



Mount Sinai

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Louis Armstrong Center for Music & Medicine Symposium

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## New Respiratory Institute to Advance Care and Research

The Icahn School of Medicine at Mount Sinai, and National Jewish Health, the nation's leading respiratory hospital, based in Denver, Colorado, have created a partnership to advance patient care and research in respiratory and related diseases. The Mount Sinai–National Jewish Health Respiratory Institute is expected to open on the Icahn School of Medicine campus in July.

“We are very excited to join with National Jewish Health in this endeavor,” said Dennis S. Charney, MD, Anne and Joel Ehrenkrantz Dean, Icahn School of Medicine at Mount Sinai and President for Academic Affairs, Mount Sinai Health System. “This agreement brings together two of the country’s finest medical institutions in a partnership to advance respiratory care, not only in New York City but throughout the

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Dennis S. Charney, MD, left, with Michael Salem, MD, President and Chief Executive Officer of National Jewish Health, at the signing ceremony creating the Mount Sinai–National Jewish Health Respiratory Institute



At a press conference in December, Robert K. Steel, above, New York City's Deputy Mayor for Economic Development, said the new Mount Sinai Institute of Technology would help New York become a preeminent capital for life sciences innovation.

## Mount Sinai Institute of Technology to Become Hub of Innovation

The Mount Sinai Health System recently established the Mount Sinai Institute of Technology (MSIT), with a \$5 million grant from the New York City Economic Development Corporation (NYCEDC). As part of Icahn School of Medicine at Mount Sinai, MSIT will train students to develop technology-based solutions that improve human health, and serve as an incubator for transformative, cost-effective discoveries.

Through current and future educational programs—including the recently launched PhD program in Design, Technology, and Entrepreneurship, and new Master's program in Biomedical Informatics—the Institute will focus on areas such as mobile and wireless technology, cloud computing, Big Data, tissue engineering, robotics, mechatronics, drug repurposing and delivery, nanomedicine, and medical devices. The first programs will begin in the fall.

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## › Respiratory Institute to Advance Care and Research *(continued from page 1)*

country, with a focus on disease management, education, and research.” Dr. Charney made the remarks at a signing ceremony held at Mount Sinai on Friday, December 13.

Also participating in the ceremony was Michael Salem, MD, President and Chief Executive Officer of National Jewish Health. “We have a long history of patients traveling to Denver from around the country, seeking the expertise and unique approach to respiratory care that we provide,” said Dr. Salem. “Teaming up with a visionary health care organization creates a collaborative environment that extends our ability to share our expertise and innovations for the benefit of many more patients.”

The Respiratory Institute will develop protocols for patient care, specific to the Mount Sinai Health System, with an emphasis on providing an exceptional patient care experience, for which National Jewish Health is world-renowned. The partnership will



Participating in the signing ceremony were, from left: Kevin Brown, MD, Vice Chair, Department of Medicine Clinical Affairs, National Jewish Health; Michael Salem, MD; Richard Schierburg, Chair, Board of Directors, National Jewish Health; Peter W. May, Chairman, Boards of Trustees, Mount Sinai Health System; Dennis S. Charney, MD; Barbara Murphy, MD, Murray M. Rosenberg Professor of Medicine and Chair, Samuel Bronfman Department of Medicine; and Charles A. Powell, MD, the Institute’s Chief Executive Officer.

also focus on innovative research opportunities, bringing together top investigators and extending the reach of each institution’s teaching programs.

It will also build upon the clinical and research endeavors of Mount Sinai’s Catherine and Henry J. Gaisman Division of Pulmonary, Critical Care and Sleep Medicine, which has experienced dramatic growth in the last several years, especially in its world-class sarcoidosis and lung cancer programs, under the leadership of Charles A. Powell, MD. Dr. Powell, Division Chief and the Janice and Coleman Rabin Professor of Pulmonary Medicine, has been named Chief Executive Officer of the Institute.

“Respiratory disease has reached epidemic proportions in New York City and around the nation, especially in asthma and asthma-related illnesses,” said Dr. Powell. “This partnership allows us to move one step closer in meeting the needs of our patients.”

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## New Uniforms for Mount Sinai’s Nursing Staff

With considerable fanfare, the Nursing staff at The Mount Sinai Hospital debuted new uniforms in Guggenheim Pavilion on Tuesday, December 10, marking the first time in more than 30 years that the entire nursing patient-care team will be identifiable by the color of their uniforms.

“Without a consistent dress-code, patients had difficulty distinguishing our nurses from the many other staff who provided bedside care,” says Carol Porter, DNP, RN, FAAN, Chief Nursing Officer, the Edgar M. Cullman, Sr. Chair of the Department of Nursing, and Associate Dean of Nursing and Research. “In a hospital where relationship-centered care is the professional practice model, our goal is always to improve the patient experience. The RN uniform will now serve to guide patients and their families to better identify, and relate to, Nursing staff.”

