Icahn School of Medicine at Mount Sinai

State of the School 2022

Dennis S. Charney, MD
Anne and Joel Ehrenkranz Dean
Icahn School of Medicine at Mount Sinai
President for Academic Affairs
Mount Sinai Health System
COVID-19

Efficacy and Safety of Pacritinib vs Placebo for Patients With Severe COVID-19
A Phase 2 Randomized Clinical Trial
John Catardi, MD; Carole Miller, MD; Howard Terebelo, DO;

A shift in lung macrophage composition is associated with COVID-19 severity and recovery
Steven T. Chen; Matthew D. Park; Diane Marie Del Valle; Mark Biggsup; Alexandra Tabakshnow; Ryan Q. Thompson, PhD; Nicole W. Simonis; Konstantinos Mouzakias; Brian Lee; Daniel Guarnier; Danyel D’Souza; Todd Dawson; Robert Merının; Robert Merının; Zhan Zhao, MD, PhD; Jessica Laffey; Christine Chang; Hua Jared; Guray Akturk; Umut Ozbek, PhD; Kusum Mathews, MD, MPH, MSCR; Samuel Assouan, MD; Stacey-Ann Brown, MD; MPH; Michelle Reiss; Timothy Harkin; Charles A. Powell; Jamie L. Hock; Sanghoon Kim-Schulze; Abdeel H. Rahman; Brian D. Brown; Noam S. Benjamim; Sadia Greenleaf; Ephraim Kengisberg; Alexandre W. Charney, MD; Minam Merad

CANCER

770 Effective Treatment of Low-Risk Acute GvHD with Itacitinib Monotherapy
Alexandra Capellini; Aaron Etra, MD; Janna Baza; Itsha Gandhi; Stellos Kasikis; Deukwoo Kwon; PhD; George Morales; Limuk Ozek, PhD; Nikolaos Spyrou, MD; Rachel Young; James L.M. Ferrara, MD, DSc; John L. Levine, MD, MD

NKG2A and HLA-E define an alternative immune checkpoint axis in bladder cancer
Bérengère Salomé; John P. Stikaniotou; Daniel Ranti; Matthew D. Galsky, MD; Nina Bhardwaj, MD, PhD

BRAIN

APOE4 impairs myelination via cholesterol dysregulation in oligodendrocytes
Joel W. Blanchard, PhD; Leyla Anne Ackay, Jose Davia-Velderrain, Dómina von Maydell

HEART

Bivalirudin plus a high-dose infusion versus heparin monotherapy in patients with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention: a randomized trial
Gregg W. Stone, MD, FACC, FSCAI

THE LANCET

Genetics of the human microglia regulome refines Alzheimer’s disease risk loci
Roman Kosoy, PhD; John F. Fullard, PhD; Biao Zeng; Jaroslav Bendl, PhD; Pengping Dong, PhD; Sarmir Rahman, PhD; Steven P. Kropoulous; Zheng Shao; Kiran Girdhar, PhD; Jack Humphrey, PhD; Kalita De Papa Lopes, PhD; Alexander W. Charney, MD; Brian H. Kopell, MD; Towsfique Raj; Christopher P. Kothier, MD; Vahram Haroutunian, PhD; Gabriel E. Hoffman, PhD; Panos Roussos, MD, PhD

Polypill Strategy in Secondary Cardiovascular Prevention
Jose M. Castellano, MD, PhD; Deepak L. Bhatt, MD, MPH
Recognized for Research Excellence

**14th**
Ranked No. 14 in total NIH funding among all U.S. medical schools
Source: NIH

**14**
14 basic and clinical science departments in top 20 NIH funding
Source: Blue Ridge, 2021

**99th**
99th percentile among U.S. private medical schools in research dollars per investigator
Source: AAMC
## Department Rankings for NIH Funding: Top 20

### Basic Sciences

<table>
<thead>
<tr>
<th>No.</th>
<th>Department</th>
<th>Rank</th>
<th>NIH Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Neuroscience</td>
<td>2</td>
<td>$36.9M</td>
</tr>
<tr>
<td>2</td>
<td>Genetics</td>
<td>2</td>
<td>$48.9M</td>
</tr>
<tr>
<td>5</td>
<td>Cell Biology</td>
<td>5</td>
<td>$15M</td>
</tr>
<tr>
<td>9</td>
<td>Pharmacology</td>
<td>9</td>
<td>$15.8M</td>
</tr>
<tr>
<td>14</td>
<td>Microbiology</td>
<td>14</td>
<td>$17.2M</td>
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</table>

