“The moment

I stepped into the sun and tree-filled atrium of Mount Sinai Hospital, I knew I wanted to train here. The architectural thoughtfulness provides a respite for patients, families, and staff. In a similar way, the importance of emotional well-being is recognized by our program leaders. While residency is inherently challenging, our faculty cultivate a culture of support. During my Mount Sinai interview dinner, I remember overhearing several residents offer to cover an overnight shift for another resident so she could attend a family wedding. The kindness of my fellow residents and the beauty of our hospital inspire me every day.”

– Bridget Mueller, Class of 2019
2019-2020
Neurology Training at The Mount Sinai Hospital
“I loved how just within the first 2 weeks of starting PGY 2, I felt as though I was already a part of the Mount Sinai Neurology family. Everyone I met has been so collegial, open, and friendly. Whether it was sharing stories during morning report or bonding while responding to stroke codes in the middle of the night, I couldn’t imagine a better start working with my co-residents and mentors.”

- Kenneth Leung, Class of 2020
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Welcome to the Mount Sinai Department of Neurology! We hope that your interview day offers you a glimpse of the rich learning environment, cutting-edge research, and world-class patient care that make the Mount Sinai Neurology Residency an exceptional, foundational experience for each resident who graduates from our program.

As Director and Associate Director of the Mount Sinai Hospital Neurology Residency, we seek to provide an incomparable educational experience to our residents. We know that every resident in our program has the potential to make meaningful, unique contributions to the field; it is our responsibility to provide the support and guidance that will enable them to reach their highest aspirations. From the first day, we consider our residents to be colleagues. Each resident plays a vital role as a clinician, teacher, and collaborator. We also consider every resident as an accomplished physician in the context of a full, balanced life.

We are committed to wellness as a chief priority.

We believe mentorship is crucial during residency, and we have a well-established mentoring program. Many of the faculty with whom our residents work also completed their training here and have built their careers in our department. At the same time, our diverse department prides itself on recruiting top academic, clinical, and research faculty from around the country and world whose expertise powerfully enhances the education of our residents. We expect our residents’ interests to expand or evolve as they progress through the program; thus, their mentorship team needs to evolve, as well. We work to identify additional mentors to support each resident’s chosen path throughout.

We encourage all of our residents to participate in research during their training. The Friedman Brain Institute provides unsurpassed opportunities for academic engagement, and we have a highly successful R25 Research Residency track for those who are planning research-focused careers. A myriad of research opportunities also exist in other areas such as education scholarship, quality improvement, and resident
wellness. Our residents are highly productive, and they regularly present and publish their impactful work.

We are looking for residents who demonstrate professionalism, intellectual inquisitiveness, and a real passion for neurology. Most important, we are seeking those who desire to give the very best in evidence-based, compassionate care to every patient they encounter.

Upon graduation, you will take with you enduring lessons and lasting friendships. You will emerge as a seasoned, confident clinical neurologist, and as a critical thinker who pushes the boundaries of current knowledge in order to improve the world around you. We hope you enjoy your interview day, and that you can envision the possibilities that will await you as a Mount Sinai Neurology Resident.

Sincerely,

Michelle Fabian, MD
Director
MSH Neurology Residency Program

Stephen Krieger, MD
Associate Director
MSH Neurology Residency Program
Welcome from the Chair and Vice Chair of Education

Mount Sinai is unique and has an enormous advantage in that all of the education resources of the institution are focused exclusively on our School of Medicine and our Graduate School of Biomedical Sciences. Furthermore, these schools and all of the hospitals report to one President, himself an academic translational researcher. Thus, our culture has the ideal blend of a deep belief in the value of discovery and translational research, while simultaneously creating a path to thrive in an ever-changing health care environment. Our foundational missions include training the next generation of clinicians, clinician-educators, clinician-investigators, and future leaders in medicine, as well as providing high-quality patient care to all our New York City communities, including those that are under-resourced. This mission has been ingrained from the founding of the original hospital – the Jews’ Hospital – as a charitable institution, more than 160 years ago.

With substantial investment and support from the School and Health System, the Department has grown dramatically in education, research, and clinical care in the last four years. We have expanded our residency and array of fellowship training programs, had an approximately two-and-a-half-fold increase in NIH funding, and recruited 47 new faculty, who sought to join our thriving, growing department and who have been recruited both internally from our talented Mount Sinai graduates, as well as from major academic institutions around the U.S. including Harvard University, The University of California, Rockefeller University, Johns Hopkins University, University of Pennsylvania, Yale University, and others.

As examples, among the new areas in which we have recently built programs are health outcomes and knowledge translation research,
neuro-informatics, neuro-palliative medicine, and neuro-infectious diseases. We have two new fellowship training programs in development in neuro-oncology and pediatric neurology. We continue to recruit talented and well-trained faculty who hold the highest standards of professionalism and high-quality scholarship.

Please know that we are genuinely and deeply committed to providing a nurturing residency, both academically and emotionally. Our approach has successfully fostered a wonderful sense of camaraderie among our residents. Our goal is to provide the environment and mentorship for you to achieve your potential and your career aspirations.

Thank you so much for coming to learn about our programs and about our greatest resources, our faculty, trainees, and staff. Please feel welcome to reach out at any time with questions or for an additional visit.

Sincerely,

Barbara G. Vickrey, MD, MPH
System Chair

Aaron Miller, MD,
Vice Chair of Education
The Department of Neurology

Founded as a charitable hospital in 1855, with the mission to provide medical care for indigent Jews in New York City, the Mount Sinai Health System is now the largest private hospital system in New York City. The oldest Department of Neurology in New York City, we opened our inpatient service in 1900.

For well over a century, Department faculty have made significant contributions to medical knowledge through clinical and scientific research, trained many generations of neurologists, and held prominent positions on the national and international neurological stage.

With interdisciplinary centers focused on the most common and most complex neurological disorders, the Department provides patients with a unique blend of personalized care powered by our groundbreaking research teams and technology. This integrated approach is instrumental in our pursuit of improving outcomes in the treatment of Parkinson’s disease, epilepsy, multiple sclerosis, stroke, Alzheimer’s disease, and many other neurological disorders, referred from within our expansive health system, as well as from throughout the world.

A study of 125 U.S. neurology residency programs found that Mount Sinai had produced the 3rd highest number of graduates holding academic neurology faculty positions.

(Campbell, et al, Archives of Neurology, 2011;68:999-1004.)

The Department offers a variety of educational programs to impart a broad base of knowledge in neuroscience and the clinical ability to recognize and treat the full spectrum of neurologic diseases. The Health System’s span of facilities across Manhattan, Queens, and Brooklyn affords opportunities for elective rotations in diverse populations and settings. Multiple fellowship opportunities enable many choices for subspecialization after residency, as well as in-depth research opportunities funded by the National Institutes of Health. Mount Sinai also provides opportunities for advanced degrees in fields including master’s degrees in Epidemiology, Biomedical Informatics, and Clinical Research, among others.

The Department is at the nexus of an institutionwide neuroscience and neurological research effort at Mount Sinai, and it has achieved an enormous growth in research funding over the past four years. In 2018, the Department of Neurology at the Icahn School of Medicine at Mount Sinai received more than $21 million in National Institutes of Health (NIH) funding, propelling it into the top ten of all Departments of Neurology in the U.S. in NIH funding.
At the Icahn School of Medicine at Mount Sinai (ISMMS), diversity and inclusion are central to our approach to education, research, and clinical care. We strive to better address patient needs across the varied communities we serve by expanding the definition, scope, nature, and presence of diversity in the science and health professions.

This year, ISMMS appointed the nation’s first Dean for Gender Equity, following Mount Sinai’s creation of the Office of Diversity and Inclusion in 2014, the successful Racism and Bias Initiative launched in 2015, and the decade-long efforts of the Office of Women’s Careers. We are proud that we were named to the 2018 DiversityInc “Top 5 Hospitals and Health Systems” list, and received the 2017 and 2018 Higher Education Excellence in Diversity (HEED) award from INSIGHT Into Diversity magazine, the oldest and largest diversity-focused publication in higher education.

Mount Sinai is deeply committed to fostering diversity and inclusion initiatives at both the institutional and departmental levels. Hence, in 2019 we created a Neurology Department Diversity Committee, chaired by Uraina Clark, PhD. The Committee aims to address a variety of issues, including enhancing engagement and inclusion for all departmental members, increasing cultural effectiveness and education, and assessing and addressing clinical disparities. With the Chair’s goal of expanding diversity of the teaching faculty from underrepresented minority groups, three African American and two Hispanic faculty have been recruited to the department in the last 2 years. These actions are fully aligned with the notion that diversity and inclusion are integral to our collective health and success as a department.

Recently the medical school launched a new policy, effective January 1, 2020, pledging that it will only host and organize panels that include women and/or members of groups underrepresented in science and medicine. School leaders will also continue to conduct listening tours across the School with students, trainees, and faculty. These sessions provide a safe and welcoming space for the Icahn School of Medicine at Mount Sinai community to engage in conversations about enhancing diversity and inclusion, and identify actionable ways to further improve the institution as a whole.

Fighting inequity in medical education is critical in training the next generation of medical leaders so they can deliver best-in-class medical care, according to Dennis S. Charney, MD, the Anne and Joel Ehrenkranz Dean of the Icahn School of Medicine at Mount Sinai and President for Academic Affairs, Mount Sinai Health System. “In medicine, equity and excellence go hand in hand,” he said. “We do not just want to be actively engaged in these important conversations; we want to build on our successes and continue to lead on equity, diversity, and inclusion issues.”
Neurology Divisions and Centers

The Department of Neurology includes the full range of subspecialty divisions and programs offering comprehensive and compassionate care to children and adults. In addition, most of the divisions and programs offer fellowship opportunities. With the breadth of the Mount Sinai Health System across Manhattan, Queens, Brooklyn, and South Nassau, our trainees learn from complex and rare cases transferred in from across the Health System, in addition to referrals to our comprehensive care centers and programs from across the U.S. and around the world.

Corinne Goldsmith Dickinson (CGD) Center for Multiple Sclerosis

The CGD Center’s mission is to provide exceptional comprehensive care to patients with multiple sclerosis and other neuroinflammatory disorders, including neuromyelitis optica, anti-MOG antibody disease, autoimmune encephalitis, neurosarcoidosis, and CNS vasculitis. Faculty also engage in high-quality, cutting-edge clinical, basic, and translational research studies, and they provide educational services to patients and family members, students, residents, fellows, and practicing physicians. The CGD Center’s broad base of physicians, scientists, social workers, nurses, and related medical specialists offers state-of-the-art programs in disease management, including diagnostics, experimental therapeutics, basic and clinical research, psychiatric care, support services, and access to the latest clinical trials. Goals are the rapid translation of new discoveries into more effective treatments and training the next generation of clinician-scientists and clinician-educators for care of multiple sclerosis.

