

Dear Colleagues and Friends:

Founded in 1898, this department has upheld its tradition of excellence for well over a century, while advancing an impressive history filled with innovations and life-saving therapies.



I am pleased to present to all of our friends and colleagues our Annual Report 2017-2018. This report features news highlights from calendar year 2017 and provides an overview of our tripartite mission that encompasses patient care, research, and education.

Since arriving to Weill Cornell Medicine in February of 2018, it has been a great privilege for me to serve as the Chair of the Joan and Sanford I. Weill

Department of Medicine. Founded in 1898, this department has upheld its tradition of excellence for well over a century, while advancing an impressive history filled with innovations and life-saving therapies.

Most importantly, the department continues to excel in providing high-quality clinical care, advancing state-of-the-art research, and in training our next generation of physicians and scientists. I am happy to report that there has been consistent evidence of growth in all of these areas.

Inside this year's report, you will find examples of some of the wonderful work being done by our outstanding faculty, as well as a more detailed look at each of our divisions, awards received by members of the department, details on educational programs, and information on our administrative structure. You will also find metrics of growth covering clinical and research activities in what has been a superb year for the department.

I hope you enjoy the report!

Sincerely,

Anthony Hollenberg, M.D.

Sanford I. Weill Chair of Medicine

Joan and Sanford I. Weill Department of Medicine

Weill Cornell Medical College

Physician-in-Chief

NewYork-Presbyterian Hospital/Weill Cornell Medicine Center

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3D Exploration of a Cell's Identity and Ultimate Fate

Dr. Effie Apostolou

Dr. Eftychia (Effie) Apostolou, Assistant Professor of Molecular Biology in Medicine, Division of Hematology and Medical Oncology, was recruited to the Weill Department of Medicine in 2014 from the Harvard Stem Cell Institute at Massachusetts General Hospital.



Two years after recruitment to Weill Cornell, Dr. Apostolou received an NIH Director's New Innovator Award.

A basic scientist and innovator in the field of cell identity, she examines how a cell determines, maintains, and changes its own identity and ultimate fate. As a Ph.D. in Molecular Biology training at the National Kapodistrian University in Athens, Greece, Dr. Apostolou was among the first researchers to demonstrate the roles of long-range interactions in gene

expression and cell identity (in the contexts of antiviral response and somatic cell reprogramming). Today, she is a leading expert on the fields of chromatin topology and stem cell biology. Located in the Belfer Research Building, she and her team are utilizing state-of-the-art technologies for genome-wide profiling



of chromatin conformation and advanced tools for genetic and epigenetic engineering, as well as novel genetic mouse models.

At the center of Dr. Apostolou's research focus is the fundamental question of how cells maintain or change their identity. When a cell enters mitosis to divide, it experiences what Dr. Apostolou describes as "a temporal identity crisis," because most of its molecular features become lost or perturbed. How cells reset and remember their identity after mitosis is still largely unknown.



"Understanding cell identity is fundamental to understanding disease, as many, including cancer and some neurological diseases, are the result of cell identity being lost," explains Dr. Apostolou. When cells undergo mitosis and divide, it is during this "fuzzy window" of time that Dr. Apostolou has set her sights. Mitosis may be an "identity crisis" for the cell, but it has clearly become a window of "opportunity" for Dr. Apostolou and her team. "We want to understand and, ultimately, hijack this short time window to either prevent aberrant cell fate transitions that could result in disease, or to purposely push cell identity

towards becoming a particular cell type of therapeutic interest -- such as a specialized cardiac cell."

"There is a phenomenon known as mitotic bookmarking that occurs on the chromatin of a cell, and we have recently discovered a few novel bookmarks that are involved in helping a cell to maintain its identity." The bookmarks (proteins and histone marks retained on selected parts of the mitotic genome) that Dr. Apostolou and team have uncovered using pluripotent stem cells, were shown to confer epigenetic memory; essentially, they served as the cell's memory banks. To prove this, the team degraded (removed) certain proteins from the cell specifically during exit from mitosis, which resulted in cells that could not remember aspects of their own identity. These groundbreaking findings were published in 2017 in *Cell Reports*.

"It's fun to see the genomics data go in and the maps come out," says Dr. Apostolou, as she examines a mathematically-based, 3-dimensional genetic model on her computer screen. Until recently, researchers have thought of the genetic elements of cellular activity as being linear — envisioning it as a molecular process in which an enhancer (a short strand of DNA that serves as a regulatory hub) influences genetic activity in a tightly-knit, side-by-side process. "In truth," says Dr. Apostolou, "We are seeing that activity inside the cells is like a hierarchically-organized chromatin spaghetti that is packed inside a 3-dimensional nucleus in the cell. There are many layers to it. It's not linear."

In fact, there are many enhancers that instead of controlling the most proximal gene, they establish contacts and regulate more distal genes by skipping multiple genes in between. Therefore, appreciating and mapping the 3D chromatin organization in somatic and pluripotent stem cells will enable a more accurate annotation of the functional genome itself and the various genetic points involved in a particular diseases. This is of major significance since the pluripotent stem cells that Dr. Apostolou studies have the ability to transform into any kind of cell in the body, which could be used for the prevention and treatment of many diseases.

Dr. Apostolou has funding from the NIH, the Edward Mallinckrodt, Jr. Foundation, and the Tri-Institutional Stem Cell Initiative. The Tri-Institutional Stem Cell Initiative has allowed her to meet with researchers from the three institutions: Weill Cornell Medicine, Memorial Sloan-Kettering Cancer Center, and Rockefeller University.

"Stem cell researchers from all three medical centers meet every two weeks," says Dr. Apostolou. "We learn about their amazing research, and we exchange ideas and expertise. That's how incredible collaborations start."



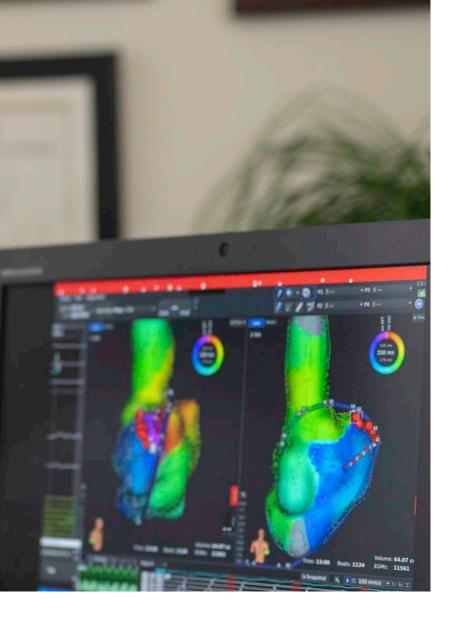
After completing his fellowship training at Weill Cornell Medicine (WCM) in cardiovascular medicine and cardiac electrophysiology, Dr. James Ip joined the Division of Cardiology in the Weill Department of Medicine in 2011 – the same year he was named the Bruce B. Lerman Clinical Scholar. Since then, Dr. Ip has become one of New York City's most sought after physicians for the treatment of heart disease.

He has performed thousands of procedures at WCM and is considered one of the highest volume implanters in New York for the Subcutaenous Implantable Cardioverter Defibrillator (S-ICD) system, which is used to protect against Sudden Cardiac Arrest (SCA). Dr. Ip is also one of the country's leading implanters and evaluators of the Leadless Cardiac Pacemaker (a heart pacemaker without wires). Dr. Ip's unique training has allowed him to provide patients with state-of-the-art expertise not only as applied to the structural aspects of heart disease and implantable devices, but also in terms of the electrophysiology of the heart muscle itself.

Although much is written for the public about the heart's four-chamber structure and the blood flow that continually enters and leaves the heart, patients are sometimes surprised to learn that the heart is as much an electrical organ of the body as it is a pump. In fact, the heart cannot pump blood until it receives an electrical signal from the two nodes that are positioned within the heart's right atrium (upper right

chamber). One of these nodes called the sinoatrial node is referred to as "the pacemaker of the heart" and coordinates the heart's contractions. When electrical signals are not functioning correctly, the heart's rhythm is no longer controlled properly and a patient may experience fainting, light-headedness, or weakness.

Fortunately, for many years, people have been living well with pacemakers. Although the first cardiac pacemakers of yesteryear were much more cumbersome than today's smaller and sleeker versions, usually there is still a need for implantable leads, or wires, to be placed within the heart. However, technological advancements are making implantable devices an easier option for patients today, explains Dr. Ip, and "especially for those who may not be able to tolerate invasive procedures or develop complications from devices with wires that are not working as well as hoped. Furthermore, newer technology may provide physicians with more flexibility on how the heart can be stimulated."



A pioneer in the safety and efficacy of implantable devices for the heart, Dr. Ip has been continuously testing, implementing, and evaluating new devices through clinical trials. He has been bringing advancements form these clinical trials to the patient care setting. One of his main areas of focus at WCM has been studying the leadless (without wires) pacemaker, which he has been able to offer to appropriately indicated patients. In 2015, Dr. Ip helped to publish a groundbreaking paper in The New England Journal of Medicine (September 17, 2015) on the world's first leadless pacemaker as part of the St. Jude Medical sponsored LEADLESS II Clinical Trial. The study involved a miniaturized device, smaller than the size of a AAA battery, placed directly into the right ventricle through a vein in the leg using a steerable catheter. As the study's Principal Investigator at WCM (the study included 50 U.S. medical centers), Dr. Ip was excited to be part of an investigation that proved a less invasive pacemaker could "carry out the function of a traditional pacemaker using a minimally invasive approach with potential short and long-term advantages."

On the heels of this advance, Dr. Ip is now enrolling for a new trial sponsored by EBR Systems, which expands the technology used for Cardiac Resynchronization Therapy (CRT) (stimulation of two sides of the heart simultaneously to enhance performance of a weak heart). The study is evaluating a revolutionary new

approach for cardiac pacing known as wireless cardiac stimulation technology. Their device uses ultrasound waves to transfer energy through the body -- instead of using wires – and is able to be placed at any location within the heart. The ultrasound wave is picked up by a receiver electrode in the heart that converts it into an electrical pulse to pace the heart. The company has enlisted Dr. Ip to serve as the Principal Investigator at WCM to evaluate this novel CRT device. The portion of the device that is placed in the heart is the size of a grain of rice, and the transmitter is placed underneath the skin along the chest wall.

"The transmitter detects a signal from an existing pacemaker device placed on the right side of the heart and immediately sends an ultrasound pulse to the receiver electrode, which is placed on the left side of the heart," explains Dr. Ip. "The receiver then changes the ultrasound energy to an electrical stimulating pulse, and the heart is then paced from two angles inside the heart in order to maintain correct electrical synchronization."

As with all implantable devices for the heart, whether with or without leads, the ultimate goal is to bring the best benefits to the patient: that is, returning to daily activities (e.g., walking or climbing stairs), easier breathing, less swelling in the body, and improved quality and quantity of life.

In addition to furthering advances in implantable devices, Dr. Ip continues to follow other lines of study and is currently researching a nasal medication spray for the treatment of supraventricular tachycardia (a rapid heartbeat). He has also revealed seminal findings regarding the mechanism of arrhythmias (an out of rhythm heartbeat). He also maintains an active program translating findings from human electrical disease into mouse models to study arrhythmias.

"It is gratifying to see our patients return to their lives having benefited from the use of state-of-the-art cardiac devices," says Dr. Ip. "I expect to see positive advances ahead with the wireless CRT device as we investigate over the next several years."

Kidney Fibrosis and a Novel Pathway Discovered

Dr. Mary E. Choi



As far back as Dr. Mary Choi can remember, she has been intrigued by the kidney. "The kidney is a very metabolically active organ, and its pathways are complex, which makes research in this field very interesting and this drives my passion to understand how the kidney works," explains Dr. Choi, Professor of Medicine, Division of Nephrology and Hypertension. An authority on TGF- β (a cytokine transforming growth factor implicated in kidney disease) and RIPK3 (a receptor-interacting protein gene), Dr. Mary Choi's research has been focused on kidney disease for more than two decades. Her most recent advances in the laboratory have led to an NIH-funded grant from the National Heart, Lung and Blood Institute that will enable her to continue her breakthrough studies on kidney fibrosis. Fibrosis, which means scarring, is a process that can overtake an organ, such as the kidney or the lung. Resulting from damage caused by diabetes, hypertension, and other chronic diseases, fibrosis can cause organ failure and be life-threatening.

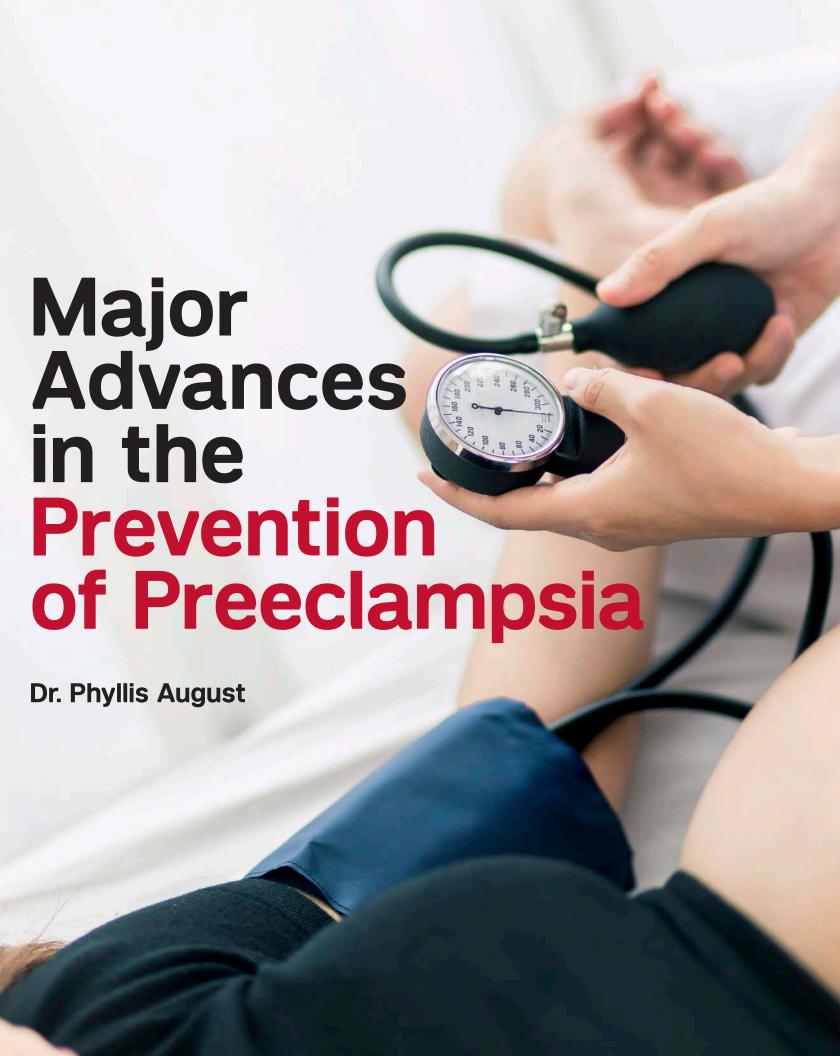
In late 2017, in response to the NIH's Request for Application, Dr. Choi had presented preliminary data based upon her work on a newly defined fibrosis pathway, which resulted in swift funding from the NIH in the amount of \$2.1 million over four years. On the heels of this good news, Dr. Choi and colleagues published a paper in the *Journal of Clinical Investigation Insight*, entitled, "RIPK3 promotes kidney fibrosis via AKT-dependent ATP citrate lyase." The paper revealed breakthrough findings on the necroptosis pathway. It was previously known that necroptosis, similar to apoptosis, is responsible for a cell death process. However, in Dr. Choi's study, it was demonstrated that the necroptosis pathway not only caused cell death, it also caused fibrosis. Furthermore, it was shown that this activity works through the fatty acid pathway. Additionally, it was established that ACL (a metabolic enzyme) plays a unique role in the regulation of fibroblasts and connective cell tissue production. Thus, the research suggests that by inhibiting the actions of ACL, there could be therapeutic benefits for patients with kidney fibrosis.

"Our target is now the necroptosis pathway, and we are envisioning inhibitors of that pathway to prevent the progression and further formation of fibrosis," says Dr. Choi. "We have done a good job controlling sugar and blood pressure for our patients who have diabetic kidney disease, but we have had difficulty getting directly to the scarring (or fibrosis) with effective medication, and, globally, fibrosis that leads to chronic kidney disease remains a huge public health concern. There has been a lot of interest in developing therapies for fibrosis, but the medications to date have not achieved a cure."

After a patient undergoes a kidney transplant, they may still develop fibrosis, or scarring of the kidney due to a host of causes that include having to take immunosuppressive drugs. "All of our patients come in for a cure of their illness, but then they can later develop these chronic illnesses that involve fibrosis. The formation of fibrosis is a challenge, but we must do all that we can to prevent patients from getting to that difficult end-stage of fibrosis. We want to understand the fundamental mechanism in the development of fibrosis, and we want to make a difference in patient treatment," says Dr. Choi.

Dr. Choi's research on kidney fibrosis has led to press coverage in *Crain's New York Business, Health Pulse* in the November 21, 2017 edition, and, at the invitation of the New York Academy of Sciences (NYAS), she recently presented her work at the NYAS symposium, "Advances in Translational Models to Study Fibrosis," held at the World Trade Center in New York City.





The medical condition, preeclampsia, can appear during a woman's pregnancy much like a bolt of lightning. In fact, the term derives from the Greek word, "eclampsia," meaning lightning. Although it can occur earlier during a pregnancy, preeclampsia typically happens after the seventh month. Any woman who has preexisting high blood pressure (HBP), kidney disease, or diabetes, is at risk for experiencing preeclampsia during a pregnancy. A condition specific only to pregnancy,

preeclampsia is diagnosed by elevated blood pressure and high levels of protein in the urine. Preeclampsia is potentially life-threatening for both mother and baby, and, in its severest state, a woman can have a seizure or stroke.

As a medical topic, preeclampsia has attracted increasing press coverage in recent years, but Dr. Phyllis August has been driving critical advances for the prevention of preeclampsia for more than two decades. A premier authority on the subject, she is a Professor of Medicine and the Ralph A. Baer Professor of Medical Research in the Division of Nephrology and Hypertension. Throughout her career she has garnered many honors, including the Preeclampsia Foundation's "Saving Grace" award in recognition of physicians who provide exemplary care of women with hypertensive disorders of pregnancy.

"If a patient has preexisting hypertension, or high blood pressure, then we follow her immediately. Step one, she is put on baby aspirin," explains Dr. August. Twenty-five years ago, Dr. August worked on the definitive clinical trial that used baby aspirin for the prevention of preeclampsia in pregnant women, and it has since become a standard treatment in patient care. By 2004, Dr. August had published a landmark paper in the *American Journal of Obstetrics and Gynecology* that

formulated an algorithm to predict preeclampsia in women with chronic hypertension. Funded by the National Institutes of Health (NIH), she and colleagues had assessed three critical factors — systolic blood pressure, serum uric acid, and plasma renin activity all measured at 20 weeks of pregnancy, identified women with an increased risk of developing preeclampsia. At that time, predictive strategies for preeclampsia had not been successful so far; therefore, Dr. August's research was helping to establish a new clinical guideline for the prediction, and ultimately, prevention of preeclampsia. It also opened the door to additional discoveries regarding one of the categories used in the study— the renin angiotensin system, a hormone-based system that regulates blood pressure and body fluids.

"There are still unanswered questions we need to solve in order to provide the best patient care we can for the prevention of preeclampsia," says Dr. August. She emphasizes that "any pregnant woman with preexisting high blood pressure is automatically in a high risk category." In fact, a pregnant woman with preexisting high blood pressure has five times the risk for developing preeclampsia during her pregnancy, approximately

a 15 to 20 in 100 chance, and this, as compared to a healthy woman who has only a 2 to 3 in 100 chance.

Continuing her research on the renin angiotensin system over the past decade, in 2012 Dr. August published a pivotal paper in the journal of *Hypertension* that revealed more seminal findings. It determined angiogenic factors implicated in preeclampsia, as well as solidified the conclusion that particular measurements involved in the renin angiotensin system can assist with

diagnosing preeclampsia in women with chronic hypertension.

In 2018, Dr. August, along with a new recruit to the division, Dr. Line Malha, will be publishing another landmark paper in *Hypertension*, entitled "Renin-Angiotensin-Aldosterone Profiles in Pregnant Women with Chronic Hypertension." Although there has been much documented in the medical literature on the renin angiotensin system in pregnancy, its exact effects have remained controversial over the years. With this recent paper, the study explores the association between sodium (salt) retention and the elevation of blood pressure in preeclampsia, and specifically as it relates to the renin angiotensin system.

Dr. August shares that she expects further critical findings in a year or two regarding blood pressure measurements in pregnant women who have preexisting high blood pressure. "As we work to prevent preeclampsia, right now we don't have a definitive answer on how far blood pressure can be lowered in a mother without adversely affecting the unborn baby. To ensure safety for both mother and baby, this is a critical question and its answer will define clinical guidelines for physicians." To that end, Dr. August is currently serving as the Site Principal Investigator at Weill Cornell for a multicenter NIH-funded study, entitled, CHAP

(Chronic Hypertension Associated Preeclampsia), that includes thousands of women with chronic hypertension in pregnancy.

Dubbed the "silent killer," hypertension affects more than one billion people worldwide. It is rare to find a center at any medical center in the nation designated specifically for hypertension. The Hypertension Center, within the Division of Nephrology and Hypertension, is one of a few hypertension practices in the U.S. dedicated to the investigation and treatment of all forms of hypertension. Located on the Weill Cornell campus at 424 East 70th Street, its physicians on staff include Dr. August, and longtime champions in the field of hypertension, Dr. Mark Pecker and Dr. Samuel Mann, and Rosemerie Marion, ANP. The team recently welcomed Dr. Line Malha, who completed her fellowship at Weill Cornell and trained with Dr. August. Dr. Malha is seeing patients and is carrying out research in the laboratory.

"We are thrilled to have a young and talented new recruit join our team, representing a new generation in medicine," says Dr. August. "It's an exciting time for further progress in the field of hypertension and for the prevention and treatment of preeclampsia."



Dr. Phyllis August has been driving critical advances for the prevention of preeclampsia for more than two decades.



"A dream team of junior faculty has emerged at the Center for Global Health, and 2017 was a particularly great year for their research endeavors," says Dr. Daniel W. Fitzgerald, a Professor of Medicine in the Weill Department of Medicine (WDOM), and Director of the Center for Global Health at Weill Cornell Medicine.

During the early days of Dr. Fitzgerald's fellowship training in the 1990s in the Division of Infectious Diseases, WDOM, he was based in Haiti and received mentorship from Dr. Jean W. Pape, Weill Cornell Professor of Medicine. Dr. Pape is a world-renowned authority on HIV/AIDS who was trained in the 1980s by Dr. Warren D. Johnson, Jr., a former Chief of the Division of Infectious Diseases and currently the Co-Director of the Center for Global Health. For the past 15 years, Dr. Fitzgerald has been training clinician-scientists at Weill Cornell (United States), and in Haiti and Tanzania. He is a leader and physician-

investigator with many areas of study that include HIV/AIDS, tuberculosis (TB), and schistosomiasis.

Over the decades, faculty in the Center have upheld a longstanding tradition of nurturing each new generation of global health investigators. Initially established as the WDOM's Division of International Medicine in 1979, the Center for Global Health was renamed in 2009 in recognition of its role in fostering multidisciplinary collaborations between WDOM faculty from multiple divisions. The Center for Global

Health now has 14 core faculty members and 30 collaborating members from the WDOM's Divisions of Clinical Epidemiology and Evaluative Sciences, Emergency Medicine, General Internal Medicine, Infectious Diseases, and Nephrology and Hypertension.