### Clinical Sciences

<table>
<thead>
<tr>
<th>No.</th>
<th>Department</th>
<th>Rank</th>
<th>NIH Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Public Health</td>
<td>4</td>
<td>$23.9M</td>
</tr>
<tr>
<td>7</td>
<td>Psychiatry</td>
<td>7</td>
<td>$43.6M</td>
</tr>
<tr>
<td>10</td>
<td>Emergency Medicine</td>
<td>10</td>
<td>$3.7M</td>
</tr>
<tr>
<td>10</td>
<td>Urology</td>
<td>10</td>
<td>$2.2M</td>
</tr>
<tr>
<td>14</td>
<td>Physical Medicine</td>
<td>14</td>
<td>$1.1M</td>
</tr>
<tr>
<td>15</td>
<td>Radiology</td>
<td>15</td>
<td>$1.26M</td>
</tr>
<tr>
<td>13</td>
<td>Internal Medicine</td>
<td>13</td>
<td>$1.25M</td>
</tr>
<tr>
<td>13</td>
<td>Neurology</td>
<td>13</td>
<td>$2.43M</td>
</tr>
<tr>
<td>20</td>
<td>Neurosurgery</td>
<td>20</td>
<td>$2.6M</td>
</tr>
</tbody>
</table>

(Source: Blue Ridge 2021 Data)
Our NIH Funding is Growing: 2013–2022 ($ in millions)
Icahn Mount Sinai Is a Research Powerhouse

National Center for Advancing Translational Sciences Program (CTSA)
- $55.5 million, five-year, grant from NIH
  Rosalind J. Wright, MD, MPH

Mount Sinai Million Health Discovery Program
- Alexander W. Charney, MD, PhD; Girish N. Nadkarni, MD, MPH

Comprehensive Center for Surgical Innovation
- $11.6 million,
  - Joshua Bederson, MD; Evan L. Flatow, MD

Antiviral Drug Discovery Centers for Pathogens of Pandemic Concern
- $16 million from NIH
  - Adolfo García-Sastre, PhD; Benhur Lee, MD; Matthew Evans, PhD;
    Lisa Miorin, PhD; Christopher Basler, PhD; Gustavo Palacios, PhD
# Recognition for Our Faculty and Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yvette Calderon</strong></td>
<td>MD, MS, National Academy of Medicine</td>
</tr>
<tr>
<td><strong>Valentin Fuster</strong></td>
<td>MD, PhD, Inaugural Valentin Fuster Award for Innovation in Science, American College of Cardiology, TCT 2022 Career Achievement Award</td>
</tr>
<tr>
<td><strong>Isabelle Germano</strong></td>
<td>MD, Chair, AANS/CNS Section on Tumors (first woman)</td>
</tr>
<tr>
<td><strong>Ian Maze</strong></td>
<td>PhD, Society for Neuroscience, Jacob P. Waletsky Award</td>
</tr>
<tr>
<td><strong>Roxana Mehran</strong></td>
<td>MD, Women in Cardiology Mentoring Award, American Heart Association</td>
</tr>
<tr>
<td><strong>Mone Zaidi</strong></td>
<td>MD, PhD, MACP, Chair, Honorary Fellow, British Pharmacological Society, Special Recognition Award, Alliance of Academic Internal Medicine (AAIM)</td>
</tr>
</tbody>
</table>

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*Icahn School of Medicine at Mount Sinai | School Update | January 2023*
Recognition for Our Faculty and Students

Brendan G. Carr
MD, MS
2022 “Chair of the Year” Award Emergency Medicine Residents’ Association

Bruce Gelb
MD
President, American Society of Human Genetics (ASHG)

Ana S. Gonzalez-Reiche
PhD
2022 STAT Wunderkinds Award

Adriana K. Malone
PhD
ACGME Parker J. Palmer Courage to Teach Award

Michelle Tran
MD/PhD Student
20L’Oréal Paris Women of Worth CNN Hero Salute
Accelerating Translational Research Through New Research and Educational Initiatives