- Long-running support from National Multiple Sclerosis Society Center-sponsored Sylvia Lawry Physician Fellowships for post-residency clinical and research training
- Pre-clinical and clinical research on the microbiome in Multiple Sclerosis
- Clinical research studying diet, sleep, and other wellness-related factors in Multiple Sclerosis; launching new MS Wellness Center in 2020
- Multiple ongoing clinical trials with co-localization of research staff and clinical care in the CGD Center
- Dedicated neuropsychology research, clinical care, and training program in multiple sclerosis, with cutting-edge research on cognitive reserve in multiple sclerosis and NIH-funded research to identify modifiable risk and protective factors linked to cognitive decline
- One of a small number of Neuromyelitis Optica research and clinical care centers in the U.S.
- Autoimmune Encephalitis Program: a unique, multidisciplinary referral center for research and clinical care

Multiple Sclerosis Fellowship Program Available

MSH Teaching Faculty:

Fred D. Lublin, MD - Center Director; Director of the Multiple Sclerosis Fellowship Program, Saunders Family Professor of Neurology
Aaron Miller, MD - Center Medical Director, Professor of Neurology
Ilana Katz-Sand, MD - Center Associate Director, Assistant Professor of Neurology, Mount Sinai MS Fellowship Alum
Stephen C. Krieger, MD - Associate Professor of Neurology, Neurology Residency and MS Fellowship Alum
Michelle T. Fabian, MD - Assistant Professor of Neurology, Mount Sinai Neurology Residency and MS Fellowship Alum
James F. Sumowski, PhD - Co-Director of the Postdoctoral Fellowship in Clinical Neuropsychology and Clinical Research, Associate Professor of Neurology and Psychiatry
Sylvia Klimeova, MD, MS - Assistant Professor of Neurology, Mount Sinai Multiple Sclerosis Fellowship Alum
Anusha Yeshokumar, MD - Assistant Professor of Neurology and Pediatrics
Sam Horng, MD, PhD - Assistant Professor of Neurology and Neuroscience, Mount Sinai Neurology Resident-Researcher Training Program (R25) and Multiple Sclerosis Fellowship Alum
Stephanie Tankou, MD, PhD - Assistant Professor of Neurology
Achillefs Ntranos, MD - Assistant Professor of Neurology, Mount Sinai Neurology Resident-Researcher Training Program (R25) and Multiple Sclerosis Fellowship Alum
Vascular Neurology Division

Collaborating as teams across disciplines of neurology, neurosurgery, radiology, and neurocritical care, the Mount Sinai Stroke Center features 24/7 availability for emergency consultation and treatment, a specialized neurointensive care unit, a state-of-the-art stroke unit, and access to some of the latest clinical trials. Center faculty are recognized as leaders in stroke research and treatment, having pioneered major advances in medical therapies for treating and preventing stroke, neurosurgical techniques for stroke prevention, and innovative interventional neuroradiologic procedures for stroke patients.

- Stroke division faculty led successful application to become first hospital in New York City and first in New York State to receive Joint Commission Comprehensive Stroke Center designation
- ACGME-accredited vascular neurology fellowship, with fellows managing a high volume of patients across multiple hospitals within our health system due to being situated in a multidisciplinary stroke center that spans a multihospital health system
- Tele-neurology and neuroimaging applications facilitate acute stroke treatment that is coordinated throughout the Mount Sinai Health System
- Residents and fellows train with world-class neuro-interventional faculty from multiple disciplines: neurology, neurosurgery, and radiology
- Substantial resident mentorship in stroke epidemiology and outcomes research

**ACGME Vascular Neurology Fellowship Program Available**

**CAST-accredited Neuroendovascular Surgery Fellowship Program Available**

MSH Teaching Faculty:

Stanley Tuhrim, MD – Division Chief Professor of Neurology, and Geriatrics and Palliative Care
Mount Sinai Neurology Residency Alum

Mandip S. Dhamoon, MD, DrPH – Director of the Vascular Neurology Fellowship Program
Associate Professor of Neurology

Johanna T. Fifi, MD – Co-Director of the Neuro-endovascular Surgery Fellowship (Neurosurgery)
Associate Professor of Neurology, Neurosurgery, and Radiology

Qing Hao, MD, PhD – Medical Director, Stroke Center at Mount Sinai Queens
Assistant Professor of Neurology

Jesse Weinberger, MD – Professor of Neurology

Deborah R. Horowitz, MD, MS – Associate Professor of Neurology
Mount Sinai Neurology Residency and Cerebrovascular Disease-Stroke Fellowship Alum

Kara F. Sheinart, MD – Assistant Professor of Neurology
Mount Sinai Neurology Residency Alum

Laura K. Stein, MD – Assistant Professor of Neurology
Mount Sinai Neurology Residency and Cerebrovascular Disease-Stroke Fellowship Alum

Michael Fara, MD, PhD – Assistant Professor of Neurology

Benjamin R. Kummer, MD – Assistant Professor of Neurology
Robert and John M. Bendheim Parkinson and Movement Disorders Center

Center physicians, working in partnership with nurse practitioners and social workers, are experts in diagnosing and treating hyper- and hypokinetic movement disorders including Parkinson’s disease and parkinsonism, tremor, dystonia, Huntington’s disease, myoclonus, and others. State-of-the-art diagnostic and treatment services include inpatient and outpatient consultation, chemodenervation and medication management, and screening and follow-up care for deep brain stimulation (DBS), in collaboration with research and care teams at Mount Sinai West, including neurosurgeon Brian Kopell. Treatment programs are complemented by robust clinical trial engagement in order to contribute to the discovery of more effective treatments for these often debilitating disorders, as well as basic science research in Parkinson’s disease.

- High-volume teaching clinic and movement disorder video teaching rounds and clinico-pathologic conferences
- Active in clinical trials in various movement disorders, including progressive supranuclear palsy, Parkinson’s disease, deep-brain stimulation, essential tremor, and cervical dystonia
- Significant NIH and philanthropic funding for basic research into the mechanisms underlying the pathophysiology of Parkinson’s disease and other movement disorders

- Movement Disorders Fellowship Program Available

Neuromuscular Disease Division

The Neuromuscular Disease Division offers personalized, state-of-the-art care for disorders in neuromuscular transmission, muscle diseases, and peripheral neuropathies. Faculty are highly experienced in diagnosing and managing these disorders, providing a complete range of diagnostic testing services, including nerve conduction studies and needle electromyography; neuromuscular ultrasound; autonomic testing; and skin, nerve, and muscle biopsies using the most advanced techniques and technologies.

- Referral hub for patients with peripheral neuropathies, myasthenia gravis, and other complex neuromuscular disorders
- Division faculty have led seminal studies in the use of botulinum toxin in spasticity and movement disorders, and novel agents in neuropathic pain
- Federally funded research on implementation of CDC opioid-prescribing guidelines for chronic pain in high-risk populations

- ACGME Fellowships in Neuromuscular Medicine and Clinical Neurophysiology (EMG specialization) Available

MSH Teaching Faculty:

Winona Tse, MD – Site Director, Movement Disorders
Associate Professor of Neurology
Mount Sinai Neurology Residency Alum

Fiona Gupta, MD – Director of Movement Disorders Outreach Program
Assistant Professor of Neurology and Neurosurgery

Zhenyu Yue, PhD – Director of Basic and Translational Research of Movement Disorders
Aidekman Family Professor of Neurology and Neuroscience

MSH Teaching Faculty:

David M. Simpson, MD – Director, Clinical Neurophysiology Laboratories at MSH
Professor of Neurology

Susan C. Shin, MD – Fellowship Director
Assistant Professor of Neurology
Neurology Residency and Clinical Neurophysiology Fellowship Alum

Mark A. Sivak, MD – Assistant Professor of Neurology
Mount Sinai Neurology Residency Alum

Jessica Robinson-Papp, MD, MS – Director, Autonomic Testing Laboratory
Associate Professor of Neurology
Mount Sinai Neurology Residency and Clinical Neurophysiology Fellowship Alum
Epilepsy Program

The Epilepsy Program offers compassionate and comprehensive diagnosis and care for people with epilepsy and related disorders. Program faculty work closely with a large team of nurse practitioners, an outreach coordinator, a social worker, a recreational therapist, and a nutritionist; a full-time faculty neuropsychologist is also dedicated to the program. At the Mount Sinai Hospital campus, the program includes a high-volume inpatient epilepsy monitoring unit and full outpatient electroencephalography (EEG), and diagnostic capabilities. The program embraces a multidisciplinary approach to treatment options, including lifestyle modifications, medications, and surgical interventions.

- No. 2 in the world in number of responsive neurostimulation implants
- Highest (Level 4) accreditation of the National Association of Epilepsy Centers, for the Mount Sinai Hospital Epilepsy Monitoring Unit/Epilepsy Center
- Expansion of referrals of complex cases through outreach to Mount Sinai affiliates in Queens, South Nassau, and Brooklyn
- Invited to host 2020 International Pharmaco-EEG Society Biennial Meeting
- Active portfolio of knowledge translation research in epilepsy

- ACGME Fellowship Programs in Epilepsy and in Clinical Neurophysiology (EEG specialization) Available

MSH Teaching Faculty:

Lara V. Marcuse, MD – Epilepsy Program Co-Director
Associate Professor of Neurology and Neurosurgery

Madeline C. Fields, MD – Epilepsy Program Co-Director
Associate Professor of Neurology and Neurosurgery
Mount Sinai Neurology Residency Alum

Ji Yeoun Yoo, MD – Epilepsy Fellowship Program Director
Assistant Professor of Neurology
Mount Sinai Neurology Residency Alum

Anuradha Singh, MD – Director of Outreach; Clinical Neurophysiology Fellowship Program Director
Professor of Neurology

H. Allison Bender, PhD, ABPP-CN – Director of Neuropsychological Services
Assistant Professor of Neurology and Psychiatry

James (“Jake”) Young, MD, PhD – Assistant Professor of Neurology and Neurosurgery
Mount Sinai Neurology Resident-Researcher Training Program (R25) and Clinical Neurophysiology Fellowship Alum

Nathalie Jetté, MD, MSc – Bluhdorn Professor of Neurology and Population Health Science and Policy

Leah Blank, MD, MPH – Assistant Professor of Neurology and Population Health Science and Policy
Neuro-Oncology Division

The division of Neuro-Oncology at the Tisch Cancer Institute, a National Cancer Institute-designated Cancer Center, has had rapid growth with three new faculty recruitments in the last two years. We design treatment plans for patients with primary brain tumors, including glioblastoma, CNS lymphoma, and rare primary CNS malignancies such as medulloblastoma, germinoma, and spinal cord tumors. We provide subspecialty consultation to medical oncology on best treatment approaches to nervous system metastases. We incorporate novel treatment modalities including CAR-T cells therapy, immunotherapy, and small molecular targeted therapy. Employing a multidisciplinary approach, we partner closely with colleagues across Neurosurgery, Medical Oncology, Radiation Oncology, Neuroradiology, Neuropathology, Rehabilitation Medicine, and Palliative Care.

