. DiLorenzo, Ph.D., has been named the first Diane Belfer, Cypres & Endelson Families Faculty Scholar in Diabetes Research at the College of Medicine.

Dr. DiLorenzo, a professor of microbiology & immunology and of medicine (endocrinology), is investigating type 1 diabetes, an autoimmune disease caused when immune system T cells destroy insulin-producing beta cells in the pancreas. Her laboratory has identified a protein, IGRP, that juts from the surface of beta cells and that T cells appear to target. The researchers are exploring ways to short-circuit the attraction between T cells and proteins such as IGRP, and to manipulate T cells to make them tolerate such beta-cell proteins

rather than attack them. These strategies may lead to therapies that halt the progression of early diabetes or prevent the disease entirely.

“Diane Belfer’s thoughtful and vibrant approach to philanthropy is reflected in the gifts she has made to Einstein over the years. This latest investment is very important. It will

**“It’s gratifying to know that my children and I can help provide Einstein’s talented researchers with resources they need to conquer this terrible disease.”**

help advance the efforts of our most promising investigators to find better ways to treat and prevent type 1 diabetes and related conditions,” says Dean Allen M. Spiegel, M.D., a noted endocrinologist and former director of the National Institute of Diabetes and Digestive and Kidney Diseases.

“It’s gratifying to know that my children and I can help provide Einstein’s talented researchers with resources they need to conquer this terrible disease,” says Mrs. Belfer, who in addition to her role on the Board of Overseers serves on the executive committee of Einstein’s National Women’s Division.

A longtime leading Einstein supporter together with her late husband, Arthur B. Belfer, Mrs. Belfer previously endowed the Diane and Arthur B. Belfer Faculty Scholar in Cancer Research, a position currently held by Ulrich G. Steidl, M.D., Ph.D., assistant professor of cell biology and of medicine (oncology). She also funded a research laboratory in the Michael F. Price Center for Genetic and Translational Medicine/Harold and Muriel Block Research Pavilion.

Above left, Teresa P. DiLorenzo, Ph.D., the first Diane Belfer, Cypres & Endelson Families Faculty Scholar in Diabetes Research

Above right, Einstein Overseer and Benefactor Diane Belfer



## Roger and Carol Einiger Endow Faculty Scholar in Neuroscience Research

Einstein Overseer Roger Einiger and his wife, Carol, have made a generous commitment to establish a new faculty scholar position at Einstein. The endowed position will be bestowed on an outstanding investigator in the area of neuroscience research. It will be named in memory of Mr. Einiger's parents, Glory and Jack Einiger, pictured at right in 1960, who were among the College of Medicine's earliest supporters and members of its Society of Founders. Glory Einiger also played a leading role in Einstein's National Women's Division.

The Einigers' previous gift to Einstein supports the career development of physician-scientists—clinically trained M.D.s who are involved in translational research studies.

The relationship between Roger Einiger and the College of Medicine extends well beyond philanthropy. Inspired by the example set by his parents, he contributes his time, talent and business expertise to advance Einstein's mission.

Elected to the Board of Overseers



It will be named in memory of Mr. Einiger's parents, Glory and Jack Einiger, who were among the College of Medicine's earliest supporters.

in 2005, he served as treasurer from 2007 to 2011 and currently chairs the executive and budget & finance committees. As an ex officio member of every board committee, he attends as many committee meetings as his schedule will permit and collaborates with board chair Ruth L. Gottesman, Ed.D., and Dean Allen M. Spiegel, M.D. He also works

closely with Einstein's budget office and confers with Yeshiva University officials on matters of finance and budget.

Mr. Einiger received an honorary doctor of humane letters degree from Yeshiva University in 2009, in recognition of his dedication and service to Einstein.

"We are extremely grateful for the many ways in which Roger helps advance the vital work of this institution," says Dean Spiegel. "This latest investment will significantly impact the ability of our researchers to succeed in their efforts to further our understanding of Alzheimer's, Parkinson's, autism and related conditions, and lay the groundwork for new treatments."

Top, seated, front, Adriana Mello, research technician; standing, Mia M. Thi, Ph.D., assistant professor of orthopedic surgery and instructor, Dominick P. Purpura Department of Neuroscience; seated, background, Marcella Braga, student trainee, department of pathology





“The number of Einstein investigators and departments requesting statistical support for research activities has grown exponentially over the years.”

Mimi Kim, Sc.D., professor of epidemiology & population health and head of its division of biostatistics

## A Dynamic Division Deals with a Deluge of Data

In 2003, when Mimi Kim, Sc.D., was appointed head of Einstein’s division of biostatistics, it had three statisticians. Now there are 18, scattered across three Einstein buildings and at Montefiore. By mid-2013, her staff will occupy newly renovated offices on the third floor of the Harold and Muriel Block (formerly Mazer) Building. We talked to Dr. Kim about the role of biostatistics at Einstein.

**Q:** Would it be accurate to call biostatistics a “growth industry” here?

**A:** Yes, my division is busy and growing. Over the past year, we hired our third statistical geneticist, as well as a statistician with imaging expertise.

**Q:** What accounts for that growth?

**A:** It reflects the increasing demand for statistical expertise in biomedical research. The number of Einstein investigators and departments requesting statistical support for research activities has grown exponentially over the years. The demand for statistical support is especially great for grant applications because

applying for funds from the National Institutes of Health is becoming increasingly competitive. So it’s critical that research proposals be properly designed and methodologically rigorous. Applicants must also show that they have the expertise to properly analyze and interpret their data.

**Q:** How is biomedical research contributing to your workload?

**A:** Medicine in general is becoming more evidence-based and data-driven. Also, the newer biomedical technologies are generating enormous amounts of data, and we need to create sophisticated models to analyze and make sense of it all. By technologies, I especially mean those used in “omics” fields such as genomics and epigenomics.

**Q:** Which departments and centers receive the most help from you?

**A:** Biostatistics is a key shared resource, or core, of three large federally funded centers: the Einstein-Montefiore Center for AIDS Research, the Einstein Cancer Center

and the Harold and Muriel Block Institute for Clinical and Translational Research (ICTR) at Einstein and Montefiore. To focus just on the ICTR, biostatistics is the most heavily used core in the whole institute, providing support for well over 200 clinical and translational research projects each year—which helps explain why substantial numbers of statisticians are needed here at Einstein.

**Q:** You’ll also be heading the new Center for Quantitative Sciences in Biomedical Research. What is your vision for the center?

**A:** I hope that the center will foster methodological research and collaborations among Einstein scientists in different quantitative fields such as biostatistics, bioinformatics, systems biology and computational genetics.

**Q:** Are you excited about the prospect of moving into the Harold and Muriel Block Building?

**A:** Very much so. We’ll still be close to other Einstein investigators. And it’s nice to be near the cafeteria!



## Robert and Renée Belfer Endow Chair in Neurodegenerative Disease Research

Einstein Overseers Robert A. Belfer and Renée E. Belfer made a generous commitment to establish the Robert and Renée Belfer Chair for the Study of Neurodegenerative Diseases at the College of Medicine.

Ana Maria Cuervo, M.D., Ph.D., professor of developmental and molecular biology, of anatomy and structural biology and of medicine, is the first chair holder. An expert on aging, she directs the Cellular and Tissue Aging Core at Einstein’s National Institutes of Health–designated Nathan Shock Center of Excellence in the Basic Biology of Aging.

Dr. Cuervo studies the role of faulty autophagy (a recycling process in which cells break down damaged structures to obtain energy) in the aging process and in age-related disorders. Her work may lead to new treatments for Alzheimer’s and Parkinson’s diseases.

Longtime leading Einstein Benefactors, the Belfers previously established the Renée E. and Robert

A. Belfer Chair in Developmental Biology and supported research on cancer and on genetic and translational medicine.

Mr. Belfer is chair emeritus of the Einstein Board of Overseers, on which he has served for 40 years. In recognition of his dedicated service to the College of Medicine, Yeshiva University awarded him an honorary doctorate in humane letters in 1986. Mrs. Belfer was elected to the Einstein Board in 1995. She serves as a vice president of Einstein’s National Women’s Division and on the executive committee of its New York chapter.

“As our population gets older, the incidence of neurodegenerative diseases associated with aging is rapidly growing, yet research is severely underfunded by the federal government,” notes Mr. Belfer. “Aside from its humanitarian benefits, I view research targeting these illnesses as part of the solution to managing the runaway costs of national healthcare.”