Institute and Center Directors

- Deepak L. Bhatt, MD, MPH, Mount Sinai Heart
- Samin K. Sharma, MD, Mount Sinai Cardiovascular Clinical Institute
- Alexander W. Charney, MD, PhD, and Girish N. Nadkarni, MD, MPH, The Charles Bronfman Institute for Personalized Medicine
- Brian Brown, PhD, Icahn Genomics Institute
- Paolo Cravedi, MD, PhD, Translational Transplant Research Center

Centers (newly established or reorganized)

- Priti Balchandani, PhD, Center for Engineering and Precision Medicine (in partnership with Rensselaer Polytechnic Institute)
- Joshua Bederson, MD; Evan L. Flatow, MD, Comprehensive Center for Surgical Innovation
- Adolfo García-Sastre, PhD, Center for Antiviral Medicines and Pandemic Preparedness
- Carol Gregorio, PhD; Center for Muscle Biology
- Leona Hess, PhD, MSW; Ann-Gel Palermo, DrPH, MPH, Center for Anti-Racism in Practice
- Amy Kontorovich, MD, Mount Sinai Center for Inherited Cardiovascular Diseases
- Benhur Lee, MD, Antiviral Countermeasures Development Center
- Amanda J. Rhee, MD, Center for the Advancement of Asian Equity and Professional Development
- Panos Roussos, MD, PhD; Center for Disease Neurogenomics
# New Appointments and Promotions

## Deans
- **Michal A. Elovitz, MD**  
  Women’s Health Research
- **Bruce D. Gelb, MD**  
  Child Health Research

## Senior Associate Deans
- **Stephanie Autenrieth, MEd**  
  Med Enrollment Services
- **Margaret H. Baron, MD, PhD**  
  Basic and Clinical Research Training
- **Jenny J. Lin, MD, MPH**  
  Office of Gender Equity in Science and Medicine
- **Sarah E. Millar, PhD**  
  Basic Research, Icahn School of Medicine
- **Talia H. Swartz, MD, PhD**  
  MD/PhD Student Education

## Associate Dean
- **Kristine Markovich Alpi, MLS, MPH, PhD**  
  FMLA, AHIP, Libraries and Information Sciences
# New Appointments and Promotions

## Chairs

<table>
<thead>
<tr>
<th>Chair Name</th>
<th>Department/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas Fuchs, DrSc</td>
<td>Department of Artificial Intelligence and Human Health</td>
</tr>
<tr>
<td>Monica Kraft, MD</td>
<td>Department of Medicine</td>
</tr>
<tr>
<td>Neil Rofsky, MD, MHA</td>
<td>Department of Radiology</td>
</tr>
<tr>
<td>Joanne L. Stone, MD, MS</td>
<td>Department of Obstetrics, Gynecology and Reproductive Science</td>
</tr>
</tbody>
</table>

## Chiefs

<table>
<thead>
<tr>
<th>Chief Name</th>
<th>Department/Division/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Girish N. Nadkarni, MD</td>
<td>Division of Data-Driven and Digital Medicine, Department of Medicine</td>
</tr>
<tr>
<td>Jonathan P. Kyriacou, MPH</td>
<td>Chief Operating Officer, The Mount Sinai Hospital</td>
</tr>
<tr>
<td>Ashutosh K. Tewari, MBBS, MCh</td>
<td>Surgeon-in-Chief, the Tisch Cancer Hospital at The Mount Sinai Hospital</td>
</tr>
</tbody>
</table>

## Admin

<table>
<thead>
<tr>
<th>Admin Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lindsey Douglas, MD, MS</td>
<td>Chief Medical Officer, Mount Sinai Kravis Children’s Hospital</td>
</tr>
<tr>
<td>Valentin Fuster, MD, PhD</td>
<td>President, Mount Sinai Heart</td>
</tr>
<tr>
<td>Cardinale B. Smith, MD, PhD</td>
<td>Chief Medical Officer, the Tisch Cancer Hospital and Vice President of Cancer Clinical Affairs</td>
</tr>
<tr>
<td>Neil Rofsky, MD, MHA</td>
<td>Department of Radiology</td>
</tr>
</tbody>
</table>
Opportunities for Career Growth: Investigator Track Faculty

Icahn Mount Sinai’s robust faculty development and mentoring programs make us an attractive institution for early-stage and mid-career faculty.

