2021-2022
Neurology Training at
The Mount Sinai Hospital
“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, Currently Assistant Professor of Neurology, Icahn School of Medicine at Mount Sinai

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Follow us on Twitter: @MSHSNeurology
2021-2022 Neurology Training at The Mount Sinai Hospital
“After completing medical school here, I chose to stay at Mount Sinai for the people—both the patients and my future colleagues. As a leading institution in New York City, we see fascinating complex and rare diseases, and I admire how our faculty care for the individual’s story just as much as the patient’s pathophysiology. Whether I want to be a physician-educator, physician-researcher, a physician-advocate, or all of the above, I will be superbly prepared.”

– Emma Loebel, MD, Class of 2025
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Welcome to the Mount Sinai Department of Neurology!

We hope to offer 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.

We are both proud graduates of the Mount Sinai Neurology Residency, and we share a deep commitment to providing an extraordinary educational experience to every resident in our program. We know that every one of our residents 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; resident wellness is a chief focus of our program.

We believe mentorship is crucial during residency, and we have a well-established mentoring program. Some 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 expect all residents to participate in some form of research during their training. For those planning research-focused careers, the Friedman Brain Institute provides unsurpassed opportunities for academic engagement, and we have a highly successful, Research Residency Track. A myriad of research opportunities also exists 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.

Thank you for your interest in our program!

Sincerely,

Michelle Fabian, MD
Director
MSH Neurology Residency Program

Laura Stein, MD, MPH
Associate Director
MSH Neurology Residency Program
Welcome from the Chair and Vice Chair of Education

We offer you a warm and sincere welcome to the Mount Sinai Hospital campus! We are delighted to share with you our accomplishments and vision for building a strong, diverse, and comprehensive academic neurology department.

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 five 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 over 75 new faculty, who sought to join our thriving, growing department and who have been recruited both internally from our talented Mount Sinai graduates, and 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 built programs are health outcomes and knowledge translation research, neuro-informatics, neuro-palliative medicine, and neuro-infectious diseases. We have a new fellowship training program in neuro-oncology and were approved early in 2021 for a pediatric neurology residency program. 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 goal is to provide the environment and mentorship for you to achieve your potential and your career aspirations.

Thank you so much for learning 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 2020, the Department of Neurology at the Icahn School of Medicine received more than $18.8 million in National Institutes of Health (NIH) funding, which was a top 14 Department of Neurology in the U.S. in NIH funding.

Department of Neurology Faculty – Mount Sinai Health System, 2021

- Full- and part-time Career Faculty (all campuses) 145
- Full- and part-time Career Faculty (MSH campus) 99
- Affiliated Faculty 18
- Clinical Fellows 28
- Post-doctoral fellows 28
- MSH Neurology Residents 38
- 2019 MSH Inpatient Encounters 10,687
- 2020 MSH Outpatient Visits 26,353
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.

In 2019, 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, 2018, 2019, and 2020 Higher Education Excellence in Diversity (HEED) award from INSIGHT Into Diversity magazine, the oldest and largest diversity-focused publication in higher education.

At the institutional level, the Mount Sinai Health System Task Force to Address Racism was formed in July 2020. The Task Force was composed of a diverse group of Mount Sinai leaders, staff, students, trainees, faculty, and Trustees who have demonstrated a commitment to equity, diversity, and anti-racism and represent the interests of the clinical and academic constituencies and the Boards of Trustees. Engaging stakeholders and other experts, it has developed a roadmap to address racism across the health system. Mount Sinai’s goal is to become an anti-racist health care and learning institution that intentionally addresses structural racism.

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 Uraima 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 three Hispanic faculty have been recruited to the department in the last few years. A majority of the teaching faculty participated in unconscious bias training sessions in late 2020 and early 2021. In November 2021, the Department expects participation of all faculty in leadership positions in one of a series of in-depth, multi-day anti-racism training workshops sponsored by a national organization.

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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.”

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Forbes has ranked the Mount Sinai Health System № 3 nationally among health systems and hospitals, and No. 19 overall, on its 2020 list of “The Best Employers for Diversity.” The rankings included 500 U.S. organizations in major industries, such as biotechnology, insurance, telecommunications, retail, and education.

https://inside.mountsinai.org/blog/mount-sinai-ranked-as-topemployer-for-diversity/
Neurology Residency Program at Mount Sinai

The Neurology Residency Program is designed to provide residents with both a broad knowledge base in neuroscience as well as the clinic 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 neurodiagnostics and neuro-therapeutics that is available. We support each resident as they develop maturity, responsibility, and empathy critical to the modern practice of neurology. We develop our residents’ skills across the full range of ACGME core competencies, including professionalism and interpersonal and communication skills. By graduation, each of our residents is a neurologist with a strong background in basic neuroscience and broad clinical experience who is poised to make a unique impact in their field.