• Clinical trial launched to test a personalized vaccine for glioblastoma patients that is based on an individual’s mutation-derived tumor antigen

• PGY-2 Year rotation in inpatient Neuro-oncology consult service at Mount Sinai Hospital, with wide exposure to primary brain tumors and neurologic complications of cancer; many residents elect to return for additional subspecialty rotation

• Amy Chan, MD, MS, is one of five faculty from throughout the entire Mount Sinai Health System to receive the 2019 Mount Sinai Institute for Medical Education’s Excellence in Teaching Award

MSH Teaching Faculty:

Adilia Hormigo, MD, PhD – Division Chief
Professor of Neurology, Medicine, and Neurosurgery

Amy M. Chan, MD, MS – Director of Inpatient Neuro-Oncology Consult Service
Assistant Professor of Neurology, Neurosurgery, and Medicine

Lyndon Kim, MD – Director of Clinical Research in Neuro-Oncology; Medical Director of Skull-Based and Rare CNS Malignancies
Professor of Neurology, Medicine, and Neurosurgery

Ashley Roque, MD – Assistant Professor of Neurology, Medicine, and Neurosurgery
Center for Headache and Facial Pain

The Mount Sinai Center for Headache and Facial Pain is a multidisciplinary center specializing in the diagnosis and treatment of chronic and acute headaches and other painful disorders of the skull, brain, and face in adults and children. Six subspecialty-trained faculty at the Mount Sinai Hospital campus, working with a dedicated nurse practitioner, employ the newest technologies including a state-of-the-art fluoroscopy suite, as well as acupuncture, botulinum toxin injections, nerve blocks, and a range of pharmacologic therapies including infusion therapies. Care goals are to make accurate diagnoses and provide tailored, evidence-based treatment, with a focus on complex cases.

• Low-Pressure Headache Program
• Recently established Transgender Headache Medicine Program
• Offers virtual visits/teleneurology outpatient visits for established headache patients

UCNS-certified Headache Medicine Fellowship Program Available

Center for Cognitive Health

The Center for Cognitive Health provides expert care for patients struggling with memory and other cognitive impairments, including subjective cognitive complaints, mild cognitive impairment, dementia secondary to Alzheimer’s disease, vascular disease, Lewy body disease, frontotemporal lobar degeneration, and chronic traumatic encephalopathy (CTE). In addition, the Center provides care for patients with cognitive and behavioral complaints secondary to traumatic brain injury, stroke, epilepsy, multiple sclerosis, and Parkinson’s disease, among other neurologic disorders. The Center features a multidisciplinary team of neurologists, geriatricians, neuropsychologists, and translational neuroscientists, and partners with social work, nursing, and advanced practice providers. Faculty provide expert diagnostic assessments and management of patients referred from all over the world, and they lead Center investigator-initiated studies for various cognitive disorders, as well as recruit into clinical trials of the longstanding Mount Sinai Alzheimer’s Disease Research Center.

• Ongoing, investigator-initiated clinical trial of the glutamate modulator riluzole in mild Alzheimer’s disease
• Ongoing study of biomarkers for the antemortem diagnosis of CTE in athletes and veterans
• One of 5 medical centers in the U.S. selected as the Neurological Care Program for retired NFL players
• Translating innovative coordinated care models for dementia into the practice

UCNS-certified Behavioral Neurology and Neuropsychiatry Fellowship Program Available

MSH Teaching Faculty:

Mark W. Green, MD – Center Director
Professor of Neurology, Rehabilitation Medicine, and Anesthesiology

Jihan A. Grant, MD – Associate Center Director for Program Development;
Center Director of Clinical Trials Research
Assistant Professor of Neurology and Anesthesiology

Lauren R. Natbony, MD – Headache Medicine Fellowship Program Director
Assistant Professor of Neurology
Mount Sinai Headache Fellowship Alum

Rachel Colman, MD - Assistant Professor of Neurology
Mount Sinai Headache Fellowship Alum

Anna Pace, MD - Assistant Professor of Neurology
Neurology Residency and Headache and Facial Pain Fellowship Alum

Wilson D. Heredia Nunez, MD - Assistant Professor of Neurology and Pediatrics

MSH Teaching Faculty:

Sam E. Gandy, MD, PhD – Center Director; Behavioral Neurology and Neuropsychiatry Fellowship Program Director
Professor of Neurology and Psychiatry

Georges Naasan, MD – Medical Director, Center for Cognitive Health
Associate Professor of Neurology, and Geriatrics and Palliative Medicine

Trey Hedden, PhD – Director,
Neuroimaging and Biomarker Research
in Aging and Alzheimer’s Disease
Associate Professor of Neurology, Radiology, and Neuroscience

Ana Pereira, MD, MS - Assistant Professor of Neurology and Neuroscience

Julie Ciardullo, MD, MBA - Assistant Professor of Neurology
Behavioral Neurology and Neuropsychiatry Fellowship Alum

Harry Ramos, MD - Assistant Professor of Geriatrics and Palliative Medicine, and Neurology

Joanne Festa, PhD - Assistant Professor of Neurology
Pediatric Neurology Division

The Pediatric Neurology Division aims to provide patient-centered, compassionate, and proactive approaches to care. Pediatric patients and their families have unique needs, which our expert faculty and nurse practitioners address through all facets of a child's neurological diagnosis. The team has expertise in caring for a variety of disorders that affect the child's brain, spinal cord, and peripheral nerves, including epilepsy, seizures, stroke, headache, muscle disorders, movement disorders, autoimmune neurologic disorders (encephalitis and multiple sclerosis), neonatal encephalopathy, developmental and intellectual disability, learning disorders, autism, and neurobehavioral disorders.

- High-volume pediatric neurology consult service and twice-weekly pediatric neurology teaching clinics support excellent training during pediatric neurology rotations both for primary neurological disorders and for neurological complications seen in complex patients at Kravis Children's Hospital (part of Mount Sinai Hospital), including its Neonatal Intensive Care Unit

- Comprehensive care for children with epilepsy and seizures disorders is provided in a dedicated pediatric epilepsy monitoring unit at Kravis Children's Hospital, including a pediatric epilepsy surgical program

- Unique subspecialty programs in pediatric headache and in autoimmune neurology, which includes a multidisciplinary referral center for research and clinical care of autoimmune encephalitis and pediatric-onset multiple sclerosis

- Internationally recognized pediatric program to evaluate and treat children with AVMs, vein of Galen malformations, aneurysms, and other cerebrovascular disorders

- Collaborative clinical research into genetic etiologies of developmental disoders and epilepsy

- Basic science investigation into common pathophysiologic mechanisms of genetic dystonias, and Neonatal Opioid Withdrawal Syndrome

MSH Teaching Faculty:

Walter J. Molofsky, MD – Division Chief
Associate Professor of Neurology and Pediatrics

Michelle Ehrlich, MD - Professor of Neurology, Pediatrics, and Genetics and Genomic Sciences

Hillary R. Raynes, MD – Director, Pediatric Neurology Teaching Clinic
Associate Professor of Neurology and Pediatrics

Maite La Vega-Massello, MD - Assistant Professor of Neurology and Pediatrics

Anusha Yeshokumar, MD – Director, Lumbar Puncture Training Program
Assistant Professor of Neurology and Pediatrics

Wilson D. Heredia Nunez, MD - Assistant Professor of Neurology and Pediatrics
Neurocritical Care Division

The Neurocritical Care team cares for critically ill neurological and neurosurgical patients. A team of neuro-intensivist physicians, neuro-ICU nurses, and other allied health professionals provide excellent patient-centered care for brain- and spinal cord-injured patients across the spectrum of neurocritical care. An 18-bed, state-of-the-art, patient-centered Neurosciences ICU opened in October 2019, having the latest integrated data management platforms, continuous EEG monitoring, and an integrated CT-suite. It leverages the principles of artificial intelligence and machine learning to help patients embark on the best possible trajectory toward recovery. To enhance family engagement, the unit has open visitation, family involvement on rounds, family zone in every room, and dedicated areas to inspire learning and research and foster collaboration among all our trainees and faculty.

• Monthly meetings of leadership of neurocritical care, stroke, and general neurology faculty, fellows, and residents, to assess and continually improve workflow and communication

• Developed an innovative new program – Neuro Emergencies Management and Transfers (NEMAT) and Telehealth initiatives that has helped triage and treat more than 1,000 patients with Neuro emergencies annually. A robust database that tracks patient outcomes supports quality improvement projects

• Division faculty lead the Mount Sinai Critical Care Resilience Program (MSCCRP), a multidisciplinary Program for innovative projects such as the Post-ICU Recovery Clinic and ICU diaries, with the goal of “humanizing the ICUs”

• Participate in NIH- and industry-sponsored clinical trials

• UCNS-certified Neurocritical Care Fellowship Program Available

MSH Teaching Faculty:

Neha S. Dangayach, MD – Co-Director, Neurocritical Care Unit and Director, Neurocritical Care Fellowship Assistant Professor of Neurosurgery and Neurology

Cappi C. Lay, MD – Co-Director, Neurosciences Intensive Care Unit Assistant Professor of Neurosurgery

Alexandra S. Reynolds, MD – Director, TeleNeurocritical Care Assistant Professor of Neurosurgery and Neurology

Kaitlin J. Reilly, MD – Director, Brain and Spine Multimodal Monitoring Assistant Professor of Neurosurgery and Neurology

John W. Liang, MD – Associate Director, TeleNeurocritical Care Assistant Professor of Neurosurgery and Neurology
Neuro-Ophthalmology Division

With a large outpatient practice located on the Mount Sinai Hospital campus and multiple locations around the health system where affiliated faculty and practices are based (including New York Eye and Ear Infirmary), the neuro-ophthalmology division is led by a board-certified neurologist and ophthalmologist, with decades of experience in diagnosing, treating, and conducting research in a wide range of conditions, including optic neuritis and other inflammatory optic nerve diseases; ptosis and double vision; idiopathic intracranial hypertension; meningioma, pituitary tumor, aneurysm, and craniopharyngioma; unexplained visual loss; untreated neurovascular disorders; and acute optic nerve injury. Three additional renowned faculty are ophthalmology and neuro-ophthalmology trained.

• Electives available for neurology residents
• More than 3,400 neuro-ophthalmology outpatients seen in 2018
• The Neuro-Ophthalmology Research Disease Investigator Consortium (NORDIC), an NIH- and industry-supported clinical trial and research network, is based at Mount Sinai
• Major multisite NORDIC trials include the first study to establish the therapy and guidelines for management of idiopathic intracranial hypertension (IIH); the first trial on acute neuroprotection for optic nerve injury; and an ongoing comparative effectiveness study of surgery and medical therapy in IIH and moderate/severe vision loss
• New research in optical imaging of the optic nerve in intracranial hypertension, ischemic optic nerve injury, and optic neuritis, with deep learning approach to imaging swollen optic nerve; Phase II study on early intervention on ocular myasthenia gravis

General Neurology Division

The mission of the Division of General Neurology is to provide high level neurologic consultation and management for the full spectrum of neurological disorders in both outpatient and inpatient settings, and to provide teaching for students and residents, as well as for patients and colleagues, in the context of ongoing clinical practice. The division includes full-time faculty with decades of prior experience in private practice, who bring this perspective and extensive expertise to the residency training experience.