46 New Investigator Track Faculty in:

- AI and Human Health
- Cancer Immunology
- Cardiovascular Research Institute
- Cell Developmental and Regenerative Biology
- Dermatology
- Endocrinology
- Environmental Medicine and Public Health
- Gastroenterology
- Genetics
- Genetics/Genomic Sciences
- Global Health
- Liver MSH
- Medicine Admin
- Medicine: Cardiology
- Microbiology
- Neurology
- Neuroscience
- Oncological Sciences
- Ophthalmology
- Orthopedics
- Otolaryngology
- Pathology
- Pharmacological Sciences
- Population Health Science and Policy
- Psychiatry
- Psychiatry/Neurosciences
- Pulmonary, Critical Care and Sleep Medicine/Cell, Developmental and Regenerative Biology
- Radiology/BMEII
- Rehabilitation and Human Performance
- Renal MSH – ISMMS
Advancing Women in Leadership Roles at Icahn Mount Sinai
For the Office of Gender Equity in Science and Medicine

Program Support

- Doris Duke Charitable Foundation—Additional funding for the COVID-19 Fund to Retain Clinical Scientists collaborative
- Mid-Career Scholars Program—Additional funding to assist associate professors advance to full professor and leadership positions
- Activity Expansion
- Conducted workshops to reduce microaggressions in the workplace throughout Mount Sinai Health System

If you notice a microaggression, against a peer or patient, you can take:

- Ask clarifying questions.
- Curiosity can encourage conversation.
- Tell what you observed, specifically and using details.
- Impact discuss potential impact.
- Own your own thoughts.
- Next steps.

Looking for students, trainees, staff and faculty at the Icahn School of Medicine at Mount Sinai with ideas to address gender equity. Join Us!

Carol R. Horowitz, MD, MPH
Dean

Toni A. Stern, MD, MBA
Senior Associate Dean

Amy S. Kelley, MD, MSHS
Senior Associate Dean

Jenny Lin, MD
Director of Strategic Initiatives
Resilience and behavioral health resource for all Mount Sinai Health System faculty, staff, and trainees:

- CSRPG faculty are co-investigators on federally-funded grants that aim to support hospital unit staff (HRSA) and researchers (NIH/NCATS).
- Resilience-building workshops are ongoing, including tailored programming with residents and fellows, and hospital support staff.
- Wellness Hub app is available on Sinai Central.
- **Immediately accessible, in-network** and **confidential** behavioral health care. Over 5,000 treatment visits completed in 2022.
“We Take Care of Our Own”
Office of Well-Being and Resilience

Health Resources and Services Administration Grant
• Awarded a three-year, $2.1 million Health Workforce Resiliency grant to support efforts to reduce burnout, enhance resilience, and promote mental health among our staff, faculty, students, residents, and fellows

Survey Activity
• Faculty Survey 2022: Completed in September (~42% RR >1500 respondents)
• Analysis underway

Well-Being Champion Infrastructure Growth and Development
• 30+ faculty well-being champions for 23 departments, yielding 17 departmental plans to address well-being

Faculty
• Faculty Well-Being Champions:

Residents and Fellows
• GME Well-being Survey (68% Response Rate) and expanded/enhanced Well-Being Champions

Medical and Graduate Students, Postdocs
• “PEERS (Practice, Enhancement, Engagement, Resilience and Support
• >100 students engaged in longitudinal research to assess well-being
• PEERS elective launched
Medical Education: Attracting a Diverse Group of the Best and the Brightest Students