Our training program is designed as a block inpatient-to-outpatient schedule with a night float system, no 24-hour call, and graduated responsibility. Residents spend 4-6 weeks on an inpatient service followed by two weeks on an outpatient/elective/jeopardy call rotation. During designated inpatient blocks, residents are able focus on inpatient care on one of our core Neurology services (stroke, general neurology, epilepsy, neurology consultation, neurocritical care, neuro-oncology, or neurology night float) without outpatient responsibilities.

Sample Residency Schedule: PGY1-4

Intern Year/PGY - 1 year (8 residents)

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Neuro Year 1/PGY - 2 Year

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Neuro Year 2/PGY - 3 Year

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Neuro Year 3/PGY - 4 Year

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Rotation Names:
- **Intern/PGY-1 Year**
  - Inpatient Medicine (IM)
  - MICU
  - Night Medicine (NM)
  - Neurology Consult (C)
  - Elective (E)
- **PGY2-4 Year**
  - Inpatient Stroke Service (S)
  - Inpatient Floor Service (F)
  - Inpatient Consult Service (C)
  - Night float (NF)
  - Neurosciences ICU (ICU)
  - Neuro-Oncology (NO)
  - Elective (E)
  - Epilepsy (EMU)
  - Jeopardy Clinic (JC)
  - Elective Clinic (E/C)
  - Pediatric Neurology (PN)
  - Mount Sinai Hospital ER Consult (ER)
  - Neurophys (NP)
  - Elmhurst Stroke Service (E-S)
  - Elmhurst Consult Service (E-C)
  - Elmhurst Clinic (E-CI)
  - Elmhurst Night Float (E-NF)
  - Psychiatry (P)
  - Teaching Resident (TR)

Key
- **Site 1:** Mount Sinai Hospital
- **Site 2:** Bronx VA Hospital
- **Site 3:** Elmhurst Hospital Center

Schedule subject to change based on program needs. For example purposes only.
During designated outpatient/elective/jeopardy blocks, residents are able to focus on learning the fundamentals of outpatient neurology and pursuing elective opportunities (with select blocks including jeopardy call responsibility to ensure a sick call pool). PGY-4 residents are in-house with PGY-2 residents 24 hours per day from July through November. Categorical interns spend time on the Neurology service, with the option to pursue electives in Medical and Neurology subspecialties, and designated subspecialty elective time is built in to the PGY-2 through PGY4 schedules. Residents take on team leadership roles in the PGY-3 year at Elmhurst Hospital; also, beginning in the PGY-3 year, residents rotate through Pediatric Neurology. PGY-4 residents assume a leadership role at Mount Sinai Hospital, working as the senior resident on the inpatient neurology team. Additionally, PGY-4 residents spend additional time on Pediatric Neurology and dedicated Psychiatry and teaching 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 at least 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**

- Guaranteed 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 App
- 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](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
- Health Disparities and Structural Racism
- 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.
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 healthy work-life balance.

Morning Report:
Every morning from 8 to 9 am (excluding Friday Grand Rounds), one of five dedicated attendings – Drs. Fabian, Miller, Krieger, 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, In stroke case conference and neuroophthalmology 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.

“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, Currently, Assistant Professor of Neurology, ISMMS

“The curriculum is meant to deliver and present the principles of neurology in an informative and enjoyable way, and allow the residents to take a proactive role in their education, as well as in their professional development.”

- Anna Pace, MD, Chief Resident for Curriculum and Academic Affairs, 2016-2017, Currently, Assistant Professor of Neurology, ISMMS

“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, Currently, Assistant Professor of Neurology, ISMMS
“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 2022

**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.
Continuity Clinic
Director: Allison Navis, MD

Each neurology resident has a continuity clinic consisting of a panel of new and established patients for whom 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 during each clinic session increases as the resident becomes more efficient, but ranges from two to five patients a session 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. A resident's continuity clinic sessions occur during the outpatient rotation block. Subspecialty teaching clinics in multiple sclerosis, movement disorders, headache, dementia and neuro-otology are also a part of the outpatient clinic experience.

Lumbar Puncture Program
Director: Sophia Ryan, MD, MPH

Outpatient clinic sessions dedicated to lumbar puncture procedures enable 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 outpatient clinic blocks in the PGY-2 and PGY-3 years. 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.
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 Philip Maynard, MD was selected to be the 2022 Coddon Fellow and will present his research at The Headache Cooperative of New England’s annual conference, held each winter in Stowe, Vermont. This fellowship is frequently extended to Mount Sinai residents and includes an all-expenses paid weekend in Stowe, providing an opportunity to learn about up-to-date advances in headache medicine, and to meet and network with future mentors.
“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
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, 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.

