



**Mount
Sinai**

inside

A PUBLICATION OF THE MOUNT SINAI HEALTH SYSTEM

August 1 - 21, 2016

Unique Public-Private Collaboration with Celgene To Accelerate Important Cancer Discoveries

The Tisch Cancer Institute at the Icahn School of Medicine at Mount Sinai and three other leading U.S. academic institutions recently established a pioneering research consortium to accelerate the discovery of new treatments for cancer.

In addition, Celgene Corp., a global biopharmaceutical company, paid \$50 million to enter into four public-private collaboration agreements with each member of the new consortium for the option of developing and commercializing novel cancer therapeutics arising from their efforts.

Celgene awarded \$12.5 million each to Mount Sinai, The Abramson Cancer Center at the University of Pennsylvania, The Herbert Irving Comprehensive Cancer Center at Columbia University Medical



Left: Erik Lium, PhD, Senior Vice President of Mount Sinai Innovation Partners; and Steven J. Burakoff, MD, Director of The Tisch Cancer Institute at the Icahn School of Medicine

Center, and the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins.

Over the next 10 years, these academic cancer centers intend to present multiple high-impact research programs to Celgene with the goal of developing new life-saving therapeutics. Subject to Celgene's decision to opt in and license the resulting technologies, each program has the potential to be valued at hundreds of millions of dollars.

"This is a paradigm-shifting collaboration that further strengthens our innovative ecosystem," says Bob Hugin, Executive Chairman of Celgene

Corp. "We remain firmly committed to driving critical advances in cancer and believe the tremendous expertise of our collaboration

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New Chair Leads Rehabilitation Medicine Department

Joseph E. Herrera, DO, was appointed Chair of the Mount Sinai Health System Department of Rehabilitation Medicine in July. The noted clinician, educator, and researcher previously served as Chair of Physical Medicine and Rehabilitation at Mount Sinai Beth Israel, where he introduced innovative therapies and helped build highly selective residency and fellowship programs. Dr. Herrera is also Associate Professor of Rehabilitation Medicine at the Icahn School of Medicine at Mount Sinai.

He succeeds Kristjan T. Ragnarsson, MD, who led the department for 30 years, a distinction

that made him the longest-serving department chair at Mount Sinai. Dr. Ragnarsson, an internationally acclaimed clinician and researcher, had transformed the Department into one of the nation's leading centers for rehabilitation medicine. Dr. Ragnarsson is being named Emeritus Chairman and Professor and will continue his work at Mount Sinai on a limited basis.

In his new role, Dr. Herrera will lead an effort to advance patient care through innovative technologies, including robotics and phone apps.



Joseph E. Herrera, DO

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Mount Sinai Surgeons Are First in New York State To Perform HIV-Positive Kidney Transplant

The Mount Sinai Hospital recently became the first hospital in New York State and the second in the nation to perform a kidney transplant from an HIV-positive deceased donor to an HIV-positive recipient, the result of federal legislation that went into effect late last year making such transplants possible.

Led by Sander Florman, MD, Director of the Recanati/Miller Transplantation Institute, and the Charles Miller, MD Professor of Surgery, Mount Sinai is one of four medical centers in the country with federal approval to perform liver and kidney transplants under the HIV Organ Policy Equity (HOPE) Act.

“The new law is a win-win for everyone,” says Dr. Florman. “This represents the potentially largest increase to the organ donor pool in many years and could provide more organs for everyone.”

Prior to the HOPE Act, organs from HIV-positive donors were not legally allowed to be procured for transplant into patients with HIV—the only people eligible to receive them—which made organ waiting lists longer for all patients, including those without HIV. The average wait for a kidney from a deceased non-HIV donor is seven years in New York, according to Dr. Florman.

Alexandra Harry, 55, the first Mount Sinai patient to receive a kidney under the new law, called the transplant “a gift that has given me the opportunity for a better quality of life.” Since 2005, she had been on peritoneal dialysis, which had to be performed 10 hours each night. Ms. Harry says she learned about her eligibility to participate in Mount Sinai’s program only two weeks before she actually received a suitable kidney, so the entire process was very quick.