Above, Einstein Overseers Renée E. Belfer and Robert A. Belfer

Top, Ana Maria Cuervo, M.D., Ph.D., the Robert and Renée Belfer Chair for the Study of Neurodegenerative Diseases

“As our population gets older, the incidence of neurodegenerative diseases associated with aging is rapidly growing, yet research is severely underfunded.”

## Strengthening Einstein's Efforts in Human Immunology

Arturo Casadevall, M.D., Ph.D., already wears many hats at Einstein, and he's about to don another.

Dr. Casadevall is professor and chair of the department of microbiology & immunology, professor of medicine (infectious diseases) and the Leo and Julia Forchheimer Chair in Microbiology and Immunology at Einstein, and attending physician in medicine (infectious disease) at Montefiore, the University Hospital and academic medical center for Einstein. He'll take on an additional leadership role as director of Einstein's soon-to-be-created Center for Immunological Sciences.

A key goal of the new center is to enhance understanding of basic immunology and to translate that knowledge into treatments for immune disorders. "Immunology is central to almost all human diseases," says Dr. Casadevall. "In fact, you could say that most human diseases occur because there is either too much or too little inflammation—and immune responses are largely responsible for inflammation."

Right now, he notes, "immunologists at Einstein are spread over many departments. Because of immunology's central role in human diseases, we're very interested in forming a more cohesive group. This new center will help coordinate our research efforts in immunology and make them much more fruitful."

As the center's director, Dr. Casadevall will recruit new faculty who specialize in human immunology, vaccine development and the human microbiome (the estimated 100 trillion microbes that live on and in humans and influence health and disease). "Once we beef up our presence in human immunology," he says, "we can form research partnerships with scientists in other areas at Einstein such as genomics and diabetes—which is increasingly viewed as an immunological disease."

Since joining Einstein as a postdoctoral fellow in 1989, Dr. Casadevall has distinguished himself as an infectious-disease researcher, mentor and lecturer:

- He is a nationally recognized expert on disease-causing fungi, focusing on *Cryptococcus neoformans*, a pathogen that can cause fatal infections in people with weakened immune systems.
- He is known for mentoring under-represented minorities in his lab and recently recruited five outstanding junior investigators who have obtained NIH funding.
- He co-chairs the Board of Scientific Counselors of the National Institute of Allergy and Infectious Diseases and is a member of the National Science Advisory Board for Biosecurity.
- He has taken a leading role in calling attention to serious problems with how science is practiced. In fact—donning yet one more hat—Dr. Casadevall will soon help create a Center for the Advancement of Science at Einstein, which will use rigorous methods to develop better ways to train scientists and improve their productivity.

"You could say that most human diseases occur because there is either too much or too little inflammation."



Dr. Casadevall and Ph.D. candidate Lisa Brown



## Nathan and Alice Gantcher Support Learning Disabilities Research

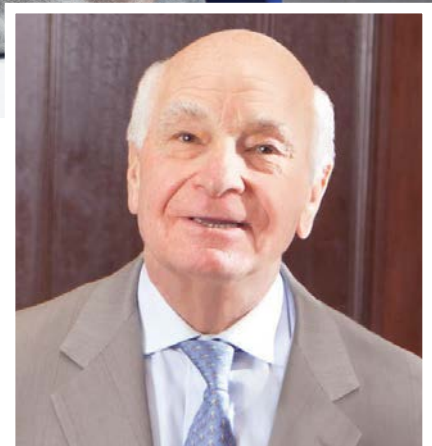
“My wife, Alice, and I have a grandchild with dyslexia. Like most children with the condition, she is very smart but has difficulty with reading,” says Einstein Overseer Nathan Gantcher. “When we learned about the great work being done at Einstein in this area, we decided to help support it.”

Thanks to the Gantchers, the Gantcher Family Foundation made a generous commitment to establish the Gantcher Family Fund for Research on Learning Disabilities at Einstein. The foundation’s support will help advance the collaborative research of John J. Foxe, Ph.D. ‘99, professor in the department of pediatrics and in the Dominick P. Purpura Department of Neuroscience and research director at the Children’s Evaluation and Rehabilitation Center (CERC), and Sophie Molholm, Ph.D., associate professor of pediatrics and of neuroscience, the Muriel and Harold Block Faculty Scholar in Mental Illness and associate research director at CERC.

Drs. Foxe and Molholm are using MRI technology to study the brains of infants, toddlers, adolescents and adults who have dyslexia or are predisposed to it. Their efforts to find the biological mechanisms involved in dyslexia may lead to innovative treatments.

Mr. Gantcher, a managing member of EXOP Capital LLC, joined the Einstein Board of Overseers in 2011. He currently serves as the Board’s treasurer and chair of its hospital affiliations committee, and as a liaison to Montefiore Medical Center’s board of overseers. He has been active in many educational and philanthropic causes during the course of his career.

“We are privileged to have Nate and Alice as partners in advancing important neurological research at Einstein, and we’re very grateful for Nate’s distinguished service on our board,” says Allen M. Spiegel, M.D., the Marilyn and Stanley M. Katz Dean.



Above, Einstein Overseer Nathan Gantcher

Top, Juliana Bates, Ph.D., clinical psychologist, Cognitive Neurophysiology Laboratory, with a young client

“When we learned about the great work being done at Einstein in this area, we decided to help support it.”



Dr. Wolkoff, right, and research technician Pi-Jun Wang

“For the first time, there’s a true partnership between the medical school and the medical center in liver disease.”

## Liver Research Center Gets New Director

The doctor chosen as just the third director in the history of the 38-year-old Marion Bessin Liver Research Center is well known around Einstein: Allan W. Wolkoff, M.D. '72, professor of medicine and of anatomy and structural biology.

Dr. Wolkoff's familiarity stems from his many contributions to liver research and his extensive involvement in the Einstein community.

Since joining the faculty in the late 1970s, he has served on almost every academic committee and held a variety of high-profile posts, including director of the Belfer Institute for Advanced Biomedical Studies.

His titles include associate chair for research in the department of medicine, and chief of the division of gastroenterology & liver diseases in the department of medicine at Einstein and Montefiore Medical Center. He has also served as chair of the board of directors of the American Liver Foundation; in 2012 he received its Distinguished Scientific Achievement Award.

Dr. Wolkoff takes the helm of a

center that is already thriving. Under outgoing director David A. Shafritz, M.D., professor of medicine, of cell biology and of pathology and the Herman Lopata Chair in Liver Disease Research, the Bessin center's membership has expanded to include 40 principal researchers from 12 academic departments—helping satisfy the center's original mission of taking an interdisciplinary approach to the study of liver disease. Dr. Shafritz, also an attending physician in medicine (gastroenterology) at Montefiore, will remain at Einstein, concentrating on his own research.

Over the last few years, Dr. Wolkoff has established ties with clinical liver specialists and liver transplant surgeons at Montefiore, spurring new translational efforts. “For the first time, there’s a true partnership between the medical school and the medical center in liver disease,” says Dr. Wolkoff. “This has been an extremely productive endeavor, and I intend to continue breaking down any remaining barriers between the two institutions.”

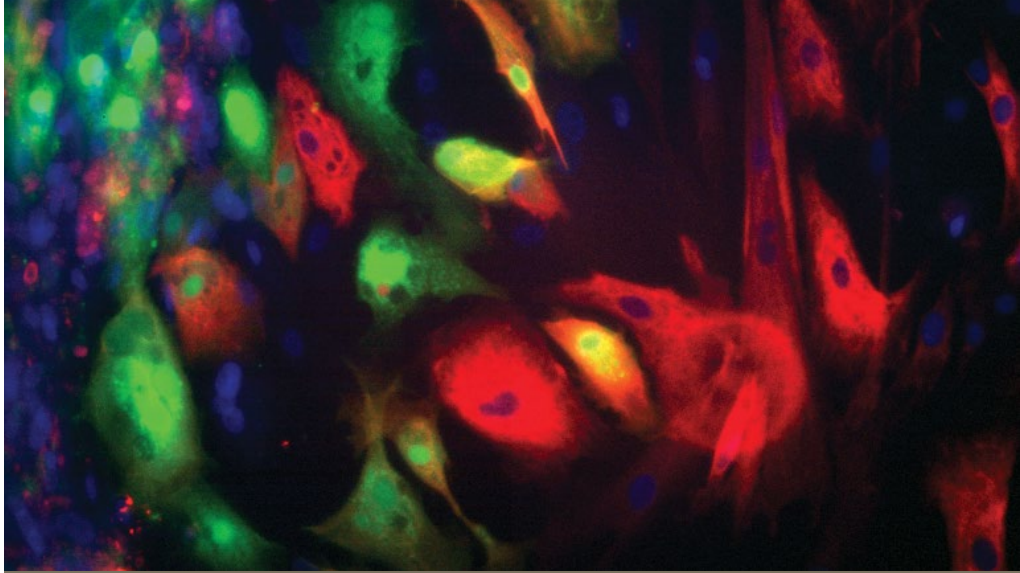


Among the innovations to emerge from the evolving Einstein-Montefiore partnership is a biorepository for tissue samples from liver-disease patients. The repository offers a wealth of specimens for studies of liver cancer, hepatitis C and other liver diseases.

