

ICAHN SCHOOL OF MEDICINE
AT MOUNT SINAI

Commencement
2019

THURSDAY, MAY 9, 2019



Icahn School
of Medicine at
**Mount
Sinai**

This program is also available in Spanish and Mandarin.
Please see an usher in the back of the room.

Este programa también se encuentra disponible en español.
Por favor, observe al acomodador en el fondo de la sala.

也提供中文版课程。助教在教室后方。

ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI

COMMENCEMENT EXERCISES

THURSDAY, MAY 9, 2019

**DAVID GEFFEN HALL
LINCOLN CENTER
NEW YORK CITY**

Commencement Program

PROCESSIONAL **Opus 5 Brass Quintet**

ACADEMIC PROCESSION

Grand Marshal

TONIA KIM, MD

Associate Professor, Samuel Bronfman Department of Medicine
Icahn School of Medicine at Mount Sinai

Procession Marshals

SHASHI K. ANAND, MEd

Assistant Dean of Curricular and Student Affairs
Department of Medical Education
Icahn School of Medicine at Mount Sinai

ANDREW EFROS

Owner

Posman Books @ Mount Sinai

STACI LEISMAN, MD

Assistant Professor, Samuel Bronfman Department of Medicine
and Department of Medical Education
Icahn School of Medicine at Mount Sinai

HERB LOPEZ

Program Manager, Master of Science in Health Care Delivery Leadership
Graduate School of Biomedical Sciences
Icahn School of Medicine at Mount Sinai

ROLAND PINZON

Program Manager, Master of Science in Biomedical Informatics
Graduate School of Biomedical Sciences
Icahn School of Medicine at Mount Sinai

ELLIE SCHMELZER, PhD

Director, Office of Career Services & Strategy
Graduate School of Biomedical Sciences
Icahn School of Medicine at Mount Sinai

RANDI D. SCHWARTZ, MBA

Associate Dean,
Graduate School of Biomedical Sciences
Icahn School of Medicine at Mount Sinai

RAINIER P. SORIANO, MD
Co-Director of Curriculum and Director of Educational Technology
Associate Professor, Department of Medical Education and Brookdale Department
of Geriatrics and Palliative Medicine
Icahn School of Medicine at Mount Sinai

JOSEPH TRUGLIO, MD, MPH
Assistant Professor, Samuel Bronfman Department of Medicine,
Jack and Lucy Clark Department of Pediatrics and Department of Medical Education
Icahn School of Medicine at Mount Sinai

ORDER OF PROCESSION

Candidates for Degrees

Platform Party

Faculty

Guests Are Asked To Remain Seated During The Processional.

PRESIDING

DENNIS S. CHARNEY, MD
Anne and Joel Ehrenkranz Dean,
Icahn School of Medicine at Mount Sinai
President for Academic Affairs,
Mount Sinai Health System

GREETINGS

KENNETH L. DAVIS, MD, ISMMS '73
President and Chief Executive Officer,
Mount Sinai Health System

RICHARD A. FRIEDMAN
Co-Chairman, Boards of Trustees
Mount Sinai Health System

COMMENCEMENT ADDRESS

SCOTT GOTTLIEB, MD, ISMMS '99
23rd Commissioner of the U.S. Food and Drug Administration

Awarding of Honorary Degrees

DOCTOR OF HUMANE LETTERS

CURTIS MARTIN
NFL Hall of Fame

Citation by

YASMIN HURD, PhD

Director, Addiction Institute of Mount Sinai (AIMS), Behavioral Health Systems
Ward-Coleman Chair of Translational Neuroscience
Professor, Department of Psychiatry, Nash Family Department of Neuroscience
and Department of Pharmacological Sciences
Icahn School of Medicine at Mount Sinai

Curtis Martin, one of the greatest football running backs of all time. You are a businessman, role model, nonprofit leader, and celebrated, record-breaking athlete who has dedicated your boundless energy equally to your dual careers as a NFL dynamo and change-making philanthropist.

Born in Pittsburgh, Pennsylvania, you grew up amid adverse circumstances that ultimately inspired your lifelong commitment to giving back to your community. You began your career in the National Football League with the New England Patriots, immediately making an impact on the league by earning the esteemed honor of Offensive Rookie of the Year in 1995.