A few days after her surgery this past spring, Ms. Harry said, “I felt an improvement almost immediately.” Her surgeon was Susan Lerner, MD, Assistant Professor of Surgery and Medical Education at the Recanati/Miller Transplantation Institute. Shirish S. Huprikar, MD, Associate Professor of Medicine and Director of Transplant Infectious Diseases at the Recanati/Miller Transplantation Institute, worked closely with the team to evaluate the appropriateness of HIV-positive donors.

According to Ms. Harry’s son, Aaron, 35, the transplant will enable his mother to travel more freely and see her extended family more frequently without the burden of carrying the medical supplies and equipment needed for her dialysis. “With this kidney, I see more doors opening,” he says.



Patient Alexandra Harry, center, with her Mount Sinai clinical team, from left: Shirish S. Huprikar, MD; Susan Lerner, MD; Brandy Haydel, Clinical Research Program Director; and Sander Florman, MD.

Johns Hopkins Medicine in Baltimore and Mount Sinai were the first to perform the transplants. Like Ms. Harry, all recipients must agree to participate in clinical research approved by each hospital’s Institutional Review Board under criteria set by the National Institutes of Health. Hahnemann University Hospital in Philadelphia and the University of California, San Francisco Medical Center also have permission to perform these transplants.

At Mount Sinai, there are currently about 80 HIV patients waiting for a kidney transplant and 12 waiting for a liver transplant, says Dr. Florman. It has been estimated that this new source of organs could be enough for as many as 2,500 additional deceased donor transplants in the United States each year.

Dr. Florman recently participated in an Organ Summit in Washington, D.C., hosted by the White House. At the summit, senior administration officials and transplant specialists from hospitals, universities, foundations, and patient advocacy organizations created a Blue Ribbon Advisory Panel with the goal of establishing a national clearinghouse of educational resources about transplant and living donation for patients, living donors, and the public.

“The need for organs for transplantation far exceeds the availability, and the waiting lists continue to grow,” says Dr. Florman. “People’s lives depend on these efforts, so we must find ways to increase the donor supply and also encourage living donation.”

Celebrating the Career of Kurt Hirschhorn, MD

More than 160 faculty and guests gathered recently to celebrate the trailblazing career of Kurt Hirschhorn, MD, during a dinner to honor two milestones—his 90th birthday and his 50 years as a leader and mentor in Pediatrics and Human Genetics at Mount Sinai. Among the participants were several dozen chief residents he mentored, many of whom are on the faculty of the Icahn School of Medicine at Mount Sinai today.

Currently Professor Emeritus of Pediatrics, Genetics, and Medicine, and Chairman Emeritus of Pediatrics, Dr. Hirschhorn continues to be involved in research and in the clinical practice of medical genetics, an area he advanced through more than 400 published studies and as a founding member of a number of organizations.

“Dr. Hirschhorn is an exemplary academic leader who serves as a role model that we all aspire to emulate—thoughtful, generous in the time he devotes to those who follow in his footsteps, committed to excellence in every endeavor he pursues, and passionate about science and discovery,” says Lisa M. Satlin, MD, Herbert H. Lehman Professor and Chair, Jack and Lucy Clark Department of Pediatrics, and Pediatrician-in-Chief, Mount Sinai Health System.

He is the recipient of many national and international honors, among them membership in the Institute of Medicine and the National Academy of Medicine, as well as the highest awards in Pediatrics and Human Genetics.

Says Dr. Hirschhorn: “The opportunity to meet with my previous chief residents and faculty colleagues at the dinner was inspiring. My career at Mount Sinai has been so great because of the friendships and fruitful collaborations I have had with many faculty members, residents, students, and the overall Mount Sinai community.”



Kurt Hirschhorn, MD, front row, third from left, is surrounded by staff and many of his former chief residents, who include current faculty members at the Icahn School of Medicine at Mount Sinai.