In another collaborative project, Einstein and Montefiore researchers are searching for a blood biomarker for early detection of liver cancer—the fastest-growing form of cancer in the United States. “We have effective treatments for liver cancer, but only if it’s picked up early,” says Dr. Wolkoff. “If detected late, it’s generally a death sentence. Right now, the only way to make sure we catch this cancer soon enough is with frequent imaging studies of at-risk patients, which can be difficult for them, not to mention costly.”

An additional joint effort is the search for genes that make people susceptible to fatty liver disease (FLD), a disorder associated with obesity. For reasons not fully understood, many patients with FLD develop cirrhosis, liver failure or liver cancer—complications particularly common among Hispanics, suggesting that a genetic component drives the more severe forms of the disease.

Other Einstein and Montefiore scientists are investigating whether the liver cells of hepatitis C patients with and without liver cancer have different “epigenetic” changes to their genes. These gene alterations are not mutations but instead involve molecules that contribute to the development of liver cancer by attaching to and silencing certain genes. The goal here is to find patterns of epigenetic changes that may help predict which hepatitis C patients will develop cancer, so that they can receive early, lifesaving treatment.



## SERENDIPITY AND SUCCESS

For someone who claims that “planning has not figured largely in my life,” Dr. Wolkoff has come far.

He majored in abstract math in college until realizing that there “wasn’t much opportunity to work in the nth dimension,” as he puts it. So he turned to medicine, studying first at Dartmouth (which at the time offered only the first two years of medical school) and then at Einstein, from which he received his M.D. degree in 1972.

Dr. Wolkoff expressed interest in research while at Einstein and was referred to Irwin Arias, M.D., the renowned hepatologist who would soon become the founding director of the Bessin center.

“I had no idea who he was,” Dr. Wolkoff admits. “If I’d had my druthers, I would probably have ended up in endocrinology.” But it proved to be a good match. Dr. Wolkoff’s very first paper, co-authored with Dr. Arias, was the lead article (on Dubin-Johnson syndrome) in the January 18, 1973, issue of the *New England Journal of Medicine*.

Dr. Wolkoff went on to a residency in medicine at Bronx Municipal Hospital (now Jacobi Medical Center) and returned to Einstein as an assistant professor at the tender age of 28. Math

lovers will be pleased to know that Dr. Wolkoff’s skill with numbers has not gone to waste. Early on, he served on the Scientific Computer Committee at Einstein, and—long before computers were ubiquitous in biomedical research—he wrote software programs for cancer researchers while on sabbatical.

“If I’d stuck with it, I could probably have been one of those computer billionaires funding medical schools instead of working for one,” he says with a laugh.

During his time at Einstein, Dr. Wolkoff has studied liver cell membrane proteins, investigating how liver cells transport drugs and other molecules across their membranes and throughout the cells.

The steady rise in patients with liver disease poses a challenge to Dr. Wolkoff and his Bessin center colleagues. But he is optimistic, pointing to steady progress against hepatitis C.

“When I first started in this field, we had no test for the virus and essentially no treatment,” he says. “Now, we have a blood test for the infection and new drug treatments that can achieve cure rates of up to 80 percent. And there are many new drugs on the horizon. It’s an exciting time in hepatology.”

# Renovation & Recruitment





Recently renovated space in the Van Etten Building houses the Cognitive Neurophysiology Laboratory, a component of CERC

Significant progress has occurred since we described Einstein renovations in last year's annual report.

## Renovations Update

Since the arrival of Dean Spiegel in 2006, Einstein's Jack and Pearl Resnick Campus has been abuzz with the sounds of construction.

The Michael F. Price Center for Genetic and Translational Medicine/Harold and Muriel Block Research Pavilion was completed in 2008, and major improvements are occurring in several older buildings, including Van Etten, Chanin, Ullmann and the Harold and Muriel Block Building (formerly known as Abraham Mazer Hall). These extensive renovations are in accord with the vision set forth in Einstein's first-ever Campus Master Plan, which Dean Spiegel presented to the Einstein Board of Overseers in 2008.

One of the key goals for the next phase of the Campus Master Plan is the renovation of the Van Etten Building. In 2009, the College of Medicine leased Van Etten from Jacobi/Bronx Municipal Medical Center for 99 years. Einstein soon began transforming this huge (approximately 350,000-square-foot)

former tuberculosis sanatorium—an effort that will continue for another several years, as additional funding is raised and decisions are made regarding occupancy. But already, Van Etten is welcoming clinical, educational and computational facilities that were previously housed in other buildings—and, in the process, freeing up space in those locations for vitally needed research labs.

Significant progress has occurred since we described Einstein renovations in last year's annual report. Here are the construction highlights for Van Etten and several other buildings.

### The Van Etten Building

The first phase of consolidating Einstein's Children's Evaluation and Rehabilitation Center (CERC) on Van Etten's first and second floors is now complete. CERC's large patient load had forced it to expand to four sites around campus, inconveniencing patients and staffers alike. Now, several components of CERC are housed together in Van Etten, with



Data center in Van Etten

### Jonas Ehrlich Charitable Foundation Inc.

The Jonas Ehrlich Charitable Foundation Inc., a longtime supporter of Einstein research targeting childhood diseases, committed \$165,000 toward a research study, “Genome Profiling of Autism and Developmental Disorders.” The investigators aim to identify the genetic origins of autism and other neurodevelopmental disorders and help lay the groundwork for more effective ways to treat and prevent these conditions. The research team includes Robert W. Marion, M.D. '79, director of Einstein's Children's Evaluation and Rehabilitation Center and chief of the divisions of genetics and developmental medicine, department of pediatrics, The Children's Hospital at Montefiore; John J. Foxe, Ph.D. '99, research director; Sophie Molholm, Ph.D., associate research director; and John M. Greally, M.B., B.Ch., Ph.D., director of Einstein's Center for Epigenomics.

the remainder scheduled to arrive in the near future. Generous support from Einstein Overseers Michael F. Price, Daniel R. Tishman, Nathan Kahn and Arnold Penner, as well as a \$5 million commitment from an anonymous donor and funding from public sources, allowed Einstein to meet phase one's construction costs.

Phases two and three of the CERC consolidation will begin when the New York City Economic Development Corporation releases \$3 million it has already allocated for CERC's relocation and renovation. In addition, a generous new commitment from Honorary Overseer Emily Fisher Landau will allow the Fisher Landau Center for the Treatment of Learning Disabilities to move from its current location in the Louis E. and Dora Rousso Building to newly renovated space on Van Etten's second floor.

The “C” wings of floors three through seven in Van Etten are being transformed into research facilities. The Einstein Aging Center, now based in Rousso, will be relocated to

Van Etten's third-floor C wing. On the sixth floor, renovations will be carried out to create 15,000 square feet of wet-lab space for researchers to be recruited by Judy Aschner, M.D., the new chair of pediatrics at Einstein and Montefiore Medical Center. Exemplifying the growing partnership between the two institutions, Montefiore is supporting this wet-lab renovation project.

Elsewhere in Van Etten, adjacent to the Gottesman Clinical Skills Center on the second floor, a simulation center—a joint Einstein-Montefiore project—will allow students to practice their skills on mannequins (see page 33).

On the ground floor of Van Etten, newly created research space is being readied for computational scientists being recruited by John Greally, M.B., B.Ch., Ph.D., professor of genetics, of medicine (hematology) and of pediatrics, the Faculty Scholar for Epigenomics and an attending physician in pediatrics at The Children's Hospital at Montefiore, and by Aviv Bergman, Ph.D., professor and chair



Architectural rendering of the link connecting Van Etten and the Price Center/Block Research Pavilion

of the department of systems & computational biology and professor of pathology and neuroscience.