The 18-month uniform project required the support of hospital and nursing leadership, representatives from Mount Sinai’s Local Bargaining Unit, and the hospital’s clinical



Helping to celebrate three new sets of single-color uniforms for Nursing staff were: front row, fourth from left, Carol Porter, DNP, RN, FAAN, accompanied by David L. Reich, MD, President and Chief Operating Officer, The Mount Sinai Hospital; Beth Oliver, DNP, RN, Vice President, Clinical Operations, Mount Sinai Heart; Maria Vezina, EdD, RN, NEA-BC, Senior Director, Nursing Education, Research, and Professional Practice; and Judy Miranda, MSN, RN, Director of Nursing, Recanati/Miller Transplantation Institute and Rehabilitation Medicine.

nurses. Ultimately, the clinical nurses chose teal blue as the official color for registered professional nurses. Patient care associates, technicians, mental health

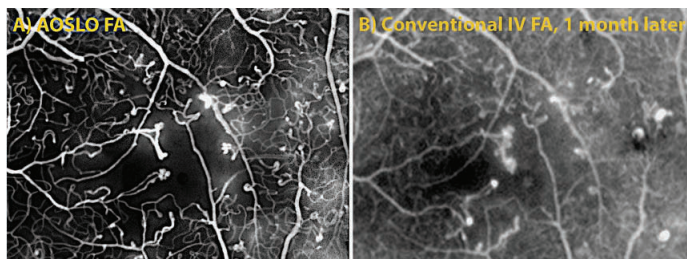
associates, medical clinical associates, and clinical oncology associates have adopted navy blue; and nursing assistants will be identified by baby blue.

# Pioneering Imaging Technology Reveals Microscopic Details of the Retina

Richard Rosen, MD, Vice Chair of the Department of Ophthalmology at New York Eye and Ear Infirmary, and a team of researchers in the Shelley and Steven Einhorn Clinical Research Center, are pioneering an imaging technology that enables them to see microscopic details of the retina and its finest blood vessels at a level not previously possible in patients with sight-threatening disease.

Their work, being conducted in the David E. Marrus Adaptive Optics Laboratory, incorporates adaptive optics (AO) technology with fluorescein angiography, the traditional procedure for visualizing abnormal blood vessels in the eye. AO was originally developed by astronomers to view objects in space without distortions caused by the atmosphere, whereas fluorescein angiography involves injection of dye into a patient's arm, which is then recorded digitally as it moves through the bloodstream into the eye.

Dr. Rosen says AO combined with fluorescein angiography will make it



Left photo: Adaptive optics fluorescein angiogram of a patient with 20/20 vision and previously undiagnosed proliferative diabetic retinopathy  
Right photo: Conventional fluorescein image following intravenous fluorescein dye injection four weeks later, prior to initiation of treatment

possible for physicians to study how diseases unfold on a cellular level so they can devise more effective treatments. “With this approach, we can appreciate very early changes and potentially intervene with treatment when the disease could be at a reversible stage,” he explains. “It can take over ten years for some patients to lose vision, with no visible changes seen with currently available imaging modalities. With AO, we can detect minute changes much earlier and hope to improve the standard of care and prevent blindness.”

Diabetic retinopathy, for example—a progressive disease in patients with diabetes that can lead to blindness—is typically diagnosed and treated with

laser surgery or intraocular injections at a later stage, says Dr. Rosen. If the disease were detected earlier, physicians might be able to prevent vision loss with milder, less-invasive treatments.

In a recent study involving ten healthy volunteers that was funded, in part, by the National Eye Institute, Dr. Rosen and his colleague Alfredo Dubra,

PhD, Assistant Professor and Co-Director of the Advanced Ocular Imaging Program at the Medical College of Wisconsin, found that combining AO technology and an oral form of the dye mixed with orange juice provided a stronger, longer-lasting signal than the dye administered intravenously. It was tolerated by all of the volunteers, whereas one volunteer who received an intravenous injection became nauseous.

Going forward, Dr. Rosen says one of the biggest challenges will be to make AO technology accessible to all ophthalmologists. Once the technology becomes more cost-effective, it can be incorporated into clinical trials and patient care.

## › Mount Sinai Institute of Technology to Become Hub of Innovation

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MSIT will serve as the primary locus for Mount Sinai's academic partnership with Rensselaer Polytechnic Institute, and will pursue partnerships with pharmaceutical, biotechnology, information technology, and insurance companies; venture capital firms; and organizations such as the National Science Foundation.

“Innovation is a driving force in everything we do at Mount Sinai, in our classrooms and laboratories, and our operating suites,” says Kenneth L. Davis, MD, Chief Executive Officer and President of the Mount Sinai Health System. “The Mount Sinai Institute of Technology will foster innovation that helps to solve the medical problems facing our society.” MSIT is Mount Sinai's 16th Research Institute and its newest Center of Excellence.