› Unique Public-Private Collaboration to Accelerate Cancer Discoveries *(continued from page 1)*

partner institutions will be invaluable in identifying new therapies for cancer patients.”

The magnitude of the multi-institutional consortium and agreements will support the rapid delivery of disease-altering treatments to clinicians and ultimately benefit cancer patients, global health care systems, and society. Collectively, the four academic medical centers care for more than 30,000 new cancer patients each year and have nearly 800 faculty members involved in clinical care and basic and clinical cancer research. They are among the 69 institutions designated as Cancer Centers by the National Cancer Institute (NCI), serving as the backbone of the NCI’s research on cancer.

“We have an unprecedented opportunity to take basic cancer research all the way to drug development with one of the most creative pharmaceutical companies,” says Steven J. Burakoff, MD, Director of The Tisch Cancer Institute at the Icahn School of Medicine at Mount Sinai, and the Lillian and Henry M. Stratton Professor of Cancer Medicine. “These agreements are focused on basic and translational research that is conducted at academic institutions that treat a tremendous number of new cancer patients annually.”

Says Dennis S. Charney, MD, Anne and Joel Ehrenkranz Dean, Icahn School of Medicine at Mount Sinai, and President for Academic Affairs, Mount Sinai Health System: “A collaboration of this kind has never been done before. The Tisch Cancer Institute and the other three participating cancer centers will work collaboratively with Celgene to advance some of their most promising research in the field of oncology to accelerate the development of essential new therapeutics.”

Erik Liem, PhD, Senior Vice President of Mount Sinai Innovation Partners, who leads Mount Sinai’s development and commercialization division, helped spearhead the collaboration agreement.

“This consortium enables the four participating institutions to leverage their synergistic and individual strengths in research and patient care to develop new treatments for cancer,” he says.

Mount Sinai’s collaboration comes at the same time the White House has announced a new National Cancer Moonshot initiative to boost research efforts in cancer. The national initiative would harness innovative scientific insights and breakthroughs that have increased in recent years.

Mount Sinai's Diversity Programs Ranked No. 3 in Nation

DiversityInc, the nation's leading publication in advancing excellence in diversity management, has ranked the Mount Sinai Health System No. 3 on its 2016 "Top 10 Hospitals and Health Systems" list, which, for the first time, establishes Mount Sinai as the highest-ranked health system in the New York City metropolitan area. This ranking reflects the accomplishments of the Office for Diversity and Inclusion and the Center for Multicultural and Community Affairs, the diversity center of the Icahn School of Medicine at Mount Sinai. In 2015, Mount Sinai was ranked No. 5.

"This recognition is an important acknowledgement of the commitment of our leadership and the impact of our

continued work with staff and leadership across the Health System in advancing our diversity and inclusion goals," says Gary C. Butts, MD, Chief Diversity and Inclusion Officer, Mount Sinai Health System, and Dean for Diversity Programs, Policy and Community Affairs, Icahn School of Medicine at Mount Sinai.

DiversityInc's 300-question self-assessment survey ranks hospitals and health care systems on multiple diversity criteria including talent pipeline, talent development, leadership,



commitment, and supplier diversity. Typically, the ranked entities are leaders in employee resource group participation, manager participation in cross-cultural mentoring, executive diversity councils that tie goals to executive compensation, and programs that educate and mentor diverse suppliers. Companies with more than 1,000 United States-based employees were eligible to enter the competition at no cost.

To learn more about the Mount Sinai Health System's diversity and inclusion programs, visit www.mountsinaihealth.org/diversity.

➤ New Chair Leads Rehabilitation Medicine Department *(continued from page 1)*

His clinical research interests include sports-related injuries, electro-diagnostic studies, fluoroscopic-guided spine and joint interventions, and the use of ultrasound for diagnosis and guided treatments. While at Mount Sinai Beth Israel, Dr. Herrera introduced the AposTherapy program, which uses specially designed shoes to alleviate chronic knee and back pain. The program is offered at the Phillips Ambulatory Care Center, one of the first New York City locations to provide the treatment (see sidebar below).