MSH Teaching Faculty:
Mark Kupersmith, MD – Division Chief
Professor of Neurology, Ophthalmology, and Neurosurgery

Charles B. Stacy, MD – Division Chief
Associate Professor of Neurology
Mount Sinai Neurology Residency Alum

David J. Bronster, MD –
Professor of Neurology
Mount Sinai Neurology Residency Alum

Betty J. Mintz, MD –
Assistant Professor of Neurology

Vanessa Tiongson, MD –
Assistant Professor of Neurology
Recent and Distinctive Programs and Divisions

Neuro-Otology and Neurogenetics Division

Neuro-otology focuses on the inner ear and its connections to the brain in the control of eye movement, coordination, balance, and hearing. The Department of Neurology has had a distinguished history in making seminal contributions to the functional anatomic and neurophysiologic basis of eye movement control and translating these mechanistic insights to innovative treatment for vestibular disorders. The division is led by a neurologist with formal training in neuro-otology, who evaluates and treats patients with dizziness due to benign paroxysmal positional vertigo, vestibular migraine, and other common conditions, as well as rare hereditary neurodegenerative conditions such as episodic ataxia and pontocerebellar hypoplasia. Genetic predispositions are increasingly recognized in many neuro-otological disorders, particularly the development and degeneration of the cerebellum. Research by division faculty includes elucidation of the genetic and physiological bases of disorders affecting balance and eye movement control in neurodevelopment and neurodegeneration, through cellular and animal studies, and clinical trials, as well as studies of genetic basis of movement disorders, including Parkinson's disease, essential tremor, spastic paraplegia, ataxia, and primary and secondary dystonia.

- Neuro-otology clinic and multidisciplinary clinical conferences on the evaluation and management of patients with dizziness, imbalance, and hearing loss
- Close collaboration with Otolaryngology, Neurosurgery, Physical Therapy/Rehabilitation Medicine, and Genetics and Genomic Sciences, with clinical and research opportunities for students and residents in neuro-otology and/or neurogenetics
- Site of NIH-sponsored AVERT trial that compares current diagnosis in the emergency department to a novel diagnostic strategy of portable eye movement diagnostics combined with computer-based decision support to improve accuracy and efficiency

- Neuro-Otology and Neurogenetics Fellowship Program Available

MSH Teaching Faculty:

Joanna Jen, MD, PhD - Division Chief
Morris B. Bender Professor of Neurology, Neurosurgery, and Otolaryngology
Bernard Cohen, MD - Emeritus Professor of Neurology
Coro Paisan-Ruiz, PhD - Associate Professor of Neurology and Psychiatry
Sergei Yakushin, PhD - Associate Professor of Neurology
Jun Maruta, PhD - Instructor, Neurology
Neuro-Infectious Diseases Division

Division faculty engage in expert clinical care for a range of diseases, including nervous system complications of HIV, CNS opportunistic infections, neurosyphilis, meningitis, and others. The division supports a large portfolio of research in neuro-HIV, which integrates clinical research and patient care, education, and community outreach, with the aim of improving the lives of people living with neurologic complications of HIV. The team’s expertise includes neurology, neuropsychology, and health psychology, and is closely allied with the Manhattan HIV Brain Bank research program and the Clark Neuropsychology Laboratory, which add additional expertise in neuropathology and neuroimaging.

- One of four NIH-funded HIV Brain Banks in the U.S., with more than 20 years of continuous funding
- The largest longitudinal multidisciplinary neuro-HIV cohort in New York City, with more than 250 research visits annually
- Diverse portfolio of clinical neuro-HIV research, including projects to study autonomic dysfunction, neurodegenerative disease, cerebrovascular disease and motor dysfunction, opioid use and pain management, nervous system and immune reconstitution disease in the African epidemic, peripheral neuropathy, impacts of early life stress on neuro-HIV disease, and sociocultural factors in the generation of cognitive and psychosocial difficulties
- Neurologic care for the ISMMS Institute for Advanced Medicine, which follows more than 10,000 people living with HIV in NYC
- Neuro-Infectious Diseases Fellowship Program Available

MSH Teaching Faculty:

Susan Morgello, MD – Division Chief
Professor of Neurology, Neuroscience, and Pathology

Jessica Robinson-Papp, MD, MS – Director, NeuroAIDS Program
Associate Professor of Neurology
Mount Sinai Neurology Residency and Clinical Neurophysiology Fellowship Alum

Uraina Clark, PhD – Chair,
Department Diversity Committee
Assistant Professor of Neurology

Allison P. Navis, MD – Director,
Resident Teaching Clinic
Assistant Professor of Neurology
Neuro-infectious Diseases Fellowship Alum

Desiree A. Byrd, PhD, ABPP-CN -
Associate Professor of Neurology and Psychiatry

Monica Rivera-Mindt, PhD, ABPP-CN -
Assistant Clinical Professor of Neurology and Psychiatry
Neuro-Informatics

The premise for building neuro-informatics capacity within the Department of Neurology is the belief that information technology (IT) – when applied correctly – can enhance care quality, efficiency, and value in health care.

In 2018, the department recruited Benjamin Kummer, MD, a neurologist board certified in clinical informatics, incorporating resources to support a full-time Epic programmer. Working in partnership with an internal Epic billing/coding optimization group, an implementation specialist, and faculty across all divisions, Dr. Kummer and his team are modifying Epic configurations to improve clinical operations in Neurology, while increasing faculty well-being and self-efficacy with respect to clinical documentation and work credit.

Dr. Kummer also works closely with the Mount Sinai Health System Epic IT team to seamlessly deploy systemwide projects across Neurology, such as virtual ambulatory visits and e-consults. Partnering with Dr. Jetté and the Health Outcomes/Knowledge Translation Research division, current research support projects include clinical decision support tools in ambulatory stroke and epilepsy, and predictive models for admission and clinical deterioration in hospitalized neurological patients.

Dr. Kummer is faculty in the Clinical Informatics Fellowship Training program at Mount Sinai, providing opportunity for neurologist trainees to engage in this career path.
**Neuro-Palliative Medicine**

Neuro-Palliative medicine is a new-and-growing subspecialty focused on improving quality of life for patients with serious neurologic illness, such as brain tumors, amyotrophic lateral sclerosis, Parkinson's Disease, dementia, cerebrovascular disease, and others. Neurologists with subspecialty training in palliative medicine provide expertise in comprehensive symptom management, communication about medical decision-making (including goals of care discussions and advanced care planning), and psychosocial support. There is increasing recognition in the neurology community of the need for such specialists, as well as for research regarding palliative care outcomes for neurologic disease.

The Department of Geriatrics and Palliative Medicine at Mount Sinai has a large, renowned ACGME-accredited palliative medicine fellowship program. The Department of Neurology has recruited Rita “Caroline” Crooms, MD, a neurologist who completed the palliative medicine fellowship at Mount Sinai in June 2019, to establish a program of neuro-palliative care research, education, and clinical expertise.

During her 2-year research fellowship as an Instructor, Dr. Crooms is developing protocols to build a long-term program of research on improving quality-of-life outcomes for patients with high-grade glioma. In addition, she is developing didactic teaching sessions for Mount Sinai's neurology residents on topics, including goals of care discussions with patients and families, and communicating about uncertainty in neuro-prognostication.

Dr. Crooms is also establishing an outpatient neuro-palliative medicine practice to provide consultative service to colleagues primarily in neurology, and each month, she joins the Amyotrophic Lateral Sclerosis Clinic at Mount Sinai Downtown Union Square to enhance the multidisciplinary services provided there. She is also working with health system leadership to develop a strategy to improve introduction of palliative care to the neuro-critical care unit, focusing on patients with intracerebral hemorrhage.

**MSH Teaching Faculty:**

Rita “Caroline” Crooms, MD - Instructor in Neurology, and Geriatrics and Palliative Medicine
“My decision to choose Mount Sinai was an easy one. It became very clear to me that the neurology department was deeply invested in its residents. They have created a warm and welcoming environment that prioritizes resident education and development. I knew that whatever challenges I faced ahead and whatever path I would choose to take my future career, there would always be support from the attendings and my fellow residents.”

- Helen Cheung, Class of 2020
Support for Residents Engaged in Clinical and Health Services Research Projects

Clinical Research: Neurology Biostatistics and IRB/Regulatory Core Resources
Residents pursuing research projects have access to expert guidance on study design, data collection, and statistical analysis. The Neurology Biostatistics Clinic, led by Parul Agarwal, PhD, Department of Population Health Science and Policy, occurs twice each month to answer statistical questions about current and future research projects. There is also an MSc-level statistical programmer with expertise in major statistical software programs. The Neurology Department also has a Clinical IRB/Research Regulatory Advisor, who has a deep understanding of the regulatory navigation for clinical studies, ranging from study conceptualization to the final process of closing out regulatory documents and contracts.

NIH-Funded Clinical Trial Networks

**NeuroNEXT**
Funded by the National Institute of Neurological Disorders and Stroke (NINDS), the Network for Excellence in Neuroscience Clinical Trials, or NeuroNEXT, was created to expand the capacity of NINDS to rapidly test promising new therapies for neurological diseases through partnerships with academic institutions, private foundations, and industry. The ISMMS Department of Neurology is a NeuroNEXT Site led by multi-PIs Aaron Miller, MD, and Adilia Hormigo, MD, PhD, and Director of Career Enhancement Nathalie Jetté, MD, MSc. NeuroNEXT presents a rich environment for early stage investigators to develop essential skills in clinical trial research, and the Department offers a NeuroNEXT fellowship for junior faculty or fellows who have a long-term career interest in clinical trials research and demonstrated potential for an academic clinical research career.

EPPIC-Net
The Early Phase Pain Investigation Clinical Network Pain research network, or EPPIC-Net, was established to address the opioid crisis by accelerating early phase clinical trial testing of non-opioid drug and device strategies for pain relief. Jessica Robinson-Papp, MD, MS, of the Department of Neurology is PI of a multidisciplinary site at Mount Sinai in this national network, one of the first round of sites funded by NIH.

Division of Health Outcomes and Knowledge Translation Research
The Division of Health Outcomes and Knowledge Translation Research was established in 2017, with the vision of developing expertise and a strong collaborative environment for knowledge translation research across multiple divisions. Health technologies, e-health, and big data have an ever-expanding role in facilitating the collection of patient-reported outcomes and the implementation of knowledge into practice. Knowledge translation research is aligned with the triple aim of improving the patient experience, improving population health, and reducing health care costs. Major research areas are evaluating the effect of health care processes and interventions on the health of individuals and populations, as well as pioneering new approaches to fill the knowledge-to-action gap at all levels of neurological care. Goals are to address a broad range of patient-related outcomes, ensuring that patients are correctly diagnosed using the best and most accurate technologies so they are referred in a timely manner, and patients receive evidence-based, cost-effective treatment and quality of care. Neurological care gaps (including disparities in care) also need to be considered to ensure the right patient gets the right treatment at the right time. Division staff include an implementation science specialist as well as these core faculty:

- Nathalie Jetté, MD, MSc – Division Chief, Bluhdorn Professor of Neurology, and Population Health Science and Policy
- Anusha K. Yeshokumar, MD - Assistant Professor of Neurology and Pediatrics
- Benjamin R. Kummer, MD - Assistant Professor of Neurology
- Leah J. Blank, MD, MPH - Assistant Professor of Neurology and Population Health Science and Policy
- Barbara G. Vickrey, MD, MPH - System Chair; Henry P. and Georgette Goldschmidt Professor of Neurology
Examples of Resident Scholarship and Faculty Mentorship

Every year, MSH neurology residents, students, and fellows, with the mentorship of Department faculty, present research at meetings such as the American Academy of Neurology, the American Neurological Association, and the International Stroke Conference, among others.
Neurology Residency Program at Mount Sinai

The Neurology Residency Program is designed to provide residents with a broad knowledge base in neuroscience and clinical abilities to recognize and treat the full spectrum of neurologic diseases. The program provides extensive clinical and didactic grounding to enable the trainee to handle and understand the growing body of neuro-diagnostics and neuro-therapeutics throughout their careers. We encourage each resident to develop maturity, responsibility, and empathy critical to the modern practice of neurology. We develop residents’ skills across the full range of ACGME core competencies, including professionalism, interpersonal and communication skills, and foster an aptitude for systems-based practice. By graduation, each of our residents is grounded in basic neuroscience, has had broad clinical experience, and becomes a seasoned clinician-scientist, poised to become a professional neurologist of the highest caliber.