<table>
<thead>
<tr>
<th></th>
<th>MD/MD-PhD Matriculate 2022</th>
<th>FlexMed Matriculate 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Matriculating Students</td>
<td>120</td>
<td>40</td>
</tr>
<tr>
<td>Self-Identifying as Woman</td>
<td>64 (53%)</td>
<td>18 (45%)</td>
</tr>
<tr>
<td>Underrepresented in Medicine/Science</td>
<td>37% (31%)</td>
<td>13 (33%)</td>
</tr>
<tr>
<td>Number of Undergraduate Students</td>
<td>55</td>
<td>22</td>
</tr>
<tr>
<td>Median MCAT</td>
<td>517</td>
<td>N/A</td>
</tr>
<tr>
<td>Median GPA</td>
<td>3.87</td>
<td>3.97</td>
</tr>
</tbody>
</table>

- **Class of 2022 Students Matched** to 25 specialties—many in the most competitive programs in the nation
- **52 Students Entered Residency** within Mount Sinai Health System
- **New Curriculum:** Creation of a two-week immersion and acclimation course—Base Camp—to launch the curriculum
- **Emphasis on Mentoring:** 42 departments in 20 disciplines mentoring a Scholarly Year Student
Recruited the largest PhD class in Biomedical Sciences and Neuroscience in the history of the Icahn School of Medicine at Mount Sinai

<table>
<thead>
<tr>
<th>PhD Students Matriculating Classes of 2022</th>
<th>Masters Students Matriculating Fall of 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size of Class</strong></td>
<td><strong>Size of Class</strong></td>
</tr>
<tr>
<td>61</td>
<td>372</td>
</tr>
<tr>
<td><strong>Women</strong></td>
<td><strong>Women</strong></td>
</tr>
<tr>
<td>64%</td>
<td>70%</td>
</tr>
<tr>
<td><strong>Underrepresented in Science</strong></td>
<td><strong>Underrepresented in Science</strong></td>
</tr>
<tr>
<td>21%</td>
<td>22%</td>
</tr>
<tr>
<td><strong>Median Undergraduate GPA</strong></td>
<td></td>
</tr>
<tr>
<td>3.75</td>
<td></td>
</tr>
<tr>
<td><strong>Countries of Origin</strong></td>
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<tr>
<td>18</td>
<td></td>
</tr>
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</table>
Student Initiatives

Racism and Bias Initiative x Center for Anti-Racism in Practice
- 11 fellows working on various projects to promote anti-racist, community-centered initiatives

Diversity Innovation Hub
- Community-driven incubator tackling social determinants of health disparities
- Pipeline, partnership, and fellowship programs aimed to increase capacity of URiSM and women entrepreneurs

Students for Equal Opportunity in Science (SEOS)
- Graduate student organization promoting diversity in science
- Activities include faculty mentoring for students, networking opportunities among Icahn Mount Sinai students and other underrepresented students across New York City, and community service to promote interest in science among high school and college students

THAW – Trainee Health and Wellness Committee
- Provide resources to address the wellness needs of graduate students and postdocs
- Initiatives include peer mentorship, resilience training, and access to mental health care

Notable Student-Authoried Research:
- **Oncoscience**: Determined relationship between meningioma mutations and oncologic outcomes using a targeted next-generation sequencing panel
- **Science Translational Medicine**: Demonstrated that SARS-CoV-2 infection is associated with long-term systemic perturbations after recovery
- **AMA Journal of Ethics**: Developed curriculum to sensitize medical students to segregated care
- **Journal of General Internal Medicine**: Identified patterns of health care utilization and spending among homebound older adults
A Leader in Graduate Medical Education
Our graduate medical education program remains the largest in the United States

**2,649** residents and clinical fellows in **250** GME programs

<table>
<thead>
<tr>
<th>Program name</th>
<th>No. of Programs in the US</th>
<th>2022 Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermatology</td>
<td>143</td>
<td>7</td>
</tr>
<tr>
<td>Phys Med/Rehab</td>
<td>100</td>
<td>8</td>
</tr>
<tr>
<td>Radiology Nuclear Medicine</td>
<td>37</td>
<td>10</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>294</td>
<td>12</td>
</tr>
<tr>
<td>Obstetrics-Gynecology</td>
<td>298</td>
<td>13</td>
</tr>
<tr>
<td>Radiology Diagnostic</td>
<td>197</td>
<td>13</td>
</tr>
<tr>
<td>Otolaryngology</td>
<td>129</td>
<td>15</td>
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<tr>
<td>Emergency Medicine</td>
<td>279</td>
<td>15</td>
</tr>
<tr>
<td>Neurology</td>
<td>174</td>
<td>16</td>
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</table>