Defined by a commitment to serving the underserved, scholarship, and a spirit of adventure, the Center's faculty work around the globe includes Haiti, Tanzania, India, and Brazil. They continue to tackle the health challenges of the

"It is our responsibility to impart what we have learned over the years to each new generation."

Dr. Fitzgerald



The many generations of leaders in global health at Weill Cornell: L-R: Drs. Pape, Fitzgerald, Johnson, Mathad.

21st century from HIV/AIIDS, to maternal-child health, and cardiovascular disease. To provide some perspective on the enormity of that task in just one country – of the 49 million people living in

Tanzania, approximately 34 million will never see a doctor in their lifetime.

"I benefited greatly from the expertise of both Dr. Pape and Dr. Johnson during my days in fellowship training. Today, I am pleased to carry on a tradition of mentorship, whether that be academically, clinically, or in the field carrying out research. It is our responsibility to impart what we have learned over the years to each new generation, as well as to afford these outstanding trainees all the career opportunities we can," explains Dr. Fitzgerald.



2017 was a banner year for junior faculty at the Center of Global Health. A reflection of their success can be measured in the amount of funding they received in support of their wideranging projects: collectively, their studies garnered nearly 12 million dollars in funding.

Dr. Jennifer Downs received the prestigious Doris Duke Award. Dr. Downs is carrying out research in Mwanza, Tanzania, where she has collaborated for 10 years with faculty at the Weill Bugando School of Medicine. She had rotated at Weill Bugando Medical Centre during her days as a medical resident and began

research there as a Weill Cornell infectious diseases fellow. Her group in Tanzania has recently documented that being infected with schistosome parasites increases the risk of a woman becoming HIV-infected by 3-fold.

"In the Doris Duke project, we seek to understand the mechanisms by which women with schistosome infections are at increased risk of HIV acquisition," explains Dr. Downs. "We are studying immune cells, gene expression, and microbiota in the female genital tract of women with schistosome infections. We are also studying the effect of praziquantel treatment of the schistosome infection on these changes in the genital tract. The knowledge gained from this study will help us to optimize treatment recommendations for women with schistosome infections, with the goal of preventing new HIV infections."

Dr. Molly McNairy and Dr. Robert Peck submitted their first R01s to the National Institutes of Health (NIH) during 2017, and both received outstanding percentile scores well within the funding range. With support from the NIH, Dr. McNairy

will study cardiovascular disease in Haiti, and Dr. Peck is focused on primary care delivery systems in Tanzania.

"Cardiovascular disease is the most common cause of adult mortality in Haiti, having surpassed HIV," explains Dr. McNairy. "Our study will be the first longitudinal cohort study to evaluate cardiovascular risk factor and diseases in Haiti. We will establish a population-representative sample of approximately 3,000 adults from Port au Prince and follow them for up to five



Dr. Jennifer Downs

years to measure the prevalence and incidence of risk factors including hypertension, renal disease, obesity, diabetes, poor diet, physical inactivity, inflammation and diseases including myocardial infarction, heart failure, arrhythmias and cardiac death." Dr. McNairy's preliminary data suggests that poverty-related social and environmental determinants may be drivers of



Dr. Molly McNairy (second from R) with Drs. Pape, Pierre, and Rouzier.



the epidemic. Her project includes a vast multidisciplinary team of physicians, spanning global health, general internal medicine, cardiology, and epidemiology.

Dr. Peck, who trained in 2003 at the Weill Cornell program in Haiti as a medical student, is now a WDOM assistant professor and serves as the site director of the Weill Cornell-Weill Bugando



Dr. Robert Peck

collaboration in Tanzania. Dr. Peck states that "from our work in Tanzania, we have found that hospitalized HIV-infected patients, who are being discharged home frequently, do not link to the outpatient HIV primary care clinic." Because of this factor, 25% die within one-year after hospital discharge. Dr. Peck's research project, in collaboration with the Tanzanian Ministry of Health, involves a randomized clinical trial of a social worker intervention, which, in his pilot studies, has shown improved linkage to primary care and survival rates. The ultimate goal is to develop a simple model of care for hospitalized HIV-

infected adults that can be scaled up in all hospitals in Tanzania and other Sub-Saharan African countries. "Improving posthospital care for HIV-infected adults could save several hundred thousand lives across Africa each year," notes Dr. Peck.

Also garnering funding from the NIH, Dr. Kathryn Dupnik and Dr. Jyoti Mathad have received their first K23 grants. Dr. Dupnik, who is currently based in New York City, will be training in the conduct of research on recurrent tuberculosis (TB) in HIV-infected people. "This opportunity will help to prepare me for a career

as an independent physician-scientist focused on translational laboratory research," explains Dr. Dupnik. "HIV-infected adults who develop TB once are more susceptible to develop TB a second time, even after successful treatment of their HIV with antiretroviral drugs. I will study HIV-infected people with and without recurrent TB to identify immune changes that predict

> which HIV-infected people are most susceptible to TB. This work will lead to interventions to prevent repeat episodes of TB."

Dr. Mathad, who has been working in India over the past eight years, is focused on TB in women during pregnancy. "Of the 3.7 million women diagnosed with active tuberculosis (TB) in 2016, 70% were in their reproductive years. The current challenge is to determine if and why pregnancy makes women more vulnerable



Dr. Kathryn Dupnik

to TB and finding a way to protect them," says Dr. Mathad. Dr. Mathad has documented that the immune response to TB is significantly weaker during pregnancy. With her K23 award in India, where TB is endemic, she will become the first to detail the specific changes that pregnancy causes in a woman's response to TB infection. She will also identify

specific immune changes in pregnancy that correlate with the development of active postpartum TB in HIV-infected women. Her work will help to identify the pregnant women most likely to develop active TB and improve the diagnosis and prevention of TB in mothers and their infants.

"Our dream team is focused on many of the toughest healthcare challenges of today, as they bring solutions to underserved communities all around the world. We look forward to their future discoveries," says Dr. Fitzgerald.

Leadership

Anthony Hollenberg, M.D.

Sanford I. Weill Chair of Medicine

Dr. Anthony Hollenberg is the Sanford I. Weill Chair of Medicine in the Joan and Sanford I. Weill Department of Medicine at Weill Cornell Medicine and the Physician-in-Chief at NewYork-Presbyterian Hospital. Dr. Hollenberg received his M.D. from the University of Calgary in Canada in 1986. He completed his Internal Medicine residency in 1989 and was Chief Resident in Medicine from 1990 to 1991 at the Beth Israel Hospital. Dr. Hollenberg then completed a fellowship in Endocrinology, Diabetes, and Metabolism at Massachusetts General Hospital in 1993 and was recruited back to Beth Israel to start his laboratory. From 2011 until his recruitment to Weill Cornell Medicine and NewYork-Presbyterian Hospital, Dr. Hollenberg was Chief of the Division of Endocrinology, Diabetes and Metabolism, at Beth Israel Deaconess Medical Center and Director of Clinical and Translational Research Training Programs at Harvard Catalyst and Harvard Medical School where he was also a Professor of Medicine. Dr. Hollenberg's research focuses on the hormonal regulation of metabolism, with a particular

emphasis on the role of thyroid hormone. His work has important ramifications for the regulation of body weight and metabolism. Additionally, his laboratory focuses on understanding thyroid gland development and the possibilities for regenerative medicine.



John Leonard, M.D.
Executive Vice Chair
Vice Chair for Clinical Research

Dr. John P. Leonard is the Vice Chair of Clinical Research in the Weill Department of Medicine, a role in which he is advancing the broad mission of the department, as well as the parent institutions of Weill Cornell Medical College and NewYork-Presbyterian Hospital. He is also the Associate Dean of Clinical Research at WCMC. He serves as Chief of the Lymphoma Service and as Associate Director for Clinical Research of the Weill Cornell Cancer Center. The Richard T. Silver Distinguished Professor of Hematology and Medical Oncology, Dr. Leonard is an innovative, internationally recognized clinical investigator in the field of hematological malignancies. He is a pioneer in the development of novel

therapeutics in lymphoma, and is one of the leaders of the national lymphoma clinical trials effort as leader of the Lymphoma Committee for the Alliance for Clinical Trials in Oncology, which is part of the National Clinical Trials Network of the National Cancer Institute. Dr. Leonard has spearheaded many innovative initiatives in the Weill Department of Medicine to facilitate cutting-edge patient-oriented research.

Orli Etingin, M.D.Vice Chair for Faculty

Dr. Orli Etingin is the founder and Medical Director of the Iris Cantor Women's Health Center at NewYork-Presbyterian/Weill Cornell Medical Center, a multidisciplinary group practice sponsored by the Departments of Dermatology, Medicine, Obstetrics and Gynecology, Radiology, Surgery and Urology. She is the Lisa and Sanford B. Ehrenkranz Professor of Clinical Medicine at Weill Cornell Medical College and serves as Vice Chair for Faculty with the Weill Cornell Department of Medicine. Dr. Etingin's clinical expertise is in internal medicine and coagulation disorders, such as blood clotting in pregnancy. Dr. Etingin received her undergraduate degree from Johns Hopkins University. After receiving her M.D. from Albert Einstein College of Medicine in New York, she completed residency training in Internal





Medicine, subspecialty training in Hematology-Oncology and a Chief Residency at New York Hospital - Cornell Medical Center. As the recipient of an NIH Clinical Investigator Award from 1987 to 1992, she conducted basic scientific research on thrombosis in vascular cells, leading to numerous publications in the journals Cell, Biochemistry, and Journal of Clinical Investigation. Dr. Etingin is listed in Who's Who, Castle Connolly's Best Doctors Guides and US News Top Doctors. She was the associate editor of the Textbook of Women's Health, a comprehensive manual for physicians in the field. A frequently invited speaker at women's health symposia, she has served as Moderator of the annual Women's Health Symposium at NewYork-Presbyterian Hospital since 1998 and as Moderator of the annual Women and the Brain Conference since 2006. Dr. Etingin is a member of the American Medical Women's Association and the American Medical Association. She is the editor of two nationally distributed newsletters, Women's Health Advisor and Women's Nutrition Connection, and a contributor to Everyday Health.



Steven Lipkin, M.D., Ph.D.

Vice Chair for Basic and Translational Research

Steven M. Lipkin, M.D., Ph.D., Professor of Medicine, Division of Gastroenterology and Hepatology, is the Vice Chair for Basic and Translational Research. Dr. Lipkin works with departmental and divisional leadership to enhance and foster the research activities of our faculty and trainees. A nationally and internationally regarded leader in the field of adult genetics, he was recently elected as a Member of the American Society of Clinical Investigation. His research focuses on genetic testing for hereditary cancer disorders, including the Lynch Syndrome, Familial Adenomatous Polyposis, and Hereditary Pancreatic Cancer, among others. He is an authority on cancer genetic syndromes, with a particular emphasis on hereditary gastrointestinal cancer syndromes, and authored MAPP-MMR, a bioinformatic program that is used to interpret whether Lynch syndrome missense variants are

deleterious mutations or benign polymorphisms. Dr. Lipkin has more than 60 published papers in the top peer-reviewed journals and is the author of The Genome Generation: Tales From the Front Lines of Genetic Medicine, published in 2016 by Beacon Press. Dr. Lipkin has practiced at NewYork-Presbyterian Hospital/Weill Cornell Medical College since 2009. He trained in Internal Medicine at Duke University and in Medical Genetics at the National Human Genome Research Institute, where he performed post-doctoral work in the laboratory of Francis Collins, now Director of the NIH.

Susana R. Morales, M.D. Vice Chair for Diversity

Dr. Susana Morales serves as the Vice Chair for Diversity in the Weill Department of Medicine. An Associate Professor of Clinical Medicine, Dr. Morales joined the Weill Cornell Medicine faculty in 1998 and is the Associate Director of the Housestaff Training Program in Internal Medicine. She obtained her M.D. from the Columbia University College of Physicians and Surgeons, and completed residency training in Internal Medicine at the Presbyterian Hospital of the City of New York. In the Division of General Medicine at Columbia Presbyterian Medical Center, Dr. Morales had served as Assistant Division Director for Education and Training. She has served as a member of the governing Council of the Society of General Internal Medicine (SGIM) and on the Advisory Boards of the Commonwealth Fund's "Bettering the Health of Minority Americans" program and the National Hispanic Medical Association. She is also a board member of both the United Hospital Fund and the Latino Commission on AIDS and has served on the NYS Council on Graduate Medical Education. Her honors include: J. James Smith

Memorial Award (presented annually by the Weill Cornell house staff), National Medical Fellowships



Community Service Award, and "Senior List" (selected by four graduating Weill Cornell Medical College classes). In 2013, Dr. Morales received the Pioneers in Diversity/Bruce Laine Ballard M.D. Award for Excellence in Mentoring, presented by the Office of Faculty Diversity in Medicine and Science, Weill Cornell Medical College. In 2015, she received the prestigious Elnora M. Rhodes SGIM Service Award.





Robert S. Brown, Jr., M.D., M.P.H.

Vice Chair of Transitions of Care

Vice Chair for Mentorship and Academic Development

Dr. Robert S. Brown, Jr. is the Gladys and Roland Harriman Professor of Medicine and Clinical Chief of the Division of Gastroenterology and Hepatology, as well as Vice Chair of Transitions of Care for the Department of Medicine. Dr. Brown is also the Director of the Center for Liver Disease and Transplantation at NewYork-Presbyterian Hospital. He has been part of the liver transplant effort at Weill Cornell part-time since 1999 and joined the faculty full-time in 2015. The liver transplant program gained Medicare approval in its first year and is on pace to start living donor liver transplantation and to reach 50 transplants per year. Dr. Brown is heavily involved in clinical research. He received his B.A. from Harvard College, M.D. from New York

University, and his M.P.H. from the Graduate School of Public Health, University of California, Berkeley. He completed his internship in medicine at Beth Israel Hospital, Boston, and a fellowship in gastroenterology and hepatology at the University of California, San Francisco. An internationally recognized expert in liver disease and liver transplantation, he has co-authored more than 150 peer-reviewed articles mostly dedicated to viral hepatitis and liver transplantation. He is an Associate Editor for Hepatology and Gastroenterology and Hepatology and published a book, Common Liver Diseases and Transplantation: An Algorithmic Approach to Work-up and Management. Dr. Brown is the recipient of a Young Investigator Award from the American Society of Transplant Physicians, the Senior Attending Teacher Award from Columbia University Medical Center, and the American Liver Foundation New York Chapter's Physician of the Year.

Judy Tung, M.D.

Chair of Medicine at NYP/Lower Manhattan Hospital

Dr. Judy Tung is the Chair of the Department of Medicine at the NewYork-Presbyterian/Lower Manhattan Hospital (NYP/LMH). She is also Section Chief of Ambulatory Medicine in the Division of General Internal Medicine. Dr. Tung obtained her M.D. from the Albert Einstein College of Medicine of Yeshiva University in 1997 and completed her internal medicine residency training at the University of California, San Francisco in 2000. She served for one year as a Chief Resident in Primary Care Internal Medicine at New York University before joining the faculty at NewYork-Presbyterian Hospital/Weill Cornell Medical College in 2001. Dr. Tung served as the Director of Weill Cornell Internal Medicine Associates (WCIMA) and as Interim Chief of the Division of Internal Medicine from 2009-2016. She has also held many other leadership positions at Weill Cornell, including Director of the Primary Care Residency, Associate Director of the Internal Medicine Residency, and Associate Chair of Educational Affairs. As a respected educator, Dr. Tung has received a J. James Smith Teacher of the Year



Award, a Primary Care Teaching Excellence Award, and she is on the Dean's List for teaching excellence. A leading expert in general internal medicine, Dr. Tung has spoken nationally on innovative models of primary care, including the Hospital Medical Home and the ambulatory teaching practice. Additionally, she is a champion for faculty development and co-teaches the Leadership in Academic Medicine Program (LAMP). Dr. Tung's life's work is the cultivation of individuals to their highest potential.





Dr. Kirana GudiVice Chair of Education

As Vice Chair of Education, Dr. Gudi oversees a broad range of training programs and works closely with the department to advance its educational mission in furthering faculty development. She is an Assistant Professor of Medicine in the Division of Pulmonary and Critical Care Medicine and the Program Director of the department's residency training program in internal medicine. She received her medical training on the Weill Cornell campus beginning with an M.D. from Weill Cornell Medical College. She served as a Chief Resident and completed her residency training, as well as a fellowship in Pulmonary and Critical Care Medicine, at NewYork-Presbyterian Hospital/Weill Cornell Medical Center. Dr. Gudi maintains

an active outpatient pulmonary practice, attends on the Inpatient Pulmonary Consult and the ICU Consult services, and is a passionate advocate of medicine and medical education.

Jennifer Lee, M.D.Vice Chair for Quality and Patient Safety

Dr. Jennifer I. Lee serves as Vice Chair for Quality and Patient Safety (QPS) in the Weill Department of Medicine. An Associate Professor of Clinical Medicine and a hospitalist in the Division of General Internal Medicine, Dr. Lee's focus is the education of students, residents and faculty in quality improvement and safety science to ensure high quality, high value care delivery for patients in both the inpatient and outpatient settings. Her collaborations with the NewYork-Presbyterian Hospital's Division of Quality and Patient Safety, Weill Cornell Medicine Physician Organization QPS, and Weill Department of Medicine aim to align improvement efforts across the institution. She designed and co-chairs the Quality Improvement/Patient Safety (QIPS) committee and spearheaded the launch of an advanced QI faculty development program in an effort to develop a pathway for promotion for junior faculty through academic achievement in QI. Board certified in internal medicine and pediatrics, Dr. Lee earned her M.D. degree from the State University of New York Buffalo School of Medicine and Biomedical Sciences, and completed her combined Internal Medicine and Pediatrics Residency at Mount Sinai Medical Center in New York City. She has completed training through Greater New York Hospital Association/United Hospital Fund's Clinical Quality Fellowship Program and Institute for Healthcare Improvement's Improvement Advisor professional development program among others. Her research interests include reducing readmissions, improving multidisciplinary care transitions and high value care. She has shared her work in QI education and readmissions at outside institutions on expert panels and grand rounds. She was awarded the AAMC Learning Health Systems Champion Research Award in 2014 and featured as the Research on Care Community's Member spotlight. Dr. Lee's work has been published in the Journal of Hospital Medicine and Academic Medicine, and she co-authored a white paper on the role of the hospitalist in care transitions with the New York Chapter of the American College of Physicians.





Joseph T. Cooke, M.D.
Chairman of Medicine at NYP/Queens
Vice Chair, Weill Department of Medicine

Joseph T. Cooke, M.D. serves as the Chairman of the Department of Medicine at NewYork-Presbyterian/Queens and as Vice Chairman of the Weill Department of Medicine. Beginning with internship and residency, Dr. Cooke has had numerous roles in his 30 years at NewYork-Presbyterian Hospital/Weill Cornell Medicine. Before joining NewYork-Presbyterian/Queens, Dr. Cooke, an Associate Professor of Clinical Medicine and Public Health, was the department's Chief of the Division of Pulmonary and Critical Care Medicine, Chairman of the General Faculty Council, and Chief Quality and Patient Safety Officer for the NewYork-Presbyterian Hospital/Weill

Cornell Medical Center. Board certified in internal medicine, pulmonary disease, and critical care medicine, Dr. Cooke is a fellow of the American College of Chest Physicians and the American College of Physicians. He earned an undergraduate degree in Biology with honors from New York University and obtained his M.D. from SUNY Downstate. He and Dr. Vlad Kvetan founded and co-chaired the Critical Care Leadership Network of GNYHA (2006-2009). He continues to serve on the Medical Advisory Board for the New York Organ Donation Network, and has previously served on the Institute of Medicine's subcommittee on organ donation after cardiac death. In addition to earning numerous teaching awards at Weill Cornell, Dr. Cooke has been honored with the NYPH Physician of the Year Award, the New York Weill Cornell Center Alumni Council Award for Outstanding Service, and the Lorraine Tredge Award from HHC for leadership in quality and patient safety. At the 2008 HRSA National Learning Congress, he was named one of 11 national champions for his work in organ donation for NewYork-Presbyterian Hospital/Weill Cornell Medical Center.

Stephen J. Peterson, M.D., M.A.C.P.Chairman of Medicine at NYP/Brooklyn Methodist Hospital Vice Chair, Weill Department of Medicine

Stephen J. Peterson, M.D., M.A.C.P., has been Chair of the Department of Medicine at NewYork-Presbyterian/Brooklyn Methodist Hospital and as a Professor of Clinical Medicine at Weill Cornell Medical College since August of 2013. He is also the Assistant Dean of Weill Cornell Medical College for the NYPBMH Campus. Dr. Peterson is certified by the American Board of Internal Medicine, and has a wealth of experience in the field of medicine. He is particularly renowned, however, for his basic science research in the field of obesity. He has over 120 publications in peer-reviewed journals and has been awarded the coveted titles of Master of the American College of Physicians, Fellow of the American Heart Association, and Fellow of the New York Academy of Medicine. He is a former President of the New York Chapter of the American College of Physicians. Dr. Peterson is dedicated to teaching and has numerous teaching awards from four institutions over 35 years. He has been named 2017 Top Doctor in Brooklyn, New York.





Thomas A. McGrath, M.B.A. Chief Administrative Officer

Thomas A. McGrath, M.B.A., serves as the Chief Administrative Officer for the Weill Department of Medicine. Mr. McGrath directs administrative and business activities within the department, including finance, accounting, research administration, clinical operations, capital planning, ITS, academic appointments and education. Before joining Weill Cornell Medicine, Mr. McGrath served as Chief Operating Officer at the University of Miami Health System, Director of Finance and Administration for the Department of Medicine at Stanford University, and Vice President and UCH Officer of the Comer Children's Hospital at The University of Chicago. He holds a B.A. and an M.B.A. from the University of Illinois.

Honors & Awards

Research Awards

The Department of Medicine Annual Investigators Award

This award is presented annually to members of the Department of Medicine below the rank of professor who perform on outstanding levels in the areas of clinical and/or basic biomedical research. Supported by the Michael Wolk Foundation.

Winner

Jihye Yun, Ph.D.

Topic: Vitamin C selectively kills KRAS and BRAF and mutant colorectal cancer cells by targeting GAPDH Division: Hematology & Medical Oncology

Runners-Up

Eftychia Apostolou, Ph.D.

Topic: Role of Mitotic Bookmarking on Cell Fate Decisions Division: Hematology & Medical

Division. Hematology &

Oncology

Jyoti S. Mathad, M.D., M.Sc.

Topic: Reduced IFN-g and IL-2 production causes discordant latent TB tests in pregnant women Division: Infectious Diseases

The David E. Rogers Memorial Research Award

This award was established in 1995 to encourage medical residents to continue their investigative research in internal medicine. Four finalists are chosen to present their research at Medical Grand Rounds. The award was founded and is chaired by Holly S. Andersen, MD, Director

of Education and Outreach at The Ronald O. Perelman Heart Institute (and Associate Attending Physician at NewYork-Presbyterian Hospital and Associate Professor of Clinical Medicine at Weill Cornell Medical College) and is funded by the Holly Andersen Heart Foundation.

Winner

Thomas Nicholson, M.D.

Topic: Plasma trail levels are associated with severity of sepsis and predict survival after critical illness

First Runner Up

Harpreet Bhatia, M.D.
Topic: Four-Tier Classification of
Pulmonary Artery Metric Severity for
Diagnosis and Prognosis of Pulmonary
Hypertension

Runner Up

Zaid Al Marzooq, M.D.