You played with the Patriots for three years before joining the New York Jets for the remainder of your outstanding 12-year career, serving as a reliable, consistent workhorse who made five Pro Bowl appearances and was one of only two players to rush for more than 1,000 yards in your first ten years. Later in your athletic career, you also became the oldest player to win a rushing title, at the age of 31, and retired as the fourth leading NFL rusher of all time. In recognition of your many on-the-field accomplishments, you were inducted into the Professional Football Hall of Fame in 2012.

For all of your athletic talent, you are most recognized for your off-the-field accomplishments. Using football as your way to connect with others, you worked to better your community with the same driven intensity that you played with throughout your football career. You founded the Curtis Martin Job Foundation, a non-profit organization for which you are sole financial supporter, by investing 12 to 15 percent of every paycheck you received during your NFL career and now 20 percent of your income to fund the foundation's endeavors.

Through your foundation, you provide both financial and hands-on support to single mothers, children's charities, individuals with disabilities, and low-income housing providers, among other causes. The foundation has also funded Surgicorps International, a team of surgeons that performs medical procedures to individuals in developing countries free of charge; partnered with the Bloomberg administration to decrease homelessness in New York City; and funded scholarships for disadvantaged children.

Your commitment to helping athletes (and the general weekend warrior) suffering from chronic pain has led to your working with Mount Sinai to develop a path towards a safe, non-addictive, non-opioid FDA pain medication.

You are also the owner and co-owner of several businesses in the New York Metro area where you reside with your wife and two daughters and are currently pursuing ownership within the NFL.

Curtis Martin, you always give your best, and you are a role model to many New Yorkers. For your commitment to leveraging your work ethic and natural ability to benefit the lives of others in your community, and for inspiring others to do the same, it is my privilege to confer upon you the degree of Doctor of Humane Letters, *Honoris Causa*.

Awarding of Honorary Degrees

DOCTOR OF SCIENCE

SCOTT GOTTLIEB, MD, ISMMS '99
23rd Commissioner of the U.S. Food and Drug Administration

Citation by

KENNETH L. DAVIS, MD, ISMMS '73
President and Chief Executive Officer,
Mount Sinai Health System

Doctor Scott Gottlieb. You are a physician, medical policy expert, and public health advocate who has worked tirelessly to improve the health and wellbeing of your fellow Americans and to remove barriers to progress and innovation. During your two-year tenure as the nation's 23rd Commissioner of Food and Drugs (FDA), you created an unprecedented level of transparency and public disclosure about the agency that garnered support across the health care industry. You approved a record number of treatments and drugs and advanced policies to mitigate a range of health conditions, focusing, in particular, on confronting opioid addiction and preventing youth e-cigarette use. You have been especially successful in curbing youth e-cigarette use, targeting convenience stores that sell vaping products and limiting the access and appeal these products have for children across the country.

Prior to your 2017 appointment as FDA Commissioner, you served as the FDA's Deputy Commissioner for Medical and Scientific Affairs, and, before that, as a senior advisor to the FDA Commissioner. Earlier, as a senior advisor to the Administrator of the Centers for Medicare and Medicaid Services, you worked on implementation of the Medicare drug benefit, where your policy work focused on quality improvement and the agency's coverage process, particularly as it related to new medical technologies.

In 2013, you were appointed by the Senate to serve on the Federal Health Information Technology Policy Committee, which advises the Department of Health and Human Services on healthcare information technology. You were previously a Resident Fellow at the American Enterprise Institute and a Clinical Assistant Professor at the New York University School of Medicine, where you also practiced medicine as a hospitalist physician.

You completed your residency in internal medicine here at the Mount Sinai Medical Center in New York, New York and you are a proud graduate of the Icahn School of Medicine at Mount Sinai. You earned your undergraduate degree in Economics at Wesleyan University. You are husband and father of three girls and also a cancer survivor yourself.