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

**Mohamed El Shorafa, MD**  
Assistant Professor of Neurology and Pediatrics,  
Mount Sinai Headache and Facial Pain Fellowship Alum

**Adham Kamel, MD**  
Associate Professor of Neurology
“Choosing Mount Sinai as my residency program was a very easy decision to make. It was my first interview of the season, and I have been completely enamored with the program since that day. Throughout my interview day, I was told by several faculty that everyone at Sinai has the opportunity to carve their own path. Though I didn’t know what my path was at that time, I trusted that Sinai would mold me into a compassionate, caring, and inquisitive physician and educator in a nurturing and stimulating environment. What makes Sinai unique to me is the camaraderie among hospital faculty and staff. I know I have made lifelong friends in my co-residents.”

- Destiny Marquez, MD, Class of 2024
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
“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
Neurology Research Residency

Our residency program offers a Research Track option for residents who are interested in a career as a clinician-investigator in translational neuroscience; the Director for the Research Track is Leif Havton, MD, PhD, Professor of Neurology and Neuroscience (leif.havton@mssm.edu). Interested candidates should have a PhD or advanced research training. Research residents are mentored by one of our outstanding clinician-scientists and have access to the plethora of resources that are available through the Friedman Brain Institute and the Department of Neuroscience at the Icahn School of Medicine at Mount Sinai, one of the world’s premier neuroscience research institutions. In 2020, The Department of Neuroscience ranked #2 nationally in NIH funding and the Department of Neurology was ranked #14.

Research Track residents integrate research within their residency training. Residents in this track are prepared 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. There is not a separate ERAS application route for applicants interested in a research-focused residency curriculum; interested applicants should apply through ERAS to the MSH Neurology Residency Categorical and/or Advanced Tracks.

Sam Horng, MD, PhD MSH
Neurology Research Residency/ R25-supported Alum and current Assistant Professor of Neurology and Neuroscience identifying specific contact-mediated interactions between astrocytes and immune cells, in order to develop treatments for multiple sclerosis.
Spotlight on Two of Our Recent Research Track Graduates

Achillefs Ntranos, MD

Achillefs Ntranos is Assistant Professor of Neurology in the Mount Sinai Department of Neurology specializing in multiple sclerosis and demyelinating diseases. He received his medical degree from the National and Kapodistrian University of Athens Medical School in Greece, after which he completed a research fellowship in neuroimmunology at Johns Hopkins University. After an internship at Albert Einstein School of Medicine, Dr. Ntranos completed his residency training in neurology and a fellowship in multiple sclerosis at Icahn School of Medicine at Mount Sinai, for which he received the R25 research education grant from the National Institute of Neurological Diseases and Stroke and was awarded the Leon Levy Fellowship in Neuroimmunology Research. Dr. Ntranos leads a neuroimmunology lab at Mount Sinai, focusing on the role of immune epigenetics in multiple sclerosis pathogenesis and disease progression.

“When I came to Mount Sinai, I was immediately impressed by the culture of the program, the teaching that was going on was superb, and I saw the unique setting that exists here that puts basic, translational, and clinical research so close to each other, and that is what drives innovation and fuels discovery,” he says. “My training, mentorship, and the support I received here was critical for my development as a physician-scientist.”

Veronica Peschansky, MD, PhD

Dr. Peschansky became interested in research as an undergraduate at Brandeis University. She later was introduced to neuroscience research in the Dyslexia Lab at Beth Israel Deaconess Medical Center/Harvard Medical School. She then earned an MD and a PhD in the combined degree program at the University of Miami Miller School of Medicine. Dr. Peschansky completed her neurology research residency at Icahn School of Medicine at Mount Sinai, where she was supported by an NIH R25 grant and a Leon Levy Fellowship. She began a fellowship in neurocritical care at New York Presbyterian (Columbia/Cornell) later in 2021. Her research currently focuses on identifying predictive epigenetic biomarkers to distinguish non-infectious SIRS from sepsis, as well as for development of seizures as a consequence of sepsis.

Dr. Peschansky was drawn to the Mount Sinai neurology research residency by its reputation as one of the “absolute top neuroscience research programs in New York and in the country,” she says. Characteristics of the program that appealed to her included the wide variety of subspecialties, exposure to neurocritical care, and the fact that “we’re not just numbers in this program,” she says.
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.