A basement data center in Van Etten supporting the research of Drs. Greally and Bergman has also been completed. The data center's celebrity occupant is the super-computer nicknamed "Leo" (after the noted physicist Leo Szilard, a close friend and colleague of Albert Einstein). Leo provides the Greally and Bergman labs—and others on the campus as well—with four terabytes (four trillion bytes) of shareable random-access memory for computation as well as new capabilities for graphic processing of information.

In the future, the "Van Etten link"—a glass-enclosed, climate-controlled walkway—will connect Van Etten's ground floor with the first floor of the Price Center/Block Research Pavilion (see artist's conception above).

### The Kennedy Building

Thanks to support from the Block funds (see article on page 5), reno-

vements will be carried out on the second, third and ninth floors of the Kennedy Building to create 15,000 square feet of research space for neuroscience recruits. The recruits will be hired by the new chair of Einstein's department of neuroscience (see search announcement on page 31), who will also head the new Block Institute for Brain Research.

### The Harold and Muriel Block Building

The Harold and Muriel Block Building—originally built as the first student dormitory at Einstein—is also receiving a radical facelift. Half the third floor will be renovated to create a suite for Mimi Kim, Sc.D., professor of epidemiology & population health and director of the department's division of biostatistics. Dr. Kim and her 18 statisticians are now spread across three different Einstein buildings and Montefiore. The large new space will allow Dr. Kim to consolidate her statistics team and recruit new members. Work should be completed by the

## Support for Einstein's Global Diabetes Initiative

An anonymous donor made a generous commitment to support Einstein's Global Diabetes Initiative (GDI), which is directed by Meredith A. Hawkins, M.D., professor of medicine (endocrinology) and attending physician in the department of medicine's division of endocrinology at Montefiore Medical Center. This gift will help advance the ongoing efforts of Dr. Hawkins and colleagues to shed light on the causes of diabetes and related conditions, develop more effective treatments and train healthcare personnel in India, Africa and other areas of the world in addressing the global diabetes epidemic.

## The Maximilian "Bud" Goode Trust

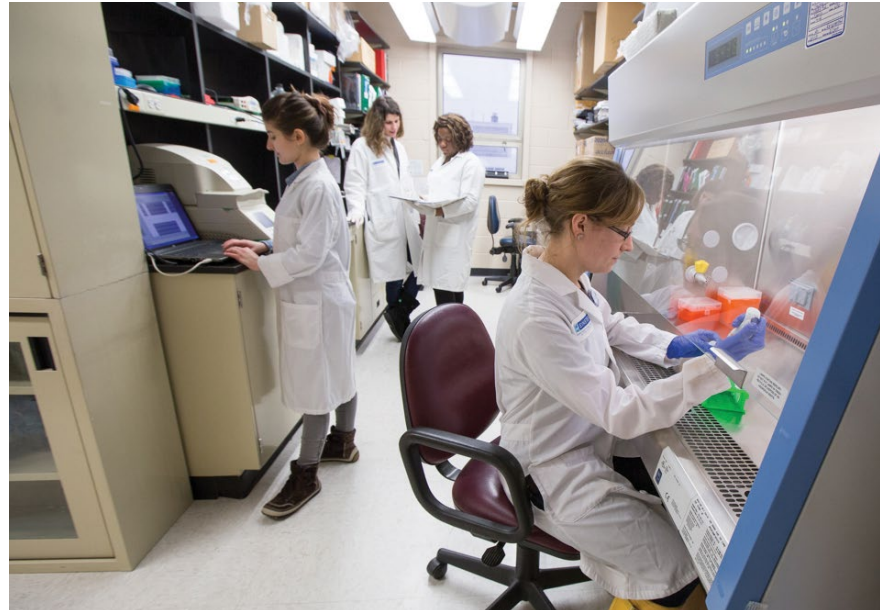
The Maximilian "Bud" Goode Trust made a bequest of \$160,000 in support of stem cell research at Einstein. Bud Goode, a philanthropist and humanitarian, was inspired by the lifesaving potential of stem cell research. Mr. Goode, who died in 2010 at age 97, was an innovator in his own right. After a successful career in show business in the 1950s and '60s (as associate producer of the popular TV shows *You Bet Your Life*, starring Groucho Marx, and *People Are Funny* and *House Party*, both starring Art Linkletter), he went on to pioneer statistical sports analysis and was the first to analyze professional football using the computer.

## F. M. Kirby Foundation

The F. M. Kirby Foundation, a staunch supporter of neurological research at Einstein, continued its commitment with a new grant of \$400,000. The funds will be used to purchase state-of-the-art equipment for the F. M. Kirby Program in Neural Repair and Protection, which the foundation established in 2001. The F. M. Kirby Foundation has provided major support for research in neural repair and protection at the College of Medicine for nearly 15 years, including the establishment of the F. M. Kirby Chair in Neural Repair and Protection. R. Suzanne Zukin, Ph.D., a professor in the Dominick P. Purpura Department of Neuroscience and the director of Einstein's Neuropsychopharmacology Center, is the chair's first occupant.

## Henry Schein, Inc.

Henry Schein, Inc., a worldwide distributor of medical and dental supplies and equipment headquartered in Melville, NY, made a generous donation of state-of-the-art dental equipment to the Special Care Dentistry Unit at Einstein's Children's Evaluation and Rehabilitation Center (CERC). CERC's dentistry program, the only one of its kind in New York City, enables people with severe developmental and behavioral problems to receive the dental care they need. "We are very grateful to Henry Schein, Inc., for this wonderful donation," says Robert W. Marion, M.D., director of CERC. "The new equipment is making an important difference in the ability of our talented dental team to deliver the best possible care to our patients."



end of summer 2013. (See page 18 for more on Dr. Kim and her team.)

Office space on the Block Building's first floor was recently created for Tia Powell, M.D., professor of clinical epidemiology & population health and of clinical psychiatry and behavioral sciences. Dr. Powell is a bioethicist whose specialties include public health disasters and bioethics education; she directs the Montefiore Einstein Center for Bioethics. New research labs on the first floor are also in place, and the first tenant—the recently recruited Wolfgang Tomé, Ph.D., director of medical physics—has arrived. Dr. Tomé's research interests include the biological effects of focused ultrasound and using functional MR imaging to assess how tumors respond to therapy. In addition, the Block Building will house the Block Institute for Clinical and Translational Research.

### The Chanin and Ullmann Buildings

For over a decade, Einstein scientists have been leaders in stem cell research, a top priority of the College of Medicine's Strategic Research Plan. In 2010, Einstein received a \$10 million ARRA (American Recovery and Reinvestment Act, or "stimulus" act)

grant for constructing additional (and urgently needed) stem cell facilities.

The grant triggered a seven-phase construction project, centered in the Irwin S. and Sylvia Chanin Institute for Cancer Research and the Ullmann Research Center for Health Sciences, informally known as the Chanin and Ullmann buildings. Plans call for converting existing wet-bench laboratories in these older buildings into new stem cell research labs, along with updated research support space, that will accommodate 12 principal investigators. (An entire wing on the first floor of the Price Center/Block Research Pavilion is also devoted to stem cell research.)

The stem cell renovations involve the fourth, fifth and sixth floors of Chanin and the fifth, seventh, eighth and ninth floors of Ullmann. Following a design process mandated by the National Institutes of Health, construction began in November 2011. The first five phases have now been completed, along with the installation of two new chiller units in Ullmann that were partially funded by the ARRA grant. The seventh and final phase is scheduled for completion in September 2013.



“Emily Fisher Landau has been a great friend to Einstein. We are so grateful for her steadfast support for our efforts to improve the lives of people with learning difficulties.”



## Fisher Landau Center Finds a New Home in Van Etten

The Fisher Landau Center for the Treatment of Learning Disabilities, a key component of the Children’s Evaluation and Rehabilitation Center, was established at Einstein in 1997 with a major gift from Emily Fisher Landau. Now, thanks to a generous new commitment from Mrs. Fisher Landau, the center will move from its original location in the Louis E. and Dora Rousso Building to more spacious quarters in Van Etten.

Mrs. Fisher Landau, a noted philanthropist and art collector, learned in her 50s that she had dyslexia. She made it her mission to ensure that others have more resources for help than she did. As someone who was diagnosed later in life, Mrs. Fisher Landau felt it was important for the center to focus on adults as well as on children and teens.