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: “The Institute's work will go a long way toward helping improve patient outcomes and the

quality of life for people in New York City and elsewhere. We are grateful to the New York City Economic Development Corporation and the administration of former Mayor Michael R. Bloomberg for their generous support in helping to make MSIT a reality.”

Geoffrey Smith, Professor, Department of Health Evidence and Policy at Icahn School of Medicine, will serve as the Founding Director of the Mount Sinai Institute of Technology. The grant will be used to establish several facilities at the Icahn School of Medicine campus, including a Rapid Prototyping Center, an Innovation Lab, and a Teaching Facility with electronically enabled classrooms, student meeting spaces, and computer-driven visualization technology.

The creation of the MSIT reflects the NYCEDC's stated mission to promote life sciences and health care innovation in New York City as a means of encouraging investment, generating prosperity, and strengthening the city's competitive position.

## Events

### Identification and Management of Headaches in Adults, Adolescents

Leading physicians present updates in identifying and managing headaches at an event sponsored by the Headache Institute and Adolescent Headache Center, St. Luke's and Roosevelt Hospitals. Designated for a maximum of 7.0 AMA PRA Category 1 Credits™.

Sunday, January 12  
8 am – 5 pm  
Roosevelt Hospital  
1000 Tenth Avenue

### Grand Rounds Spencer Cox Center For Health: HIV

Roy M. Gulick, MD, MPH,  
Chief, Division of Infectious  
Diseases, Weill Cornell  
Medical College, presents  
“ART Controversies 2014.”

Monday, January 6  
Noon – 1 pm  
Roosevelt Hospital  
1000 Tenth Avenue  
Second Floor, Room B

### Friedman Brain Institute Translational Neuroscience Seminar Series

Martin G. Myers Jr., MD, PhD,  
Professor of Medicine, and  
Molecular & Integrative  
Physiology, University of  
Michigan, presents “Leptin  
Action (way) Outside of the  
Arcuate Nucleus.”

Thursday, January 9  
1 pm  
The Mount Sinai  
Hospital Campus  
Hess Center, Seminar Room A

### Grand Rounds Family Medicine and Community Health

Gail L. Rosseau, MD, Director,  
Skull-Base Surgery, North  
Shore University Health  
System, presents “The Sports  
Concussion ‘Epidemic’:  
Current Concepts and  
Controversies.”

Friday, January 10  
8 – 9 am  
The Mount Sinai  
Hospital Campus  
Hess Center, Seminar Room A

### Grand Rounds Anesthesiology

Robert Gaiser, MD, MS,  
Professor, Anesthesiology  
and Critical Care, University  
of Pennsylvania, presents  
“Informed Consent of an  
Obstetric Anesthesiologist.”

Wednesday, January 15  
6:30 – 8:10 am  
The Mount Sinai  
Hospital Campus  
Annenberg 13-01

## Louis Armstrong Center for Music & Medicine Symposium on Converging Disciplines at Crossroads of Cancer Care

Implications in theory and practice for the use of integrative medicine in the treatment of cancer will be synthesized across medical, psychological, spiritual, and psychosocial domains during a two-day symposium. The event will feature keynote speakers from Beth Israel Medical Center's Louis Armstrong Center for Music & Medicine, The Mount Sinai Hospital, and the Cleveland Clinic, and presentations from other leading institutions in the United States and from around the world.

Registration is encouraged by Thursday, January 23. For more information, and to register, call 212-420-2704 or email [info@musicandmedicine.org](mailto:info@musicandmedicine.org). Approved by the Certification Board of Music Therapists (CBMT) to award 14.0 CMTE (Continuing Music Therapy Education) credits. Participants may also be eligible for 13.0 CME credits from Beth Israel's Office of Continuing Education.

Monday, January 27, and Tuesday, January 28  
Phillips Ambulatory Care Center  
Second Floor Conference Center  
10 Union Square East

## Education

### Department of Emergency Medicine Ninth Annual Critical Care Conference

The Department of Emergency Medicine at The Mount Sinai Hospital will host a one-day conference to provide emergency physicians and intensivists with detailed information on the latest diagnostic and management options in caring for the critically ill.

Wednesday, January 8  
7:30 am – 1:30 pm  
The Mount Sinai  
Hospital Campus  
Stern Auditorium

### Breast and Cervical Cancer Outreach Programs

*Esperanza y Vida* and *The Witness Project of Harlem* are culturally based community outreach programs that teach the importance of breast and cervical cancer health and screenings. The programs are held at The Mount Sinai Hospital campus every month and at community locations. For more information, contact Carina Rodríguez at 212-824-7801 or Clarissa Martinez at 212-824-7803.



**Mount  
Sinai**

#### INSIDE MOUNT SINAI

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