**Erin Beck, MD, PhD**
Mechanisms and clinical implications of lesion formation, tissue damage, and repair in multiple sclerosis and other autoimmune CNS disorders using advanced MRI techniques, CSF transcriptomics, and histopathology.

**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.

**Isaac Marin-Valencia, MD**
Elucidation of how inherited metabolic derangements disrupt the development and maintenance of the nervous system, and designing new treatments to improve lives.

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

**Praveen Raju, MD, PhD**
Translational pediatric brain tumor research; enhancing drug delivery across the blood-brain barrier.

**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.

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 22
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-five 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.

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.
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 PI Aaron Miller, MD 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
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
Caroline Crooms, MD, MPH - Assistant Professor of Neurology, and of Geriatrics and Palliative Medicine
Churl-Su Kwon, MBBS, MPH - Assistant Professor of Neurology and Neurosurgery
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.
Medical Education Elective Track

The Mount Sinai Neurology Residency Program has a long-standing tradition of training medical educators, and we are proud that our alumni hold formal medical education roles in the Neurology departments of leading academic medical centers throughout the country. We are thrilled to offer residents interested in a career in Medical Education the opportunity to participate in our two-year Medical Education Track.

Residents apply at the end of the PGY-2 year and begin a two-year curriculum with the Mount Sinai Internal Medicine residents covering learning theory, curriculum design and implementation, feedback and evaluation, and medical education scholarship in the fall of the PGY-3 year. Didactics occur outside of clinical and elective time so that all interested residents can participate. With the mentorship of Neurology education faculty, residents develop and implement a Neurology medical education project and apply to attend the Harvard Macy Program for Post-Graduate Trainees: Future Academic Clinician-Educators course. Additionally, participants participate in quarterly Neurology education journal club dinners with program leadership and develop their skills as medical educators by participating in formal teaching opportunities in the residency and medical school level.

Residency applicants interested in participating will be provided with the opportunity to learn more about the track on their interview day and can reach out to track and program leadership with questions at any time.

Medical Education Track Objectives

- Teach residents core topics in medical education
- Mentor residents in the design, implementation, and assessment of a Neurology medical education project
- Enhance residents’ medical education skillset
- Expose residents to scholarship and career opportunities in medical education
Select Mount Sinai Neurology Residency Alumni in Education Leadership Positions

Alexandra Brown, MD - Director of Neurology Education, Zuckerberg San Francisco General, University of California San Francisco

Michelle Fabian, MD - Neurology Residency Program Director, Icahn School of Medicine at Mount Sinai

Adelene Jann, MD - Program Director, Headache Medicine Fellowship, New York University School of Medicine

Peter Jin, MD - Associate Program Director, University of Maryland Neurology Residency

Anna Pace, MD - Director, Resident and Fellow Headache Medicine Clinic, Icahn School of Medicine at Mount Sinai, Associate Director, Brain and Behavior, Icahn School of Medicine at Mount Sinai

Jillian Rosengard, MD - Neurology Clerkship Director, Albert Einstein College of Medicine

Susan Shin, MD - Program Director, Mount Sinai Neuro Muscular Medicine Fellowship

Kara Stavros, MD - Neurology Clerkship Director, Warren Alpert Medical School of Brown University

Laura Stein, MD, MPH - Neurology Residency Associate Program Director, Icahn School of Medicine at Mount Sinai

Elina Zakin, MD - Program Director, Neuro Muscular Medicine Fellowship, New York University

Pediatric Neurology Residency Program

The Mount Sinai Pediatric Neurology Residency Program is an ACGME accredited 3-year program whose mission is to provide exceptional training in pediatric and adult neurology through broad exposure to general and subspecialty neurology disciplines in one of the most culturally diverse cities in the world. Residents enter our program typically after completing two years of General Pediatrics training at an approved ACGME program and train alongside their MSH adult neurology resident colleagues in both the adult neurology and pediatric neurology inpatient and outpatient settings. Our residents rotate through four hospitals in the Mount Sinai Health System, including the nationally-ranked Mount Sinai Kravis Children’s Hospital, Mount Sinai West, as well as our ambulatory practice in Union Square and Elmhurst Hospital in Queens, part of New York City Health and Hospitals. Each setting provides a unique and meaningful learning experience. Residents are exposed to a diverse population in our hospitals and clinics and have the opportunity to encounter rare diseases and conditions as well as participate in clinical and translational research projects related to neurological disorders of childhood.

More information on this training program can be found at: https://icahn.mssm.edu/education/residencies-fellowships/list/msh-pediatric-neurology-residency
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; Rabbithole, 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.