Over the years, the Fisher Landau Center has been widely recognized for the excellence of its comprehensive and innovative services. Today the center offers educational, psychological, social, medical and vocational help to learning-disabled people of all ages. Clients are evaluated and receive the academic and social support

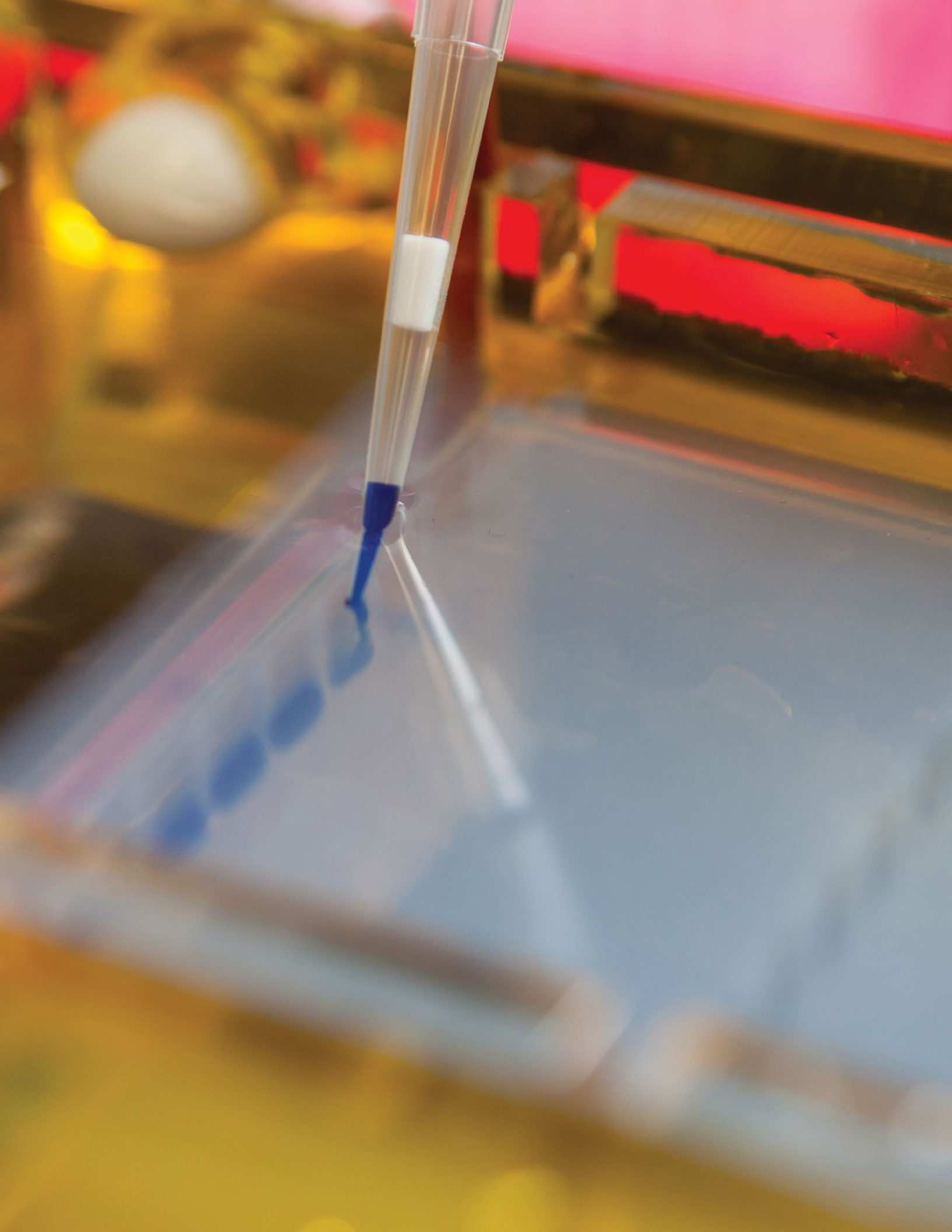
they need to succeed at school or in the workplace.

The Fisher Landau Center’s Adult Literacy Program is the only program in New York City that provides one-on-one help for adults with learning and reading disabilities. It also teaches self-advocacy skills to help adults live independently.

“Emily Fisher Landau has been a great friend to Einstein,” says Ruth L. Gottesman, Ed.D., chair of Einstein’s Board of Overseers, who served as founding director of the Fisher Landau Center. “We are so grateful for her steadfast support for our efforts to improve the lives of people with learning difficulties.”

Mrs. Fisher Landau served on the Einstein Board of Overseers from 1999 to 2009; she now holds the position of Honorary Overseer. A pioneering member of Einstein’s National Women’s Division, she currently serves on its board and on the New York chapter’s executive committee. In recognition of her distinguished service to Einstein, Yeshiva University awarded her an honorary doctorate in humane letters in 1998.

Above, Einstein Honorary Overseer Emily Fisher Landau





## New to Einstein

### Yinghao Wu, Ph.D.

How do cells communicate with one another?

"On the cell's surface are many molecules and receptors," explains Dr. Wu, assistant professor of systems & computational biology. "Imagine another cell with different molecules and receptors coming close. When the orientation is right, the molecules and receptors will dock together, and the result will be a reaction, which will trigger signaling pathways within cells."

Drawing on his background in applied physics, Dr. Wu is probing the molecular mechanisms involved in this cellular "cross-talk." One of his aims is to design specific algorithms that simulate intercellular behavior in a variety of settings, including the immune response and tumor cells invading healthy tissue.

Dr. Wu gets his baseline information about cell behavior from experiments run by other Einstein researchers and then enters the data into his computer for analysis.

As described in *Nature* in 2011, he is also figuring out how to translate the three-dimensional measurements he receives (concentrations expressed as moles per liter, for example) into two-dimensional densities (such as molecules per square millimeter).

Dr. Wu came to Einstein last fall from Columbia University.

### Teresa V. Bowman, Ph.D.

At Einstein, scientists prize zebrafish for more than their handsome stripes.

"Zebrafish are a great model for studying blood development and disease, since fish and humans have many similar genes that underlie conserved-tissue functions," says Dr. Bowman, who will come to Einstein from Harvard Medical School this summer. Adding to their appeal, zebrafish are conveniently small and produce hundreds of progeny a week.

Dr. Bowman studies the influences of genetic background and gene expression on the response of hematopoietic (blood-forming) stem cells to injuries such as those caused by chemotherapy and radiation. "Patients show unpredictable recovery to such injuries, but the underlying cause for the variation is unclear," she says. "Zebrafish show a similar variability, so we're using the model to identify genetic determinants of response."

Dr. Bowman also studies signaling pathways that are activated when hematopoietic stem cells duplicate themselves. She will join Einstein as an assistant professor of developmental and molecular biology and cites "the amazingly collegial and open community of strong scientists at Einstein" among her reasons for coming here.

### Judy Aschner, M.D.

Einstein is pleased to welcome Dr. Judy Aschner, recruited recently from Vanderbilt University School of Medicine in Nashville as professor and University chair of pediatrics beginning in April 2013. Dr. Aschner will also serve as physician-in-chief of The Children's Hospital at Montefiore and oversee the Children's Evaluation and Rehabilitation Center.

In addition, she'll recruit physician-scientists for new laboratories to be built in Van Etten. As for her own research, Dr. Aschner is a principal investigator on a National Heart, Lung and Blood Institute-funded multicenter study of novel biomarkers that predict which extremely preterm infants are at greatest risk for long-term respiratory illness.

### Michael Aschner, Ph.D.

Dr. Michael Aschner is a neurotoxicologist and neurobiologist known for his research on the effect of heavy metals on the brain. Recruited from Vanderbilt University Medical Center, he'll join his wife, Dr. Judy Aschner, at Einstein in the fall of 2013. He will be a professor of molecular pharmacology and of pediatrics. Dr. Aschner researches the neurobiology and physiology of astrocytes (specialized cells of the central nervous system). A principal investigator on multiple NIH research grants, Dr. Aschner also studies the consequences of manganese deposition in the brains of newborns.

*A detailed write-up will appear in the Winter/Spring 2013 issue of Einstein magazine.*

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## Neuroscience Search

The Dominick P. Purpura Department of Neuroscience is seeking a new department chair, who will also head the new Block Institute for Brain Research. The College of Medicine will offer an endowed chair, a \$16 million research endowment, some \$20 million for recruits and approximately 15,000 square feet of new research space.