Overview of the Residency Schedule: PGY1-4

<table>
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<tr>
<th>PGY-1</th>
<th>Categorical Year - Internship</th>
<th>Eight, 4-week blocks on an array of medical services <strong>16-weeks of elective</strong> – typically includes both neurology and non-neurology specialties, neuroscience, neuro-education research, or other fields of interest</th>
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| PGY-2 | First Year of Neurology Residency | **Summer Schedule:**
| | | “Buddy call” senior resident in the hospital at all times
| | | Summer lecture series including neurology basics, hands-on training in running codes and performing lumbar punctures
| | | **Remainder of year:**
| | | General neurology, stroke, consult, and neuro- oncology services at Mount Sinai Hospital (MSH)
| | | Neurosurgical ICU and ambulatory clinic at MSH
| | | Consult service at Bronx VA
| | | Daily morning report, weekly grand rounds, chief of service rounds, daily didactic conferences as part of year-long neuroscience curriculum series **6 weeks of elective** |
| PGY-3 | Second Year of Neurology Residency | 20 weeks of 2-week or 4-week block rotations at Elmhurst Hospital, acting as senior resident on the general neurology and consult services and outpatient clinic
| | | Neurologic Emergencies consult service blocks at MSH, as well as blocks in pediatric neurology and neurophysiology at MSH
| | | **Remainder of year at the Bronx VA Hospital, supervising PGY-2 residents** **6 weeks of elective** |
| PGY-4 | Third Year of Neurology Residency | Serve as senior residents on the general neurology, stroke, and consult services at MSH
| | | Additional time on pediatric neurology and psychiatry
| | | Expanded consult service working with PGY-3s, dividing Neurologic Emergencies from Inpatient Consult service
| | | 2 weeks on night float as part of the “buddy call” system **14 weeks of electives and Teaching Resident blocks** |
The warm rapport among residents, close communication with faculty, diversity of our patient population, and emphasis on outstanding patient care lie at the heart of our program. We take duty hours seriously and prioritize resident wellness. Our schedules comply with the ACGME work-hours limitations and New York State Bell Commission in rules limiting work hours.

**There are 26 weeks of electives across the three years of neurology residency.**
We offer clinical electives in all of our neurological subspecialties, as well as multiple opportunities to arrange electives at outside institutions or devote elective time to research.

All residents have four weeks of vacation time each year.

**What Residents Can Expect to Receive**
- Affordable hospital housing options for residents
- Excellent health benefits
- Competitive stipends
- Lunch provided during daily noon conference at Mount Sinai Hospital noon conference
- Waived New York State license fee as a PGY-2
- Travel funds for presenting at professional meetings
- Opportunity to moonlight
- Neurology Resident Handbook
- Transportation reimbursement for Uber services between hospitals (after hours)
- Discounts on activities and events through the Mount Sinai Health System Recreation office, including fitness memberships, Broadway show tickets, sporting event tickets, food and dining, car rentals, airline tickets, hotels and resorts, city attractions, and museums.

**Resident Housing**
Mount Sinai provides housing options for incoming families, incoming couples, and incoming singles. There are housing options available within the on-campus and block-leased inventory. For more details, please visit the webpage: https://icahn.mssm.edu/education/residencies-fellowships/life/housing

**Mentor Program**
Each resident is paired with a faculty member who will be available as a mentor throughout all three years of residency. The mentor’s responsibility is to act as a guide for career development, as a resource for research and elective opportunities, and as an advocate for issues that arise both inside and outside of the hospital. The goal is for each resident to develop a strong personal and professional connection with a dedicated faculty member who will support them and guide them through the program. There are also designated faculty members representing a broad range of neurological and neuroscience subspecialties to help individual residents with career interests, fellowship applications, and research projects. In addition, all residents meet with the program director semi-annually to discuss short- and long-term goals and to review personal accomplishments.
Residency Program Curriculum and Conferences

Neurology Residency Curriculum and Lecture Series

The goals of the curriculum parallel that of the residency program: to train well-rounded clinicians, nurture their humanistic values, and prepare them for leadership roles in their selected fields. Our dynamic learner-focused curriculum capitalizes on residents’ experiences, clinical relevance of education material, and practicality, in addition to the expertise of the lecturer. The curriculum has been comprehensively refined through resident leadership to maximize resident engagement and learning, and our curriculum itself has been a focus of resident scholarship resulting in presentations at local and national meetings.

Core conferences take place weekdays at noon (lunch is provided). The course is divided into four consecutive (seasonal) courses with advancing levels of academic complexity. In the summer, we begin with the basics of neurology practice and management of neurological emergencies. Orientation to research and development of research interests are also discussed. In the winter, the focus shifts to more complicated neurological conditions and management, integrated with advanced pathophysiology, neuroradiology and neuroanatomy. Finally, the spring course places a deeper emphasis on research, with an eye toward emerging and future trends in the field. A series of conferences on how to review the scientific literature is led by Dr. Fred Lublin.

Each noon conference session includes both a lecture and a resident-led boards-style question-and-answer session, meant to further engage residents and students in the material and offer teaching opportunities for the senior residents on the Teaching Resident block.

Throughout the year, many sessions are also dedicated to quality improvement initiatives, “resident as teacher” modules, and resident wellness. The well-being of our residents is paramount, and the goal of these sessions – as well as extracurricular events – is to help establish work-life balance, nourish healthful approaches, prevent burnout, and reduce stress.

All conferences are video broadcast to our affiliated sites (Elmhurst and the Bronx VA), and then stored in a digital AV library accessible via shared media storage.

Curriculum Topics

- Neuroanatomy
- Movement Disorders
- Neuromuscular
- Epilepsy
- Headache
- Critical Care Neurology
- Pediatric Neurology
- Vascular Neurology
- Behavioral Neurology
- Neuro-Immunology
- Neuro-Oncology
- CNS infections
- Neuro-Otology
- Neuropathology
- Neuroradiology
- Practice and Contemporary Issues
- Wellness Strategies

The core curriculum is supplemented by a series of conferences and special sessions, all designed to deepen the residents’ knowledge and ability as a clinician and teacher, while enhancing communication, collaboration, and coping skills.
The neurology curriculum has evolved to reflect advances in knowledge and practice in the field. Recent enhancements to the curriculum, particularly in the subspecialty areas of neurointervention, neuro-oncology, neuro-otology, and neurocritical care, are exciting new learning opportunities. Throughout this growth in academics, the program has also made resident health and wellness a priority, which helps further a culture of learning, development, and teamwork.

- Rory Abrams, MD, Chief Resident for Curriculum and Academic Affairs, 2018-2019

Conferences and Special Sessions
These conferences and special sessions complement the neurology residency curriculum. They are designed to provide residents ample opportunity to explore the subspecialties of neurology, hone their presentation and teaching skills, and establish a healthful work-life balance.

Morning Report:
Every morning from 8 to 9 am (excluding Friday Grand Rounds), one of five dedicated attendings – Drs. Miller, Krieger, Jen, Singh, and Fara – guide discussion and analysis of new cases from the prior day, as well as ‘close-the-loop’ follow-up of outcomes of cases discussed the prior week.

Division conferences:
With a focus on a subspecialty, these periodic events include neuromuscular rounds, stroke conference, stroke/ED conference, neurocritical care/ED conference, neurology/psychiatry conference, and stroke case conference.

Resident-focused Clinical Conferences:
Include a twice-monthly Chief-of-Service Rounds and a monthly Continuum session.

Quality-improvement Conferences:
Monthly quality-assurance meetings and a quarterly outcomes conference.

Residents as Teachers:
These modules teach the principles of adult learning, teaching skills, needs assessment and gap analysis, and delivering feedback.

Resident Wellness Days and Wellness Conferences:
These events encourage practices that may assist in preventing burnout and promote discussion about emotional reactions to patient care and outcomes; yoga and exercise are incorporated.

“Many minds have come together to create this curriculum. They were motivated by the core belief that our medical education is a lifelong process that should equally inspire and transform the learner, as well as the teacher.”

- Hazem Shoirah, MD, Chief Resident for Curriculum and Academic Affairs, 2014-2015
Continuity Clinic
Director: Allison Navis, MD

Each neurology resident has a continuity clinic consisting of a panel of new and established patients for which they act as the primary neurologist. They are responsible for interviewing and examining each patient, deciding on the diagnostic and treatment plan, discussing every case with a clinic attending (who cosigns every note), arranging all necessary studies, consultations, and referrals, communicating the plan effectively to the patient (being sensitive to barriers of language and culture), writing prescriptions, and determining necessary neurological follow-up. The number of patients seen each week increases as the resident becomes more efficient, but ranges from two to five patients a week in the PGY-2 year. As they develop an increasing panel of patients, each resident sees greater numbers of follow-ups during their clinic sessions by their PGY-4 year. A resident’s continuity clinic is once a week, either Monday or Wednesday, varying by month.

Lumbar Puncture Program
Director: Anusha Yeshokumar, MD

A weekly outpatient session dedicated to lumbar puncture procedures enables neurology residents to develop expertise in performing lumbar punctures, in a controlled setting and under the direct supervision of a faculty attending. Residents rotate through the lumbar puncture program during their PGY-2 year, while on their NSICU and neuro-oncology blocks, and also during their PGY-3 year, while on their pediatric neurology block. The neurology resident performs the lumbar puncture, after obtaining consent and reviewing aftercare instructions with the patient. The faculty attending oversees and is present throughout the lumbar puncture procedure, providing educational tips and assisting the resident as needed. Skills in documentation of time-out and appropriate procedure note documentation are also obtained by residents during this experience.
“The Mount Sinai Hospital expects the most of its residents, and it will certainly push you to become the best physician, scientist, innovator, and leader that you can be. With that expectation, however, comes a very clear commitment from the entire program - from the department chair to the program director and your fellow residents - to support you through that journey. The spirit with which Sinai upholds that commitment is why I chose to train here.”

– Kapil Gururangan, Class of 2020

**Stroke Journal Club**

We have frequent noon conferences dedicated to literature review throughout the year, but our stroke journal club is something very different. Exclusively held outside the hospital – often at one of our attending’s apartments or, in the summer, on one of their beautiful rooftops! It is geared toward junior residents, and meant to be a time to learn about some of the most important and relevant cerebrovascular literature in a fun, relaxed, and completely informal setting ... kind of like happy hour, and an excuse to get together with your co-residents, but with exciting and cutting-edge neurology-related conversation. This is scheduled approximately once every 6-8 weeks, and led by several of our stroke neurology teaching faculty.
Resident Opportunities and Engagement in Career Development and Leadership

Chief Resident Leadership Opportunities
Each year, four Neurology Chief Residents are elected to specific roles, providing them the opportunity to develop and grow as leaders, and prepare them to take on larger roles in the future.