Topic: Risk Factors for 'Microsize' versus usual Myocardial Infarctions in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study

The Department of Medicine Annual Fellow in Research Award

Initiated in 2002, the Fellow Award in Research is presented annually to fellows within the Weill Department of Medicine who have presented outstanding research.

Winner

Benjamin Leach, M.D.
Topic: Targeting WNT Signaling in
Colorectal Cancer

Finalists

Jonathan Lin, M.D.

Topic: Plasma Cell Acute Rejection: Molecular Signatures and Druggable Targets

Cristobal Risquez, M.D.

Topic: Mast Cell Exosomes in Cell-to-Cell Communication: Role in Pulmonary Fibrosis

Visiting Professors

Dr. Robert C. and Veronica Atkins Foundation Curriculum in Metabolic Disease Lecture February 8, 2017 Brian Wansink, M.D., Ph.D. Cornell University

Sass Vising Professor March 29, 2017 Thorson Zenz, M.D. University Hospital Heidelberg, Germany

Lila A. Wallis, M.D. Distinguished Visiting Professor in Women's Health May 3, 2017 Gayatri Devi, M.D. Lenox Hill Hospital/Northwell Health Downstate Medical Center

B.H. Kean - Boxer Family Foundation Lecture in Global Health October 11, 2017 Kathleen Neuzil, M.D. University of Maryland School of Medicine

Ralph L. Nachman, MD Distinguished Visiting Professor November 8, 2017 Mark Kahn, M.D. Perelman School of Medicine, University of Pennsylvania



Arthur Ashe Endowment-Christopher L.
Barley, MD Lecturer
December 13, 2017
Demetre Daskalakis, M.D., M.P.H.
Deputy Commissioner, Division of
Disease Control,
New York City Department of Health and
Mental Hygiene
Icahn School of Medicine at Mount Sinai

Endowed Professorships & Chairs

Dr. Ronald D. Adelman

Emilie Roy Corey Professor in Geriatrics and Gerontology

Dr. David Artis

Michael Kors Professor in Immunology

Dr. Louis J. Aronne

Sanford I. Weill Professor of Metabolic Research

Dr. Phyllis August

Ralph A. Baer Professor of Medical Research

Dr. Ann B. Beeder

Jeanette and Jeffrey Lasdon Associate Professor of Clinical Public Health and Psychiatry

Dr. Julie Blander

Gladys and Roland Harriman Professor of Immunology in Medicine

Dr. Carl Blobel (HSS)

Virginia F. and William R. Salomon Chair in Musculoskeletal Research

Dr. Jon David Blumenfeld (Rogosin Institute)

Maxwell Professor of Clinical Medicine

Dr. Robert Brown Jr.

Gladys and Roland Harriman Professor of Medicine

Dr. Lewis C. Cantley

Meyer Directorship Endowed Chair

Dr. Mary E. Charlson

William T. Foley Distinguished Professor in Medicine

Dr. Augustine M.K. Choi

Stephen and Suzanne Weiss Dean, Weill Cornell Medicine

Dr. David E. Cohen

Vincent Astor Distinguished Professor of Medicine

Dr. Mary K. Crow (HSS)

Joseph P. Routh Professor of Rheumatic Diseases in Medicine

Benjamin M. Rosen Chair in Immunology and Inflammation Research

Dr. Ronald G. Crystal

The Bruce Webster Professor of Internal Medicine

Dr. Andrew J. Dannenberg

Henry R. Erle, MD-Roberts Family Professor of Medicine

Dr. Orli R. Etingin

Lisa and Sanford B. Ehrenkranz Professor in Women's Health

Dr. Douglas Fearon

Walter B. Wriston Professor of Pancreatic Cancer Research

Dr. Joseph J. Fins

E. William Davis, MD Professorship of Medical Ethics

Dr. Richard R. Furman

Morton Coleman M.D. Distinguished Associate Professor of Medicine

Dr. Roy M. Gulick

Rochelle Belfer Professorship

Dr. Barbara Hempstead

O. Wayne Isom Professor of Medicine

Dr. Anthony Hollenberg

Sanford I. Weill Chair of Medicine Weill Department of Medicine

Dr. Julianne L. Imperato-McGinley

The Abby Rockefeller Mauzé Distinguished Professorship in Endocrinology in Medicine

Dr. Lionel B. Ivashkiv (HSS)

David H. Koch Chair for Arthritis and Tissue Degeneration Research Richard L. Menschel Research Chair

Dr. Elizabeth Leef Jacobson

Ehrenkranz Family/Orli R. Etingin, MD Associate Professor in Women's Health

Dr. Warren D. Johnson, Jr.

B. H. Kean Professor of Tropical Medicine

Dr. Yoon Kang

Richard P. Cohen, MD Associate Professor of Medical Education

Dr. Harvey Klein

The William S. Paley Professor of Clinical Medicine

Dr. Gary Koretzky

Frank H.T. Rhodes Distinguished Professor in Cardiovascular Biology and Genetics

Dr. Mark S. Lachs

The Irene F. & I. Roy Psaty Distinguished Professor of Clinical Medicine

Dr. John P. Leonard

Richard T. Silver Distinguished Professor of Hematology and Medical Oncology

Dr. Bruce B. Lerman

Hilda Altschul Master Professor of Medicine

Dr. Steven M. Lipkin

Gladys and Roland Harriman Professor of Medicine

Dr. Lia S. Logio

Herbert J. and Ann L. Siegel Distinguished Professor of Medicine

Dr. C. Ronald MacKenzie (HSS)

C. Ronald MacKenzie, MD, Chair in Ethics and Medicine

Dr. Fernando J. Martinez

Bruce Webster Professor of Internal Medicine

Dr. Bassem M. Masri

Daisy and Paul Soros/Recanati-Kaplan Family Assistant Professor in Preventive Cardiology

Dr. Ari Melnick

Gebroe Family Professor of Hematology-Oncology

Dr. Henry W. Murray

Arthur R. Ashe, Jr. Professor of Medicine

Dr. David M. Nanus

Mark W. Pasmantier Professor of Hematology and Oncology in Medicine

Dr. Stephen A. Paget (HSS)

Stephen A. Paget, MD, Chair in Rheumatology

Dr. Jean William Pape

Howard and Carol Holtzmann Professor in Clinical Medicine

Dr. Alessandra B. Pernis (HSS)

Peter Jay Sharp Chair in Lupus Research

Dr. Geoffrey Pitt

Ida and Theo Rossi Distinguished Professor of Medicine

Dr. Holly G. Prigerson

Irving Sherwood Wright Professor in Geriatrics

Dr. Shahin Rafii

Arthur B. Belfer Professor in Genetic Medicine

Dr. M. Carry Reid

Irving Sherwood Wright Associate Professor in Geriatrics and Gerontology

Dr. Linda Russell (HSS)

The Anne and Joel Ehrenkranz Chair in Perioperative Medicine

Dr. Monika Safford

John J. Kuiper Professor of Medicine

Dr. Jane E. Salmon (HSS)

Collette Kean Research Chair

Dr. Ellen J. Scherl

Jill Roberts Associate Professor of Inflammatory Bowel Disease

Dr. Sergio Schwartzman (HSS)

Franchellie M. Cadwell Chair

Dr. Manish Shah

Bartlett Family Associate Professor of Gastrointestinal Oncology

Dr. Eugenia L. Siegler

Mason Adams Professor of Geriatric Medicine

Dr. Harsimran Singh

David S. Blumenthal Assistant Professor of Medicine

Dr. Kotha Subbaramaiah

Jack Fishman Professor of Cancer Prevention

Dr. Manikkam Suthanthiran

Stanton Griffis Distinguished Professor of Medicine

Dr. Scott Tagawa

Richard A. Stratton Associate Professorship in Hematology and Oncology

Dr. Harold E. Varmus

Lewis Thomas University Professor of Medicine

Clinical Scholars

The Clinical Scholar Endowment is designed to provide outstanding junior faculty members in the Department of Medicine with financial support early in their careers. Support is provided specifically to help young physicians balance patient care with research and teaching. The awards allow junior faculty to make a commitment to academic medicine and, as a result, support promising new talent.

Dr. Eleni Andreopoulu

Madeline and Stephen Anbinder Clinical Scholar in Hematology/Oncology

Dr. Leandro Cerchietti

Raymond and Beverly Sackler Research Scholar

Dr. Jennifer Downs

Friedman Research Scholar

Dr. James E. Ip

Bruce B. Lerman Clinical Scholar

Dr. Robert J. Kaner

James P. Smith M.D. Scholar

Dr. Maria G. Karas

Michael Wolk Heart Foundation Clinical Scholar in Cardiology

Dr. Laura Kirkman

William Randolph Hearst Foundation Clinical Scholar in Microbiology & Infectious Diseases

Dr. Sonal Kumar

Anne and Ken Estabrook Clinical Scholar in Gastroenterology

Dr. Veronica M. LoFaso

Roland Balay Clinical Scholar

Dr. Peter Martin

Charles, Lillian, and Betty Neuwirth Clinical Scholar in Oncology

Dr. Margaret L. McNairy

Bonnie Johnson Sacerdote Clinical Scholar

Dr. Sonal Mehta

Joachim Silbermann Family Clinical Scholar in Geriatric Palliative Care

Dr. Ana Molina

Anne Moore M.D. Clinical Scholar in Hematology-Oncology

Dr. Karin-Elizabeth Ouchida

Joachim Silbermann Family Clinical Scholar in Geriatrics

Dr. Sharda D. Ramsaroop

Joachim Silbermann Family Clinical Scholar

Dr. Sarah Rutherford

John P. Leonard, M.D./Gwirtzman Family Research Scholar in Lymphoma

Dr. Selin Somersan-Karakaya

Nan and Stephen Swid Research Scholar

Dr. Amir Soumekh

Linda Horowitz Cancer Research Foundation Clinical Scholar in Gastroenterology

Teaching Awards

Leonard P. Tow Humanism Award

Dr. Susan Ball

The House Staff Teaching Award

Dr. Peggy Leung

Senior List

Dr. Amiran Baduashvili

Dr. Vishal Dodia

Dr. Brian Eiss

Dr. Ernie Esquivel

Dr. B. Robert Meyer

Dr. Anthony Ogedegbe

Dr. Jonathan St. George

Dr. Alice Tang

First Year Teaching Award

Dr. Amir Soumekh

Second Year Teaching Award

Dr. Juliet Aizer

Volunteer Clinical Faculty Award of Alpha Omega Alpha

Dr. Catherine Hart

The Richard A. Herrmann, M.D. Teaching Award

Dr. Ernie Esquivel

Education Innovation Award

Dr. Andrew I. Schafer

Excellence in Teaching Awards

Dr. Juliet B. Aizer

Dr. Inmaculada de Melo-Martin

Dr. Brenna M. Farmer

Dr. Margaret Hurley

Dr. Sydney Katz

Dr. Veronica M. LoFaso

Dr. Carl F. Nathan

Dr. Alice Tang

The National Academy of Medicine (NAM)

Dr. Jeremiah A. Barondess (NY Academy of Medicine)

Dr. Lewis C. Cantley

Dr. R. Gordon Douglas, Jr.

Dr. Joseph J. Fins

Dr. Laurie H. Glimcher (Dana Farber)

Dr. Antonio M. Gotto, Jr.

Dr. Gary A. Koretzky

Dr. Ralph L. Nachman

Dr. Carl F. Nathan

Dr. Jean W. Pape

Dr. Andrew I. Schafer

Dr. David J. Skorton

Dr. Harold E. Varmus

Association of American Physicians

Dr. Jeremiah A. Barondess (NY Academy of Medicine)

Dr. Jose Baselga (MSKCC Affiliate)

Dr. Carl P. Blobel (HSS)

Dr. Mary E. Charlson

Dr. Augustine M.K. Choi

Dr. Bayard D. Clarkson (MSKCC Affiliate)

Dr. Ronald G. Crystal

Dr. Andrew J. Dannenberg

Dr. R. Gordon Douglas, Jr.

Dr. James A. Fagin (MSKCC Affiliate)

Dr. Daniel Fitzgerald

Dr. Michael Glickman (MSKCC Affiliate)

Dr. Laurie H. Glimcher (Dana Farber)

Dr. Antonio M. Gotto, Jr. (Dean Emeritus)

Dr. Roy M. Gulick

Dr. Katherine A. Hajjar (secondary apt)

Dr. Barbara L. Hempstead

Dr. Anthony Hollenberg

Dr. Alan N. Houghton (MSKCC Affiliate)

Dr. Julianne L. Imperato-McGinley

Dr. Lionel B. Ivashkiv (HSS)

Dr. Warren D. Johnson, Jr.

Dr. Philip W. Kantoff (MKSCC Affiliate)

Dr. Attallah Kappas (Rockefeller

Affiliate-Emeritus)



- Dr. Gary Koretzky
- Dr. Mary Jeanne Kreek (Rockefeller Affiliate)
- Dr. James Krueger (Rockefeller Affiliate)
- Dr. Ross L. Levine (MSKCC Affiliate)
- Dr. Paul A. Marks (MSKCC Affiliate)
- Dr. Fernando Martinez
- Dr. Ari M. Melnick
- Dr. Henry W. Murray
- Dr. Ralph L. Nachman
- Dr. David M. Nanus
- Dr. Carl Nathan (secondary appt)
- Dr. Kenneth Offit (MSKCC Affiliate)
- Dr. Eric G. Pamer (MSKCC Affiliate)
- Dr. Cam Patterson
- Dr. Geoffrev Pitt
- Dr. Marcus M. Reidenberg
- Dr. Neal Rosen (MSKCC Affiliate)
- Dr. Jane E. Salmon (HSS Affiliate)
- Dr. Charles L. Sawyers (MSKCC Affiliate)
- Dr. Andrew I. Schafer
- Dr. David A. Scheinberg (MSKCC Affiliate)
- Dr. Gregory Siskind
- Dr. Wadi N. Suki (Baylor)
- Dr. Manikkam Suthanthiran
- Dr. Marcel R.M. van den Brink (MSKCC
- Affiliate)
- Dr. Thomas J. Walsh
- Dr. Babette B. Weksler
- Dr. Marc E. Weksler
- Dr. Sidney J. Winawer (MSKCC Affiliate)
- Dr. Jedd Wolchok (MSKCC Affiliate)
- Dr. Alastair J. J. Wood (Courtesy)

The American Society for Clinical Investigation

- Dr. Abdul B. Abou-Samra (Hamad Medical
- Corporation Affiliate)
- Dr. Jose Baselga (MSKCC Affiliate)
- Dr. Richard S. Bockman (HSS Affiliate)
- Dr. Renier J. Brentjens (MSKCC Affiliate)
 Dr. Sarat Chandarlapaty (MSKCC Affiliate)
- Dr. Ping Chi (MSKCC Affiliate)
- Dr. Augustine M.K. Choi
- Dr. Bayard D. Clarkson (MSKCC Affiliate)
- Dr. David E. Cohen
- Dr. Ronald G. Crystal
- Dr. Andrew Dannenberg
- Dr. R. Gordon Douglas, Jr. (Emeritus)
- Dr. James A. Fagin (MSKCC Affiliate)
- Dr. Daniel W. Fitzgerald
- Dr. Edward Paul Gelmann (Columbia
- Affiliate)
- Dr. Michael S. Glickman (MSKCC Affiliate)
- Dr. Laurie H. Glimcher (Dana Farber)
- Dr. Antonio M. Gotto, Jr. (Dean Emeritus)
- Dr. Roy M. Gulick
- Dr. Katharine A. Hajjar
- Dr. Barbara L. Hempstead
- Dr. Tobias M. Hohl (MSKCC Affiliate)
- Dr. Peter R. Holt (Rockefeller Affiliate)
- Dr. Alan N. Houghton (MSKCC Affiliate)
- Dr. Katherine C. Hsu (MSKCC Affiliate)
- Dr. Lionel B. Ivashkiv
- Dr. Eric A. Jaffe (Adjunct)
- Dr. Attallah Kappas (Rockefeller Affiliate -
- Emeritus)
- Dr. Richard N. Kolesnick (MSKCC Affiliate)
- Dr. Gary Koretzky
- Dr. James G. Krueger (Rockefeller Affiliate)
- Dr. Ola C. Landgren (MSKCC Affiliate)
- Dr. Jeffrey C. Laurence
- Dr. John P. Leonard
- Dr. Ross L. Levine (MSKCC Affiliate)
- Dr. Steven M. Lipkin

- Dr. Paul A. Marks (MSKCC Affiliate)
- Dr. Ari M. Melnick
- Dr. Henry W. Murray
- Dr. Thangamani Muthukumar
- Dr. Ralph L. Nachman
- Dr. David M. Nanus
- Dr. Carl F. Nathan
- Dr. Kenneth Offit (MSKCC Affiliate)
- Dr. Eric G. Pamer (MSKCC Affiliate)
- Dr. Cam Patterson
- Dr. Alessandra B. Pernis (HSS Affiliate)
- Dr. David N. Posnett (Emeritus)
- Dr. Shahin Rafii
- Dr. Marcus M. Reidenberg
- Dr. Kyu Y. Rhee
- Dr. Arleen B. Rifkind
- Dr. Charles M. Rudin (MSKCC Affiliate)
- Dr. Michel Sadelain (MSKCC Affiliate)
- Dr. Charles L. Sawyers (MSKCC Affiliate)
- Dr. Andrew I. Schafer
- Dr. David A. Scheinberg (MSKCC Affiliate)
- Dr. Kendall A. Smith
- Dr. David Solit (MSKCC Affiliate)
- Dr. Manikkam Suthanthiran
- Dr. Marcel R.M. van den Brink (MSKCC Affiliate)
- Dr. Alan M. Weinstein
- Dr. Babette B. Weksler
- Dr. Marc E. Weksler
- Dr. Jedd Wolchok (MSKCC Affiliate)
- Dr. Alastair J.J. Wood (Courtesy)

^{*}deceased

Castle Connolly Top Doctors

(This list is based on an online search of Castle Connolly America's Top Doctors conducted as of March 2018. It does not reflect Castle Connolly metro listings. This list includes physicians who hold titles in the Weill Department of Medicine.)

Allergy & Immunology

Dr. Daniel A. Burton

Dr. Michael J. Chandler

Dr. Amy Lichtenfeld

Cardiac Electrophysiology

Dr. Jim Cheung

Dr. James Ip

Dr. Bruce Lerman

Dr. Steven M. Markowitz

Dr. David J. Slotwiner (NYP/Queens)

Dr. Miguel Valderrabano (Houston Methodist)

Cardiovascular Disease

Dr. Olakunle Akinboboye (NYP/Queens)

Dr. Holly Andersen

Dr. James A. Blake

Dr. David Blumenthal

Dr. Robert D. Campagna

Dr. Adam Deutsch

Dr. Richard B. Devereux

Dr. Hajir E. Dilmanian (NYP/Brooklyn

Methodist)

Dr. Timothy C. Dutta

Dr. Jeffrey D. Fisher

Dr. Kenneth W. Franklin

Dr. Richard M. Fuchs

Dr. Jeremiah Gelles (NYP/Brooklyn Methodist)

Dr. Harvey L. Goldberg

Dr. Kirsten O. Healy

Dr. John F. Heitner (NYP/Brooklyn Methodist)

Dr. Evelyn M. Horn

Dr. John T. Hsueh (NYP/Queens)

Dr. Lawrence A. Inra

Dr. Mazen O. Kamen

Dr. Robert J. Kim

Dr. Paul Kligfield

Dr. Karla M. Kurrelmeyer (Houston Methodist)

Dr. John J. Mahmarian (Houston Methodist)

Dr. Bassem M. Masri

Dr. Ellen Mellow

Dr. David H. Miller

Dr. Richard L. Mueller

Dr. Sherif F. Nagueh (Houston Methodist)

Dr. Martin R. Post

Dr. Craig M. Pratt (Houston Methodist)

Dr. Miguel A. Quinones (Houston

Methodist)

Dr. Mary J. Roman

Dr. Howard S. Rubin (Houston Methodist)

Dr. Steven J. Siskind (NYP/Queens)

Dr. Allison Spatz

Dr. Theodore Tyberg

Dr. Michael J. Wolk

Dr. Hooman Yaghoobzadeh

Dr. William A. Zoghbi (Houston Methodist)

Endocrinology, Diabetes, and Metabolism

Dr. Richard Bockman

Dr. Dale J. Hamilton (Houston Methodist)

Dr. Barry J. Klyde

Dr. Daniel L. Lorber (NYP/Queens)

Dr. Andrew J. Martorella

Dr. Steven M. Petak (Houston Methodist)

Dr. Richard J. Robbins (Houston

Methodist)

Joseph M. Tibaldi (NYP/Queens)

Family Medicine

Dr. Thomas G. Molnar (NYP/Queens)

Dr. George J. Kessler

Gastroenterology

Dr. Paul M. Basuk

Dr. Robert S. Brown, Jr.

Dr. Michael C. Cantor

Dr. Bradley A. Connor

Dr. Robert B. Cooper

Dr. Gulchin A. Ergun (Houston Methodist)

Dr. Howard Goldin

Dr. Michel Kahaleh

Dr. Arnon Lambroza

Dr. James D. Lax

Dr. Susan L. Lucak

Dr. Franklin Marsh. Jr.