You are the recipient of many awards and honors, including election as a member to the National Academy of Medicine in 2018 and the American Medical Association's Nathan Davis Award for Outstanding Government Service in 2019. You have been highlighted for your transparency and leadership by national media, including Time Magazine, Politico, and Fortune Magazine, as one of the most influential trailblazers in U.S. health care transformation.

Doctor Scott Gottlieb, for your unwavering commitment improving the health of our nation, for your intrepid and visionary leadership on critical health challenges of our time, and for your resolve to grounding our nation's health care policies in scientific evidence and striking balance within a powerful agency of our government, it is a privilege to confer upon you the degree of Doctor of Science, *Honoris Causa*.

Awarding of Honorary Degrees

DOCTOR OF SCIENCE

HELEN H. HOBBS, MD

Investigator, Howard Hughes Medical Institute
Professor, Departments of Internal Medicine and Molecular Genetics
University of Texas Southern Medical Center at Dallas

Citation by

VALENTIN FUSTER, MD, PhD

Physician-in-Chief, Mount Sinai Hospital
Director, Mount Sinai Heart

Doctor Helen H. Hobbs. You began your career as a physician, but chose to shift your focus toward scientific research—a choice that has made a profound impact on the lives of many and that has garnered national recognition for your research into the genetic determinants of cardiovascular disease and fatty liver disease.

You are an Investigator of the Howard Hughes Medical Institute since 2002 and a Professor of Internal Medicine and Molecular Genetics at the University of Texas Southwestern (UTSW) Medical Center, where you direct the prolific Hobbs-Cohen Lab in the Eugene McDermott Center for Human Growth and Development (which serves as the Center for Human Genetics) with your co-principal investigator Jonathan Cohen, PhD. In addition, you serve as Chief of the Division of Medical Genetics. You are also Director of the Dallas Heart Study, a longitudinal, multiethnic, population-based study of Dallas County that is examining the biological and social foundations for the widening ethnic gap in cardiovascular disease.

After obtaining your undergraduate degree from Stanford University, you attended Case Western Reserve University School of Medicine. You completed an internship in internal medicine at Columbia-Presbyterian Medical Center and then moved to Dallas, Texas, where you finished your clinical training and served as chief resident in internal medicine at Parkland Memorial Hospital. You began your scientific career working as a postdoctoral fellow in molecular genetics and endocrinology before joining the faculty of UT Southwestern in 1987.

Your research is focused on defining the genetic determinants of plasma lipid levels and cardiovascular risk. Most recently, you identified genetic variations that confer susceptibility to fatty liver disease. Your investigations into the identification of defective genes in patients with premature coronary artery disease, and of genetic differences that contribute to protection from heart disease, are widely acknowledged and you were elected to the National Academy of Medicine in 2004 and the National Academy of Sciences in 2007. One of your discoveries led to the development of a new, highly effective therapy from the reduction of blood cholesterol levels. Your work has been recognized with many awards and honors, including the Breakthrough Prize in 2016 and the Harrington Prize for Innovation in Medicine in 2018.

Doctor Helen H. Hobbs, you are a superb physician-scientist at the forefront of your field and have made an indelible impact on research into the etiology, prevention, and treatment of numerous diseases that greatly impact human health globally. You have dedicated your career to translating scientific inquiry and knowledge to answer real questions for patients and the physicians treating them, closing the gap between geneticists and clinicians. It is a privilege to confer upon you the degree of Doctor of Science, *Honoris Causa*.

Awarding of Honorary Degrees

DOCTOR OF SCIENCE

C. REYNOLD VERRET, PhD
President, Xavier University of Louisiana

Citation by

GARY C. BUTTS, MD
Chief Diversity and Inclusion Officer
Director, Office for Diversity and Inclusion
Mount Sinai Health System
Dean, Diversity Programs, Policy and Community Affairs
Professor, Department of Medical Education, Jack and Lucy Clark Department of
Pediatrics and Environmental Medicine and Public Health
Director, Center for Multicultural and Community Affairs
Icahn School of Medicine at Mount Sinai

Doctor C. Reynold Verret. You are a celebrated educational leader, scientist, and teacher whose work has shaped the course of higher education of many, and, in particular, the path forward for the next generation of STEM K-12 teachers of color. Your work has and continues to enrich student achievement and progression to degree, increasing the number of US students who are pursuing degrees in STEM disciplines and continuing to advanced their studies in the STEM fields. Your efforts to develop such programs and initiatives at US universities are helping to mitigate the shortage of qualified science and math teachers in K-12.