<table>
<thead>
<tr>
<th>Program name</th>
<th>No. of Programs in the US</th>
<th>2022 Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Medicine</td>
<td>599</td>
<td>18</td>
</tr>
<tr>
<td>Anesthesiology</td>
<td>166</td>
<td>21</td>
</tr>
<tr>
<td>Radiology Diagnostic</td>
<td>197</td>
<td>22</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>125</td>
<td>23</td>
</tr>
<tr>
<td>Surgery</td>
<td>352</td>
<td>26</td>
</tr>
<tr>
<td>Neurological Surgery</td>
<td>117</td>
<td>27</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>294</td>
<td>27</td>
</tr>
<tr>
<td>Internal Medicine/Pediatrics</td>
<td>159</td>
<td>29</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>ISMMS Programs</th>
<th>Female</th>
<th>URM %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022</td>
<td>ISMMS Programs</td>
<td>52%</td>
<td>16%</td>
</tr>
<tr>
<td></td>
<td>National Average</td>
<td>42%</td>
<td>11%</td>
</tr>
</tbody>
</table>
We Stand in Solidarity Against Racism.
And We Are Committed to Equity in Health Care.
## Advanced the Collective Impact Model
**Developed Anti-Racism Learning for Leaders**

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Unify and integrate clinical practices</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Health System ambulatory practices, including cancer and cardiac care services and the transplant program, beginning to unify and ensure equitable access and treatment for all patients regardless of insurance status</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Forge new and leverage existing partnerships and networks within Mount Sinai to accelerate anti-racism and equity efforts</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Recommendations proposed by Committee to Address Anti-Asian Bias and Racism integrated with Road Map strategies</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Build connection and community within the Health System to adopt a racial equity culture</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The Chats for Change program expanded nationally on a monthly basis</td>
<td></td>
</tr>
<tr>
<td>• New policy to support employees who experience racist behavior from patients</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Increase recruitment, hiring, and retention of Black and other underrepresented minority staff and faculty at all levels of leadership</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Updating all Health System job descriptions and HR policies with an anti-racist and equity lens</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Promote equity in mentorship</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Advanced the Black Executive Acceleration Program, a pilot aimed at supporting Black staff at the director and senior director level who are interested in advancing their careers.</td>
<td></td>
</tr>
<tr>
<td>• The Road Map Team and the Mentoring Steering Committee have catalogued all the Health System’s mentorship programs to ensure that they have a solid foundation in equity</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Enhance leadership learning, capacity, knowledge, engagement, and accountability, enabling all leaders to participate in anti-racism efforts, and provide anti-racism education and resources throughout the Health System</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Reviewing current models of leadership and developing a new leadership model framework that includes anti-racism for all leaders</td>
<td></td>
</tr>
<tr>
<td>• Road Map strategy leaders developed detailed Learning and Implementation of Journey plans</td>
<td></td>
</tr>
<tr>
<td>• Road Map site leaders met for anti-racism learning enrichment session.</td>
<td></td>
</tr>
</tbody>
</table>
Mount Sinai was nationally recognized by the AHA Institute for Diversity and Health Equity as the winner of the 2022 Carolyn Boone Lewis Equity of Care Award, noting the Road Map for Action and work in the community to address inequities; award received in July 2022

Two Mount Sinai Diversity Councils and two Health System Employee Resource Groups won national leadership awards in September 2022 for their work in DEI:

- MS Downtown—Top 10 Diversity Action Award (Ranked No. 1)
- MS Heart—Top 10 Enterprise ERG Award (Ranked No. 2)
- Heritage of Latinx Alliance (HOLA) ERG and Asian Resource Network (ARN) ERG—Top 25 ERG Award (Ranked Nos. 16 and 22, respectively)

Mount Sinai was nationally recognized by DiversityInc on their 2022 “Top Hospitals and Health Systems” List for efforts in diversity management, ranking No. 5 out of 16.
The Mount Sinai-Royalty Pharma Alliance for Health Equity Research

- $20 million from Royalty Pharma to support ongoing efforts to close the health care disparity gap

Studying the impact of segregated health care on processes and outcomes of care

- NIH grant
- Measuring outcomes change due to Mount Sinai’s efforts to unify practices.