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. 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 2021

Marianna Atiya, MD
Vascular Neurology Fellowship at Icahn School of Medicine at Mount Sinai

Mark Gregory Barber, MD, MPH
Headache Medicine Fellowship at Icahn School of Medicine at Mount Sinai

Helen Hyewon Han, MD
Epilepsy Fellowship at New York University Langone Health

Helaina Jessica Skop Lehrer, MD, PhD
Neurocritical Care Fellowship at Icahn School of Medicine at Mount Sinai

Arielle Bokhour Matalon, MD
Clinical Neurophysiology Fellowship (EMG Track) at Icahn School of Medicine at Mount Sinai

Jamie Erika Nichols, MD
Multiple Sclerosis Fellowship at Icahn School of Medicine at Mount Sinai

Veronica Peschansky, MD, PhD
Neurocritical Care Fellowship at New York-Presbyterian Hospital/Columbia and Cornell

Daniel Santos, MD
Neurocritical Care Fellowship at University of Pennsylvania

Emily M. Schorr, MD
Neuroimmunology Fellowship at Johns Hopkins University

Justin Tay, MD
Vascular Neurology Fellowship at Icahn School of Medicine at Mount Sinai

Class of 2020

Benjamin Robert Moss Brush, MD
Neurocritical Care Fellowship at Massachusetts General Hospital and Brigham & Women’s Hospital

Helen Yan Cheung, MD
Clinical Neurophysiology Fellowship (EMG) at Stanford University - Neurologist, Banner Health, Colorado

Joshua Scott Friedman, MD
Neuro-Oncology Fellowship at Memorial Sloan Kettering Cancer Center

Brian Dongha Kim, MD
Vascular Neurology Fellowship at Icahn School of Medicine at Mount Sinai - Neuroendovascular Surgery Fellowship (2022-2024) at Icahn School of Medicine at Mount Sinai

Kenneth Karkay Leung, MD, MS
Neuromuscular Medicine Fellowship at Stanford University School of Medicine - Clinical Instructor of Neurology, Stanford University School of Medicine

Nishant Kumar Mishra, MBBS, PhD
Vascular Neurology Fellowship at University of California, Los Angeles - Assistant Professor of Neurology, Division of Stroke & Vascular Neurology, Yale University

Mallory Noelle Roberts, MD
Instructor of Neurology at Elmhurst Hospital Center - Vascular Neurology Fellowship (2021-2022) at Icahn School of Medicine at Mount Sinai

Amy Beth Postelnik, MD, MPH
Epilepsy Fellowship at Columbia University Irving Medical Center - Director of Epilepsy at HHC Lincoln Hospital

Alison Ilana Thaler, MD
Vascular Neurology Fellowship at NYU Langone - Headache Fellowship at NYU Langone

Class of 2019

Rory Abrams, MD
Clinical Neurophysiology/EMG Fellowship at Mount Sinai Hospital - Assistant Professor of Neurology, Icahn School of Medicine at Mount Sinai

Yaowaree Leavell, MD
Neuromuscular Medicine Fellowship at Mount Sinai Hospital and Palliative Medicine Fellowship, Icahn School of Medicine at Mount Sinai - Assistant Professor of Neurology, OHSU Medical School
Chi-Ying Lin, MD, MPH  
Movement Disorders Fellowship at Columbia University  
Assistant Professor of Neurology, Baylor College of Medicine, Houston TX

Bridget Mueller, MD, PhD  
Headache Fellowship at Mount Sinai Hospital  
Assistant Professor of Neurology, Icahn School of Medicine at Mount Sinai

Ling Pan, MD  
Movement Disorders Fellowship at NYU  
Clinical Assistant Professor, Department of Neurology at NYU Grossman School of Medicine

Elizabeth Pedowitz, MD  
Neuromuscular Medicine Fellowship at Mount Sinai Hospital  
Hospice and Palliative Medicine Fellowship at Icahn School of Medicine at Mount Sinai - Assistant Attending, Supportive Care Service at Memorial Sloan Kettering Hospital

Farinaz Safavi, MD, PhD  
Neuroimmunology Clinical Fellowship at NINDS, NIH

Gabriela Tantillo, MD, MPH  
Clinical Neurophysiology/EMG Fellowship at Mount Sinai Hospital - Assistant Professor of Neurology, Baylor College of Medicine
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, neuro-oncology, and neuro-otology.

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.