"Dr. Herrera is a skilled clinician who receives patient referrals locally, nationally, and internationally for the innovative care

that he provides," says Dennis S. Charney, MD, Anne and Joel Ehrenkranz Dean, Icahn School of Medicine at Mount Sinai and President for Academic Affairs, Mount Sinai Health System. "He is also an outstanding educator who created and leads Mount Sinai's accredited Sports Medicine and Interventional Spine Fellowship Program, the first of its kind in New York City and one of 19 such programs in the nation."

Additionally, Dr. Herrera treats and evaluates amateur and professional athletes through an appointment to the New York State Athletic Commission and as Chief Team Physician for USA Boxing

Metro, and is the recipient of the Rocky Marciano Physician of the Year Award for excellence in Sports Medicine.

Dr. Herrera earned his Doctor of Osteopathic Medicine degree at the School of Osteopathic Medicine at the University of Medicine and Dentistry of New Jersey. He pursued his residency in physical medicine and rehabilitation at New York-Presbyterian Hospital, serving as Chief Resident, and completed his fellowship training in interventional spine and sports medicine at Mount Sinai Beth Israel.

Studying a New Treatment for Chronic Knee and Back Pain

"We are very excited about introducing AposTherapy to treat chronic knee and back pain," says Joseph E. Herrera, DO, Chair of the Department of Rehabilitation Medicine. Developed in Israel, AposTherapy uses specially designed biomechanical shoes to retrain the muscles around the knee by adjusting the center of pressure when walking. By changing the foot's point of contact with the ground, the device shifts the line of force closer to the center of the knee. Pods on the bottom of the shoes are calibrated for each patient by a specially trained physical therapist. Patients wear the shoes for up to two hours



Steven Venegas, DPT, Senior Physical Therapist, Mount Sinai Beth Israel, calibrates pods on the bottom of specially designed biomechanical shoes for a patient.

a day during their regular activities. The AposTherapy treatment is being offered as part of a study being conducted at Mount Sinai. The study has enrolled 73 patients. To learn more, visit mountsinai.org/apos or email RehabBIappt@chpnet.org.

Dr. Herrera is a non-paid member of the Medical Advisory Board of AposTherapy.

Around the Health System

Neurosurgery Charity Softball Tournament in Central Park

Under a clear blue sky in June, faculty, residents, and fellows from the Mount Sinai Health System's Department of Neurosurgery came to bat in a friendly charity softball competition in Central Park. The 13th Annual Neurosurgery Charity Softball Tournament, which supported the Neurosurgery Research and Education Foundation of the American Association of Neurological Surgeons and pediatric brain tumor research, drew more than 25 teams from academic medical centers around the country and Canada. Held each year in Central Park, the event is hosted by Columbia University's Department of Neurological Surgery.

This year, Mount Sinai's team beat Michigan Health System's, but lost close games to teams from University Medical Center at the University of Alabama and Penn State Milton S. Hershey Medical Center.



Mount Sinai's players included, from left: Justin R. Mascitelli, MD, Chief Neurosurgery Resident; Constantinos G. Hadjipanayis, MD, PhD, Professor and Chair of Neurosurgery at Mount Sinai Beth Israel; J Mocco, MD, MS, Professor and Vice Chair for Education; Christopher P. Kellner, MD, Assistant Professor and Director of the Intracerebral Hemorrhage Program; and Joshua B. Bederson, MD, Professor and Chairman of Neurosurgery at the Mount Sinai Health System.



From left: James C. Tsai, MD, MBA, with members of the 2016 Graduating Class of Ophthalmology Fellows: Jonathan Schulhof, MD; Aleza Andron, MD; Steven Agemy, MD; Jessica Lee, MD; Julia Mathew Padiyedathu, MD; and Kevin Lai, MD.

Celebrating the 2016 Graduating Class of Residents and Fellows

The New York Eye and Ear Infirmary of Mount Sinai granted 24 diplomas to graduating residents and fellows from the Department of Otolaryngology/Head and Neck Surgery, the Department of Ophthalmology, and Aesthetic and Plastic Surgery during a ceremony held at the Friends Meeting House on Thursday, June 23.