Dr. Paul Miskovitz

Dr. Jerry Nagler

Dr. Michel E. Nussbaum (NYP/Queens)

Dr. James A. Rand (NYP/Queens)

Dr. Moshe Rubin (NYP/Queens)

Dr. Ellen Scherl

Dr. Michael J. Schmerin

Dr. Felice Schnoll-Sussman

Dr. Won Sohn (NYP/Brooklyn Methodist)

Dr. Meyer N. Solny

Dr. Arnold L. Weg

Dr. Gil Weitzman

Geriatric Medicine

Dr. Ronald D. Adelman

Dr. Mark S. Lachs

Dr. Sonal S. Mehta

Dr. Barrie Lynn Raik

Dr. Bharathi Raman

Dr. Eugenia L. Siegler

Dr. George E. Taffet (Houston Methodist)

Hematology

Dr. Perry Cook (NYP/Brooklyn Methodist)

Dr. Maria De Sancho

Dr. David Dosik (NYP/Brooklyn Methodist)

Dr. John P. Leonard

Dr. Ruben Niesvizky

Dr. Raymond D. Pastore

Dr. Gail J. Roboz

Dr. Andrew Schafer

Dr. Koen W. Van Besien

Dr. David J. Wolf

Hospice & Palliative Medicine

Dr. Cynthia X. Pan (NYP/Queens)

Infectious Disease

Dr. Barry Brause

Dr. Ashley L. Drews (Houston Methodist)

Dr. Victor N. Fainstein (Houston

Methodist)

Dr. Marshall J. Glesby

Dr. David C. Helfgott

Dr. Harold W. Horowitz (NYP/Brooklyn

Methodist)

Dr. Jonathan L. Jacobs

Dr. Jason S. Kendler

Dr. Chester W. Lerner (NYP/Lower

Manhattan)

Dr. Henry W. Murray

Dr. Fernando A. Pujol-Morato (NYP/Brooklyn

Methodist)

Dr. Howard E. Rosenberg

Dr. Sorana Segal-Maurer (NYP/Queens)

Dr. Paul T. Smith Dr. Rosemary Soave

Dr. Ole Vielemeyer

Internal Medicine

Dr. Monica Altman Dr. Louis J. Aronne

Dr. Christopher L. Barley

Dr. Allan E. Beyda (NYP/Queens)

Dr. Richard P. Cohen

Dr. Symra A. Cohn

Dr. Arturo Constantiner (NYP/Lower

Manhattan)

Dr. Ward Cunningham-Rundles

Dr. Orli Etingin

Dr. Laura L. Fisher

Dr. Marina Gafanovich

Dr. Flavia A. Golden

Dr. Daniel Goldin

Dr. Catherine C. Hart

Dr. Matteethra C. Jacob (Houston Methodist)

Dr. Alan B. Kadet

Dr. Keith LaScalea

Dr. Meredith Lash-Dardia

Dr. Michael R. Leonard

Dr. George Liu

Dr. Bruce D. Logan

Dr. Samuel J. Mann

Dr. Jacqueline M. Mayo

Dr. Parag H. Mehta (NYP/Brooklyn Methodist)

Dr. Jennifer Meller

Dr. Mark L. Meyer

Dr. Thomas Nash

Dr. Deena J. Nelson

Dr. Sonal Parr

Dr. Mark S. Pecker

Dr. Arthur I. Radin

Dr. Jill M. Rieger

Dr. Todd L. Simon (NYP/Brooklyn Methodist)

Dr. Anthony Somogyi (NYP/Queens)

Dr. Adam R. Stracher

Dr. Jessica Weiser-McCarthy

Dr. Wendy S. Ziecheck

Interventional Cardiology

Dr. Douglas R. Bree (Houston Methodist)

Dr. Sorin J. Brener (NYP/Brooklyn Methodist)

Dr. Neal S. Kleiman (Houston Methodist)

Dr. Shing-Chiu Wong

Medical Oncology

Dr. Alan B. Astrow (NYP/Brooklyn Methodist)

Dr. Himisha Beltran

Dr. Jenny Chang (Houston Methodist)

Dr. Morton Coleman

Dr. Julian A. Decter

Dr. David C. Dosik (NYP/Brooklyn Methodist)

Dr. Howard A. Fine

Dr. Robert Gelfand

Dr. Yashar Hirshaut

Dr. Nancy E. Kemeny

Dr. Ana Molina

Dr. David M. Nanus

Dr. Allyson Ocean

Dr. Mark W. Pasmantier

Dr. Bonnie S. Reichman

Dr. Joseph T. Ruggiero

Dr. Scott T. Tagawa

Dr. Linda T. Vahdat

Nephrology

Dr. Phyllis August

Dr. Jon D. Blumenfeld

Dr. Chaim Charytan (NYP/Queens)

Dr. Marilyn Galler (NYP/Queens)

Dr. Juan J. Olivero, Jr. (Houston Methodist)

Dr. Stuart Saal

Dr. Bruce S. Spinowitz (NYP/Queens)

Dr. Lawrence E. Stam (NYP/Brooklyn

Methodist)

Dr. John C. Wang

Pulmonary Disease

Dr. Lester W. Blair

Dr. Clinton H. Doerr (Houston Methodist)

Dr. Brian D. Gelbman

Dr. Liziamma George (NYP/Brooklyn

Methodist)

Dr. Daniel M. Libby

Dr. Rameen M. Miarrostami (NYP/Brooklyn

Methodist)

Dr. Michael S. Niederman

Dr. Anthony Saleh (NYP/Brooklyn

Methodist)

Dr. Abraham Sanders

Dr. Sidney K. Stein

Dr. Dana Zappetti

Rheumatology (Hospital for Special

Surgery)

Dr. Juliet B. Aizer

Dr. Dalit Ashany

Dr. Anne R. Bass

Dr. Doruk Erkan

Dr. Theodore R. Fields

Dr. Allan Gibofsky

Dr. Susan M. Goodman

Dr. Jessica K. Gordon (HSS)

Dr. Alana B. Levine (HSS)

Dr. C. Ronald MacKenzie

Dr. Steven K. Magid

Dr. Joseph A. Markenson

Dr. Stephen Paget

Dr. Edward Parrish

Dr. Linda Russell

Dr. Lisa R. Sammaritano

Dr. Sergio Schwartzman

Dr. Robert Spiera

Dr. Richard Stern

Dr. Hendricks H. Whitman III

Dr. Arthur M. F. Yee

Sleep Medicine

Dr. Dianne M. Augelli

Dr. Ana C. Krieger

Dr. Gerard T. Lombardo (NYP/Brooklyn

Methodist)

(All honors, awards, and titles contained in the Honors & Awards section reflect information from calendar year 2017, except where noted.)



Cardiology



Bruce B. Lerman, M.D.
Chief, Maurice R. and Corinne
P. Greenberg Division of
Cardiology
Hilda Altschul Master
Professor of Medicine
Professor of Medicine
Weill Cornell Medical College
Attending Physician

NewYork-Presbyterian

Hospital

The Maurice R. and Corrine P. Greenberg Division of Cardiology is a leader in cardiovascular research, education, and clinical care. The division's mission is to remain at the forefront of scientific and technological developments that are revolutionizing cardiology and to translate these findings to the clinical bedside. Our internationally renowned programs investigate the basic mechanisms of cardiovascular disease, including the genetics of heart disease, the cellular signals and transcription factors responsible for cardiac development, the transformation and homing of stem cells for myocardial regeneration, and the delineation of the molecular bases for cardiac arrhythmias. Strategies are continually implemented to enhance physical space, expand comprehensive clinical programs and continue our history of cutting-edge research. The division continues to develop and deliver cutting-edge therapies for heart disease and to advance clinical investigation. Expert faculty provide mentoring, training and supervision to medical students, internal medicine residents and fellows in cardiology, preparing them as tomorrow's leaders. The faculty also provide a host of weekly conferences for internal and external colleagues.

From basic science, investigating the mechanisms of arrhythmias and large population-based studies of new diagnostic and therapeutic approaches, to a vast array of cardiovascular conditions and diseases, the focus is on improving patient care. This involves our faculty and all cardiology fellows-in-training, as well as postdoctoral trainees and graduate and medical students, thus creating a rich intellectual milieu in which trainees develop into experienced investigators.

Clinical services achieve superior outcomes in all areas, from interventional and imaging laboratories, to outpatient consultative and ongoing care. Patient care covers the full spectrum of heart and vascular diseases, including, but not limited

to, arrhythmias, coronary and peripheral arterial disease, valve disease, inherited heart diseases, as well as heart failure and transplantation cardiology. To facilitate immediate treatment of patients presenting in the early stages of a heart attack, there exists 24-hour, in-hospital coverage of the Cardiac Intensive Care Unit, Telemetry and Step-Down Unit and the interventional laboratory.

Dr. Geoffrey Stuart Pitt, the inaugural Director of the Cardiovascular Research Institute (CRVI), has been leading a basic and translational research program focused on cardiovascular diseases and cardiovascular sciences at WCM. Dr. Pitt's research has focused on understanding the structure and function of ion channels and their regulatory subunits in the heart and brain. He has identified several mutations that lead to inherited channel-opathies, such as ventricular tachycardia and epilepsy, and is developing potential therapies to treat these conditions.

The division's faculty had a banner year for awards, honors, and administrative appointments. Dr. Bruce B. Lerman, Division



Chief, has received the coveted 2018 Maurice R. Greenberg Distinguished Service Award, the highest honor bestowed by NewYork-Presbyterian Hospital/Weill Cornell Medical Center on a member of its professional staff. Drs. Parmanand Singh and Jiwon Kim



received K awards from the NIH. Dr. Singh also received the *Journal of Nuclear Medicine* Editor's Choice Award, and he is working on a 3-year study funded by the American Heart Association, entitled, "Impact of Aortic Wall Inflammation and Stiffness on Thoracic Aortic Growth in Marfan Syndrome." Dr. David J. Christini was named Vice Dean of Weill Cornell Graduate School of Medicine Sciences.

Many new outstanding recruits joined the division, bringing additional expertise in all areas of cardiology: Drs. Jennifer Chen, Jonathan Ginns, Parag Goyal, Hadi Halazun, Joseph Krepp, Udhay Krishnan, Tracy Paul, Sunny Shah, and Matthew Vorsanger.

Upholding the highest level of excellence, the division has been at the forefront of state-of-the-art cardiology for decades and it remains home to numerous outstanding faculty. Sadly, during 2017, the division lost two of its finest physicians.

Dr. Isadore Rosenfeld, one of Weill Cornell's premier physicians, died on January 30, 2018 at the age of 91. A cardiologist and general practitioner who worked on the Upper East Side for more than 50 years, Dr. Rosenfeld was the author of best-selling books and a beloved media personality throughout the U.S. He was the Ida and Theo Rossi Distinguished Professor of Clinical Medicine in the WDOM and a recipient of Weill Cornell's Maurice R. Greenberg Distinguished Service Award.

Dr. Rees Pritchett, a beloved physician and one of Weill Cornell's most admired ambassadors, died on March 27, 2017. Dr. Pritchett's efforts were pivotal in establishing numerous educational and research missions throughout the Weill Department of Medicine. His door was always open, and he will be remembered for his academic scholarship, dedicated service, courteous demeanor, and a sense of humor that was legendary. Dr. Pritchett was a recipient of the Maurice R. Greenberg Distinguished Service Award.



(L to R): Dr. Lerman, Maurice R. Greenberg, Corinne Greenberg, Dr. Mary Choi, Dr. Augustine M.K. Choi.

Cardiology Fellowships

- Cardiology: 3-year program that prepares highly qualified candidates for careers in investigative and clinical cardiology. Harsimran Singh, M.D., Program Director
- Clinical Cardiac Electrophysiology (CCEP): 2-year training fellowship for intensive clinical training in mapping and ablation of complex arrhythmias. Jim W. Cheung, M.D., Program Director
- Interventional Cardiology: one-year advanced training fellowship in all areas of interventional cardiology, including drug eluting stents, rotational atherectomy, thrombectomy devices, distal protection devices and intravascular ultrasound. Robert Minutello, M.D., Program Director
- Advanced Heart Failure and Transplant Cardiology: 1-year training program in the management of the advanced congestive heart failure patient population. Irina Sobol, M.D., Program Director

Clinical Epidemiology and Evaluative Sciences Research



Mary E. Charlson, M.D. Chief, Division of Clinical Epidemiology and Evaluative Sciences Research

Executive Director, Center for Integrative Medicine

William T. Foley
Distinguished Professor of Medicine

Professor of Medicine Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital



The Division of Clinical Epidemiology and Evaluative Sciences Research draws upon the talents and experience of a multidisciplinary group of faculty based at Weill Cornell Medicine, Cornell University-Ithaca, Cornell Tech, and other institutions. Faculty members are experts in qualitative and quantitative research methodology, health services research, clinical epidemiology, medical informatics, decision sciences, health disparities research, community-based participatory research, clinimetrics, outcomes research, behavioral science, and health education. They work together in a series of activities designed to encourage, and systematically support, the development of new research initiatives within, and outside, the division.

Research efforts in the division include a strong track record with the NIH and an ongoing commitment to fostering a new generation of investigators via training grants and other opportunities. As leaders in population health research, the division plays a unique role at WCM through its contributions to behavioral, health disparities, and population health, and it has enrolled more than 3,000 patients in clinical research studies. The division provides national leadership in bending the cost curve by implementing innovative and evaluative strategies for population management focused on interventions in high comorbidity patients.

Related areas of investigation include studies to improve clinical outcomes, behavioral science research, research on complex patients with a significant burden of comorbidity, and comparative effectiveness. The division seeks to stimulate and support new clinical, health services, and outcomes research within and outside of Weill Department of Medicine. Divisional faculty lead graduate training programs in clinical epidemiology and research methodology. Graduates of the Master's program have received more than \$175 million in peer-reviewed funding. Faculty in the division continue to publish top tier research papers focused on improving outcomes of patients with chronic illness.

Health Services Research Fellowship

Mary E. Charlson, M.D. Fellowship Program Chair

Carol Mancuso, M.D.

Fellowship Program Director

A 2-year training program (T32 AHRQ Fellowship Program) that trains post-residency physicians to conduct methodologically rigorous health services research in a multidisciplinary environment.

Emergency Medicine



Dr. Rahul Sharma, M.D., MBA, CPE, FACEP Chief, Division of Emergency Medicine

Associate Professor of Clinical Medicine Associate Professor of Clinical Healthcare Policy and Research Weill Cornell Medical College

Medical Director, Strategic Initiatives and Making Care Better Program

Emergency Physician-in-Chief NewYork-Presbyterian Hospital The Division of Emergency Medicine is dedicated to continually improving patient care in terms of operations, quality, patient flow, safety measures, and best practices to enhance the patient-provider relationship. Known for its outstanding patient care initiatives, a great emphasis is also placed on research and academic contributions. There are currently 60 Weill Cornell faculty members in the division who, during 2017, treated over 140,000 patients at the 68th Street and NYP-Lower Manhattan Hospital campuses.

The NYP/Weill Cornell ED is officially designated as a 911 receiving hospital, a NYS level I trauma center, a stroke center, a spinal cord injury center, and a psychiatric emergency receiving center. It is also the burn center for the City of New York, a chest pain center, and maintains one of the largest hospital-based ambulance services in the northeast that provides basic, advanced, and critical pediatric and adult pre-hospital care.

Launched in 2016, the Emergency
Department Telehealth Express Care program
continued to expand in 2017. The goal of this
novel initiative using telemedicine that allows

emergency physicians to examine patients without being in the same room was to reduce waiting times and ultimately to more efficiently care for non-urgent patients -- but without compromising patient care. In 2017 the telemedicine and digital health program expanded to include direct-to-consumer telemedicine services via the NewYork-Presbyterian OnDemand App, as well as at kiosks in select Walgreens Pharmacy locations. The ED telemedicine initiative swiftly became a model of technological progress, resulting in national recognition and numerous awards.

In 2017, Weill Cornell and LMH ED Telehealth Express Care Service was selected as the recipient of the 2017 Emergency Care Innovation of the Year Award by the Urgent Matters program at the George Washington University Center for Healthcare Innovation & Policy Research, Schumacher Clinical Partners, and Phillips Blue Jay Consulting. Drs. Rahul Sharma, Peter Greenwald, and Hanson Hsu were invited to speak about the Telehealth Express Care Service and to receive the award at the American College of Emergency Physicians (ACEP) Scientific Assembly (October 2017) held in Washington, DC. The ED Express Care program also received the 2018 Intelligent Healthcare Association (IHI) Patient Care and Healthcare Delivery Award at the Healthcare Information and Management Systems Society (HIMSS) national conference in Las Vegas, Nevada.

Research continues to grow in the Division of Emergency Medicine with a research infrastructure led by Dr. Sunday Clark, Director of Research for Emergency Medicine and Assistant Professor of Epidemiology in Medicine. For the second year in a row, the division achieved a record number of peerreviewed publications. In addition to research contributing to the scientific literature in the areas of Emergency/Critical Care, Geriatric Emergency Medicine, Global and International Health, Graduate Medical Education, and Wilderness Medicine, the division conducted

The NYP/Weill Cornell ED is officially

designated as a 911 receiving hospital, a NYS level I trauma center,

a stroke center, a spinal cord injury center, and a psychiatric emergency receiving center.

Emergency Medicine



Dr. Mary Mulcare using the tools of telemedicine.

systematic research to understand the quality and effectiveness of our telemedicine program and has been invited to participate in consensus building efforts to outline best practices in research related to telemedicine efforts. This work resulted in presentations at national scientific conferences. Telemedicine work was also featured in both the scientific literature, (e.g., New England Journal of Medicine, Annals of Emergency Medicine and JAMA), and in the lay press (e.g., The Washington Post and The Wall Street Journal).

Students explore public health policy and economic issues as they relate to telemedicine and receive an overview of the technology required for remote medical care.

The division also leads innovations in medical education. Recognizing the importance of training future physicians to understand and be comfortable with novel and growing forms of care delivery, Drs. Greenwald and Sharma established a fourth-year medical student elective at Weill Cornell Medicine – Telemedicine and Digital Healthcare – to introduce telemedicine clinical care in multiple contexts. Students explore public health policy and economic issues as they relate to telemedicine and receive an overview of the technology required for remote medical care. A central theme of the course is that telemedical care may be a new set of tools and skills, but it is a provision of medical care in other environments, and like all medical delivery, patient care by remote presence has unique strengths and weaknesses. To give students an understanding of the different aspects and considerations of telemedical care, the course focuses on three domains: clinical care, health policy and regulation, and technology.

Endocrinology, Diabetes and Metabolism



Julianne L. Imperato-McGinley, M.D. Chief, Division of Endocrinology, Diabetes, and Metabolism

Associate Dean for Translational Research and Educational Medicine

Director, Clinical and Translational Science Center (CTSC)

The Abby Rockefeller Mauzé Distinguished Professor of Endocrinology in Medicine

Professor of Medicine
Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital

As part of a world-class academic medical center, the Division of Endocrinology, Diabetes and Metabolism is dedicated to excellence in providing quality care to patients with endocrine and metabolic disorders; conducting promising research to advance the frontiers of endocrinology and diabetes; and training of highly motivated and dedicated physicians to become successful clinicians and physician-scientists. Division Chief, Dr. Julianne Imperato-McGinley serves as the Principal Investigator of the Weill Cornell NIH-funded Clinical and Translational Science Center (CTSC) promoting translation of research from bed to bedside and to the community to improve public health.

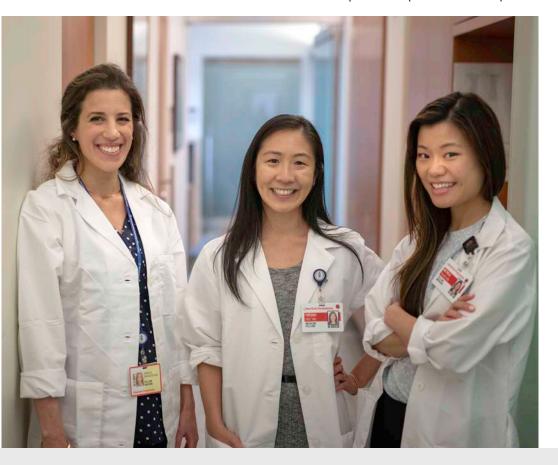
Established in 1997, the Diabetes Center in Endocrinology provides the highest standard of care for patients with type 1 and type 2 diabetes mellitus. It offers a multidisciplinary team approach for diabetes care with comprehensive case management and the development of an individualized treatment plan. An expert team is composed

of diabetologists, certified diabetes educators, and registered dieticians who are experienced in intensive diabetes management, including insulin pump therapy. The Center also has extensive experience in the management of gestational diabetes in patients with type 1 and type 2 diabetes mellitus. The Diabetes Center receives federal funding to support ongoing clinical research.

The division's areas of expertise in clinical care also include: general endocrinology; reproductive endocrinology, including the treatment of menstrual irregularities, hirsutism, and menopause; thyroid disease, with emphasis on thyroid cancer; disorders of calcium metabolism; and osteoporosis, metabolic bone disease and disorders of the pituitary and adrenal glands. Should surgery be necessary for the treatment of an endocrine disorder, we also have experienced endocrine surgeons.

The subspecialty program in Endocrinology, Diabetes and Metabolism is designed to provide the training and experience necessary to acquire all competencies critical to becoming an expert in this field. This comprehensive program fulfills the needs of trainees anticipating a clinical and/or basic endocrine research career in academia; those expecting to function as clinician-educators; and those interested in pursuing the clinical practice of endocrinology.

The division conducts promising state-of-the-art research to generate new knowledge and improve understanding with the ultimate goal of applying the latest scientific and medical advances for the prevention, detection, and treatment of patients with endocrine diseases. Major areas of research include: Clinical and Translational Science Center (CTSC), for which Dr. Imperato-McGinley serves as the Principal Investigator and Program Director of Weill Cornell Medical College's \$46 million NIH-funded Clinical and Translational Science Award (CTSA) that has been recently renewed; Molecular



Fellows in training.

Endocrinology, Diabetes and Metabolism

Genetics of Male Sexual Differentiation and Development including studies defining the genetic defects of subjects with inherited conditions affecting male sexual differentiation, particularly subjects with 5α-reductase-2 deficiency; the Molecular Genetics of 21 Hydroxylase Deficiency, identifying inherited genetic defects in the 21-hydroxylase enzyme in humans which result in genital ambiguity (genotypephenotype relationships of this condition also being studied); The Epidemiology of **Diabetes Intervention and Complications** Trial (EDIC), a continuation of the multicenter **Diabetes Control and Complications Trial** (DCCT) evaluating the effect of intensive glucose control on both microvascular and macrovascular complications of diabetes;

Endocrinology, Diabetes and Metabolism Fellowship

Aaron Schulman, M.D., Program Director

Felicia Mendelsohn Curanaj, M.D., Associate Program Director

Stephanie Fish, M.D., Associate Program Director

Richard S. Bockman, M.D., Ph.D., Associate Program Director

The Endocrinology, Diabetes and Metabolism fellowship is a joint program with NewYork-Presbyterian/Weill Cornell, Memorial Sloan-Kettering Cancer Center (MSKCC) and the Hospital for Special Surgery (HSS). It is a 2-year training program accredited by the Accreditation Council for Graduate Medical Education (ACGME).

Obesity Medicine Fellowship

Leon I. Igel, M.D., Program Director

Associate Program Directors: Rekha B. Kumar, M.D., M.S. Katherine H. Saunders, M.D. Louis J. Aronne, M.D.

Research Director: Ipana Shukla, M.D.

The Action to Control Cardiovascular Risk in Diabetes (ACCORD) trial, a multicenter study of the effects of intensive versus conventional glucose, blood pressure and lipid treatment on cardiovascular disease in 10,000 individuals with type II diabetes mellitus; multi-center PERL study (Prevention of Early Renal Loss) in Type 1 Diabetes; Quality Improvement projects including Standardizing and Streamlining the Diabetic Ketoacidosis (DKA) Guidelines in the Weill Cornell Medical ICU and the Lower Manhattan Hospital ICU, which is piloting a nurse-directed DKA protocol with insulin dosing guidelines based on current and previous blood glucose levels and a transition algorithm from intravenous to subcutaneous insulin; Molecular Basis of Sex Steroid Hormone Interaction in Prostate Diseases; and The Effects and Mechanisms of Dietary Fat in Prostate Development and Pathogenesis.

The Comprehensive Weight Control Center is directed by Louis J. Aronne, MD, Professor of Clinical Medicine and the Sanford I. Weill Professor of Metabolic Research. Dr. Aronne and the staff of 5 endocrinologists, nutrition, and obesity medicine specialists have developed and provide a unique form of "weight-centric" patient care to achieve weight loss in complex cases, which has provided the clinical foundation for the field of Obesity Medicine. The research staff runs clinical trials on the management of obesity and metabolic disease with diet, medication, and novel devices, and has fostered collaborations with multiple divisions and departments at WCM to develop cross-discipline treatment and research programs. The CWCC staff published 17 peer-reviewed journal articles and 3 book chapters in 2017. The center trains students at all levels, and mentors Master's students from the Institute for Human Nutrition, Columbia University, and WCMC medical students pursuing research experience. In 2015, the center was enlarged and remodeled and an official unveiling of the state-of-the-art facilities was held in their offices at 1165 York Avenue.

Gastroenterology and Hepatology



David E. Cohen, M.D., Ph.D. Chief, Division of Gastroenterology and Hepatology Vincent Astor Distinguished Professor of Medicine Professor of Medicine Weill Cornell Medical College

NewYork-Presbyterian Hospital

Attending Physician

The Division of Gastroenterology and Hepatology provides outstanding patient care in a wide range of subspecialty areas, including hepatology, inflammatory bowel disease (IBD), gastrointestinal reflux disease, advanced endoscopic diagnostic and therapeutic procedures, functional bowel disorders, gastrointestinal infections and gastrointestinal cancer prevention and treatment. The division houses the Jay Monahan Center for Gastrointestinal Health, Center for Liver Disease and Transplantation, and The Jill Roberts Center for Inflammatory Bowel Disease. There is also a pancreas program. Patient care addresses the prevention and treatment of viral and alcoholic hepatitis, fatty liver, obesity, gastrointestinal cancers, Barrett's esophagus, IBD, disorders of gastrointestinal motility, pancreatic lesions, gastrointestinal diseases, and more.