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<tr>
<th>ISSM Fellowships</th>
<th>Duration (Years)</th>
<th>Accreting Body</th>
<th>Number of Positions Per Year</th>
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<tr>
<td>Behavioral Neurology and Neuropsychiatry</td>
<td>1 - 2</td>
<td>UCNS</td>
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<td>Georges Naasan, MD</td>
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<td>Clinical Neurophysiology (EEG/EMG Tracks)</td>
<td>1</td>
<td>ACGME</td>
<td>2 (one in EEG track; one in EMG track)</td>
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<td>Headache Medicine</td>
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<td>Anna Pace, MD</td>
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<td>Movement Disorders</td>
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<td>Winona Tse, MD (interim)</td>
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<td>Multiple Sclerosis</td>
<td>2 - 3</td>
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<td>2 or 3</td>
<td>Fred Lublin, MD</td>
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<td>Neurocritical Care</td>
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<td>Neha S. Dangayach, MD</td>
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<tr>
<td>Neuroendovascular Surgery</td>
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<td>CAST</td>
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<td>Johanna T. Fifi, MD; J Mocco, MD, MS; Reade A. De Leacy, MD</td>
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<tr>
<td>Neuro-infectious Disease</td>
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<td></td>
<td>1</td>
<td>Jessica Robinson-Papp, MD, MS</td>
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<td>Neuromuscular Medicine</td>
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<td>2</td>
<td>Susan Shin, MD</td>
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<td>1</td>
<td>Isabelle Germano, MD (interim)</td>
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<td>Neuro-Otology Fellowship</td>
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<td>Joanna Jen, MD, PhD</td>
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<tr>
<td>Vascular Neurology</td>
<td>1 - 2</td>
<td>ACGME</td>
<td>3</td>
<td>Mandip Dhamoon, MD, DrPH</td>
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“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 Neurophysiology Lab
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 in the 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; launched new MS Wellness Center in 2020
- Multiple ongoing clinical trials of novel agents 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, training in clinical care and translational clinical trials in multiple sclerosis and related disorders

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, Associate Professor of Neurology, Mount Sinai MS Fellowship Alum
Stephen C. Krieger, MD - Professor of Neurology, Neurology Residency and MS Fellowship Alum
Michelle T. Fabian, MD - Associate 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 Klineova, MD, MS - Assistant Professor of Neurology, Mount Sinai Multiple Sclerosis Fellowship Alum
Anusha Yeshokumar, MD - Clinical 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
Erin Beck, MD, PhD - Assistant Professor of Neurology
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 second 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 – Emeritus Professor of Neurology, and Geriatrics and Palliative Care
Mount Sinai Neurology Residency Alum

Steven Rudolf, MD – Interim Division Chief, Associate Professor of Neurology

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

Johanna T. Fifi, MD – Co-Director of the Neuroendovascular 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
Mount Sinai Neurology Residency Alum

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

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

Michael Fara, MD, PhD – Interim Director, MSH Comprehensive Stroke Center,
Assistant Professor of Neurology

Benjamin R. Kummer, MD – Assistant Professor of Neurology

Lili Velickovic Ostojic, MD – Assistant Professor of Neurology
Mount Sinai Beth Israel Residency Alum
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 –
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
The Epilepsy Program offers compassionate and comprehensive care for people with epilepsy and related disorders. Program faculty work closely with a large team including nurse practitioners, an outreach coordinator, a social worker, a recreational therapist, and a nutritionist; two full-time faculty neuropsychologists are also dedicated to the program. At the Mount Sinai Hospital campus, the program includes a high-volume inpatient epilepsy monitoring unit (EMU) and full outpatient electroencephalography (EEG) lab. The program embraces a multidisciplinary approach to treatment options, including lifestyle modifications, medications, alternative therapies 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
• 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
Associate Professor of Neurology
Mount Sinai Neurology Residency Alum

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

Sloane Sheldon, PhD – Assistant Professor of Neurology
Neuropsychology Services for the Epilepsy Program

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

Adam Saad, PsyD - Assistant Professor of Neurology
The Headache and Facial Pain Center

The Headache and Facial Pain Center 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 provide tailored, evidence-based treatment for various headache and facial pain disorders with a focus on complex cases.

Our faculty are also involved in the following:

- Autonomic Function Laboratory
- Recently established Transgender Headache Medicine Program
- Offers virtual visits/teleneurology outpatient visits for established headache patients
- UCNS-certified Headache Medicine Fellowship Program Available

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 multiple new faculty recruitments. 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.
The Division of Behavioral Neurology and Neuropsychiatry

Within the Division of Behavioral Neurology and Neuropsychiatry, expert clinical care is provided to patients experiencing memory and other cognitive or behavioral symptoms. Patients are evaluated at the Barbara and Maurice Deane Center for Wellness and Cognitive Health for conditions 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 Deane Center features a multidisciplinary team of neurologists, geriatricians, neuropsychologists, and translational neuroscientists, and partners with social work, nursing, and advanced practice providers. Division faculty provide expert diagnostic assessments and management of patients referred from all over the world, and they lead investigator-initiated studies for various cognitive disorders, as well as recruit into clinical trials of the longstanding Mount Sinai Alzheimer’s Disease Research Center. Division faculty also include clinician-investigators with substantial NIH and other funding, conducting mechanistic and translational research in Alzheimer’s disease and other dementias.