"Congratulations to the graduates, some of the best and brightest physicians and surgeons in America," James C. Tsai, MD, MBA, President, New York Eye and Ear Infirmary of Mount Sinai, and Chair of Ophthalmology, Mount Sinai Health System, told the graduates and guests. "You carry the proud heritage of the nation's oldest specialty hospital, which today provides the most complex care to patients throughout the United States and the world. We are confident that you will become leaders in your fields, providing the highest level of quality care and continuing to transform medicine in the twenty-first century."

Men's Health Awareness

During Men's Health Month in June, the Mount Sinai Health System's Department of Urology held seminars and question-and-answer sessions to educate the public about diseases and medical conditions such as prostate and testicular cancer, and erectile dysfunction. To highlight the importance of exercise in maintaining overall health, Ash Tewari, MBBS, MCh, Kyung Hyum Kim, MD Chair in Urology, Milton and Carroll Petrie Department of Urology, center in photo, led a fitness walk from The Mount Sinai Hospital to the Jacqueline Kennedy Onassis Reservoir in Central Park with faculty and staff.



Grand Rounds / Medicine

Scott C. Weaver, PhD, MS, Professor, Interim Chair, Microbiology, Immunology, Director, Institute for Human Infections and Immunity, University of Texas, presents "Zika Virus: History, Emergence of Neurologic Disease, and Threat to the Americas."

Tuesday, August 9

8:30 – 9:30 am

**The Mount Sinai Hospital Campus
Hatch Auditorium**

Grand Rounds / Anesthesiology

Tetsuro Sakai, MD, PhD, Professor, Anesthesiology, Clinical and Translational Science Institute, University of Pittsburgh School of Medicine, presents "Enhancing Scholarly Activity in Residency Programs: The UPMC Experience."

Wednesday, August 10

6:30 – 8:10 am

**The Mount Sinai Hospital Campus
Annenberg 13-01**

Eating and Weight Disorders Program

The Eating and Weight Disorders Program at Mount Sinai provides evidence-based treatment for individuals of all ages who have feeding and eating disorders. The Program offers treatment for children, adolescents, and adults with anorexia nervosa, bulimia nervosa, binge eating disorder, avoidant and restrictive food intake disorder, and obesity. Clinical services include an intensive outpatient program and bariatric surgery evaluation program. The Program is also currently recruiting for a number of research studies regarding eating disorder behaviors, body image disturbance, and steroid use.

For more information about treatment and research studies, call 212-659-8724 or visit <http://www.mountsinai.org/patient-care/service-areas/psychiatry/areas-of-care/eating-and-weight-disorders-program>.

TIAA Financial Consultants at Mount Sinai

TIAA financial consultants are onsite at 19 East 98th Street every weekday to meet with participants enrolled in the Mount Sinai 403(b) Retirement Plan. These one-on-one advice sessions are part of the service that TIAA provides and are available at no additional cost to those interested. For more information, or to schedule an appointment, call 888-210-3992.

Mount Sinai Transformation update

The Inpatient Rehabilitation Unit at Mount Sinai Beth Israel

is now relocating individuals who require inpatient post-acute care to other Mount Sinai Health System locations. Patients will have full, uninterrupted access to all of the critical services they need at these Mount Sinai facilities. In addition, Mount Sinai will optimize these locations to enhance the care of those with severe disabilities, such as model treatment for spinal cord injury and brain injury. Mount Sinai also continues to enhance the outpatient therapy and rehabilitation programs at Mount Sinai's Phillips Ambulatory Care Center at Union Square.

For additional information on Mount Sinai's downtown transformation, go to: <http://www.mountsinaihealth.org/locations/downtown>

Rainbow Over Mount Sinai



A severe downpour in late July gave way to a double rainbow that appeared above the Annenberg Building on The Mount Sinai Hospital campus.

Photo credit: Mark Gettes, MD, Assistant Professor of Anesthesiology, Icahn School of Medicine at Mount Sinai



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