## An Einstein Education

### M.D. Students: Learning by Doing

Medical school students have traditionally spent their first year in the classroom, attending lectures and receiving cartloads of printed materials. Now, Einstein students take some of the physical exam portion of the Introduction to Clinical Medicine (ICM) course in their first year rather than year two. Students practice on “standardized patients”—actors who portray patients with predetermined symptoms. “We’ll soon have a simulation center where students can practice on mannequins,” says Martha S. Grayson, M.D. ’79, senior associate dean for medical education. The center will be built on the second floor of the Van Etten Building, conveniently adjacent to the Clinical Skills Center.

Then they move on to real patients. “I began interacting with patients during ICM once a week at a methadone clinic,” says Patrice Wout, Class of 2013, a Gold Humanism Honor Society inductee

who plans to enter a psychiatric residency this spring. “Those patients made a lasting impression on me with their strength and resilience, and taught me the importance of a trusting doctor-patient relationship.”

“‘Learning by doing’ is the primary mode of education in the third year, and I love it,” says Desmond Sutton, Class of 2014. Desmond thought he was headed for an internal medicine residency, but after two weeks on labor and delivery at Weiler Hospital, he recognized his calling. “My third week, at the high-risk pregnancy clinic, only made me more certain of going into obstetrics & gynecology, and I’ve started looking into maternal-fetal medicine,” says Desmond, a Rudin Scholar (see sidebar, next page).

### The New Competencies

The abilities that students gain over time through education and experience are receiving new attention at Einstein, thanks to recommendations in “Educating Physicians: A Call for Reform of Medical School

Einstein M.D. student Desmond Sutton with Amy E. Kesselman, M.D., assistant professor of obstetrics & gynecology and women’s health at Einstein and attending physician at Montefiore

“My third week, at the high-risk pregnancy clinic, only made me more certain of going into obstetrics & gynecology, and I’ve started looking into maternal-fetal medicine.”



## The Rudin Family Foundations

The Rudin family, owners of Rudin Management, a major New York City real estate firm, have long been associated with visionary philanthropy in the New York area and beyond. Since 1973, the Louis and Rachel Rudin Foundation and the May and Samuel Rudin Family Foundation have invested in the education and training of Einstein students.

Jack Rudin, chair of the Rudin Family Foundations, was instrumental in establishing the Rudin Scholars Program at the medical school. This past year, the foundations provided scholarships for 14 medical students and two Ph.D. students as well as support for Einstein's Hispanic Center of Excellence and for training programs at Einstein and several of its affiliated teaching hospitals.

This year, the Louis and Rachel Rudin Foundation also helped fund the research of Harry Ostrer, M.D., professor of pathology, of genetics and of pediatrics at Einstein and director of genetic and genomic testing in clinical pathology at Montefiore Medical Center. Dr. Ostrer's laboratory has developed a genetic map of the Jewish diaspora. This new resource can help scientists better understand the genetic factors influencing whether heart disease, cancer, diabetes and other medical conditions will develop among Jewish populations. It represents a step toward making personalized medicine a reality, and improving patient care in the Bronx, throughout New York City and around the world.

and Residency," a 2010 report from the Carnegie Foundation for the Advancement of Teaching. Einstein is shifting its educational emphasis from required courses to "competencies" that address what future physicians need to know. The medical education council at Einstein has approved the following competencies: the physician as healer, scientist, colleague, role model, educator, lifelong learner "and—one I believe is unique to Einstein—physician as advocate," says Dr. Grayson.

Academics, of course, are still alive and well at Einstein. Dr. Grayson has set up additional task forces to plan a new education center in the Leo Forchheimer Medical Science Building and new anatomy teaching facilities in Van Etten. In the fall of 2012, SOAR (Student Opportunities for Academic Research) was introduced as a pilot program to 20 first-year students. "SOAR allows students to engage in rigorous independent scholarship in an area that they're passionate about," says Dr. Grayson.

A major initiative of her office this year has been to videotape/audiotape most lectures so that students can review them at any time.

### Match Day: Proof of Concept

"Our 2012 matches were excellent," says Stephen G. Baum, M.D., senior associate dean for students. Einstein's 165 graduating medical students matched in competitive specialties such as anesthesiology, dermatology, ophthalmology, radiology and orthopedics. As in recent years, the top choice was internal medicine.

Einstein's M.D./Ph.D. program (the Medical Scientist Training Program) graduated 12 students who placed exceptionally well, winning residencies in radiation oncology, orthopedic surgery, ophthalmology and research medicine. The work of Vivek Patel exemplifies how this program combines medicine with science. Vivek, a 2012 Marmor Award winner, studies whether new imaging techniques can identify tumor cells that won't

Einstein M.D./Ph.D. student  
Vivek Patel





Einstein Ph.D. student  
Lauren Regula

respond to radiation. “I look forward to applying insights from our laboratory to better care for my patients in the future,” says Vivek. He’ll receive his M.D. and Ph.D. degrees this spring, then start residency training in radiation oncology.

### Ph.D. Students: Moments of Discovery

Every researcher lives for that special moment. For Lauren Regula, Class of 2013, it arrived during her fifth year in the graduate program.

After many lab projects that didn’t work or produced poor results, Lauren finally succeeded in synthesizing and purifying a short protein, or peptide, that is an important part of the Ebola virus. Then came another challenge: determining its secondary structure (i.e., whether it folds into a helix or other shapes). “After trying several different strategies, my ‘eureka moment’ arrived during my final attempt when secondary structure appeared!” she recalls. “This discovery quickly led to a publishable science article and

propelled me toward the finish line of obtaining my Ph.D. Moments such as these truly motivate scientists to be persistent.”

The “road to eureka” for Lauren and other Ph.D. students begins during their first year, when students rotate through two or three different labs, “declaring” the one that most interests them at year’s end. In year two, students finish their graduate course work and start thesis research.

“You are going to discover something new,” says Victoria H. Freedman, Ph.D. ’77, associate dean for graduate programs in biomedical sciences. “You’ll write your thesis on it. And you’ll explain how you got to that point and where it fits into the universe of things.”

The Ph.D. program now uses team-based learning, which started in the undergrad world, then moved to medical and grad school. “Twenty-first-century science is team science,” says Dr. Freedman. A positive experience for Kendra Bolt, Class of 2014, was a course in which

students, organized into groups, competed to “sell” a compound to “big pharma” (the faculty). “I was skeptical, because group projects usually mean that at least one group member takes a free ride,” she says. “But I was surprised to see how involved my teammates were—and remembered why I like Einstein: It’s a learning environment where people can acknowledge gaps in their knowledge and work to fill them.”

This fall, the Einstein Graduate Division will launch a new curriculum with intensive short courses called “microcourses” to help grad students complete their required coursework and more quickly engage in full-time thesis research—the heart of their doctoral training.



# Board of Overseers



“Those of us who serve on the Board are privileged to help guide the medical school in its ongoing quest to improve the human condition.”

The Board of Overseers of Albert Einstein College of Medicine provides dedicated leadership in advancing Einstein’s mission to transform human health.

Einstein Overseers generously contribute their time, expertise and philanthropic support as they partner with Allen M. Spiegel, M.D., Einstein’s Marilyn and Stanley M. Katz Dean, and his executive team in implementing the College of Medicine’s research and educational goals.

Their commitment is vital to Einstein’s continued growth and development as a leading center for scientific innovation, medical education and clinical care.

“Einstein is a unique institution that embodies the values of its namesake: compassion, creativity and scientific excellence,” says Ruth L. Gottesman, Ed.D., chair of the Board of Overseers. “Those of us who serve on the Board are privileged to help guide the medical school in its ongoing quest to improve the human condition.”

1. Ruth L. Gottesman, Ed.D., chair of the Einstein Board of Overseers, addresses participants at the 2012 Board Retreat “working lunch”
2. Einstein Overseers Stanley M. Katz, Marilyn Katz and Linda Altman
3. Overseers Roger W. Einiger and Daniel R. Tishman
4. Dean Spiegel addresses Overseers and guests during a panel discussion and Q&A session featuring three Einstein graduate students

# Einstein in Florida 2012

Reaching out to Einstein's friends and supporters in the Palm Beach community



1. Overseers Marilyn and Stanley M. Katz
2. Fran and Bob Weisman
3. Anne R. Bresnick, Ph.D., and Steven C. Almo, Ph.D.
4. Overseers Diane Belfer and Sylvia Olnick

The College of Medicine's annual *Einstein in Florida* program—featuring discussions with Einstein faculty—is a winter season highlight for Einstein's many friends and supporters in the Palm Beach area. This year's program focused on translational medicine and cancer research.