Chief Resident for Curriculum
Maintains and improves the academic program of the residency with an emphasis on the year-long neurology noon conference core curriculum series, which aims to advance residents’ role as adult learners and educators.

Chief Resident for Grand Rounds
Identifies and arranges appropriate speakers for weekly Neurology Grand Rounds in collaboration with faculty on the Grand Rounds Committee and the Mount Sinai Downtown Grand Rounds Chief Resident. Responsible for facilitating approximately 40 grand rounds programs each academic year, including 5 endowed lectures.

Chief Resident for Quality Outcomes
Serves as department representative for guiding and developing resident-led quality improvement/outcomes projects including methodology, feasibility assessments, outcome selection, and development of potential academic presentations of resident-led quality initiatives to foster resident scholarship. Manages Quality Assurance monthly meetings, collaborates with the faculty Chair of Quality Assurance and the Program Director to select relevant cases for quarterly Outcomes Conferences.

Chief Resident for Scheduling
Strategically arranges and reformulates residency block rotation schedule for the academic year, including offsite rotations, clinic and call, vacations, and moonlighting. Direct liaison between clinic staff, faculty, and residents regarding sick call coverage, outpatient referrals, and ongoing practice changes in the hospital system.

MSH Neurology resident alum Chi-Ying Lin, MD, applied to and was accepted to the American Academy of Neurology’s 2019 Neurology on the Hill conference, where he spoke with congressional members and learned how to advocate for current pressing issues in neurology.

Three Mount Sinai Hospital neurology residents and fellows in the past few years have applied to and been accepted into the competitive Harvard Macy Institute program for post-graduate residents and fellows. The program is for those whose goal is to become future academic clinician-educators. Shown here (left to right) are current faculty/residency and fellow alum Laura Stein, MD; Kenneth Leung, MD, Class of 2020; and Helen Cheung, MD, Class of 2020.

MSH Neurology resident alum Alison Thaler, MD, was selected to be the 2019 Coddon Fellow and presented her research at The Headache Cooperative of New England’s annual conference each winter in Stowe, Vermont. This fellowship is frequently extended to Mount Sinai residents and includes an all-expenses paid weekend in Stowe and “an amazing opportunity to learn about up-to-date advances in headache medicine, and to meet and network with future mentors,” per Ali.
“Choosing Mount Sinai was easy for me.

After completing a neurology sub-internship here during my fourth year of medical school, I was struck by the passionate camaraderie and fierce curiosity shared by the residents, as well as by the extraordinarily competent and compassionate program leadership. What spoke to me most, however, was the program’s perfect balance of high clinical volume -- these residents work hard, and really get to see everything -- and robust culture of learning, to the point that Sinai’s neurology curriculum is a model for programs nationwide. I know that by the end of residency I’ll be prepared for any practice environment I wish to pursue.”

- Mark Barber, Class of 2021
Neurology Research Residency

If you are pursuing a career as a clinician-investigator in translational neuroscience and have a PhD or advanced research training, the Department of Neurology is the recipient of an NIH-supported R25 research residency program that has been continuously funded since 2012. This program, combined with support to Mount Sinai from the Leon Levy Foundation, offers an outstanding opportunity to integrate research within your residency training and for 1-2 years beyond residency, enabling transition to a Career Development Award and preparing you for a competitive academic faculty position as a neurologist-investigator.

The program meets all Accreditation Council for Graduate Medical Education-Residency Review Committee (ACGME-RRC) requirements for clinical training and for Flexible Training in Neurology. Those requirements are a minimum of 18 months full-time equivalent of clinical adult neurology.
A typical curriculum in the MSH Neurology Research Residency track could be:

**PGY-2 Year**
You follow the standard PGY-2 clinical rotations. At the same time, you meet with the Research Resident Advisory Committee quarterly to choose a mentor and develop your research education and career plan. In addition, you begin a directed reading tutorial, working with your mentor, to focus your research area. Several blocks of elective time can be used for this purpose.

**PGY-3 Year**
Your clinical rotations follow the same PGY-3 curriculum as residents not considering the research track. You continue to meet with your mentor for the reading tutorial and with the Research Residency Requirement Committee to review your progress and refine your plans. Several blocks of elective time can be used for this purpose. Your R25 application is submitted to the NIH in the Fall of the PGY-3 year.

**PGY-4 Year**
You spend six months doing clinical rotations, fulfilling ACGME requirements, and six months dedicated to research, likely using that time to generate data needed to apply for a National Institutes of Health (NIH) K08 or K23 Career Development Award. In addition to meeting with your mentor regularly, you attend grant-writing workshops, a postdoctoral office career development seminar series, and an NIH-research program. We anticipate that you will make a presentation at a scientific meeting and draft specific aims for a Career Development Award application.

**PGY-5 or Instructor Year(s)**
Residents in the Research track who are selected for funding by NIH in our R25 program have 1-2 additional years of protected research time, which can be taken as a PGY-5 and/or potentially as an Instructor. This salary support from the R25 may be supplemented by an award from the Physician-Scientist Track of the Leon Levy Foundation Fellowship Program at Mount Sinai, for additional research protected time and seed research funds. NIH and/or foundation Career Development Award applications should be submitted during this time, positioning you strongly for a competitive application and a faculty position in neurology at an academic medical center.
Some of our Department of Neurology Translational Research Faculty and Labs

In addition to other Translational Research Faculty in the Department of Neurology with established labs (below), faculty mentors are available to Residents in the Research Residency Track from the Department of Neuroscience and other basic science departments of the Icahn School of Medicine at Mount Sinai.

Michelle Ehrlich, MD
Common pathophysiologic mechanisms of genetic dystonias; Neonatal Opioid Withdrawal Syndrome

Sam Gandy, MD, PhD
Biomarkers for the antemortem diagnosis of CTE in athletes and veterans; testing new classes of drugs aimed at relieving brain trauma-related neuropsychiatric syndromes

Gay Holstein, PhD
Neuronanatomical studies of functionally defined central and peripheral vestibular system structures

Joanna Jen, MD, PhD
Elucidation of the genetic and physiological bases of disorders affecting balance and eye movement control in neurodevelopment and neurodegeneration, through cellular and animal studies, and clinical trials

Susan Morgello, MD
Diverse clinical neuro-HIV research; leads NIH-funded HIV Brain Bank

James Sumowski, PhD
Cognitive reserve and identifying risk and protective factors for cognitive decline in multiple sclerosis

Zhenyu Yue, PhD
Mechanisms underlying the pathophysiology of Parkinson’s disease and other movement disorders

Lab of Stephanie Tankou, MD, PhD
Research on gut-derived bacteria that regulate inflammation in the central nervous system, with the goal of identifying those that are biomarkers as well as targets of future disease modifying therapies for multiple sclerosis and other central nervous system autoimmune diseases.

Lab of Ana Pereira, MD, MS
Research on selective vulnerability of glutamatergic neural circuits to synaptic changes in aging and neuronal loss in Alzheimer’s disease, using modern quantitative cell biology methods in conjunction with molecular tools and functional assays, and translating basic science findings into clinical studies with Alzheimer’s disease novel treatment trials.

Leon Levy Fellowships

The Icahn School of Medicine at Mount Sinai has partnered with the Leon Levy Foundation to enable the best young clinician-neuroscientists to bridge science and medicine in the search for understanding and healing of the brain. Through the Physician-Scientist Track of the Fellowship Program, neurologist-scientists are assured the protected time, mentorship, and seed research funds to become leaders in academic research, reducing the long delay between research training and protected time for research.
Lab of Helen Mayberg, MD
Cross-disciplinary, collaborative translational research of neurologists, neurosurgeons, and psychiatrists with experts from neuroscience, imaging, engineering, bioinformatics, neuro-engineering, and computational neuroscience, with the aim of developing new circuit-based strategies and state-of-the-art individualized treatments for patients with advanced neuropsychiatric disorders.

Lab of Trey Hedden, PhD
Research focuses on integrating multiple brain markers from neuroimaging to build a comprehensive picture of how aging and neurodegenerative disease affect the relationship between brain function and cognition at an individual level. Methods employed include multiple MRI brain markers, PET markers of amyloid and tau accumulation, PET markers of dopamine transmission, and cognitive testing.

The neuroscience research environment at the Icahn School of Medicine at Mount Sinai is outstanding.

Residents who plan careers as academic clinician-investigators in the laboratory setting have access to research resources that include the following:

The Friedman Brain Institute is an interdisciplinary clinical and research hub that is defining the mechanisms of brain and spinal cord disorders and translating those findings into preventive or restorative interventions. The Institute is led by world-renowned neuroscientist Eric Nestler, MD, PhD; it coordinates all neuroscience research on campus, building translational bridges to clinical programs throughout the entire health system.

The Nash Family Department of Neuroscience investigates the nervous system at the molecular, cellular, systems, and behavioral levels using a variety of model systems, from flies and worms, to transgenic mice and rats, to nonhuman primates, as well as the human brain itself. Department faculty conduct collaborative research in nationally- and globally-recognized laboratories. It is currently ranked first in research funding from the National Institutes of Health. Thirty-nine primary faculty scientists in the department perform groundbreaking research, mentor, and train tomorrow’s leaders, providing critical contributions to our graduate and medical education programs. Many Department of Neurology faculty hold secondary appointments in the Department of Neuroscience.

Physician Scholars Residency Plus PhD Program
Directed by Stuart Sealfon, MD, and Patrick Hof, MD, this program provides translational research training to physicians who have completed medical school, uniquely meeting the needs of residents wanting to pursue a PhD in bench, computational, or clinical neuroscience research. Residents who have matched to our regular residency apply for the graduate program during the PGY-2 year. Training, research mentoring, and career development occurs in collaboration with Mount Sinai’s Graduate School of Biomedical Sciences.
Elmhurst Hospital in Queens, New York, is a high-volume, 545-bed public hospital within the New York City Health and Hospitals Corporation. The Hospital is a Primary Stroke Center on track to soon become Thrombectomy Capable, a Level 1 Trauma Center, and a Cardiac Center in the Cardiovascular Patient Outcomes Research Team network.

Elmhurst serves an area of nearly 1 million people in the most ethnically diverse community in New York City and the most culturally diverse population in the U.S. Patients at Elmhurst come from across the globe, speaking a multitude of languages and dialects and bringing with them their particular beliefs and customs. The neurology rotations at Elmhurst provide a uniquely immersive education not just in managing complex neurological diseases, but in communicating effectively about these diseases with an incredibly diverse patient population.

During their PGY-3 year, neurology residents rotate through the inpatient, consultation, and outpatient clinic services at Elmhurst for a total of 6 months, interspersed among their other rotations at Mount Sinai. During this time, they are exposed to extraordinary cultural diversity, as well as diversity of neurological disorders. These months are consistently considered by our residents to be among the most transformative and educational of their residency.

Elmhurst’s neurology inpatient unit consists of 34 beds; there is also a 34-bed shared stepdown unit available to the neurology service on the same floor. Neurology patients who require intensive care are transferred to the closed 9-bed MICU or 13-bed Surgical ICU. The neurophysiology suite is in the main hospital building and houses an EEG procedure and reading room, and a procedure room for NCS/EMG and autonomic studies.