Numerous research projects and clinical trials are underway. Dr. David E. Cohen, Division Chief, is world-renowned for leading the frontiers of molecular regulation of nutrient metabolism and energy homeostasis by membrane lipids. His seminal advances in research are directly benefiting the clinical setting with a focus on obesity-related liver disease. Dr. Robert S. Brown, Jr., the division's Clinical Chief, continues to direct a robust liver transplant program. The Center for Liver Disease and Transplantation combines the Liver Transplantation program and Hepatitis C program within the division, as well as the Liver Transplant Surgery Division of the Department of Surgery. This interdepartmental program has laid the foundation for a comprehensive hepatology

The Jill Roberts Institute for Research in Inflammatory Bowel Disease

employs a multidisciplinary approach in translating scientific discoveries

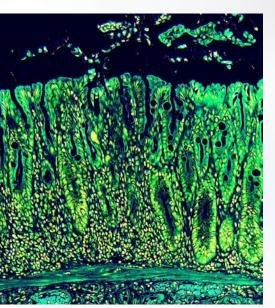
into new preventative and treatment strategies for IBD

program at Weill Cornell Medicine with clinical trials in Hepatitis B and C, fatty liver disease, and alcoholic hepatitis. In July 2017, Dr. Brown (in collaboration with Dr. Benjamin Samstein, Chief of liver transplantation and hepatobiliary surgery in the Department of Surgery at NewYork-Presbyterian/Weill Cornell Medical Center), received certification by the United Network for Organ Sharing (UNOS) in support of a new "living donor" liver transplant program that is expanding access to life-saving liver transplants for those in need.

Dr. Felice Schnoll-Sussman continues to serve as Director of the Jav Monahan Center for Gastrointestinal Health, offering a wide breadth of expertise including endoscopic ultrasound, capsule endoscopy, colorectal genetics, colon cancer prevention, endoscopic treatment of Barrett's esophagus, and esophageal motility. The Endoscopic Bariatric Program, directed by Dr. Reem Sharaiha (along with Dr. Louis Aronne, Division of Endocrinology, Diabetes and Metabolism), continues to thrive. The program provides the full spectrum of novel technologies related to endoscopic treatment of obesity. This advanced endoscopy group offers a roster including endoscopic suturing, confocal endomicroscopy for early detection of GI cancers, photodynamic therapy and radiofrequency ablation for pancreatico-biliary cancers, endoscopic drainage of pseudocysts, endoscopic necrosectomy and EUS-guided ERCP, and POEM (treatment of esophageal achalasia). Dr. Sharaiha was interviewed on NBC News about a promising weight-loss procedure that does not require incisions. This non-invasive procedure has been performed by Dr. Sharaiha, a gastroenterologist, more than 200 times and is bringing new hope for people who want to lose 40 pounds or more. The procedure, called endoscopic sleeve gastroplasty (ESG), has been added to a list of options targeted to the reduction of obesity.

The Jill Roberts Institute for Research in Inflammatory Bowel Disease employs a multidisciplinary approach in translating scientific discoveries into new preventative and treatment strategies for IBD. The close collaboration between researchers at the

Gastroenterology and Hepatology



The intestinal barrier. Image of the intestinal lining, which serves as a barrier and limits dissemination of the microbiota. Courtesy of Drs. Greg Sonnenberg and David Artis, WCM.

Roberts Institute (Director, Dr. David Artis) and clinicians at the Jill Roberts Center for Inflammatory Bowel Disease (Director, Dr. Ellen Scherl) at Weill Cornell Medicine and NewYork-Presbyterian Hospital is enabling a trend towards more personalized treatment for IBD. The Jill Roberts Center is active in research studies focused on moderate to severely active Crohn's Disease and ulcerative colitis, eating patterns and disease activity in patients with IBD, and health care maintenance in patients with IBD. Among its numerous research breakthroughs over the past several years, Dr. Artis's laboratory published a revealing study in Nature (September 2017) that showed immune system cells in the gut (group 2 innate lymphoid cells) are intertwined with nerve cells (cholinergic neurons) and function in a cellular tango to fight gut infections.

Dr. Julie Magarian Blander, an expert on the innate immune system, continues to drive new research in IBD with funding from the National Institute of Allergy and Infectious Diseases, National Institute of Diabetes and Digestive and Kidney Diseases, Burroughs Wellcome Trust Fund, and a Leukemia and Lymphoma Society Scholar Award. Dr. Andrew Dannenberg, Associate Director of Cancer Prevention, Sandra and Edward Meyer Cancer Center, continues to lead an investigation of a blood-based signature of fatty tissue inflammation in

the breast. Funded by The Prevent Cancer Foundation, the goal of this study is to develop a blood test to identify women who are at increased risk of developing breast cancer and to hopefully elucidate the role of obesity in many cancers. Dr. Steven Lipkin, a human geneticist, remains focused on biobanking initiatives and studies to identify genetic links to IBD and GI Cancers. Dr. Lipkin serves as the Vice Chair for Basic and Translational Research in the Weill Department of Medicine. Supported by a Kenneth Rainin Foundation Breakthrough Award, Dr. Iliyan Iliev, an Assistant Professor of Immunology and Microbiology in Medicine, continued his research on the role of mycobiota during immunomodulatory therapy for inflammatory bowel disease (IBD). His studies are yielding critical insights in predicting and preventing IBD.

Dr. Robert Burakoff was named Vice
Chair for Ambulatory Services for the Weill
Department of Medicine at Weill Cornell
Medicine and NewYork-Presbyterian/Weill
Cornell Medical Center, as well as Site
Chief for the Division of Gastroenterology
and Hepatology at NYP/Lower Manhattan
Hospital and Weill Cornell Medicine.
He was also named Editor-in-Chief of
Scientific American Medicine.

The division will miss one of its premier faculty members, Dr. Robert Schaefer, who died on February 12, 2018. Dr. Schaefer was a beloved physician and educator who specialized in both gastroenterology and internal medicine. An Associate Professor of Clinical Medicine, he practiced medicine for more than 50 years. He was a graduate of Columbia University College of Physicians and Surgeons and completed residency training at Vanderbilt University. The WDOM expresses its deepest condolences to Dr. Schaefer's family including his wife, Mary Jean Kreek, MD, a Senior Attending Physician and the Patrick E. and Beatrice M. Haggerty Professor at Rockefeller University.

Gastroenterology and Hepatology Fellowship

Carl Crawford, M.D. Program Director

A 3-year program that focuses on specialized rotations and research, including opportunities to participate in clinical research (e.g., hepatology, inflammatory bowel disease, cancer screening, endoscopic ultrasound, the microbiota of the GI tract, Endoscopic imaging techniques). We continue to recruit top candidates nationally and our fellows are pursuing academic careers in hepatology, advanced endoscopy, IBD, as well as other disciplines within gastroenterology.

General Internal Medicine



Monika Safford, M.D.
Chief, Division of Internal Medicine
John J. Kuiper Professor
of Medicine
Assistant Professor of Medicine (Interim)
Weill Cornell Medical College
Assistant Attending Physician
NewYork-Presbyterian Hospital

The Division of General Internal Medicine is home to Adult Internal Medicine and Hospital Medicine, with a combined staff of more than 300 employed and voluntary faculty. The division's tripartite mission is focused on providing compassionate, comprehensive, coordinated and state-of-the-art patientcentered care for every patient through evidence-based practice. The division is also dedicated to educating the next generation of internal medicine physicians and optimizing the overall health and well-being of patients and communities via collaborative research. The division's multidisciplinary faculty is deeply committed to excellence and advancement in patient care via its hospital medicine and adult internal medicine programs, resident and medical student education, and through cutting-edge research.

Dr. Monika Safford, Division Chief, joined the Department in January 2016. She is an expert in diabetes, cardiovascular epidemiology and prevention, as well as health disparities. Dr. Safford is the author of more than 300 peer-reviewed papers, receives ongoing support from the National Institutes of Health, and other sources, and has chaired several national meetings throughout her professional career.

Dr. Judy Tung is the division's Section
Chief of Adult Internal Medicine, as well as
the Chair of the Department of Medicine
at NewYork-Presbyterian/Lower Manhattan
Hospital. The Adult Internal Medicine program
includes over 40 academic full time members
who provide high-quality and comprehensive
primary care for a diverse group of patients
representing a cross section of the ethnic,
cultural, and economic diversity that is New
York City. The program integrates faculty and
trainee practices at locations on the Upper
East Side at 505 East 70th Street and 1484
First Avenue (Weill Cornell Internal Medicine



Dr. Judy Tung

Associates [WCIMA]), 1305 York Avenue, in lower Manhattan at 156 Williams Street, and at a Federally Qualified Health Center in Long Island City, Queens. Services include preventive health care, treatment of acute and chronic

illness, and coordination of care for those with medical complexity. Regardless of insurance plan type, patients seen in the adult internal medicine practices are cared for by a cadre of outstanding health care providers. This section of the division also serves as the primary hub for general medicine ambulatory education for the Internal Medicine Residency Training Program.

Dr. Fred Pelzman, Associate Professor of Clinical Medicine, serves as the Medical Director of WCIMA. He also directs the division's program for Primary Care Innovations, a philanthropically funded initiative to increase innovation in primary care.

The division is also dedicated to

educating the next generation of internal medicine physicians

and optimizing the overall health and well-being of patients and communities via collaborative research.

General Internal Medicine

Dr. Arthur Evans is the division's Section Chief of Hospital Medicine. The Hospital Medicine program includes over 60 exceptional faculty members from around the country. All faculty are board certified in internal medicine and many have additional training and subspecialty expertise, including infectious disease, emergency medicine, nephrology, critical care, medical informatics, pain management, quality improvement, and clinical research. On any



Dr. Art Evans

given day, the faculty provides care for over 200 inpatients at both the 1300 York Avenue and lower Manhattan NewYork-Presbyterian/ Weill Cornell campuses. Physicians are responsible for the general medicine house staff service, the

medicine consult service, and the medicineorthopedics trauma service, and they oversee the medicine Physician Assistants service.

The division's patient-centered research program, led by Dr. Safford, focuses on optimizing the health and functioning of people living with chronic diseases (e.g., diabetes, hypertension, heart failure, obesity,

The WCM Global Health Research Fellowship

Molly McNairy, M.D.
Division of General Internal Medicine
Program Co-Director

Daniel Fitzgerald, M.D.

Division of Infectious Diseases, Center for Global Health

Program Co-Director

This fellowship is tailored for post-residency graduates in internal medicine and seeks to train general internists for academic careers in global health research. It includes extensive field-based research in WCM programs based in Haiti, Tanzania, Brazil, and India, along with training in research methods, teaching and clinical service at NewYork-Presbyterian/Weill Cornell Medical Center.

inflammatory arthritis, cancer, chronic pain); chronic disease prevention; the elimination of health disparities and the care of vulnerable populations, both in the US and abroad; and clinical epidemiology with a focus on informing population health management. This research program is funded by the National Institutes of Health, the Patient Centered Outcomes Research Institute, the Commonwealth Fund, and private sponsors.

The research program is comprised of observational research, including an NHLBIfunded ancillary study to the REasons for Geographic and Racial Differences in Stroke (REGARDS) cohort study, which focuses on coronary heart disease endpoints and psychosocial determinants of health. This national cohort study of over 30,000 black and white community-dwelling Americans has served as the platform for numerous studies elucidating subpopulations at risk for cardiovascular disease outcomes and has allowed medical students, residents, trainees, as well as junior and more senior faculty to conduct studies. A second NHLBIfunded REGARDS ancillary study focuses on the causes and consequences of healthcare fragmentation, complemented by a Commonwealth Fund-funded large database study of healthcare fragmentation. Division investigators also lead observational studies in Haiti, seeking to improve HIV care, and in Tanzania to better understand hypertension in adolescents. In 2017, Dr. Safford was awarded a multimillion dollar 4-year grant from the NHLBI, entitled "Collaboration to Improve Blood Pressure in the U.S. Black Belt: Addressing the Triple Threat."

Extramural research also includes pragmatic trials to improve health outcomes in vulnerable populations, using trained lay individuals as the interventionist. Trials include a PCORI/NHLBI-funded hypertension study engaging 2,000 African American rural dwellers cared for at 80 primary care practices in the Southeast's Black Belt regions of Alabama and North Carolina. Another PCORI-funded trial tests peer coaching to improve medication adherence in diabetes.

Another project will develop a peer coaching intervention to improve cardiovascular risk among individuals with inflammatory arthritis. Clinician investigators in the division also lead projects encouraging cancer patients

to increase their physical activity.

The division is distinguished for its educational activities. It is home to the recently launched, Patient Activated Learning System (PALS), a patient education web-based platform developed by division members Drs. Monika Safford, Amanda Carmel, Fred Pelzman, and Sanjai Sinha, in collaboration with Weill Cornell's research librarians. The PALS provides highly engaging, easily understood, conflict-free medical information for the lay public free of charge -- palsforhealth.com. The division continues to send at least 2-3 faculty annually to the Leadership in Academic Medicine Program (LAMP) delivered on campus and directed by Dr. Judy Tung. Drs. Laura Gingras and George Bao were selected as fellows in the departmental faculty development program, Quality University, led by Dr. Jennifer I. Lee.

During 2017, the division prepared for two premier events held on campus in early 2018. The 2018 Cornell Tri-Campus Health Equity Symposium, which attracted more than 100 guests from the medical and technological sectors, was co-directed by Dr. Safford, along with Dr. Avery August (Vice Provost for Academic Affairs, Cornell University; the guest speaker was former U.S. Surgeon General, Dr. David Satcher. On January 29, 2018, the division hosted a special event -"#ProudtobeGIM." This event, held in Griffis Faculty Club with 115 attendees, covered the full spectrum of GIM, including poster sessions and networking opportunities. Additionally, the Hospital Medicine Clinical Scholars Program, founded by Arthur Evans, MD, is the first of its kind in the US. An intensive faculty development program, it fosters academic success and personal growth that focuses on five foundational skills: teaching, clinical epidemiology, quality improvement, diagnostic bedside ultrasound, and leadership.



Dr. Helene L. Strauss

An exciting new initiative is the Cornell Center for Health Equity (CCHEq), which responds directly to community priorities by focusing on practical, relevant research topics. The Center unites research experts at Weill Cornell Medicine and from Cornell University's Ithaca campus to collaborate on how to achieve health equity. The Center engages members of the public in every step of the research process, from conceptualization through dissemination and implementation. Dr. Safford is the Founding Director of this Center and also serves as a Program Leader for an area of concentration on patient-centered care and health equity that provides students access to mentors and projects involving cross-disciplinary strategies needed to address complex scenarios regarding health disparities.

Geriatrics and Palliative Medicine



Ronald D. Adelman, M.D. Co-Chief, Division of Geriatrics and Palliative Care

Medical Director, Irving Sherwood Wright Center on Aging

The Emilie Roy Corey Professor in Geriatrics and Gerontology

Professor of Clinical Medicine Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital



Mark S. Lachs, M.D., MPH Co-Chief, Division of Geriatrics and Palliative Care

Director, Geriatrics for the NewYork-Presbyterian Health System

The Irene F. and I. Roy Psaty Distinguished Professor of Clinical Medicine

Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital

The Division of Geriatrics and Palliative Medicine is guided by a patient-centered culture of care. By integrating high-quality clinical care, the teaching of geriatric and palliative medicine, and scientific research, the division seeks to improve the quality of life for older adults and for patients of all ages facing chronic illness and end-of-life. The division also supports the networks of patient families and patient caregivers.

The Irving Sherwood Wright Center on Aging serves geriatric outpatients (average age over 80). The practice is structured to meet the complex needs of older adults, together with their families and other caregivers, along with mental health professionals, geriatric nurse practitioners, social workers, and nutrition specialists, complementing the work of the geriatricians. The Center excels in patient satisfaction scores within the Ambulatory Care Network of NewYork-Presbyterian Hospital. For elderly patients too frail to come to the Wright Center, comprehensive services are provided in the home through the EGL House Call Program.

Ten board-certified physicians in palliative medicine, along with an interdisciplinary team of nurse practitioners, social workers, and a chaplain see adults of all ages in the inpatient and

outpatient settings. Dr. Milagros Silva is Medical Director of the outpatient palliative care team, working closely with WCM oncologists, to address pain and other symptom management and wellness needs for chronically ill patients. Dr. Randi Diamond, Director of The Liz Claiborne Center for Humanism in Medicine, leads a bimonthly palliative care case conference and narrative medicine groups, and she has initiated a palliative care education partnership with St. Francis Naggalama Hospital in Uganda. The Palliative Care Champions Program trains nurses and social workers throughout NYP/Weill Cornell Medical Center.

Dr. Eugenia Siegler, Mason Adams Professor of Geriatric Medicine and Medical Director of Geriatrics Inpatient Services, is completing the second year of the HIV and Aging Program, in partnership with the WCM Center for Special Studies. The program offers multisite clinical care and patient support, an arts program (in collaboration with Next Legacy Arts), and has expanded research. Dr. Siegler and program colleagues have published pivotal papers, including Preparing to Care for an Aging HIV Population and From One Syndrome to Many: Incorporating Geriatric Consultation into HIV Care, co-authored by Assistant Professor Dr. Tessa del Carmen.

The Cornell Center for Research on End-of-Life Care, co-directed by Dr. Holly Prigerson, Irving Sherwood Wright Professor in Geriatrics, Professor of Sociology in Medicine, is home to numerous NIH-funded research projects focused on factors that promote informed decisionmaking and the receipt of value-consistent, and more humane, care of patients confronting death. Evidence derived from these studies informs the development of interventions to reduce suffering in seriously ill patients. The NIA-funded Roybal Center, directed by Dr. M. Cary Reid, Irving Sherwood Wright Associate Professor in Geriatrics, investigates pain in later life and the role of palliative care in pain and symptom relief. Drs. Prigerson and Reid are co-PIs on a 5-year T32 grant from the NIH, which prepares highly qualified MDs and PhDs for successful careers in aging and palliative medicine research.

The Division is thrilled to announce its latest faculty recruit, Dr. Sara J. Czaja, who will direct the new Weill Cornell Center for Aging and Behavioral Research. Dr. Czaja is internationally renowned for her research on aging and technology and on caregiving. Until her recruitment to Weill Cornell, she served as the Director, Center on Aging, at the University of Miami. She has numerous NIH-funded projects and the Division is delighted to welcome this innovative and hugely gifted new faculty member.

The division remains dedicated to the prevention of elder abuse, exemplified by its NYC Elder Abuse Center. NYCEAC is a leader in developing innovative and effective responses to elder abuse, neglect and exploitation through an unprecedented level of collaboration and coordination between government, non-profit agencies, and financial institutions. Headed by Division Co-Chief, Dr. Lachs, The Irene F. and I. Roy Psaty Distinguished Professor of Clinical Medicine, and by Risa Breckman, LCSW, Assistant Professor of Gerontological Social Work in Medicine, NYCEAC provides a streamlined and rapid response to elder abuse cases in Manhattan and Brooklyn through its multidisciplinary teams (MDTs) and case consultations. Through its widereaching educational trainings, social media vehicles and weekly blogs, NYCEAC further engages professionals around pertinent issues confronting the elder justice field and conducts research to develop innovative practices and policies to enhance their abilities to meet the many needs of older victims.

The division's faculty trains medical residents in geriatrics and palliative medicine. During their geriatrics rotations, medical residents make hospice and geriatrics house calls; accompany geriatric care managers on client visits; visit a nursing home, an independent living site, and other levels of senior housing; see an elder abuse shelter; present cases at weekly divisional meetings during their rotation; and assist with the division's transitional care clinic, HIV/ Aging program and the Wright Center's walk-in patients. A new community partner, Lenox Hill Neighborhood House, offers an opportunity for residents to talk with older adults in a

non-clinical setting. Medical students participate in a Primary Care Clerkship, working alongside faculty members at the outpatient clinic, shadowing doctors and fellows in inpatient settings (e.g., Acute Care for the Elderly Unit and Geriatric Consultation Rounds) and with the EGL House Call team. The division also hosts the Medical Student Training in Aging Research (MSTAR)/Adelman Summer Scholarship program; selected students are immersed in clinical and didactic activities to deepen their understanding of the aging population. They also conduct research with a universal focus on aging, including presentations to the WCM community and at the American Geriatrics Society Annual Scientific Meeting.



Geriatrics Fellowship

Karin Ouchida, M.D. Program Director

Sonal Mehta, M.D. Associate Program Director

The Division houses both a Geriatrics Fellowship and, jointly with Columbia University Medical College, a Hospice and Palliative Medicine Fellowship. Based in internal medicine and family Medicine, the program includes numerous rotations, teaching opportunities, and a variety of quality improvement and clinical research initiatives in geriatrics and palliative medicine.

Hematology and Medical Oncology



David M. Nanus, M.D.Chief, Division of Hematology and Medical Oncology

Medical Director Genitourinary Oncology Program

Mark W. Pasmantier Professor of Hematology and Oncology in Medicine

Professor of Medicine Professor of Urology Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital

Director, NYPH-WCM Healthcare Services Cancer Program The Division of Hematology and Medical Oncology has 69 full-time faculty members (47 clinical practitioners/researchers and 22 full-time scientists) who provide worldclass patient care, as well as teaching and research, among six clinical services at five practice locations. The six clinical services are Solid Tumor Oncology, Leukemia, Lymphoma, Myeloma, Stem Cell Transplant, and Non-Malignant Hematology. The five primary sites of operation are NewYork-Presbyterian Hospital (NYP) Main Campus (third floor), Weill Greenberg Ambulatory Care Building, Oxford Building, the Woman's Health Center at 425 East 61st Street, and NYP/Lower Manhattan. Faculty practices have grown at two additional network sites: NYP/Brooklyn Methodist and NYP/Queens. Each diseasespecific program interacts closely with faculty in the corresponding surgical and radiation oncology departments, divisions and/or programs.

The Cancer Program at NYP/Weill Cornell Medical Center and NYP/Columbia Medical Center is consistently ranked as the number one cancer research program at an academic medical center in the New York metropolitan area by *U.S. News and World Report*. In 2017, it ranked number 22 in the country for clinical cancer care. Each service contains disease-specific programs for research and clinical care. The Solid Tumor Service has active clinical and research programs in

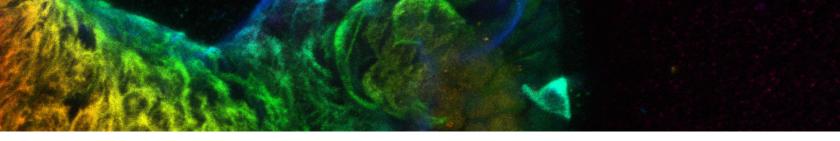
Genitourinary Oncology, and Thoracic
Oncology, with developing programs in Head
and Neck Oncology and Endocrine Oncology.
The Hematological Malignancies Program
includes Leukemia, Lymphoma, Multiple
Myeloma, and Stem Cell Transplant Services,
and the Richard T. Silver Myeloproliferative
Neoplasm (MPN) Center. Within the
Hematological Malignancies Program, there
are several specialty programs, including the
Chronic Lymphocytic Leukemia (CLL) Research
Center, the Waldenstrom's Macroglobulinemia
Program, and the Myelodysplastic Syndromes
(MDS) Clinical Research Consortium.
\$25 million in new funding for cancer

Breast Oncology, Gastrointestinal Oncology,

\$25 million in new funding for cancer and blood disease research was received in 2017. This contributed to more than 94 active research projects in the division. Clinical research programs have enrolled over 500 people in more than 100 different interventional clinical trials.