"Stories in Translational Medicine" was the theme of a luncheon seminar hosted by Overseers Marilyn and Stanley M. Katz at Palm Beach Country Club in January 2012. Attendees learned how laboratory findings evolve into advances in patient care from two leading Einstein researchers: John J. Foxe, Ph.D. '99, professor of pediatrics and of neuroscience and research director at Einstein's Children's Evaluation and Rehabilitation Center, and Victor L. Schuster, M.D., professor of medicine (nephrology) and of physiology & biophysics, the Ted and Florence Baumritter Chair in Medicine at Einstein and chair of medicine at Einstein and Montefiore.

In March, Allen M. Spiegel, M.D., the Marilyn and Stanley M. Katz Dean; Anne R. Bresnick, Ph.D., professor of biochemistry and an investigator at the Albert Einstein Cancer Center; and Steven C. Almo, Ph.D., professor of biochemistry and of physiology & biophysics, the Wollowick Chair and director of the Cancer Center's structural biology resource, spoke at a luncheon seminar hosted by the Katzes in Palm Beach and at an evening reception hosted by Overseer Karen Mandelbaum and her husband, David, in their Jupiter home. The topic at both events, "Cancer Treatments, Drug Discovery and Design," sparked stimulating conversations.



# Einstein Emerging Leaders



“We’re interested in making the world a better place, so it’s logical to associate ourselves with Einstein, where we can have a real impact on the health of people in the Bronx and around the world.”

1. Ruth L. Gottesman, Ed.D., chair, Einstein Board of Overseers, with EEL board members Joanna Steinberg, Adam Friedman, M.D. '06, and Lawrence Elbaum

2. Alena Galan, center, who receives services from CERC, with EEL board members Lindsey Swerdloff, Joanna Steinberg, Kyle Widrick, Troy Berman and Danielle Cohen Segal, at Tribeca Three Sixty

Einstein Emerging Leaders (EEL) are accomplished professionals from diverse backgrounds and industries who have taken a philanthropic interest in Einstein. The group was conceived by Lawrence S. Elbaum, an associate at the Proskauer Rose LLP law firm; Joanna Steinberg, a social entrepreneur with a background in financial services; and Adam Friedman, M.D., a 2006 Einstein alumnus who is now an assistant professor of medicine (dermatology) and of physiology & biophysics and attending physician in dermatology at Montefiore.

After an introductory social event in Manhattan drew a capacity crowd of 150 of their closest friends and colleagues in January 2012, the group decided to organize itself and work toward an even larger spring event. EEL chose the Children’s Evaluation and Rehabilitation Center as the first Einstein program to benefit from its generosity. Its splashy formal launch event, held at Tribeca Three Sixty on June 14, 2012, attracted more than 525 professionals and made the social pages of New York newspapers.

Behind the style lies a great deal of substance. “We’re interested in making the world a better place, so it’s logical to associate ourselves with Einstein, where we can have a real impact on the health of people in the Bronx and around the world,” observes Ms. Steinberg, executive chair of the EEL board.

“It’s gratifying to see a new generation of philanthropic leaders so inspired by our mission that they’re choosing to step up and help move it into the future,” says Ruth L. Gottesman, Ed.D., chair of Einstein’s Board of Overseers.

# Einstein Alumni 2012

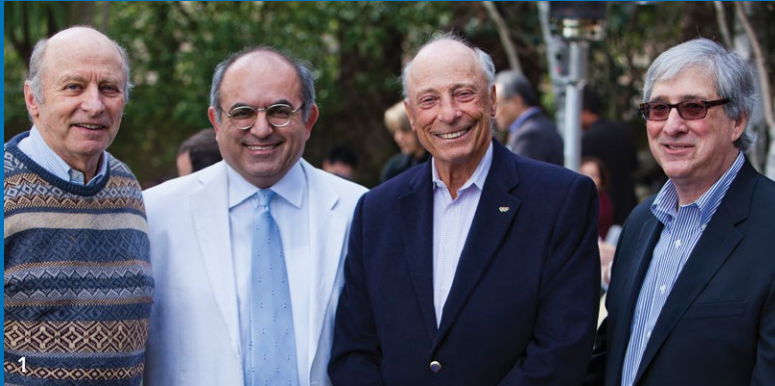


"It's been gratifying to see alumni and students share a sense of pride in our vibrant Einstein community."

1. Jack Stern, M.D. '74, Ph.D. '73, Alumni Association president, at a reception for accepted students in Manhattan
2. From left: Ronald J. Ross, M.D. '60, Lifetime Service Award recipient; Helen Ross; Evelyne Albrecht Schwaber, M.D. '59, Dominick P. Purpura Distinguished Alumnus/a Award recipient; and Jules Schwaber, M.D., at the Gala Reunion Dinner
3. Michael L. Meyers, M.D. '89, Ph.D. '93, left; Jay M. Feingold, M.D. '86, Ph.D. '84, center; and George Fulop, M.D. '80, right, counsel students at Career Speed Networking.

The Einstein Alumni Association sponsored many programs and events this past year. Some aimed to help students succeed in their medical education and marked important milestones in their educational journey; some strengthened the connections between alumni and their medical school alma mater; and some gave accepted applicants and their families a chance to meet Einstein alumni, faculty and students. These programs were all made possible by the generosity and involvement of Einstein alumni.

Alumni from graduation years ending in 2 and 7 celebrated Reunion 2012, held from May 30 through June 1. They rekindled friendships, marched at Commencement, honored the 50th Anniversary Reunion Class of 1962 and marveled at the transformations taking place on Einstein's Jack and Pearl Resnick Campus.



The Alumni Association board of governors welcomed four new members. Alumni board membership reflects the geographic diversity of Einstein’s student and alumni base, with members representing each decade of Einstein history.

“We’ve had a busy and productive year,” says Alumni Association president Jack Stern, M.D. ’74, Ph.D. ’73. “By engaging alumni in a variety of meaningful ways, we’ve helped reinvigorate and expand our alumni network and forged closer ties between alumni and current students. It’s been gratifying to see alumni and students share a sense of pride in our vibrant Einstein community.”

**Read more at:**  
[einstein.yu.edu/alumni](http://einstein.yu.edu/alumni)

1. Arthur Schapiro, M.D. ’62; host Farshad Nosratian, M.D. ’83; Melvin Schapiro, M.D. ’60; and Robert W. Marion, M.D. ’79, admissions committee chair, at a brunch for accepted students in Los Angeles
2. Martin H. Brownstein, M.D. ’61, Dean’s Club Award recipient, with Arthur Kozin, M.D. ’82, president-elect of the Einstein Alumni Association board of governors, at the Alumni Leadership Brunch
3. Edward R. Burns, M.D. ’76, executive dean, far right, leads a campus tour, Alumni Day on Campus

# Einstein's National Women's Division and Men's Division



Continuing a proud tradition of partnership to advance medical research and education programs at the College of Medicine

Pictured at the "Celebrate Einstein" dinner at New York's Plaza Hotel, from left: Overseer Kathy Weinberg, president, National Women's Division; Earle Altman; Overseer Linda Altman; Dean Allen M. Spiegel, M.D.; Overseer Arnold S. Penner; Madaleine Berley; and Raymond S. Cohen, immediate past chair, Men's Division

In 1953, a group of dynamic New York women embraced a visionary concept: to build a new medical school steeped in the humanistic values and scientific excellence of Albert Einstein that would welcome gifted students regardless of their race, religion, gender or creed. That core group became the nucleus of the National Women's Division.

The Men's Division was formed in 1961 by a cadre of leading New York business executives committed to helping ensure the success of Einstein's medical research and education programs.

Today, members of the two divisions generously contribute their passion and philanthropic support, partnering with Einstein to advance its mission of transforming human health. In November 2011, they co-hosted "Celebrate Einstein," honoring Overseers Linda Altman and Arnold S. Penner. Mrs. Altman, a past president of the National Women's Division, and Mr. Penner, a longtime Men's Division executive board member, received the first Lifetime Leadership Awards for their philanthropic leadership and extraordinary service to the College of Medicine. The event benefited research on women's cancers and the Men's Division Research Scholars Program.

In May 2012, the Women's Division's New York chapter hosted its 58th annual Spirit of Achievement Luncheon at New York's Plaza Hotel.