Neurology faculty at Elmhurst have made a lifetime study of communicating effectively with their patients and are vested in helping the neurology residents develop their own cultural competence through modeling, as well as informal and case-based teaching. To assist in language translation, Elmhurst employs a team of in-house interpreters trained in medical interpretation. The hospital offers a contracted phone medical translation service in 140 languages, including Swahili, Tagalog, Hmong, Basque, and Navajo.

Elmhurst hospital’s mission is to provide care of the highest quality regardless of ability to pay. The neurology residents collaborate closely with a highly skilled team of social workers and case managers, all of whom are dedicated to helping the residents learn how to best and most effectively navigate the health care system for these underinsured, uninsured, and undocumented patients.

**Teaching Faculty**

**Director:** Joseph Farraye, MD  
Associate Professor of Neurology  
Mount Sinai Neurology Residency and Clinical Neurophysiology (EMG) Fellowship Alum

Beth Rapaport-Pass, MD  
Assistant Clinical Professor of Neurology  
Mount Sinai Neurology Residency Alum

Hazem Shoirah, MD  
Assistant Professor of Neurosurgery; Neurology; and Diagnostic, Molecular and Interventional Radiology  
Mount Sinai Neurology Residency and Endovascular Fellowship Alum

Wilson Heredia Nunez, MD  
Assistant Professor of Neurology and Pediatrics
“The diversity of the patient population and models for care delivery are unmatched through the experience at Sinai, Elmhurst, and the VA. Through the Mount Sinai Health System, we receive tertiary referrals for the most complex Neurologic cases. After learning the foundations of neurology in the most resource-rich environment at Mount Sinai during the junior year, the opportunity to practice in a resource-poor city hospital for a PGY-3 year is exceedingly rewarding and valuable.”

- Laura Stein, Class of 2017, Stroke Fellow 2018, Current Assistant Professor
Affiliate Training Site:  
The Bronx VA Hospital

The James J. Peters VA Medical Center in the Bronx contains 243 hospital beds, including a mental health inpatient service, nursing home, and spinal cord injury unit, and it is designated as a VA Primary Stroke Center. The facility provides a comprehensive range of medical and surgical subspecialty services. The neurology team consults on patients in every part of the hospital. The outpatient clinic space, home to the neurology resident clinic, and the faculty general and subspecialty neurology clinics, is located in the main hospital and includes six shared consultation-examination rooms, as well as EEG procedure rooms. The Bronx VA has the only long-term video EEG monitoring program in the local New York/New Jersey VA network. Comprehensive neuroradiology facilities are available, including MRI, CT, and PET scanners, as well as ultrasonography. The Bronx VA uses the same electronic medical record system as is used throughout the VA system nationally, allowing seamless access to medical records of patients seen at other VA hospitals, as well as active duty health records from the Department of Defense.

**Resident Rotations: 4-6 weeks as a PGY-2, and 4-6 weeks as a PGY-3**

**Resident Education and Training Highlights:**

- The VA rotation is one where neurology is a consulting service. Residents cover the inpatient consult service and emergency department, as well as participate in one half-day outpatient clinic per week. Hours are 9 am-5 pm, and there is no late call or night float requirements; on nights and weekends, residents take call from home by long-range pager.

- Residents have time to engage in research and academic pursuits while on these rotations.

- The VA experience provides a different patient population that is wonderful to work with and very grateful for residents’ efforts.

- Residents are exposed to the chronic neurological effects of common military exposures such as traumatic brain injury and the frequent presence of co-morbid mental health disorders such as post-traumatic stress disorder.

- Residents learn how to practice neurology in a more typical community hospital environment, which rounds out the educational experience.

- Educational opportunities include a weekly neuroradiology conference and EEG rounds. Weekly Department of Neurology Grand Rounds and daily departmental noon conferences at Mount Sinai are available through the Internet.

- The bond between neurology residents is strengthened during these rotations. A PGY-3 and a PGY-2 are typically matched together, providing a close mentoring experience, which is why the relationships among neurology residency classes at Mount Sinai are so strong.

**Resident Research Opportunities**
The Bronx VA has a 5-story facility dedicated solely to research attached to the main hospital. Neurological research at this facility includes both basic science and clinical studies into Alzheimer’s disease, traumatic brain injury, spinal cord injury, and movement disorders. Residents are welcomed and encouraged to work with investigators at the Bronx VA during their elective, and multiple faculty members at the Bronx VA have active joint-appointments at Mount Sinai.

**Accessibility**
The Mount Sinai shuttle service provides convenient transportation to and from the Bronx VA all day, Monday through Friday. The hospital is also accessible by subway.

“I have nothing but consistent praise from other services for our resident-run consult service. ... Working with the Mount Sinai residents is the best part of my job.”

- Gregory Elder, MD, Director, Bronx VA, Neurology
Teaching Faculty

Gregory Elder, MD - Director of Neurology
Research Professor of Psychiatry and Neurology

Dongming Cai, MD, PhD
Associate Professor of Neurology

Sam Gandy, MD, PhD
Professor of Psychiatry and Neurology

Martin Gluck, MD
Assistant Professor of Neurology
Mount Sinai Neurology Residency Alum

Leif Havton, MD, PhD
Professor of Neurology and Neuroscience

Noam Harel, MD, PhD
Associate Professor of Neurology and Rehabilitation Medicine

Maria Muxfeldt, MD
Clinical Instructor, Neurology

Allison Navis, MD
Assistant Professor of Neurology
Neuro-infectious Diseases Fellowship Alum

Melissa Nirenberg, MD, PhD
Clinical Professor of Neurology

Mark A. Sivak, MD
Assistant Professor of Neurology
Mount Sinai Neurology Residency Alum

Ruth Walker, MB, ChB, PhD
Professor of Neurology
Mount Sinai Movement Disorders Fellowship Alum

Jill Wiener, MD
Assistant Clinical Professor of Neurology
Mount Sinai Neurology Residency Alum

When I was interviewing for residency, I had just finished a difficult MD, PhD and was pregnant with my first child. At Mount Sinai, I found faculty and residents committed to rigorous clinical training in Neurology, cutting-edge research, as well as humanistic practice toward patients and each other, including a commitment to resident wellness. I am grateful to be part of this wonderful program!

- Helaina Lehrer, MD, PhD, Class of 2021
Resident Life at Mount Sinai in New York City

What We Do When We’re Not at Work...

Nature
We live in one of the most populated cities in the US, but finding fresh air is easy. Some examples: Central Park comprises more than 800 acres of lawns, athletic fields and forests, and the Jacqueline Kennedy Onassis Reservoir (pictured below) and the spectacular Conservatory Garden are just steps from the hospital’s doors. Rockaway Beach and its newly rebuilt boardwalk are a 45-minute, $3 ferry ride from Manhattan, and the Jersey Palisades is just a short bike ride over the George Washington Bridge.

Food
We could make a whole separate brochure for this topic. A few of our favorites: Smorgasburg, an outdoor food market with more than 100 vendors that’s open April through October in multiple locations throughout the city; Rabbit Hole, a Williamsburg favorite with great drinks and pancakes worth waking up for; Pio Pio, a tiny hole-in-the-wall Peruvian place a few blocks from the hospital; Earl’s Beer and Cheese, a local bar where you’ll run into half of the hospital on any given night and enjoy one of the best grilled cheese sandwiches in the city. For those with a sweet tooth, you can find cronuts, cookie dough served by the scoop, and at least 20 different flavors of frozen yogurt within a 10-minute walk from the hospital. Many local food vendors offer discounts for Sinai employees.
Sports
Mets fans? How about the Yankees? Knicks? Jets? Rangers? We also have access to discounted tickets to the US Open (staffed by Mount Sinai doctors), and have a blast supporting our friends and colleagues in the New York City Marathon each fall. Mount Sinai offers free memberships to the gym and pool at the nearby 92nd Street Y, which is also host to weekly concerts, lectures, and readings.

Entertainment
There are concerts nearly every night of the week, from free NYC Philharmonic concerts in the park, to the Red Hot Chili Peppers at Madison Square Garden, to Taylor Swift at Jones Beach. Broadway goes without saying (we can get discounted tickets to shows, too). The city is also home to some of the best jazz clubs in the world, comedy clubs that cost next to nothing and often host some of the biggest names in the business, the NYC Ballet, and live tapings of shows such as The Daily Show and Saturday Night Live. (Continued)
Everything Else
A never-ending list, including:
Museum Mile, with world-renowned museums such as the
Guggenheim, the Metropolitan Museum of Art, the Jewish
Museum, the Museum of the City of New York, Museo del
Barrio, the Neue Galerie, the Cooper Hewitt, and the Africa
Center.

Plus the MoMA, the Whitney, and the Rockefeller Center
Christmas Tree. Walking the Brooklyn Bridge and the High
Line. Shopping and eating at Chelsea Market. Pastrami at
Katz’s Delicatessen. Studying in the Rose Reading Room at
the New York Public Library. Ice skating in Bryant Park.

You won’t be bored, we promise.

Personal Interests
Bowling
Weight lifting
Yoga
Biking/Spinning
Tennis
Swimming
Dance
Theater
Cooking
Music
Art

Discovering Restaurants/
Bars
Wine Tasting
LGBT Community Events
Maintaining Religious Community
Concerts
Sporting events
Exploring NYC
Parks & Museums
Hiking
Running
Skiing/Snowboarding
Ice Skating
Reading/Book Clubs
Group Trivia Nights

Residents enjoying the 2019
Alumni and Faculty Reunion, held
at the American Academy of
Neurology Annual Meeting
“I knew immediately after my Sinai interview that I wanted to be back as a neurology resident. Dr. Krieger is dedicated to fostering a supportive culture in which learning and professional growth are priorities. Our chiefs and senior residents constantly go above and beyond to teach and help us. I’m lucky to be part of a community where we cheer on each other’s successes and are there for each other when we need it.”