Dr. Horowitz leading the Health Equity and Community Engagement Steering Committee of NIH’s $1.5 billion program to understand and address sequelae of COVID-19.
Center for Advancement of Asian Equity and Professional Development

- **Established to address disparities** that lead to underrepresentation of Asians in leadership roles in medicine

- **Based on recommendations** by the Committee to Address Anti-Asian Bias and Racism
  - Amanda J. Rhee, MD, MS, Director

- **Four areas of focus:**
  - Professional Advancement
  - Education
  - Research
  - Safety

- **Partners and collaborators include:**
  - The Asian Pacific Medical Students Association
  - The Asian Resource Network
  - The South Asian Medical Students’ Association
# Accelerating Innovation and Entrepreneurship: Mount Sinai Innovation Partners (MSIP)

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
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<tbody>
<tr>
<td>Faculty Engagements</td>
<td>830</td>
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<tr>
<td>Research Contracts</td>
<td>287</td>
</tr>
<tr>
<td>Licenses and Options</td>
<td>60</td>
</tr>
<tr>
<td>New Patent Applications</td>
<td>370</td>
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<tr>
<td>Material Transfer Agreements</td>
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<tr>
<td>Technology Disclosures</td>
<td>160</td>
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<tr>
<td>Confidentiality Disclosures</td>
<td>356</td>
</tr>
<tr>
<td>i3 Prism</td>
<td></td>
</tr>
</tbody>
</table>

**Research Contracts**

- Providing $34.7M in funding

**i3 Prism**

- Launched an early-stage funding opportunity for female and Black, Indigenous and people of color (BIPOC) health care innovators at Mount Sinai

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*Icahn School of Medicine at Mount Sinai | School Update | January 2023*
Notable Commercial Achievements

- Launched a clinical-stage vaccine research and development company for the commercial development of the Newcastle disease virus (NDV) vaccine platform technology.
- Executed option and joint development agreements to advance compounds for the potential treatment of cancer.
- Executed a license agreement and an extensive collaboration to create a new company focused on new cancer therapies.
- Executed a license agreement to advance potential therapeutics for the treatment of kidney and fibrotic diseases.
- Executed 11 research tool licenses in various fields of use for further advancement.

Tangible Properties
Patient Receipt Growth

- **2019**: $1,086,444,000
- **2021**: $1,155,474,000
- **2022**: $1,215,513,000

**Increase:** +11.9%

Ambulatory Volume

- **2021**: 5,030,272
- **2022**: 5,215,279

**Increase:** +3.7%
MyMountSinai
- 1.3M active users (30% increase year over year)
- 25K activations per month

Central Billing Office Accomplishments
- Record charges and cash collection YTD
  - Current YTD 2022 Charges $3B (3.5% Increase over 2021)
  - Current YTD 2022 Case Collections $695M (10.2% increase over 2021)

Digital Bookings
- 16% of all appointments are booked digitally, up from 4% in 2019
Institutional Advancement: MSHS “Limitless” Capital Campaign Public Phase

Press Release

Mount Sinai Health System Launches Bold $2 Billion Capital Campaign

“Limitless” Campaign has raised $1 billion ahead of schedule for critical clinicals and research institutes in the wake of pandemic

- $20M from Royalty Pharma to establish the Mount Sinai-Royalty Pharma Alliance for Health Equity Research
- $22M from James and Marilyn Simons and the Simons Foundation to support lung cancer research at the Tisch Cancer Center
- $12.5M from MSHS Trustee Eric and Stacey Mindich to advance children’s health research

 raised to date (as of 12/31/22)

$2.0B

2017 – 2025

$1.57B

(79% of goal)

Raised in 2022

$213.3M

First Comprehensive Capital Campaign for Health System

2017 – 2025

Public Phase

2017 – 2020

Nucleus Phase

$2.0B Goal
### Showcasing the School’s Reputation for Research and Academic Excellence