The honorees were Roxanne Palin, a New York chapter vice president and recipient of the Lizette H. Sarnoff Award; Lorraine Schwartz, a renowned jewelry designer and cancer research advocate; and Mark H. Einstein, M.D., M.S. '05, associate professor of obstetrics & gynecology and women's health and of epidemiology & population health at Einstein and director of clinical research for women's health and gynecologic oncology at Einstein and at Montefiore. The event benefited the division's initiative to support research at the Albert Einstein Cancer Center targeting breast and gynecologic cancers.

Men's Division members and friends gathered at Century Country Club in Purchase, NY, in June for the division's annual Golf & Tennis Tournament and Dinner. Peter A. Gatof, a past chair of the Men's Division, was honored. Proceeds benefited the Men's Division's Research Scholars Program, which helps support the training of Einstein physician-scientists in translational research.

**Read more at:**

[einstein.yu.edu/r/womensdivision](http://einstein.yu.edu/r/womensdivision) and [einstein.yu.edu/r/mensdivision](http://einstein.yu.edu/r/mensdivision)

1. Tara Stein, left, immediate past president, Westchester/Fairfield chapter, National Women's Division, with Kathy Weinberg, national president
2. Michele Wolkoff, left, New York chapter board member, National Women's Division, and luncheon chair, 2012 Spirit of Achievement Luncheon, with Mindy Feinberg and Mara Sandler, New York chapter co-presidents
3. Peter A. Gatof, third from right, 2012 Einstein Humanitarian Award recipient, with his wife, Bonnie Gatof, third from left; Daniel and Jane Och, left, and Joanne and Duane Fiedler
4. Andrew M. Weinberg, center, Men's Division executive board member and 2012 golf committee member, with executive board members Peter Bernstein, left, and Peter E. Zinman, co-chairs, 2012 golf committee



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# Planned Giving



Philanthropy has played a vital role in advancing the mission of Albert Einstein College of Medicine—even before there was a campus, or students, or faculty.

For more than 60 years, countless donors have invested hundreds of millions of dollars in Einstein. Many have opted to give “planned” or “deferred” gifts as a practical way to invest in the College of Medicine’s medical research and education programs.

“There is no doubt that the generosity of our donors plays a critical role in creating a research and academic environment that fosters scientific innovation and the training of top-notch physicians and physician-scientists,” notes Glenn Miller, Einstein’s associate dean for institutional advancement. “We often partner with donors to structure gifts that will be gratifying to the individual while helping address our institutional priorities.”

Here is a sampling of some recent planned gifts that have benefited Einstein:

The proceeds of a \$1 million charitable remainder annuity trust came from the Estate of Lawrence Schleifer. In keeping with Mr. Schleifer’s wishes, these funds were added to the more than \$2.5 million previously received from his estate; the entire gift was used to establish a scholarship fund for “needy and deserving” Einstein students.

Einstein was named the beneficiary of \$750,000 in unrestricted funds from a remainder trust created by Mrs. Lee Lavitt, who along with her husband, Louis, was a longtime donor to Einstein and a member of its Society of Founders.

A bequest of \$411,000 in unrestricted funds from the Estate of Helen M. Ranney, M.D., pioneering hematologist and former Einstein faculty member, was directed toward Einstein’s Center for Experimental Therapeutics.

Planned gifts can offer donors the opportunity to leave a lasting legacy that can help ensure a healthier future for people in New York, the United States and the rest of the world. Specific vehicles for giving may provide income or estate tax benefits, or help provide for the donor’s heirs while benefiting Einstein.

If you are interested in learning more about planned giving, contact Mr. Miller directly and confidentially at 718.430.2411, and consult with your accountant or tax professional.

Einstein gratefully acknowledges the generosity of all those who remembered the College of Medicine through planned gifts this year.

**BENEFACTORS**

Donors who have made cumulative contributions of \$1 million or more toward the growth and development of Albert Einstein College of Medicine are gratefully acknowledged as Benefactors. Their names are linked forever with the proud history of the College of Medicine and its medical education and research programs.

Our new Benefactors are in boldface type on the list below:

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Albert Einstein College of Medicine gratefully acknowledges all contributions to its medical education and research programs from alumni, families, individuals, corporations, foundations, trusts and estates. The following list recognizes cash gifts received during the fiscal year ended June 30, 2012, and includes payments toward pledges made in prior years.

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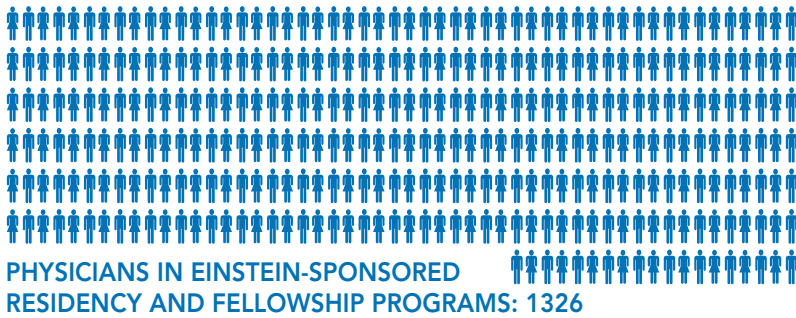
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~4 individuals =

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# NIH Funding Trends

## Einstein Success in a Difficult Climate for NIH Support

As in the two previous fiscal years, Einstein's grant awards for FY2012 remained above \$150 million, placing Einstein in the top tier of the country's 139 medical schools. This success is notable in light of sharp curtailments in National Institutes of Health (NIH) grants over the past few years. Despite this downturn, Einstein scientists continue to attract generous NIH support.

\*Rankings published by the Blue Ridge Institute for Medical Research. Awards exclude ARRA (stimulus) funding. Information retrieved 11/25/12.

### NIH Grant Awards to Medical Schools\*

FY2012

| Rank/School   | Amount               |
|---|----------------------|
| 1 University of California, San Francisco                     | \$448,710,283        |
| 2 Johns Hopkins University                                    | \$433,096,032        |
| 3 University of Pennsylvania                                  | \$388,215,514        |
| 4 Washington University                                       | \$360,187,863        |
| 5 Yale University   | \$339,668,416        |
| 6 University of Pittsburgh at Pittsburgh                      | \$326,860,108        |
| 7 University of Washington                                    | \$312,691,743        |
| 8 University of Michigan at Ann Arbor                         | \$310,538,827        |
| 9 University of California, San Diego                         | \$305,407,175        |
| 10 Duke University  | \$295,458,021        |
| 11 Stanford University  | \$294,556,593        |
| 12 University of California, Los Angeles                      | \$291,353,809        |
| 13 Vanderbilt University                                      | \$286,689,880        |
| 14 University of North Carolina, Chapel Hill                  | \$253,776,220        |
| 15 Columbia University Health Sciences                        | \$252,583,700        |
| 16 Emory University   | \$223,899,649        |
| 17 Baylor College of Medicine                                 | \$207,292,285        |
| 18 Mayo Clinic  | \$202,050,809        |
| 19 Oregon Health and Science University                       | \$181,337,149        |
| 20 Mount Sinai School of Medicine                             | \$178,678,872        |
| 21 Northwestern University at Chicago                         | \$173,881,867        |
| 22 Harvard University (Medical School)                        | \$167,201,924        |
| 23 University of Chicago                                      | \$167,011,403        |
| 24 New York University School of Medicine                     | \$165,753,611        |
| 25 University of Texas SW Medical Center/Dallas               | \$164,776,473        |
| 26 University of Colorado, Denver                             | \$162,347,167        |
| <b>27 Albert Einstein College of Medicine of Yeshiva Univ</b> | <b>\$160,636,073</b> |
| 28 University of Minnesota, Twin Cities                       | \$145,230,030        |
| 29 University of Alabama at Birmingham                        | \$143,263,811        |
| 30 Case Western Reserve University                            | \$142,127,866        |
| 31 University of Maryland, Baltimore                          | \$140,078,759        |
| 32 University of Rochester                                    | \$134,817,798        |
| 33 University of Wisconsin, Madison                           | \$132,529,916        |
| 34 University of Southern California                          | \$129,171,920        |
| 35 University of Iowa   | \$128,218,877        |
| 36 Univ of Massachusetts Med Sch Worcester                    | \$123,398,725        |
| 37 University of California, Davis                            | \$122,077,289        |
| 38 University of Miami School of Medicine                     | \$117,552,086        |
| 39 Weill Medical College of Cornell University                | \$116,631,923        |
| 40 University of Virginia, Charlottesville                    | \$107,511,242        |

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