• Ongoing, investigator-initiated clinical trial of the glutamate modulator riluzole in mild Alzheimer’s disease
• 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:

Sam E. Gandy, MD, PhD – Division Chief Professor of Neurology and of Psychiatry; Mount Sinai Endowed Chair in Alzheimer’s Research

Georges Naasan, MD – Medical Director, Division of Behavioral Neurology and Neuropsychiatry; Co-Medical Director, Barbara and Maurice Deane Center for Wellness and Cognitive Health; Behavioral Neurology and Neuropsychiatry Fellowship Program Director; Associate Professor of Neurology, and Geriatrics and Palliative Medicine

Tianxu Xia, MD – Assistant Professor of Neurology and Psychiatry; Associate Director of Neurobehavioral Education

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

Joanne Festa, PhD - Assistant Professor of Neurology and Psychiatry
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 seizures and epilepsy, stroke and cerebrovascular disorders, headache and concussion syndromes, neuromuscular disorders, movement disorders, neurometabolic and neurogenic disorders, autoimmune neurological disorders (encephalitis and multiple sclerosis), neonatal encephalopathy, developmental and intellectual disability, learning disorders, autism and neurobehavioral disorders, neurofibromatosis and neuro-oncological diseases.

• High-volume and complexity inpatient and consult pediatric neurology service and twice-weekly general pediatric neurology teaching clinics provide 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 Pediatric Intensive Care Unit (PICU) and Neonatal Intensive Care Unit (NICU).

• Comprehensive care for children with epilepsy and seizure disorders is provided in a dedicated pediatric epilepsy monitoring unit (EMU) at Kravis Children’s Hospital, including a pediatric epilepsy surgical program.

• Unique pediatric-specific subspecialty clinics in epilepsy, headache and traumatic brain injury, autoimmune neurology and multiple sclerosis, movement disorders, neurometabolism, neurofibromatosis and neuro-oncology, adrenoleukodystrophy, and spasticity/cerebral palsy.

• 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 disorders and epilepsy with the Mindich Child Health and Development Institute and the Seaver Autism Center for Research and Treatment.

• Basic science investigation with several NIH-funded pediatric neurology research laboratories that focus on pathophysiological mechanisms of genetic dystonias, neonatal opioid withdrawal syndrome, pediatric neurometabolic disorders, and pediatric brain tumors.

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
Praveen Raju, MD, PhD - Associate Professor of Neurology and Pediatrics
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
Wilson D. Heredia Nunez, MD - Assistant Professor of Neurology and Pediatrics
Natasha Acosta Diaz, MD - Assistant Professor of Neurology and Pediatrics
Isaac Marin-Valencia, MD – Assistant Professor of Neurology, Neuroscience, Genetics and Genomic Sciences, and Pediatrics
Mohamed El Shorafa, MD - Assistant Professor of Neurology and Pediatrics, Headache and Facial Pain Fellowship Alum
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 2,500 neuro-ophthalmology outpatients seen in 2019

• 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) and the first trial on acute neuroprotection for optic nerve injury

• 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

• The Neuro-ophthalmology division has expanded research into artificial intelligence for analyzing visual fields, fundus photos, and optical coherence evaluations of conditions that cause swelling of the optic nerve head. NIH and foundation grants support efforts to determine risk factors and changes reflecting outcomes and potential therapies.
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

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, SARS-COV-2, 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 Chief Neurologist for the Post-acute COVID (PASC) neurology clinic 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-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 developed protocols to build a long-term program of research on improving quality-of-life outcomes for patients with high-grade glioma. In addition, she has developed 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 has established 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. In fall 2021, she is joining the faculty as Assistant Professor of Neurology.

MSH Teaching Faculty:

Rita “Caroline” Crooms, MD, MPH - Assistant Professor in Neurology and Geriatrics and Palliative Medicine
**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:**
- 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
- Vanessa Tiongson, MD – Assistant Professor of Neurology
- Michelle Liu, MD – Assistant Professor of Neurology and Anesthesiology

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**The Division of Inpatient General Neurology, Quality and Safety**

The mission of the Division of Inpatient General Neurology, Quality and Safety is to provide standardized, safe, high quality care to all hospitalized patients with non-vascular neurologic conditions, while also providing exceptional training to residents and students.