<table>
<thead>
<tr>
<th>Science JOURNALS MAAS</th>
<th>nature</th>
<th>The NEW ENGLAND JOURNAL of MEDICINE</th>
<th>JAMA</th>
<th>HealthAffairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Print and digital copies sent to all subscribers</td>
<td>• “Mount Sinai Million” October, 2022 3-page insert</td>
<td>• Advertorial campaign Five monthly issues Cancer focus</td>
<td>• Advertorial campaign Six monthly inserts Prime placement</td>
<td>• Five editorials throughout 2023 580,000 monthly readers Website banner ads</td>
</tr>
</tbody>
</table>

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Icahn School of Medicine at Mount Sinai | School Update | January 2023
# What’s on the Horizon: Education and Training

## Medical Education

**David Muller, MD**  
Dean, Medical Education

- Completion of curricular redesign for launch in 2024
- Expanding research opportunities for our students
- Continuing national leadership role in addressing racism and bias
- Investing in academic and career support resources

## Graduate Education

**Marta Filizola, PhD**  
Dean, Graduate School of Biomedical Sciences

- Recruit top-tier faculty to develop new programs and expand graduate offerings
- Build on partnerships with technical institutions to expand our training in AI
- Assess the curriculum to ensure alignment with career success
- Expand diversity and inclusion initiatives

## Residency Program

**Michael Leitman, MD, FACS**  
Dean, Graduate Medical Education and DIO

- Three new fellowship programs under development:
  - Healthcare Administration Leadership and Management
  - Neurocritical Care
  - Medical Microbiology
What’s on the Horizon: Research

• **The Mount Sinai Million Health Discovery Program:** Sequence a million Mount Sinai patients’ genomes in five years with the goal of translating genomic sequences into routine clinical care.

• **AI/Machine Learning:** Placing all of Mount Sinai’s clinical data into one portal—the Mount Sinai Data Warehouse—which will include all EHR information, brain/body scans and images, genomic information, and more, allowing unprecedented ability to mine these data for clinical insights.

• **Clinical Trials:** Aiming to triple the number of clinical trials we undertake at Mount Sinai over the next 2-3 years across departments and specialties.

• **Pioneer the next generation of RNA and DNA therapies**
  - New nanoparticle formulations to deliver RNAs and CRISPRs to specific organs to treat disease
  - Using RNA analogs and drug cocktails to create a cancer vaccine from a patient’s tumors

• **Developing specially modified cells** that can turn on the immune system against tumors.

Eric Nestler, MD, PhD
Dean for Academic Affairs
Chief Scientific Officer
What’s on the Horizon: Ambulatory Practice

• **Advance ease of our digital tools** and virtual care platforms while continuing to enhance our onsite experience.

• **Enhance operational efficiencies** to better optimize resources and improve staff and patient experience.

• **Further develop innovative approaches to growth including**
  - External partnerships
  - Direct to employer opportunities
  - New market disruptors to further increase MSHS presence in the community

Kelly Cassano, DO
Chief Executive Officer, Mount Sinai Doctors
Faculty Practice
Dean for Clinical Affairs
Senior Vice President for Ambulatory Operations,
Mount Sinai Health System
Expanding Our Presence in Neighborhoods Where Our Patients Live and Work

158 West 124th Street
2875 Broadway
432 West 58th Street
373 Park Avenue
104 Delancey Street

55 East 34th Street (Expansion)
632 Broadway
242 West 53rd Street
55 Wythe Avenue
Growth Needs New Space

787 Eleventh Avenue
Opening Summer 2023
- Clinical, ASC, and Research
  Wet Labs
- Misc. Departments

45 Rivington Street
- Opening February 2023
- Inpatient and Outpatient Psychiatry
- Behavioral Health

2875 Broadway
- Opening Fall 2023
- Clinical and Clinical Research
- Misc. Departments, Psychiatry

230 Second Avenue
- Opening Winter 2023
- Administration
- NYEE

1115 Broadway
- Opening Winter 2023
- Clinical and Einhorn Lab
- NYEE

3 East 101st Street
Opening Fall 2023
- Admin, Dry
  Lab/Computational space
- Rehab, ED, BMEII, AI, and Genetics

380 Second Avenue
- Opening Winter 2023
- Clinical and Buxton Lab
- NYEE

525 West 57th Street
- Opening Winter 2023
- Clinical/Clinical Research, Wet Labs
- Neuroscience, Neurology, DermPath