- Daniella Sisniega, Class of 2022
Mount Sinai Hospital Neurology Residency Graduates and Where They Went

Class of 2019
Rory Abrams, MD
Clinical Neurophysiology/EMG Fellow at Mount Sinai Hospital

Yaowaree Leavell, MD
Neuromuscular Medicine Fellow at Mount Sinai Hospital

Chi-Ying Lin, MD, MPH
Movement Disorders Fellow at Columbia University

Bridget Mueller, MD, PhD
Headache Fellow at Mount Sinai Hospital

Ling Pan, MD
Movement Disorders Fellow at NYU

Elizabeth Pedowitz, MD
Neuromuscular Medicine Fellow at Mount Sinai Hospital

Farinaz Safavi, MD, PhD
Neuroimmunology Clinical Fellow NINDS, NIH

Gabriela Tantillo, MD, MPH
Clinical Neurophysiology/EMG Fellow at Mount Sinai Hospital

Class of 2018
Nisali Gunawardane, MD
Clinical Neurophysiology/EEG Fellow at Mount Sinai Currently: Epilepsy Fellow at Yale University

Jonathan Gursky, MD
Former Clinical Neurophysiology Fellow at Montefiore Currently: Assistant Professor of Neurology at Montefiore

Peter Jin, MD
Neuromuscular Disorders Fellow at Mount Sinai Currently: Assistant Professor of Neurology at University of Maryland

Leila Montaser Kouhsari, MD, PhD
Movement Disorders Research Fellow at Columbia University

Kimberly Kwee, MD, PhD
Movement Disorders Fellow at Columbia University Currently: Assistant Professor of Neurology at Columbia University

Christopher Langston, MD
Multiple Sclerosis Fellow at Mount Sinai Hospital

Kyle Rossi, MD
Epilepsy Fellow at Beth Israel Deaconess Currently: Assistant Professor of Neurology at Beth Israel Deaconess

Christine Stahl, MD
Movement Disorders Fellow at NYU Currently: Assistant Professor of Neurology at NYU Langone

Class of 2017
Rebecca Brown, MD, PhD
Neuro-Oncology Fellow at Memorial Sloan Kettering Currently: Assistant Professor of Neuro-Oncology and Neurology at Memorial Sloan Kettering

Noreen Bukhari, MD, PhD
Movement Disorder Fellow at Duke University School of Medicine Currently: Assistant Professor of Neurology at Duke University

Benjamin Cunningham, MD
Epilepsy Fellow at NYU Currently: Assistant Professor of Neurology at Maimonides Cancer Center

Svetlana Faktorovich, MD
Clinical Neurophysiology Fellow at Mount Sinai Currently: Assistant Professor of Neurology, Lenox Hill Hospital

Achillefs Ntranos, MD
Multiple Sclerosis Fellow at Mount Sinai Currently: Assistant Professor of Neurology at Mount Sinai

Anna Pace, MD
Headache Medicine Fellow at Mount Sinai Currently: Assistant Professor of Neurology at Mount Sinai

Laura Stein, MD
Stroke Fellow at Mount Sinai (MSH) Currently: Assistant Professor of Neurology at Mount Sinai

Elina Zakin, MD
Neuromuscular Fellow at Mount Sinai Currently: Assistant Professor of Neuromuscular Medicine at NYU
Neurology Fellowship Training Programs

The Icahn School of Medicine at Mount Sinai (ISMMS) offers a competitive and comprehensive array of one- and two-year Fellowship Training Programs. All fellowships governed by ACGME or the United Council for Neurologic Subspecialties (UCNS) are accredited by those bodies.

In the last few years, new subspecialty fellowships have been added in epilepsy, headache, and neuro-otology, and we are in the process of adding fellowships in neuro-oncology (application submitted) and pediatric neurology (under development).

Graduates of our fellowship programs are prepared for and have secured positions in academic neurology primarily, and also in private practice or employment in health systems.

<table>
<thead>
<tr>
<th>ISSM Fellowships</th>
<th>Duration (Years)</th>
<th>Accредiting Body</th>
<th>Board Eligibility</th>
<th>Number of Positions Per Year</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral Neurology and Neuropsychiatry</td>
<td>1 - 2</td>
<td>UCNS</td>
<td>UCNS certification in Behavioral Neurology and Neuropsychiatry</td>
<td>1</td>
<td>Sam E. Gandy, MD, PhD</td>
</tr>
<tr>
<td>Clinical Neurophysiology (EEG/EMG Tracks)</td>
<td>1</td>
<td>ACGME</td>
<td>American Board of Clinical Neurophysiology</td>
<td>2 (one in EEG track; one in EMG track)</td>
<td>Anuradha Singh, MD</td>
</tr>
<tr>
<td>Epilepsy</td>
<td>1</td>
<td>ACGME</td>
<td>ABPN – Epilepsy</td>
<td>2</td>
<td>Ji Yeoun Yoo, MD</td>
</tr>
<tr>
<td>Headache Medicine</td>
<td>1</td>
<td>UCNS</td>
<td>UCNS certification in Headache Medicine</td>
<td>2</td>
<td>Lauren Natbony, MD</td>
</tr>
<tr>
<td>Movement Disorders</td>
<td>1 - 2</td>
<td></td>
<td></td>
<td>1</td>
<td>Winona Tse, MD (interim)</td>
</tr>
<tr>
<td>Multiple Sclerosis</td>
<td>2 - 3</td>
<td></td>
<td></td>
<td>2 or 3</td>
<td>Fred Lublin, MD</td>
</tr>
<tr>
<td>Neurocritical Care</td>
<td>2</td>
<td>UCNS</td>
<td>UCNS certification in Neurocritical Care</td>
<td>2</td>
<td>Neha S. Dangayach, MD</td>
</tr>
<tr>
<td>Neuroendovascular Surgery</td>
<td>2</td>
<td>CAST</td>
<td>The Society of Neurological Surgeons Committee on Advanced Subspecialty Training in Neuroendovascular Surgery</td>
<td>2</td>
<td>Johanna T. Fifi, MD; J Mocco, MD, MS; Reade A. De Leacy, MD</td>
</tr>
<tr>
<td>Neuro-infectious Disease</td>
<td>1 - 2</td>
<td></td>
<td></td>
<td>1</td>
<td>Jessica Robinson-Papp, MD, MS</td>
</tr>
<tr>
<td>Neuromuscular Medicine</td>
<td>1</td>
<td>ACGME</td>
<td>ABPN – Neuromuscular Medicine</td>
<td>2</td>
<td>Susan Shin, MD</td>
</tr>
<tr>
<td>Neuro-Otology Fellowship</td>
<td>1 - 2</td>
<td></td>
<td></td>
<td>1</td>
<td>Joanna Jen, MD, PhD</td>
</tr>
<tr>
<td>Vascular Neurology</td>
<td>1 - 2</td>
<td>ACGME</td>
<td>ABPN – Vascular Neurology</td>
<td>3</td>
<td>Mandip Dhamoon, MD, DrPH</td>
</tr>
</tbody>
</table>
I have been continually impressed by the quality and dedication of our Fellows in Clinical Neurophysiology and Neuromuscular Diseases, including their transformation from Neurology Residency Graduates to accomplished Neuromuscular Specialist clinicians. Not infrequently, their digging into a complex history, hard work, and insights have led to the determination of a diagnosis that had eluded me.

- David M. Simpson, MD, Director of the Division of Neuromuscular Diseases
Mount Sinai Neurology Historic Milestones

Bernard Cohen, MD, Emeritus Professor of Neurology, and the COSMOS Rotator. Dr. Cohen was continuously funded by NIH and NASA for 54 years.

US News & World Report 2019 Ranking
14th Neurology/Neurosurgery

NIH Funding - Department of Neurology, from FY 2014 to FY 2018

- $7,856,277
- $12,256,462
- $14,813,646
- $16,387,890
- $21,218,063

$ of NIH funding to ISMMS Department of Neurology
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1855</td>
<td>Hospital built</td>
</tr>
<tr>
<td>1887</td>
<td>Bernard Sachs, MD, names “Tay Sachs Disease”</td>
</tr>
<tr>
<td>1890</td>
<td>Neurology clinic opens on 67th Street</td>
</tr>
<tr>
<td>1900</td>
<td>Neurology in-patient service established</td>
</tr>
<tr>
<td>1913</td>
<td>First neurology ward dedicated</td>
</tr>
<tr>
<td>1920</td>
<td>Neuropathology laboratory created</td>
</tr>
<tr>
<td>1923</td>
<td>Residency Program Established</td>
</tr>
<tr>
<td>1939</td>
<td>EEG unit established</td>
</tr>
<tr>
<td>1958</td>
<td>Division of Neurophysiology established</td>
</tr>
<tr>
<td>1961</td>
<td>Neurochemistry lab opened</td>
</tr>
<tr>
<td>1964</td>
<td>Parkinson’s disease clinic opened</td>
</tr>
<tr>
<td>1978</td>
<td>First ALS clinic in the U.S. opened</td>
</tr>
<tr>
<td>1981</td>
<td>NASA invites vestibular researcher Bernard Cohen, MD, and lab to Moscow to fly monkeys in space on the Russian COSMOS Biosatellite</td>
</tr>
<tr>
<td>1988</td>
<td>Gustave L. Levy Acute Stroke Unit opened</td>
</tr>
<tr>
<td>2001</td>
<td>Corinne Goldsmith Dickinson Center for Multiple Sclerosis established</td>
</tr>
<tr>
<td>2008</td>
<td>Robert and John M. Bendheim Parkinson and Movement Disorders Center established</td>
</tr>
<tr>
<td>2008</td>
<td>Friedman Brain Institute established</td>
</tr>
<tr>
<td>2009</td>
<td>Center for Headache and Pain Medicine established</td>
</tr>
<tr>
<td>2013</td>
<td>First hospital in New York City and the second in New York State to receive Joint Commission Comprehensive Stroke Center designation</td>
</tr>
<tr>
<td>2015</td>
<td>Barbara G. Vickrey, MD, MPH, most recent faculty member to serve as President of the American Neurological Association</td>
</tr>
<tr>
<td>2017</td>
<td>Smithsonian accepts the COSMOS Rotator to its Air and Space Museum collection</td>
</tr>
<tr>
<td>2017</td>
<td>Division of Health Outcomes and Knowledge Translation Research established</td>
</tr>
<tr>
<td>2018</td>
<td>NeuroNEXT - Network for Excellence in Neuroscience Clinical Trials site funded by NIH</td>
</tr>
<tr>
<td>2019</td>
<td>First neurologist completes the Palliative Medicine Fellowship at Mount Sinai; Neuro- Palliative Medicine division established</td>
</tr>
</tbody>
</table>

“Josephine Walter was said to be the first woman in the country to graduate from a formal house staff program when she received her Mount Sinai diploma in 1885.”

“I left the warmth and familiarity of the south because I found a different warmth and familial atmosphere reflected in the Mount Sinai neuro group. Here is a rare community that balances the tension between personal commitments, patient care in a high-volume environment, and uncompromising academics with grace, humor, and an eagerness to embrace necessary changes. In other words – it’s really fun, everyone is super nice, we learn a lot directly from some of the Great Minds of Neuro, and when legitimate complaints arise it seems like change actually happens.”

- Noona Leavell, Class of 2019, Mount Sinai Neuromuscular Fellow Class of 2020

**Top Rankings for Mount Sinai for National Institutes of Health Funding among U.S. Medical Schools**

<table>
<thead>
<tr>
<th>Rank</th>
<th>Field</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1</td>
<td>Neurosciences</td>
<td>$31.2 million for Basic Science</td>
</tr>
<tr>
<td>No. 6</td>
<td>Psychiatry</td>
<td>$35.1 million for Clinical Science</td>
</tr>
<tr>
<td>No. 10</td>
<td>Neurology</td>
<td>$21.2 million for Clinical Science</td>
</tr>
</tbody>
</table>

Data compiled and released in February 2019 by Blue Ridge Institute for Medical Research. These figures represent awards received by the Icahn School of Medicine at Mount Sinai during the National Institutes of Health 2018 fiscal year.
“Josh and I went to medical school together. He decided he wanted to be at Mount Sinai for Neurology early on, but it took me a little bit of time to decide - there are so many amazing programs, and I wanted to be absolutely sure. I sent him a text message a few days before rank lists were due, to tell him that I’d made up my mind. His response (word-for-word):

“I think it’ll be absolutely amazing. To be at the most rapidly expanding hospital system in NYC, to have such a close friend whom I trust without question at my side, with the world’s best program director and his almost alarmingly-talented residents leading our way. Don’t know how you can beat that.”

– Alison Thaler and Josh Friedman, Class of 2020