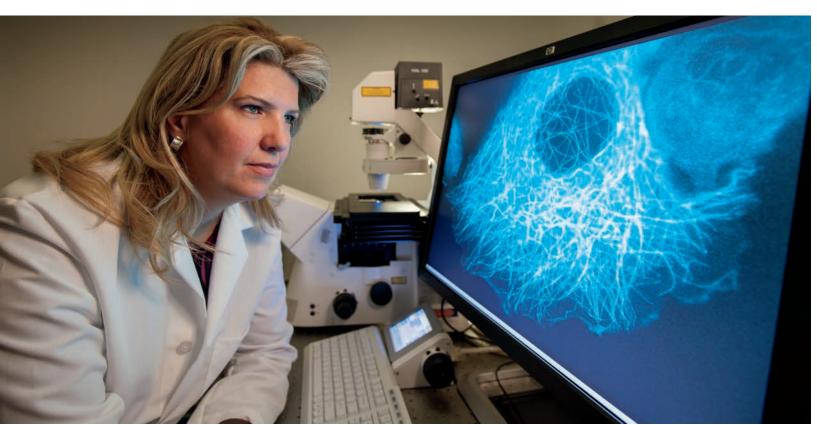
Research activities in the division include: Under Dr. Evi Giannakakou's leadership, the division has a major emphasis on translational research, which originates in the Belfer Institute of Hematology and Oncology (Meyer Building) and the Belfer Research Building. Laboratory-based faculty are involved in the translational components of numerous clinical trials, working hand-in-hand with clinical researchers and using cutting-edge technology to address oncologic questions that impact patient care and outcomes...The division maintains a central role in the growth of the Meyer Cancer Center, working with its director, Lewis Cantley, Ph.D., to recruit basic science and translational researchers, and to work towards designation as an official National Cancer Institute matrix cancer center...The Richard T. Silver, M.D. Center for Myeloproliferative Neoplasms (MPN), led by Scientific Director, Dr. Joseph Scandura, has novel research underway on neoplastic myeloid biology. The center has a clinical informatics platform, biorepository and web presence, and provides coordinated care for patients with MPNs and related non-

\$25 million in new funding for cancer and blood disease research was received in 2017. **This contributed to more than 94 active research projects** in the division.



hematologic complications. It was selected by the MPN Research Foundation Interferon (IFN) Initiative as one of only four partners uniting international experts in both blood and solid tumors...The Weill Cornell Clinical and Translational Leukemia Program, led by Dr. Gail Roboz, offers a variety of novel investigator-initiated, cooperative group, and industry-sponsored clinical trials in acute leukemia and myelodysplastic syndrome (MDS). The clinical care team runs one of the largest inpatient leukemia services in the country... The Myeloma Center leads in drug development, clinical trials, biology scholarship and translational research under the leadership of Dr. Ruben Niesvizky... The Bone Marrow and Stem Cell Transplant (BMT) Program, led by Dr. Koen van Besien, performed 187 autologous and allogeneic transplants, and 17 additional infusions, including immunotherapies such as CAR-T cells. The National Marrow Donor Program (NMDP), which oversees the largest public dataset related to bone marrow and stem

cell transplantation, determined that out of the 50 largest centers in the U.S., this BMT Program takes on the most complex and challenging patients in the country... Dr. Peter Martin leads the Lymphoma Program, which continues to grow strategically; researchers are advancing high-impact clinical trials that provide therapy for various disease subtypes...The Non-Malignant Hematology Program, led by Service Chief Dr. Maria De Sancho, delivers state-of-theart treatments for people with all types of blood disorders, including diagnostic testing and drug therapies. Efforts are underway to open a new center for blood disorders, unifying all of the non-malignant hematology practitioners under one roof...The Breast Center's breast oncology program, led by Dr. Tessa Cigler, Clinical Director, and Dr. Eleni Andreopoulou, Research Director, delivers advanced treatment and comprehensive care for patients with all stages of breast cancer and those at increased risk for developing breast cancer. The center is accredited by



Dr. Evi Giannakakou

Hematology and Medical Oncology

the National Accreditation Program for Breast Centers (NAPBC)...The triple negative breast cancer (TNBC) and survivorship programs continue to grow, along with the triple negative breast cancer registry and biobank...A research collaboration for patient-derived xenografts (PDX) to evaluate tumor behavior has been established.

Programs that continue to expand: The Gastrointestinal (GI) Oncology Program, led by Dr. Manish A. Shah, offering expertise on GI cancers; The Genitourinary Oncology Program, led by Dr. Scott Tagawa, advancing its clinical trial on neuroendocrine prostate cancer; and The Thoracic Oncology Program, using immunotherapies, targeted therapies, and other biological agents to treat lung cancer.

It was a banner year for honors and awards in the division. Dr. John P. Leonard, Richard T. Silver Distinguished Professor of Hematology and Medical Oncology and Associate Dean (Clinical Research) at Weill Cornell Medicine, received both the Honorary Fellowship Award from Weill Cornell and the Miriam G. Wallach Award for Excellence in Humanistic Medical Care. Dr. Himisha Beltran was named Co-leader of a 5-year, \$11.3 million Specialized Programs of Research Excellence (SPORE) grant from the NCI; the first awarded to WCM, it will further expand

Hematology and Medical Oncology Fellowship

Ronald J. Scheff, M.D. Program Director

Adrienne Phillips, M.D. Associate Program Director

A 3-year fellowship comprised of rotations through the inpatient and outpatient clinical subspecialty services at NYP/Weill Cornell Medical Center, as well as supervised basic, translational, and clinical research. The fellowship program has 16 ACGME fellows, including five first-year fellows who entered the program in 2017.

the prostate cancer basic and translational research program. Dr. Scott Tagawa and Dr. Beltran received 2017 Prostate Cancer Foundation Challenge Awards, supporting research on unmet needs in areas that hold great promise for extending lives of men with prostate cancer. Dr. Bishov Faltas received a Career Development Award from the Department of Defense to investigate the biology of a family of proteins thought to drive resistance to chemotherapy in the advanced stages of bladder cancer. Dr. Kirsty Richards received NIH funding for a study on immunotherapies to help cure lymphoma in pet dogs. Dr. Ellen Ritchie was recognized as an ASCO Advocacy Champion for her outstanding work in the realm of education and cancer. Other divisional faculty who provided superb mentorship on site for ASCO mentorship projects included Drs. Anne Moore, Pinkal Desai, and Sangmin Lee Drs. Evi Giannakakou and Joseph Scandura are Co-leading the Faculty Advancement & Research Mentorship (FARM) program, a WCM institution-wide initiative to increase junior faculty members' ability to secure grant funding.

2017 recruits: Gina Villani, M.D.,
Hematology and Oncology Division Chief,
NYP/Queens; Cara Rosenbaum, M.D.,
Assistant Professor of Medicine, specializing
in the care of patients with myeloma,
amyloidosis and other plasma cell disorders;
Shilpi Gupta, M.D., Assistant Professor of
Clinical Medicine, NYP/Lower Manhattan,
specializing in gastrointestinal malignancies;
Mendel Goldfinger, M.D. and Ashley James
D'Silva, M.D., Assistant Professors of Clinical
Medicine, caring for patients at NYP/Brooklyn
Methodist Hospital; and Leticia Varella, M.D.,
Assistant Professor of Medicine, specializing
in breast oncology.

Infectious Diseases



Roy M. Gulick, M.D., MPHChief, Division of Infectious Diseases

Rochelle Belfer Professorship

Professor of Medicine Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital The Division of Infectious Diseases provides expertise in research, clinical care, and education and training. Internationally recognized physician-scientists conduct cutting-edge basic laboratory, translational, clinical, and epidemiologic research in infectious diseases in New York City and abroad at sites in Brazil, Haiti, India, and Tanzania. Research in the division investigates bacterial infections (including multidrugresistant organisms), fungal infections, hepatitis B and C, HIV/AIDS, hospital-acquired infections, human papillomavirus (HPV), parasitic infections (Babesia, malaria), transplant/oncology infectious diseases, tuberculosis, and other viral infections (adenovirus, influenza, parainfluenza, rhinovirus). Additionally, the division provides both inpatient and outpatient infectious diseases clinical consultations, including at Weill Cornell Travel Medicine (WCTM), co-founded in 1980 by Dr. Henry W. Murray, the Arthur R. Ashe Jr. Professor of Medicine. Dr. Murray, along with a roster of highly experienced physicians, and under the leadership of WCTM's Medical Director,

Dr. Ole Vielemeyer, provide care and advice for a broad range of destinations for international travelers.

The division's programs in laboratory, translational, and clinical research, remain robust. The Golightly Lab (Director: Dr. Linnie Golightly) is working on the pathogenesis of cerebral malaria, as well as a novel noninvasive, cell phone-based device to diagnose and determine the severity of malaria (clinical testing of the device is planned in Ghana). The Rhee Lab (Director: Dr. Kyu Rhee) continues its highly innovative work on Mycobacterium tuberculosis (MTb) using novel mass spectrometry-based metabolomic approaches. The Walsh Lab (Director: Dr. Tom Walsh) investigates fungal pathogens and develops and tests newer antifungal strategies and treatments in laboratory experiments and animal models. The HIV Clinical Trials Unit (Director: Dr. Marshall Glesby, with co-investigators Drs. Roy Gulick, Shashi Kapadia, Kristen Marks, Mary Vogler, and Timothy Wilkin) conducts clinical research in the treatment and prevention of HIV infection, the treatment



Dr. Kristen Marks

Infectious Diseases

of hepatitis C (HCV) infection, and the assessment and treatment of human papillomavirus (HPV) infection. Dr. Catherine Small, Associate Director of the Transplant/Oncology Infectious Diseases Program, along with co-investigators Drs. Alex Drelick, Priya Kodiyanplakkal, Michael Satlin, Rosemary Soave, and Tom Walsh is conducting cutting-edge clinical research in patients who have undergone organ transplantation or have cancer and develop infections.

Drs. David Calfee and Matthew Simon serve as the Hospital Epidemiologists for NYPH. They are noted for their outstanding efforts in response to the recent Ebola and Zika virus outbreaks, as well as day-to-day strategies to decrease hospitalacquired infections at NYP/Weill Cornell. The Center for Special Studies (CSS), the HIV primary care service, continues to provide care for over 2,500 HIV-infected patients and to grow the Pre-Exposure Prophylaxis (PrEP) program for at-risk HIV-negative individuals. At NYP/Lower Manhattan Hospital, the inpatient and outpatient infectious diseases service and hospital epidemiology are thriving with the support of Drs. Lalitha Parameswaran and Chester Lerner; and at NYP/ Brooklyn Methodist Hospital, the Division of Infectious Diseases is led by Dr. Harold Horowitz.

The Center for Global Health has major programs in Haiti and Tanzania: GHESKIO (Groupe Haitien d'Etude du Sarcome de Kaposi et des Infections Opportunistes (Director: Dr. Jean Pape) conducts NIH-sponsored research with adult and pediatric HIV treatment networks. Facilities include a cholera treatment center, 35-bed TB hospital, and maternal child health center. The Tanzania Training Program (Director: Dr. Daniel Fitzgerald; Mwanza) trains health professionals in

Infectious Diseases Fellowship

Kristen Marks, M.D. Program Director

A 2 to 3-year training program that includes individualized training through clinical rotations, didactic course work, mentored research, and faculty guidance to develop the next generation of infectious diseases physician-scientists and academic clinicians.

the design, implementation, and measurement of innovative health interventions and conducts clinical research (Co-investigators Dr. Jennifer Downs and Robert Peck). Dr. Jyoti Mathad continues to study pregnant women with HIV infection with exposure to tuberculosis in India.

An NIH-sponsored T32 research training grant, "Pathogenesis of Infectious Diseases" (Principal Investigator: Dr. Roy Gulick), continues to support our training of developing infectious diseases physician-scientists through 2019. This grant supports our fellows to conduct basic, translational, clinical and epidemiologic research projects. Our fellows study a wide variety of infectious diseases, currently including drug-resistant bacterial infections, human papilloma virus infections in HIV-infected patients, Kaposi's sarcomaassociated herpes virus, and tuberculosis.

2017 was a banner year for honors and appointments in the division. A few highlights include: the division's Chief, Dr. Roy M. Gulick, gave a plenary talk at the European AIDS Clinical Society (EACS) meeting in Milan; Drs. Jen Downs and Mike Satlin were selected for Young Physician-Scientist Awards by the American Society for Clinical Investigation (ASCI); Dr. Dan Fitzgerald was named Director of the Center for Global Health; Dr. Marshall Glesby hosted the 20th Annual Controversies in the Management of the HIV-Infected Patient Continuing Medical Education (CME) program; Dr. Kristie Marks received official commendation for her work on the AASLD/IDSA Hepatitis C guidelines panel; Dr. Hank Murray was appointed WCM student ombudsman and received a Special Achievement Award from the WCM Alumni Association; and Dr. Tom Walsh received the Gerald P. Bodey Distinguished Professorship Award at the MD Anderson Cancer Center.

Medical Ethics



Joseph J. Fins, M.D., FACP Chief, Division of Medical Ethics

E. William Davis, Jr., M.D.
Professor of Medical Ethics
Professor of Medicine
Professor of Public Health
Professor of Medicine in
Psychiatry
Weill Cornell Medical College

Director of Medical Ethics and Chair, Ethics Committee

Attending Physician NewYork-Presbyterian Hospital The Division of Medical Ethics pursues a tripartite mission of medical education, ethics consultation, scholarship and research. The division teaches medical students, house staff, and attending staff and provides ethics education throughout the pre-clinical years including professionalism, the history of medical ethics, methods of ethics consultation, and ethical issues across the life span. The division also considers ethical and regulatory issues in clinical research, so that students appreciate their responsibilities as clinicians and investigators.

Collaboration was a major theme in the life of the Division of Medical Ethics last year. We have worked with many colleagues and programs and benefitted from these interactions as we seek to enrich the experiences of patients and the education of our trainees. With our NewYork-Presbyterian Hospital partners in Patient Services Administration, the Ethics Consultation Service performed 358 ethics consults in 2017 at both the NYPH-WCMC campus and Lower Manhattan Hospital affording wise counsel to patients, families, and staff regarding the

Drs. Real de Asua, Fins, Gabbay and McCarthy.

ethical challenges confronted in patient care. Our case consult volume makes us one of the most active Ethics Consultation Services in the U.S. The Ethics Committee of NewYork-Presbyterian/Weill Cornell Medicine is chaired by Dr. Joseph J. Fins, Division Chief, who provides oversight to the consultative process and guidance to the hospital on policies and procedures related to medical ethics and

patient rights. The division welcomed Joan M. Walker, M.S., R.N., a clinical ethicist as well as a Lecturer in Medical Ethics.

A key collaboration last year was our continued participation in the New York-Houston Ethics Consortium, which sponsors a medical ethics fellowship supported by the Weill Department of Medicine, the Dean's Office, and NewYork-Presbyterian Hospital, as well as The Methodist Hospital and Baylor Medical College in Houston. A unique offering in American bioethics, it spans two great medical centers and distinct regions of our country, providing a singular experience for our trainees. The fellowship is run by Samantha F. Knowlton, M.D, M.S., Assistant Professor of Medical Ethics in Medicine, whose work has focused on ways to mediate futility disputes and reenvision ethics consultation. This year we hosted faculty and fellows from Houston in the division for rotations on our ethics consult service and an academic retreat.

The division has also collaborated with colleagues in the WDOM from Hospital Medicine, notably Drs. Matthew McCarthy and Ezra Gabbay, on the ethics of hospitalist medicine supported by a grant from the Division of General Internal Medicine. This collaboration has resulted in a number of publications by Drs. McCarthy, Gabbay and Fins, as well as Dr. Diego Real de Asua.

Inmaculada de Melo-Martin, Ph.D., M.S., Professor of Medical Ethics, has continued her fruitful collaboration with the Center for Reproductive Medicine at Weill Cornell Medicine (led by Dr. Zev Rosenwaks). Dr. de Melo-Martin continues to pursue questions regarding genetic identity and assisted reproduction themes addressed in her highly regarded volume, Rethinking Reprogenetics: Enhancing Ethical Analyses of Reprogenetic Technologies (Oxford University Press). She has also continued to work with Dr. Ron MacKenzie, the C. Ronald MacKenzie Chair in Ethics and Medicine at the Hospital for Special Surgery.

The division has also played a key role in advancing the educational mission of Weill Cornell Medical College. Dr. de Melo-Martin led the ethics curriculum on professionalism. Dr. Knowlton assumed the leadership of the ethics component

Medical Ethics

in the Health, Illness and Disease course, and Dr. Ellen Meltzer led the Advanced Clinical Ethics offering. Ethics content has recently been added to the transition to the residency course given to medical students.

We have also continued a synergistic collaboration with our colleagues and students in Doha, via Dr. Pablo Rodriguez del Pozo, Associate Professor of Medical Ethics in Medicine, who leads our ethics curriculum at that campus. Dr. Rodriguez del Pozo explores cross-cultural issues and medical education. He has completed a project funded by the Qatar National Research Foundation exploring the rights of persons with disabilities aimed to inform the Qatari legal system. This multinational project involves the Weill Cornell Medical College in Qatar, Qatar University, the Institute of Human Rights at Carlos III University in Madrid, and the Division of Medical Ethics, WCM, with Dr. Fins collaborating. The project will culminate with an important monograph that will have practical and theoretical impact on disability studies.

Dr. Fins continues his collaboration with Dr. Nicholas D. Schiff, *Jerold B. Katz Professor of Neurology and Neuroscience*, as they co-direct the Consortium for the Advanced Study of Brain Injury (C.A.S.B.I.) at Weill Cornell and Rockefeller University. Dr. Schiff is Principal Investigator on an NIH Brain Initiative grant on the use of Deep Brain Stimulation in severe brain injury. Dr. Fins is a Co-investigator on the project and has received an NIH ethics supplement to study the experiences of subjects and families participating in this clinical trial. CASBI's goal is to elucidate mechanisms of recovery and develop public policy to meet the needs of these patients and families. Dr. Fins has expanded the reach of

Clinical Ethics Fellowship Program

Joseph J. Fins, M.D., FACP Program Director

This fellowship in clinical and research ethics is part of the New York-Houston Medical Ethics Consortium, which brings together Houston Methodist Hospital, Baylor College of Medicine, Weill Cornell Medicine and the NewYork-Presbyterian Healthcare System.

CASBI through his appointment at Yale Law School as the Solomon Center Distinguished Scholar in Medicine, Bioethics and the Law. Following upon his book, Rights Come to Mind: Brain Injury, Ethics and the Struggle for Consciousness (Cambridge University Press), Dr. Fins has pioneered ethical and legal scholarship advancing the civil and disability rights of patients with severe brain injury. In 2017, he authored an Op-ed entitled, "Brain Injury and the Civil Right that We Don't Think About," published in *The New York Times Sunday Review*. His collaborative scholarship with Megan Wright, J.D., Ph.D. has resulted in numerous law review and policy papers (e.g., The Yale Journal of Health Policy, Law, and Ethics, Florida State University Law Review and Stanford Technology Law Review). CASBI is supported by grants from NIH and through the generosity of the Jerold B. Katz Foundation.

On a sadder note, the division bid goodbye to Dr. Ellen C. Meltzer who will be moving with her family to Phoenix to join the staff of the Mayo Clinic. We are grateful for her excellent work on the ethics consult service, as well as the innovations she brought to our efforts in medical ethics education. Although we will miss a fine colleague, who epitomized collaboration, her contributions will endure to the benefit of all.

Members of the division have gained a number of honors this past year. Dr. de Melo-Martin was elected a Fellow of the Hastings Center. Dr. Fins was honored with election as a Fellow of the Royal College of Physicians, London. He was also named to the International Academic Council of the Instituto de Humanidades y Ciencias de la Salud of the Gregorio Marañón de la Fundación Ortega-Marañón in Madrid, appointed to the editorial board of *The Hastings Center Report*, and named Special Features Editor for Ethics by The Journal of Head Trauma and Rehabilitation. In recognition of his work on brain injury, Dr. Fins also received an additional faculty appointment at Weill Cornell Medicine as Professor of Medical Ethics in Rehabilitation Medicine.

Nephrology and Hypertension



Manikkam Suthanthiran, M.D. Chief, Division of Nephrology and Hypertension

Chief, Department of Transplantation
Medicine and Extracorporeal Therapy
Stanton Griffis Distinguished Professor
of Medicine
Professor of Medicine
Professor of Biochemistry
Professor of Medicine in Surgery
Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital The Division of Nephrology and Hypertension is committed to the tripartite mission of patient care, research, and education. A combination of resources has ensured our success, including continuous NIH funding over three decades, a clinical immunogenetics laboratory, a self-supported hypertension clinical practice, and support from Weill Cornell Medicine, NewYork-Presbyterian and philanthropy. Our clinical excellence is the product of making patients our highest priority, while effectively translating bench discoveries to the bedside and applying evidence from clinical trials into compassionate clinical practice.

We provide compassionate, comprehensive, state-of-the-art care to each patient afflicted with kidney disease and/or high blood pressure. We have self-organizing teams for each critical area of nephrology: transplantation medicine, dialysis, apheresis, hypertension, clinical nephrology (e.g., diabetes and metabolic renal disease), cancer nephrology, critical care nephrology, acute kidney injury and cardio-renal syndromes, nephropathology and obstetrics nephrology.

Services include: renal consultation services; inpatient renal medicine service; dialysis therapy; kidney and pancreas transplantation.

Our nephrologists work collaboratively with nephrologists with primary appointments at The Rogosin Institute and the kidney transplant surgeons in the Department of Surgery to manage our transplant recipients with highly personalized therapies to protect the transplanted organ while helping to reduce the toxic side effects of anti-rejection drugs. Our transplant physician-scientists have made pioneering discoveries on mechanisms of action of anti-rejection drugs, as well as noninvasive molecular tests to personalize immunosuppressive drug therapy of transplant patients.

The kidney disease program has been consistently rated in the top 5 by *US News & World Report* (Ranked 4th in 2017), and is one of the highest ranked programs among the medical subspecialties at New-York Presbyterian. The kidney transplantation program at Weill Cornell Medicine is a significant contributor to NYP's transplantation program, ranked number



Nephrology and Hypertension



Dr. Line Malha

1 in the U.S. for the last ten years, and its translational research has been transforming care for transplant recipients. More than 200 kidney transplants are performed annually at our center with excellent patient and graft survival rates. The most recent adult (18+) one-year patient and graft survival rates following living donor kidney transplantation were 98.82% and 97.77%, respectively, and the one-year patient and graft survival rates following deceased donor kidney transplantation were 95.74% and 92.75%, respectively. These exemplary outcomes are the all the more impressive in light of our center transplanting high-risk patients. (Data Source: Scientific Registry of Transplant Recipients, Health Resources and Service Administration, January 5, 2018.)

The first kidney transplant in the New York tri-state region was performed at our center in October 1963; more than 5,000 kidney transplants have been performed since the center's inception. Several innovations in

transplantation have been introduced by our transplant physicians, including: blood type (ABO) incompatible kidney transplants; kidney transplantation across a positive cross-match; minimizing the amount of drugs patients need for successful transplantation; treatment protocols to reduce serious post-transplant complications (i.e., infection and malignancy); and noninvasive molecular assays for assessing transplant status and reducing the need for an invasive biopsy procedure.