The teaching faculty is comprised of neurohospitalists, general neurologists and subspecialist neurologists, all of whom bring diverse experience, expertise and great enthusiasm for teaching. Through inpatient consultation and management, trainees are exposed to a wide range of neurologic conditions, as well as to systems thinking, to gain a deeper appreciation of the role of the provider in a complex care delivery system and to ensure the best possible care for every patient.

**MSH Teaching Faculty:**
- Sophia Ryan, MD, MPH
  Division Chief
  Assistant Professor of Neurology
- Joseph Diamond, MD
  Assistant Professor of Neurology
  Lead Neurohospitalist, Mount Sinai Morningside
- Elissa Fory, MD
  Associate Professor of Neurology
  Site Medical Director for General Neurology at Mount Sinai Queens
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

Spyridoula Tsetsou, MD – Director, Critical Care Intraoperative Monitoring Assistant Professor of Neurosurgery
**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.

**MSH Teaching Faculty:**

Benjamin R. Kummer, MD
Assistant Professor of Neurology;
Director of Clinical Informatics,
Department of Neurology
Mount Sinai Neurology Historic Milestones

Bernard Cohen, MD,
Late Emeritus Professor of Neurology,
and the COSMOS Rotator, now in the
Smithsonian Collection (National Air
and Space Museum). Dr. Cohen was
continuously funded by NIH and NASA
for 54 years.

**U.S. News & World Report**
2021-2022 Ranking

The Mount Sinai Hospital
10th, Neurology & Neurosurgery

Ranked #6 in the U.S. and #11
in Neurology in the World
by *Newsweek’s* “World’s Best
Specialized Hospitals,” 2022

**NIH Funding - Department of Neurology,**
from FY 2014 to FY 2020

<table>
<thead>
<tr>
<th>Year</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>$7,856,277</td>
</tr>
<tr>
<td>2015</td>
<td>$12,254,392</td>
</tr>
<tr>
<td>2016</td>
<td>$14,813,646</td>
</tr>
<tr>
<td>2017</td>
<td>$16,387,890</td>
</tr>
<tr>
<td>2018</td>
<td>$21,218,063</td>
</tr>
<tr>
<td>2019</td>
<td>$21,763,368</td>
</tr>
<tr>
<td>2020</td>
<td>$18,557,516</td>
</tr>
</tbody>
</table>

Total research funding from all federal and non-federal sources in 2020 exceeded $42 million.
<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, identifies “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>
<tr>
<td>2020</td>
<td>Several dozen neurology faculty along with fellows and residents served on Medicine Covid Teams during the height of the pandemic surge in New York City, spring 2020</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.”

“Go where you are celebrated”.

Mount Sinai’s Neurology Department’s focus on academic excellence, scientific rigor, resident well being, and advocacy create an atmosphere that supports a diverse class with varied interests. I had the privilege of not only growing up here, running around the halls of Annenberg while my mom tirelessly worked on completing her MD/PhD here at Mount Sinai, but also of spending four amazing years learning and applying the foundations of medicine as a medical student here. Throughout that time the Neurology department and the Mount Sinai community have shown me overwhelming support in my clinical and research interests. The mentorship, friendship, and support I have received has made choosing to continue my training here with the Mount Sinai Neurology department the best decision for me.

– Masrai Williams, MD, Class of 2025
“I’ll always remember my interview at Mount Sinai and the first time I walked into Yahr Library. By that point, I had already been to several interviews, and I felt like I knew what to expect. I vividly remember feeling like this program was different. Interacting with the residents, it became clear that, despite the inherently challenging nature of medical training, they all seemed genuinely happy to be here, felt supported by the faculty, and were deeply invested in the program. I can say that Mount Sinai has lived up to all of my expectations and was one of the best decisions I’ve ever made.”

– David Daniel, MD, Class of 2024

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

**No. 2 Neurosciences**
$37.2 million for Basic Science

**No. 5 Psychiatry**
$43.5 million for Clinical Science

**No. 14 Neurology**
$18.9 million for Clinical Science

Data compiled and released in February 2021 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 2020 fiscal year.

Microscopy image of immune cells (green) infiltrating past a barrier of reactive astrocytes (red) in the spinal cord of a mouse model of multiple sclerosis.
“I was drawn to the Neurology program at Mount Sinai because I knew I wanted to take care of New Yorkers and provide them with the best care in the world. The breadth of subspecialties represented is astounding, and there is no time more critical to be exposed to these fields than during residency. I was hesitant to join a program that covered multiple hospitals, but have realized since that working in multiple environments challenges you to learn more and practice better. And I have the best co-residents: smart, caring, interesting, hard-working, supportive, motivated, humble, and a little quirky.”

– Philip Maynard, MD, Class of 2023