Dr. Mary Choi, Professor of Medicine and a world-renowned physician-scientist, is conducting research addressing the mechanisms of kidney injury and failure. Dr. Choi's fundamental studies should not only yield key insights into mechanisms underpinning kidney injury, but will also help to identify novel therapeutic targets for the prevention of progression of kidney injury manifested by fibrosis. The multifunctional cytokine transforming growth factor beta (TGF-b) is considered a major player in kidney disease and health, and Dr. Choi's seminal studies have led to the cloning and characterization of the cell surface receptors for TGF-b1; delineation of key intracellular mediators of TGF-β signals; and resolution of glomerular endothelial cell proliferation and differentiation. Her original contributions have resulted in a greater understanding of the molecular mechanism of tissue injury, inflammation, and fibrosis as they pertain to the pathogenesis of chronic kidney disease. Her laboratory has successfully resolved mechanisms by which TGF-β1 elicits key cytoprotectants, such as heme oxygenase-1, and carbon monoxide and protection from oxidative stress and kidney injury via activation of autophagy. Dr. Choi and colleagues recently identified a new therapeutic target by their discovery that a receptor-interacting protein kinase-3 independently promotes kidney fibrosis. Dr. Choi's research has been supported continuously by highly competitive NIH awards, and she is a PI, Co-PI, and Co-Investigator on multiple NIH grants.

Our Hypertension Center is one of a kind in the U.S., and has discovered and implemented clinical therapies that are personalized for the individual patient. Our Hypertension faculty pursue innovative research (e.g., studies of pregnancy-induced hypertension, mind-body link in hypertension, personalized drug therapy for hypertension control). Internationally acclaimed, our Hypertension Consultative practice continues to thrive under the direction of Dr. Phyllis August, Ralph A. Baer Professor of Medical Research, and with complementary expertise provided by Dr. Mark S. Pecker, Professor of Clinical Medicine, Dr. Samuel J. Mann, Professor of Clinical Medicine, and Rosemerie Marion, ANP, Nurse Practitioner. In 2016, Dr. Line Malha, an Instructor in Medicine who had trained with Dr. August in obstetric nephrology, joined the division and has already had a significant impact in furthering the excellence of our hypertension center.

Division Chief, Dr. Manikkam Suthanthiran, directs a highly productive, NIH-funded worldrenowned research Laboratory of Immunogenetics and Transplantation. The division has pioneered the development of gene expression profiling for the noninvasive diagnosis and prognostication of acute rejection in renal allografts, and has contributed to several landmark studies in organ transplantation on elucidation of the genetic signature of rejection and tolerance. Laboratory research has been NIH-funded continuously for 30-plus years with recent NIH awards that include a R37 Administrative Supplement to the NIH MERIT award (PI: M. Suthanthiran); a Mendez Foundation Award for profiling of human kidney allograft recipients (PI: M. Suthanthiran); and a NIHsponsored multicenter trial for urinary cell mRNA profiling of pediatric recipients of kidney allografts (PI: J. Kumar; Molecular Core PI: M. Suthanthiran).

Dr. Phyllis August is serving as the Site PI on a cooperative grant from the NHLBI/NIH/DHHS to evaluate the benefits and harms of pharmacologic treatment of mild CHTN in pregnancy. Dr. Mary Choi was awarded an NIH-funded grant to study novel mechanisms of organ fibrosis. Dr. Darshana Dadhania was awarded a 5-year NIDDK cooperative grant to study the impact of the APOL1 gene on long-term outcomes in renal transplant recipients of a kidney from an African American donor and the impact on kidney function in African Americans donating a kidney. Dr. John Lee received an NIAID

grant to invent and apply shotgun sequencing of urinary cell-free DNA to define the microbial, bacterial growth dynamics, tissue injury in the transplanted kidney, and the host's response to UTI. In another NIAID-funded grant, he is investigating many lines related to the gut microbiome. Dr. Line Malha received the *Zuspan Award Certificate* for the most outstanding clinical science work on hypertension in pregnancy.

Nephrology faculty teach the Health, Illness, and Disease course for Weill Cornell Medical students at both the New York and Qatar campuses. A daily educational conference ensures faculty and fellows practice evidence based medicine, as well as receive CME credits. There has been a 100% pass rate for the ABIM Nephrology subspecialty, and the scholarship of our trainees and faculty are demonstrated by presentations of original research at every national and international meeting related to nephrology and transplantation. Our full-time faculty lecture nationally and internationally and have published 59 peer-reviewed articles since July 2015.

Nephrology Fellowship Program

Phyllis August, M.D., MPH Program Director

Our highly competitive 2-year nephrology fellowship program is designed to provide comprehensive training in all aspects of kidney disease including acute and chronic kidney failure; end stage kidney disease; hemodialysis including home hemodialysis; peritoneal dialysis; apheresis; kidney and Kidney and pancreas transplantation; hypertension; glomerulopathy; onconephrology, obstetric nephrology, kidney stones, polycystic kidney disease, and metabolic disorders including acid base and fluid and electrolyte disorders. A third and fourth year are available for additional research training. Despite almost 50% of nephrology fellowship slots being not filled across US, our program has been highly successful in fulfilling 100% of the fellowship slots through the Nephrology Fellowship Matching Program.

Public Health Programs



Ann B. Beeder, M.D.Chief, Division of Public Health Programs

Jeanette and Jeffrey Lasdon Associate Professor of Clinical Public Health and Psychiatry

Associate Professor of Clinical Medicine

Associate Professor of Clinical Psychiatry at the Weill Medical College

Associate Attending Physician NewYork-Presbyterian Hospital

The Division of Public Health Programs delivers integrated multidisciplinary patient care for patients with trauma and addiction through a variety of outpatient programs. The programs provide medical, psychiatric and substance abuse treatment to patients with substance use problems, including alcohol, marijuana, nicotine, cocaine, heroin and prescription medication. On-site medical, psychiatric, trauma treatment and social services promote and accelerate patients' progress toward recovery. Consultation services are available for expert evaluation, diagnosis, treatment and referral for patients with substance use disorders being treated at the NewYork-Presbyterian Hospital. Outpatient treatment locations include The Midtown Center for Treatment and Research, The Headstrong Project, and the Vincent P. Dole Institute for Treatment and Research.

The Midtown Center for Treatment and Research is located at 56 West 45 Street, 9th Floor, NYC, 10031. It is an outpatient drug treatment program providing multidisciplinary alcohol and drug treatment with integrated psychiatric and social services. Services include outpatient suboxone detoxification and maintenance for opiate dependency (prescription pain medication and heroin),

Patients are carefully evaluated involving an individualized treatment plan, including groups, individual treatment, urine and other toxicology, and psychiatric evaluation and care when needed.

trauma treatment (EMDR and CBT), psychiatric care, DUI program, anger management, and other services. Patients are carefully evaluated involving an individualized treatment plan, including groups, individual treatment, urine and other toxicology, and psychiatric evaluation and care when needed. Patients needing primary and specialty medical care have access to CIMA at Weill Cornell and comprehensive subspecialty care (e.g., HCV, HIV, cardiology, pulmonary, nutritional, and other services).

With support from the NYC DOHMH beginning in 2015, The Experience Center continues to provide specialized drug and alcohol treatment to adolescents. The Center is nestled in the adult section of The Midtown Treatment Center and uses existing staff, new staff members, creative arts therapists, as well as an outdoor recreation facilitator to engage the youth in these more activity-based modalities.

The Headstrong Project is located at 409 East 60th Street, 3rd Floor, NYC, 10065. It is a PTSD program for combat veterans. It has attracted national recognition for its highly effective evidence-based treatment, which is free and confidential for returning Iraq and Afghanistan combat veterans living in the NYC and Tri-State Area. The treatment is individually tailored and designed for each veteran in support of The Headstrong Project's motto: "Hidden Wounds Can Be Healed." In partnership with Weill Cornell, the Headstrong Project is an award-winning program that continues to grow with new locations in multiple cities across the country. At this time there are locations in California, Colorado, Illinois, Maryland, New Jersey, New York, Pennsylvania, Texas, Virginia, and Washington D.C. The 2017 Headstrong Gala of NYC was held at New York City's Pier 60 (Hudson River) with Seth Meyers as master of ceremonies. The evening celebrated veterans and their stories of success based upon the services they received from the Headstrong Project.



Vincent P. Dole Institute for Treatment and Research is located at 503 East 70th Street, NYC, 10021. It is part of the NewYork-Presbyterian Hospital's Ambulatory Care Network. Both the Midtown Center and the Vincent P. Dole Institute serve as sites for the study of the prevention and treatment of dependency diseases, as well as outreach, evaluation, and treatment of patients with hepatitis C. Research studies are underway on the integrated care model, epidemiology and treatment of hepatitis C infection in drug users and understanding immunity in opioid users.

The Employee Assistance Program
Consortium (EAPC), serves the approximately
36,000 employees of Weill Cornell Medical
College, Rockefeller University, NewYorkPresbyterian Hospital/Weill Cornell Medical
Center, Hospital for Special Surgery, and
Memorial Sloan-Kettering Cancer Center.
The program provides free and confidential
evaluation, crisis intervention, and referrals for
a wide range of problems affecting employees.
The EAP also offers free group sessions on
topics such as stress reduction, caring for
elderly parents, and a variety of mental health
topics.

The division also deploys staff to the Center for Special Studies on West 23rd Street to offer on-site drug and alcohol treatment at the HIV/AIDS Program. This includes screening and assessment, individual and group therapy. Clients from West 23rd Street may also attend any of the services at the West 45th Street site.

In addition to providing a host of valuable services for a wide variety of patients, the division's faculty is distinguished for education and research on topics related to substance use; these topics include the integrated care model, epidemiology and treatment of Hepatitis C infection in drug users, understanding immunity in opioid users, and more. A study is underway with Division Chief, Dr. Beeder, serving as a co-Principal Investigator, and Dr. Ronald Crystal, Chairman, Genetic Medicine at WCM, on a Phase I

clinical trial that is exploring a vaccine model in patients with cocaine dependency disorder. Dr. Mirella Salvatore, an Assistant Professor of Medicine in the division, is also working on the project and has been publishing related research papers in the peer-reviewed journals.

The division's administrator, and a Licensed Certified Social Worker, Gerard Ilaria spoke on April 7, 2017 at a national conference on suicide prevention for veterans held in San Diego, California. The event was sponsored by PsychArmor, along with many other sponsors that included the VA, DOD, SAMSHA and the Kennedy Forum. Gerard Ilaria, LCSW, is the Clinical Director and Co-founder of the Headstrong Project, along with its other Cofounder and Medical Director, Dr. Ann Beeder, Division Chief.



Gerard Ilaria, LCSW, (R) with Kym Grey, LCSW, Transition and Care Management, VA San Diego Healthcare System, (Center). Dustin Shryock, Director of Operations for Headstrong, (L).

Pulmonary and Critical Care Medicine



Fernando J. Martinez, M.D. Chief, Division of Pulmonary and Critical Care Medicine

Bruce Webster Professor of Internal Medicine

Professor of Clinical Medicine Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital The Division of Pulmonary and Critical Care Medicine employs advanced expertise in the diagnosis and treatment of all types of respiratory disorders, including those related to sleep. Physicians of Weill Cornell Pulmonary Associates provide diagnostic and therapeutic services in a state-of-the-art medical facility. The division provides 24-hour, in-hospital coverage of the Medical Intensive Care Unit (MICU) at Weill Cornell Medicine and at NYP/ Lower Manhattan Hospital. The Bronchoscopy Suite offers state-of-the-art patient care, including Endobronchial Ultrasound (EBUS), Navigational Bronchoscopy, and chest tube and pleurx catheter placement. MICU clinical care offers daytime and expanded overnight services. The Pulmonary Inpatient Consult Service provides rapid, expert clinical care seven days a week, including the provision of an Outreach Service for patients who are critically ill outside of the ICU. It upgrades continuity of care for patients who are transitioning from inpatient to outpatient management and has led to successful interdisciplinary collaborations with specialists throughout the institution. The division, jointly with the Columbia campus, has been designated by the Pulmonary Fibrosis Foundation (PFF) as a Center of Excellence and is active in an ALA-ACRC series of joint projects.

Multiple clinical endeavors in the division continue to thrive. The Pulmonary Procedure Service, directed by Dr. Ben-Gary Harvey, provides innovative diagnostic and therapeutic services for the diagnosis and management

of lung cancer, pulmonary fibrosis, and lung infection. Dr. Harvey has received advanced training in the bronchoscopic management of advanced emphysema. The Pulmonary Function Laboratory, led by Dr. Abraham Sanders, remains a vital component of the division's continuum of care via expert and timely diagnostic services. Led by Medical Director, Dr. Ana Krieger, and other experts, the Weill Cornell Center for Sleep Medicine (run jointly by the Weill Department of Medicine's Division of Pulmonary and Critical Care Medicine and the Department of Neurology) provides evaluation and treatment for the full range of pulmonary and non-pulmonary sleep problems, employing multidisciplinary specialists and carrying out cutting-edge federally-funded research projects. During 2017, Dr. David Berlin completed his service as Vice Chair of Medicine for the NewYork-Presbyterian Hospital-Weill Cornell Medical Healthcare Systems.

The division's research portfolio ranges from interstitial and obstructive lung diseases, pneumonia, and lung cancer, to sleep medicine and genetic medicine. Its physicianscientists are participating in clinical and basic mechanistic investigations, both independently and with collaborators.

As a key participant in numerous NHLBIsponsored COPD studies, Dr. Martinez, Division Chief, defined the role of lung volume reduction surgery, chronic macrolide therapy, statin therapy, and long-term oxygen therapy in COPD. He has also been involved in defining the immunological basis of acute exacerbations, the role of innovative small airways imaging methods, and the role of COPD endotypes. He serves as the Principal Investigator on a nearly \$11 million dollar R01 grant (The Capture Study) from the National Heart, Lung, and Blood Institute. The Capture Study, guided by strong preliminary data, seeks to identify COPD patients who are under-recognized and undertreated in 100 primary care centers across five PBRNs in the U.S. Similarly, with NHLBI support, Dr. Martinez has defined optimal approaches to diagnosing idiopathic interstitial pneumonias,

The division's research portfolio ranges

from interstitial and obstructive lung diseases, pneumonia, and lung cancer, to sleep medicine and genetic medicine.

imaging and biochemical approaches to prognostication, and he has investigated the role of various therapeutic approaches for Idiopathic Pulmonary Fibrosis (IPF). He has also studied the interaction between dysbiosis in the lung microbial community and disease progression, which led to an ongoing NHLBI-funded study of an innovative therapeutic approach targeting IPF progression.

Dr. Augustine M.K. Choi, continues to lead an extremely active laboratory that, in part, leads the global investigative carbon monoxide (CO) community in

Dr. Renat Shaykhiev is focused on airway epithelial stem cells, epithelial-mesenchymal interactions, epithelial-immune interactions and innate immunity in the lung, and pathogenesis of airway remodeling in human lung disease. Dr. Heather Stout-Delgado is focused on the implications of an aging immune system and its impact on infections and respiratory inflammatory disorders. Dr. Soo Jung Cho has made key observations characterizing the role of impaired glucose metabolism and progressive lung fibroproliferation. Dr. Suzanne Cloonan leads a research program that is centered



Dr. Xiaopang Wu (R)

understanding this complex biological pathway. His laboratory has successfully translated these findings as they lead the design and successful completion of Phase I and Phase II trials targeting the use of inhaled CO in human disease. The former Chairman of the Weill Department of Medicine, Dr. Choi was appointed to Dean of the Weill Cornell Medicine College as of January 2017. In late 2017, he received a 4-year NIH grant for the study of fibrosis and for which he will serve as a Co-Principal Investigator.

on the role of iron metabolism in normal and diseased lung. Dr. Kiichi Nakahira has established an innovative translational investigative program examining the role of mitochondrial dysfunction in sepsis.

Dr. Robert Kaner remains actively involved in basic and clinical research programs in Interstitial Lung Disease (ILD). He is the principal investigator of numerous industry and federally-funded therapeutic trials exploring innovative therapeutic approaches to patients with ILD. Dr. Ben-Gary Harvey continues his study on a new therapy for

Pulmonary and Critical Care Medicine

COPD. Dr. Michael Niederman has begun clinical investigation protocols related to pneumonia in the ICU and in the community. There is a growing interest in palliative care among critically ill patients, and Dr. Lindsay Lief has partnered with Dr. Holly Prigerson on the study of patient and provider attitudes at the end-of-life in the ICU. Dr. Bradley Hayward is developing a collaboration with Geriatrics and other divisions in the clinical aspects of palliative care. Translational clinical research in the ICU is being led by Dr. Edward Schenck, who is expanding a clinical database that links detailed clinical data with biological patient samples to study inflammation and lung injury in critically ill patients with sepsis.

The division's educational mission involves a multifaceted program for the training of students, residents, and fellows. Along with Associate Program Director, Dr. Robert Kaner, Dr. Meredith Turetz, Assistant Professor of Medicine, serves as Program Director of the division's fellowship. Dr. Kapil Rajwani continues to work on simulation programs for providing ACLS (Advanced Cardiovascular Life Support) and the

Pulmonary and Critical Care Fellowship

Meredith Turetz, M.D. Program Director

Robert Kaner, M.D. Associate Program Director

A 3-year comprehensive program with 12 fellows. Curriculum includes rotations on the consultative pulmonary service, doing advanced pulmonary procedures, and participating in rotations in the medical, neurologic, and surgical intensive care units, and to care for inpatients and outpatients under supervision of the division's clinical faculty. All fellows conduct at least 18 months of research, spanning a broad range of expertise (e.g., bench laboratory research, health service and/or patient centered investigation). Key investigative areas include cellular biology and molecular immunology, lung and vascular injury, human pathophysiology, and epidemiology and bioinformatics. Faculty mentoring across the tri-institutional setting provides an ideal training environment.

insertion of Central Venous Catheters. The division hosts the William Briscoe Lung Club where fellows from the training programs throughout the area present their scientific work. Dr. Abraham Sanders hosts a monthly joint Clinical Case Conference. Dr. Kaner hosts a monthly multidisciplinary conference on diagnosis and management of ILD.

The division has an NHLBI T32 training grant under the leadership of Drs. Martinez, Kaner, and Augustine M.K. Choi. Entitled "Multidisciplinary Approach to Training in Respiratory Research," the program includes multiple faculty across the tri-institutional consortium who are training respiratory focused physician-scientists. The grant became effective on February 2, 2018 with the first trainee, Alex Racanelli, M.D., Ph.D., appointed. A second appointee will be named in July of 2018. The division's trainees have received career development awards as well as private foundation funding.

Division honors in 2017 included: Dr. Michael S. Niederman, Distinguished Chest Educator, American College of Chest Physicians; Dr. Abraham Sanders, Consultant Attending of the Year, voted on by medicine residents; Dr. Lourdes Sanso, Teacher of the Year, NewYork-Presbyterian Hospital/Queens; and Dr. Meredith Turetz, Department of Medicine's Quality University Trainee (WCM).

Rheumatology



Mary K. Crow, M.D. Chief, Division of Rheumatology

Joseph P. Routh Professor of Rheumatic Diseases in Medicine

Professor of Medicine Weill Cornell Medical College

Benjamin M. Rosen Chair in Immunology and Inflammation Research

Attending Physician NewYork-Presbyterian Hospital

Based at Hospital for Special Surgery (HSS), the Division of Rheumatology is a national and international leader in clinical care of patients with autoimmune, inflammatory and musculoskeletal conditions; research that has contributed to identification of novel therapeutic targets and new understanding of disease mechanisms; and innovative approaches to medical education and education research. In addition to 40,000 outpatient rheumatology visits per year, the division has responsibility for all of the pre- and post-surgical medical care of more than 30,000 patients per year who undergo orthopaedic surgery procedures at HSS. The large volume of patients treated at HSS has enabled HSS clinicians and researchers to develop patient registries with detailed clinical information that provides an important resource for clinical and translational research studies. Longitudinal data collection, patient reported outcomes and availability of biologic samples are features of some of the registries that provide valuable research resources shared with collaborators nationally and internationally.

Achieving optimal outcomes for patients is the goal of our 25 active consultative rheumatology practitioners, treating disorders ranging from osteoarthritis and rheumatoid arthritis (RA) to the most complex patients with lupus, vasculitis, systemic sclerosis or diagnostic dilemmas. Our Hospital-Based Physicians Group, co-chaired by Drs. Theodore Fields and Jessica Gordon, is implementing the transformation of

the goal of establishing efficient and valuefocused care across all practices. Dr. Steven Magid serves as Chief Medical Information Officer for HSS, overseeing implementation of our medical information technology system in the hospital and office practices. Optimal preparation and postoperative management of patients undergoing orthopedic surgery at HSS is ensured under the leadership of Dr. Linda Russell, Director of Perioperative Medicine. Dr. Karen Onel leads our Pediatric Rheumatology Service, with many clinical and academic programs shared with the adult Rheumatology Division.

the division's clinical practice operations with

Rheumatology clinics at HSS represent an essential training component of our rheumatology fellowship programs. The adult rheumatology training program is directed by Drs. Anne Bass and Jessica Berman, and the pediatric rheumatology training program is directed by Dr. Alexa Adams. Fifteen adult and pediatric rheumatology fellows provide continuity of care for the patients seen in the clinics, with involvement of all rheumatology faculty members as supervisors and teachers. A weekly clinic for evaluation of new patients, and specialty clinics focused on inflammatory arthritis, lupus and antiphospholipid syndrome, vasculitis and systemic sclerosis provide rheumatology fellows and rotating internal medicine residents with a rich experience in evaluation and management of a full spectrum of rheumatic diseases. A rich learning environment is also provided in the multidisciplinary clinic conferences following Monday Inflammatory Arthritis Clinic and Friday Lupus Clinic, which involve discussion of patient management, guided by recent literature and enriched by attendance of representatives from other Weill Cornell specialties. Each rheumatology trainee completes a basic or clinical research project under the supervision of one or more faculty members and with oversight by a mentoring committee. Trainees pursuing a research career are encouraged to apply for peer-reviewed research grant support, and those headed for careers in academic

In addition to 40,000 outpatient rheumatology visits per year, the division has responsibility for all of the pre- and post-surgical medical care of more than 30,000 patients per year who undergo orthopaedic surgery procedures at HSS.

Rheumatology

medicine often continue their research in a fourth fellowship year. This strong academic environment attracts the future leaders in academic rheumatology to its fellowship program.

The division has a long history of leading basic and translational research studies that have elucidated important mechanisms of autoimmune and inflammatory disease and have identified important therapeutic targets. It is also recognized for its strong, productive collaborations among bench scientists and clinicians. Dr. Lionel B. Ivashkiv, Chief Scientific Officer, is supported by several NIH research grants addressing epigenetic mechanisms relevant to regulation of inflammation and bone resorption in rheumatoid arthritis. His lab is making seminal observations on the epigenetic control of cytokine gene expression and osteoclast maturation, and his studies of chromatin modifications are leading to new understanding of how the immune system becomes primed to react efficiently to future microbial or inflammatory stimuli. Dr. Jane Salmon, who serves as the Associate Dean for Faculty Affairs at Weill Cornell Medicine, has identified biomarkers that predict adverse pregnancy outcomes in patients with lupus or antiphospholipid syndrome (APS). Dr. Doruk Erkan is studying therapies that might improve outcomes of APS patients. Dr. Mary Crow's lab, in collaboration with Dr. Kyriakos A. Kirou, has demonstrated that type I interferon is a central

mediator of immune dysregulation and autoimmunity in SLE and has provided insight into the role of additional molecular pathways that are involved in lupus nephritis. Their work has led to a current phase III trial of an anti-interferon receptor antibody in lupus

Members of the Rheumatology Division are leading collaborative clinical research studies focused on risk factors and outcomes of total joint replacement surgery. Together with members of the orthopedic surgery, pathology and research faculty, Drs. Susan Goodman, Vivian Bykerk, Lisa Mandl and others are documenting the biologic characteristics of joint tissue that are associated with rheumatoid arthritis disease flare after total joint replacement. Dr. Goodman is also investigating the socioeconomic factors that impact surgical management of osteoarthritis and is directing a new Center of Excellence that is organizing outcome research in rheumatic disease patients undergoing orthopedic surgical procedures.

Rheumatology Fellowship

Anne R. Bass, M.D. Program Director

Jessica R. Berman, M.D. Program Co-Director

The Hospital for Special Surgery (HSS) rheumatology fellowship 3-year program combines a broad-based, in-depth clinical and research experience in order to deliver the highest quality academic training to rheumatology professionals.



Iris Cantor Women's Health Center (ICWHC)



Orli R. Etingin, M.D.Medical Director, ICWHC

Vice Chair for Faculty

Lisa and Sanford B. Ehrenkranz Professor in Women's Health

Professor of Clinical Medicine

Professor of Clinical Obstetrics and Gynecology Weill Cornell Medical College

Attending Physician NewYork-Presbyterian Hospital The Iris Cantor Women's Health Center (ICWHC) at 425 East 61st Street in Manhattan offers the most comprehensive array of healthcare services, designed specifically for women, in a single location in New York City. With more than 40,000 square feet of clinical space occupying four floors under one roof, women can access the finest prevention, screening, and treatment services in one convenient location. All of the Center's physicians are full-time faculty members of Weill Cornell Medicine and attending physicians at NewYork-Presbyterian/Weill Cornell Medical Center. A team of internists, gynecologists, radiologists, among many others, facilitate superb coordination.

The Iris Cantor Men's Health Center, for which Dr. Etingin had provided expertise and assistance during the development phase, has grown to encompass both men's health and executive health testing. The contiguity of the Women's Health Center, Men's Health Center, and the new Executive Physical

Center, has enabled streamlined care for every type of patient. Located at 425
East 61st Street, the men's health practice enhances the primary care network of Weill Cornell delivering patient care that covers internal medicine, cardiology, endocrinology, hematology, and urology. It also houses the Department of Urology's Institute for Bladder and Prostate Health. Clinical research collaborations between Men's and Women's Health continue.

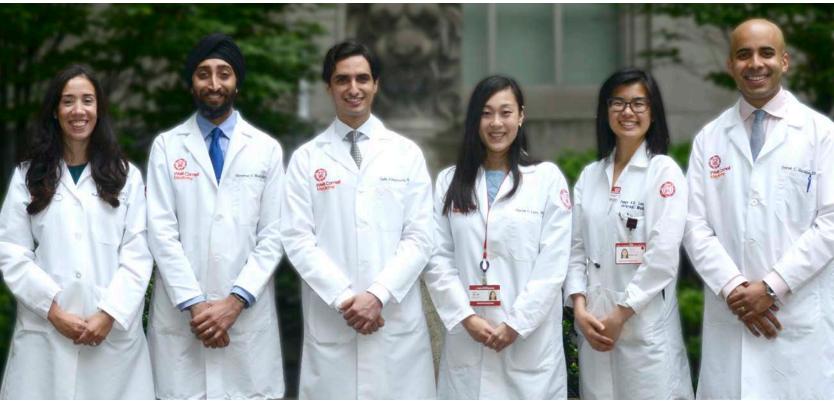
The 35th Annual Women's Health
Symposium was held on October 24, 2017
at the Citi Executive Conference Center.
Entitled "Mind, Mood and our Microbiome:
Emerging Connections," the conference
covered the relationship between
microbiome and neurogastrointestinal
function. Guest speakers included Dr. Conor
Liston, Assistant Professor of Neuroscience
and Psychiatry, and Dr. David Artis, the
Michael Kors Professor of Immunology
and Director of the Jill Roberts Institute for
Research in Inflammatory Bowel Disease.

The 2018 Women's Health Symposium, to be presented on October 22, 2018, will focus on the relationship of inflammatory disease, obesity, and cancer risk. It will include Drs. Lewis C. Cantley, Director of the Sandra and Edward Meyer Cancer Center, and Dr. Andrew J. Dannenberg, Henry R. Erle, MD – Roberts Family Professor of Medicine, Professor of Medicine in Cardiothoracic Surgery, and Professor of Medicine in Surgery.



(L to R): Dr. Conor Liston, Dr. Etingin, Ellen Corwin, Dr. David Artis

Residents & Fellows



Dr. Gudi* (L) with 2017 Chief Residents (L to R): Drs. Harpreet Bhatia, Zaid Almazoorq, Hana Lim, Peggy Leung, Derek Mazique

*Dr. Kirana Gudi serves as Director of the Internal Medicine Residency Program in the Weill Department of Medicine. She was recently named the department's Vice Chair for Education (see Leadership section).

The Internal Medicine Residency Program is distinguished by a unique combination of activities and opportunities. One of the program's core principles is that house staff learn best through authentic responsibility. House Staff serve as the primary provider across all aspects of patient care. The program has been recognized as an Apple Distinguished Education Program for its innovative learning platform using iTunesU and multimedia books. Intellectual curiosity is fostered throughout the curriculum, whether exploring basic science, translational medicine, clinical expertise, or the healthcare delivery system. Residents can customize their focus or try more than one area. Mentorship is one-on-one to help each resident thrive. *Please visit our department's website at https://medicine.weill.cornell.edu for further information on the residency program.*

Senior Residents (PGY3)

Ayman Al Jurdi, Weill Cornell Medical College-Qatar

Joseph Bailey, Loyola University Chicago Stritch School of Medicine

Luis Barraza, New York University School of Medicine

Guillaume Bassil, American University of Beirut

Rebecca Boas, New York University School of Medicine

Josef Brejt, State University of New York Downstate Medical Center College of Medicine

Tariq Chukir, Weill Cornell Medical College-Qatar

Angela Condo, Rutgers, Robert Wood Johnson Medical School

Virginia Corbett, Michigan State University College of Human Medicine

Madison Dennis, University of Toronto Faculty of Medicine

Benjamin Diamond, Boston University School of Medicine



Elijah Douglass, New York Medical College

William Farver, Rutgers, Robert Wood Johnson Medical School

Brett Fischer, Albert Einstein College of Medicine of Yeshiva University

Supriya Gerardine, Weill Cornell Medical College-Qatar

Maurice Hinson, Drexel University College of Medicine

Christopher Jakubowski, Rutgers, Robert Wood Johnson Medical School

Valery Li, State University of New York Downstate Medical Center College of Medicine

Kevin Liou, The Warren Alpert Medical School of Brown University

Marissa Lombardo, Albert Einstein College of Medicine of Yeshiva University

Amit Mehta, Geisel School of Medicine at Dartmouth

Neil Mehta, University of Virginia School of Medicine

Erin Mulvey, New York Medical College

Jones Nauseef, University of Iowa Roy J. and Lucille A. Carver College of Medicine

Elizabeth Park, Boston University School of Medicine

Lauren Parks, University of Alabama School of Medicine

Alejandro Pino, Weill Cornell Medical College

Jessica Queen, Northwestern University, The Feinberg School of Medicine

Melissa Rusli, Weill Cornell Medical College

Brian Salata, University of Michigan Medical School

Shani Scott, Howard University College of Medicine

David Snell, Northwestern University, The Feinberg School of Medicine

Eric Stewart, New York University School of Medicine

Evan Stewart, Weill Cornell Medical College

Michael Torres Lizardi, University of Puerto Rico School of Medicine

Michael Wagner, University of Minnesota Medical School

Winston Wong, Rutgers, Robert Wood Johnson Medical School

Fangfei Zheng, New York University School of Medicine

Junior Residents (PGY2)

Amit Achhra, K.J. Somaiya, India

Javid Alakbarli, Istanbul University

Sarah Barenbaum, Drexel University College of Medicine

Jesse Bertrand, University of Miami

Deep Bhatt, University of Iowa Roy J. and Lucille A. Carver College of Medicine

Rebecca Blank, Icahn School of Medicine at Mount Sinai

Ryan Bober, Sidney Kimmel Medical College at Thomas Jefferson University

Adam Buckholz, University of Virginia School of Medicine

Karen Chiu, University of Pittsburgh School of Medicine

Anthony Choi, Weill Cormell Medical College

Daniel Choi, University of Michigan Medical School

Josephine Cool, Weill Cornell Medical College

John Falcone, Drexel University College of Medicine

Deborah Fung, State University of New York Downstate Medical Center College of Medicine

Residents & Fellows



Gloria Gerber, Rutgers, Robert Wood Johnson Medical School

Gaurav Ghosh, Weill Cornell Medical College

Stephanie Gold, Weill Cornell Medical College

Yasin Hussain, Weill Cornell Medical College-Qatar

Sumaiya Iqbal, Stony Brook University School of Medicine

Brittany Katz, The Warren Alpert Medical School of Brown University

Peter Kennel, TUM School of Medicine of Technische Universität München

Amy Kwon, Weill Cornell Medical College

Perola Lamba, Weill Cornell Medical College-Qatar

Rohan Maniar, Indiana University School of Medicine

Filipe Moura, Universidade de Brasília Faculdade de Medicina

Jorge Munoz Pineda, Albert Einstein College of Medicine of Yeshiva University

Mariella Ntamatungiro, Meharry Medical College

Maria Pabon, Universidad Nacional de Colombia Facultad de Medicina

Khanh Pham, University of Massachusetts Medical School

Ilana Prior, Geisel School of Medicine at Dartmouth

Dwindally Rosado-Rivera, San Juan Bautista School of Medicine

Samuel Rotter, University of Wisconsin School of Medicine

Madhav Seshadri, Emory University School of Medicine

Gabriel Shaya, University of Miami Miller School of Medicine

Zachary Sherman, Icahn School of Medicine at Mount Sinai

Masha Slavin, Icahn School of Medicine at Mount Sinai

Melanie Smith, University of California, San Francisco School of Medicine

Amin Soltani, Tehran University of Medical Sciences

Diala Steitieh, Weill Cornell Medical College-Qatar

Zachary Strasser, Weill Cornell Medical College

Colleen Tenan, New York University School of Medicine

Timothy Tiutan, University of Arizona College of Medicine

Samuel Yamshon, University of California, Davis School of Medicine

Diane Zisa, State University of New York Downstate Medical Center College of Medicine

Intern Residents (PGY1)

Youmna Abdelghany, Weill Cornell Medical College-Qatar

Ankita Agarwal, Rutgers, New Jersey Medical School

Preston Atteberry, Icahn School of Medicine at Mount Sinai

Alexander Bain, Perelman School of Medicine at the University of Pennsylvania

Lauren Balkan, State University of New York Downstate Medical Center College of Medicine

Dan Benenson, Weill Cornell Medical College

Matthew Brandorff, Stony Brook University School of Medicine



Allen Chen, Harvard Medical School

Brian Chernak, State University of New York Downstate Medical Center College of Medicine

Philip Choi, Columbia University College of Physicians and Surgeons

Chou Chou, Weill Cornell Medical College

Emily Coskun, University of Kansas School of Medicine

Rachel Engelberg, University at Buffalo

Asia Gobourne, Weill Cornell Medical College

Jordan Goldstein, Emory University School of Medicine

Benjamin Gordon, Weill Cornell Medical College

Marvah Hill Pierre-Louis Geisel, Dartmouth

Angela Hu, Temple University

Ramsey Kalil, Stony Brook University School of Medicine

Kyle Koster, University of Rochester

Kristine Lacuna, State University of New York, University at Buffalo Jacobs School of Medicine and Biomedical Sciences

Justin Lebenthal, Rutgers, Robert Wood Johnson Medical School

Neil Lim, Northwestern University Feinberg School of Medicine

Anna Mertelsmann, University of Hamburg

Xiaoli Mi, Harvard Medical School

Pedram Navid-Azarbaijani, Weill Cornell Medical College

Cecilia Nicol, Weill Cornell Medical College

Stephanie Pagliuca, Duke University School of Medicine

Akash Patel, Rutgers, New Jersey Medical School

Kharisa Rachmasari, Weill Cornell Medical College-Qatar

Randy Ramsaywak, Albert Einstein College of Medicine of Yeshiva University

Rayhan Saiani, Weill Cornell Medical College

Claire Sathe, Rutgers, New Jersey Medical School

Hector Sepulveda Alemany, University of Puerto Rico School of Medicine

Anupriya Singhal, Weill Cornell Medical College

Leland Soiefer, New York University School of Medicine

Robert Stanley, Albert Einstein College of Medicine of Yeshiva University

Catherine Stoeckle, Harvard Medical School

Shyam Sundaresh, Case Western Reserve University

Gaurav Varma, Drexel University College of Medicine

Antonio Velez, University of Puerto Rico School of Medicine

Kenneth Vera, Yale University

Nabeel Wahid, University of California, Irvine

Xiaohui Wang University of Kentucky

Xiaodi Wu, Washington University-St. Louis



Professional Pursuits

Subspecialty Fellowship Appointments

Cardiology

Guillaume Bassil, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Marissa Lombardo, *NYU-Langone Medical Center*

Neil Mehta, Georgetown University Medical Center

Brian Salata, Montefiore Medical Center

Endocrinology

Tariq Chukir, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Gastroenterology

Luis Barraza, NYU-Langone Medical Center

Amit Mehta, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

David Snell, NYU-Langone Medical Center

Geriatrics and Palliative Care

Angela Condo, Mount Sinai Hospital

Supriya Gerardine, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Hematology and Medical Oncology

Benjamin Diamond, *Memorial Sloan-Kettering Cancer Center*

Christopher Jakubowski, *Johns Hopkins University Medical Center*

Valery Li, University of Washington Medical Center

Erin Mulvey, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Jones Nauseef, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Juan Osorio, Memorial Sloan-Kettering Cancer Center

Infectious Disease

Josef Brejt, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Jessica Queen, Johns Hopkins University Medical Center

Integrative Medicine

Kevin Liou, *Memorial Sloan-Kettering*Cancer Center

Pulmonary and Critical Care Medicine

Alejandro Pino, *Duke University Medical Center*

Rheumatology

Elizabeth Park, *Columbia University Medical Center*

Other Professional Pursuits

Chief Residencies

Ayman Al Jurdi, Chief Medical Resident, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Joseph Bailey, Chief Medical Resident, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Virginia Corbett, Chief Medical Resident, Memorial Sloan-Kettering Cancer Center

Madison Dennis, Chief Medical Resident, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Melissa Rusli, Ambulatory Chief Resident, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Nilima Shet, Chief Medical Resident, Memorial Sloan-Kettering Cancer Center

Michael Wagner, QI Chief Resident, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Hospitalists

William Farver, Columbia University Medical Center

Lauren Parks, *Columbia University Medical Center*

Shani Scott, Montefiore Medical Center

Eric Stewart, Alaska Native Medical Center

Michael Torres Lizardi, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Winston Wong, *Memorial Sloan-Kettering Cancer Center*

Fangfei Zheng, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Academic Appointments

Elijah Douglass, Instructor in Medicine, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Brett Fischer, Instructor in Medicine, NewYork-Presbyterian Hospital/Weill Cornell Medical Center

Maurice Hinson, Clinical Instructor, NYU Medical Center, Tisch Hospital

Evan Stewart, Instructor in Medicine, Memorial Sloan-Kettering Cancer Center

Financial Report

The Weill Department of Medicine continued to experience solid financial growth in fiscal year 2017 with total operating funds equaling \$357.9 million, as compared with \$332.2 million in fiscal year 2016.

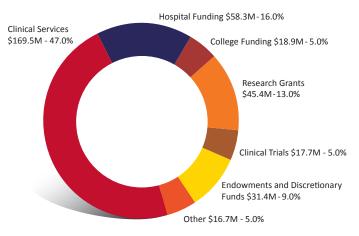
The Department's clinical enterprise revenue increased by 9.83% over fiscal year 2017. Patient care activities, as measured in outpatient encounters, remained steady at 275,142. Work RVUs remained relatively unchanged at 1,121,100. The increase in revenue is mainly attributed to growth in infusion activities of (\$13.3 M).

The Department's research grants activity in 2017 equaled \$45.4 million. Industry sponsored research decreased slightly in 2017 to \$17.7 million.

Medical education mission activities, which encompasses medical student education, the internal medicine residency program, and our many fellowship programs, continued to be a priority for the Weill Department of Medicine during fiscal year 2017.

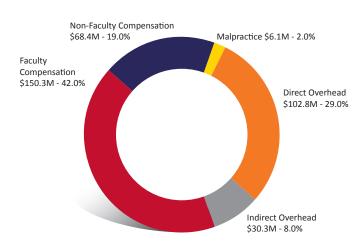
The Department's largest expense is its faculty, management, and staff costs, which consume almost 61% of the total annual budget. The remaining 39% of expenses is distributed among direct expenses (29%), indirect expenses (8%), and malpractice liability insurance (2%).

Sources of Funds (In Millions)



All Sources of Funds: \$357.9 Million

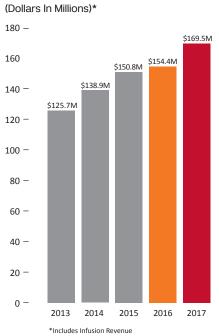
Use of Funds (In Millions)



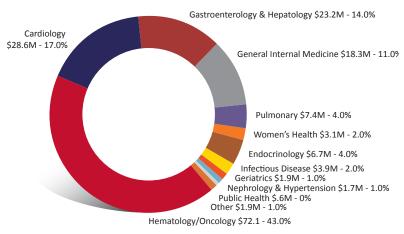
Total Use of Funds: \$357.9 Million

Financial Report

Annual Clinical Revenue Trend

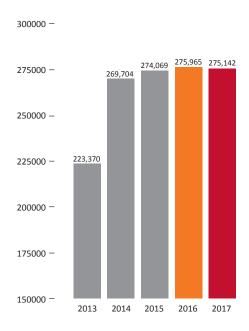


Clinical Revenue by Division (In Millions)

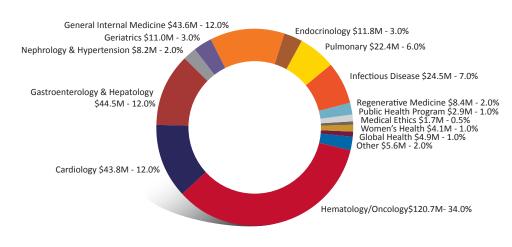


Total Clincial Revenue: \$169.5 Million

Annual Outpatient Visits

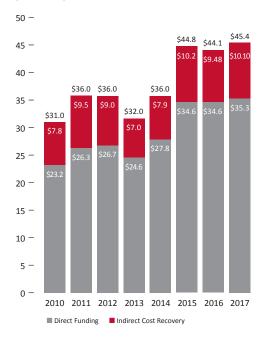


All Funds by Division Total Revenue (In Millions)

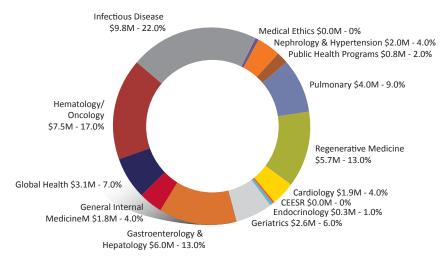


Total Revenue: \$357.9 Million

Research and Grant Expenditures Trend (In Millions)

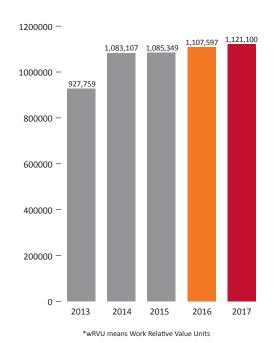


Research and Grants (In Millions)

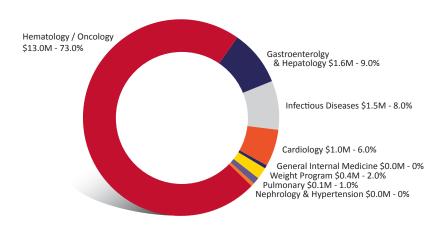


Total: \$45.4 Million

Annual wRVU Trend*



Clinical Trials Revenue (In Millions)



Total Clinical Trials Revenue: \$17.7 Million

Contacts

Chairman's Office

Sanford I. Weill Chairman
Joan and Sanford I. Weill Department
of Medicine

Anthony Hollenberg, M.D. Tel: (212) 746-4720

Executive Vice Chairman of Medicine

John P. Leonard, M.D. M.D. Tel: (212) 746-6420

Chief Administrative Officer

Thomas A. McGrath, MBA Tel: (212) 746-4271

Vice Chair for Education
Director, Internal Medicine Residency
Program

Kirana Gudi, M.D. Tel: (212) 746-4749

Residency Program Manager

Margie Daly Tel: (212) 746-4749

Administration

Associate Director, Faculty & Staff Support

Nancy Bennett Tel: (212) 746-4007

Associate Director, Budget & Accounting

Peter Kam

Tel: (212) 746-4007

Associate Director, Clinical Operations

Sophia Gibbs Tel: (212) 746-6753

Associate Director, Revenue and Compliance

Sean Butler, MBA, CPC Tel: (212) 746-4943 Associate Director, Research Administration

Kristen Brady Tel: (212) 746-4135

Associate Director, Budget & Accounting

Peter Kam

Tel: (212) 746-4518

Associate Director, Communications

Suzanne Ross Tel: (212) 746-4781

Divisional Offices

Cardiology

Bruce B. Lerman, M.D., Chief Ann Matier, Administrator Tel: (212) 746-2176

Clinical Epidemiology and Evaluative Sciences Research

Mary E. Charlson, M.D., Chief Tel: (646) 962-5060

Emergency Medicine

Rahul Sharma, M.D., Chief Georgia Rose, Administrator Tel: (212) 746-0780

Endocrinology, Diabetes & Metabolism

Julianne Imperato-McGinley, M.D., Chief Andrew Crawford, Interim Administrator Tel: (212) 746-1503

Gastroenterology & Hepatology

David E. Cohen, M.D., Ph.D., Chief Debbie Dimanche, Administrator Tel: (646) 962-4778

General Internal Medicine

Monika Safford, M.D., Chief Anita Mesi, Administrator

Tel: (212) 746-3443

Geriatrics and Palliative Medicine

Ronald D. Adelman, M.D., Co-Chief Mark S. Lachs, M.D., MPH, Co-Chief Cory Henkel, Administrator

Tel: (212) 746-1733

Hematology and Medical Oncology

David M. Nanus, M.D., Chief Paula Goldstein, Administrator

Tel: (212) 746-4550

Infectious Diseases

Roy M. Gulick, M.D., MPH, Chief Avi Bueno, Administrator Tel: (212) 746-4914

Iris Cantor Women's Health Center

Orli R. Etingin, M.D., Director Ellen Connelly, Administrator

Tel: (212) 821-0558

Medical Ethics

Joseph J. Fins, M.D., Chief Kristen Brady, Administrator Tel: (212) 746-1126

Nephrology and Hypertension

Manikkam Suthanthiran, M.D., Chief Thu Trang Du, Administrator

Tel: (212) 746-4430

Public Health Programs

Ann B. Beeder, M.D., Chief Gerard Ilaria, Administrator

Tel: (212) 746-5917

Pulmonary & Critical Care Medicine

Fernando J. Martinez, M.D., Chief Kathy Rosenberg, Administrator

Tel: (646) 962-2730

Rheumatology

Mary K. Crow, M.D., Chief Jessica Kovac, Senior Administrative Director

Tel: (646) 714-6273

For faculty listings across all divisions, as well as information on education and training, please visit our Weill Department of Medicine website at https://medicine.weill.cornell.edu