In 2016, you were unanimously elected university president by Xavier University of Louisiana's Board of Trustees. Since then, you have led the university toward your vision for the future: for Xavier to be a globally recognized University that celebrates diversity, fosters an intellectual environment of academic excellence, honors the legacy of Xavier as a historically black, Catholic University, and educates future leaders to build a just and humane society. To that end, you have created initiatives to build enrollment, enhance the quality and diversity of academic programs, and to create cooperative relationships with neighboring institutions and with international partners. Your background in the sciences makes you particularly suited to Xavier, where you have developed programs to prepare STEM teachers, secured tuition support for teacher certification in STEM fields, and bolstered joint instructional and research programs.

Prior to your appointment as president, you served as provost and chief administrative officer at Savannah State, Georgia's first public historically black university. In addition to your role at Savannah State, you served as provost at Wilkes University in Northern Pennsylvania and as dean of the Misher College of Arts and Sciences at the University of the Sciences in Philadelphia. You also served on faculty at Tulane University and at Clark Atlanta University, where you served as the chair of the chemistry department and helped allocate close to \$10 million in grant funding.

After immigrating from Haiti in 1963, you went on to complete your undergraduate degree with honors from Columbia University, a doctorate in biochemistry from the Massachusetts Institute of Technology (MIT), and postdoctoral fellowships at the Howard Hughes Institute for Immunology at Yale University and at the Center for Cancer Research at MIT. As a scientist, your research interests have included the cytotoxicity of immune cells, biosensors, and biomarkers and has led to publications in the fields of biological chemistry and immunology.

You are the recipient of many awards, honors, and fellowships for teaching, research, and scholarship, and have served on many professional organizations and advisory bodies, including those of the National Institutes of Health, the Board of the Pennsylvania Humanities Council, and the Georgia Coastal Indicators Coalition.

Doctor C. Reynold Verret, your prolific and inspiring career has been admired and honored around the world, and has made an impact on the aspirations and achievements of many students, scientists, and educational leaders, it is a privilege to confer upon you the degree of Doctor of Science, *Honoris Causa*.

Awarding of Degrees

PhD STUDENT SPEAKER

JAMES EDWARD DUEHR

OATH FOR DOCTORAL CANDIDATES

GEORGE W. HUNTLEY, PhD

Professor, Nash Family Department of Neuroscience
Director, Neuroscience Graduate Training Program
Ombuds, Graduate School of Biomedical Sciences
Icahn School of Medicine at Mount Sinai

PRESENTATION OF DEGREE CANDIDATES

MARTA FILIZOLA, PhD

Dean, Graduate School of Biomedical Sciences
Sharon & Frederick A. Klingenstein-Nathan G. Kase, MD Professor
Department of Pharmacological Sciences
Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

HOODING OF DEGREE CANDIDATES

Doctor of Philosophy in Biomedical Sciences and Neuroscience

MATTHEW J. O'CONNELL, PhD

Senior Associate Dean for Curriculum, Recruitment and Admissions
Graduate School of Biomedical Sciences
Professor, Department of Oncological Sciences
Icahn School of Medicine at Mount Sinai

Doctor of Philosophy in Clinical Research

JANICE L. GABRILOVE, MD, FACP

Director, Clinical Research Education Programs
(CRTP, Master of Science in Clinical Research, and PhD in Clinical Research),
Co-Director, KL2 Scholars & PORTAL (MD/MSCR) Programs
Graduate School of Biomedical Sciences
The James F. Holland Professor of Medicine and Oncological Sciences,
Associate Director, Education and Training
The Tisch Cancer Institute
Icahn School of Medicine at Mount Sinai

Doctor of Philosophy

DISSERTATION ADVISORS

MD STUDENT SPEAKER

CATHERINE CRAWFORD

OATH FOR MEDICAL DEGREE CANDIDATES

LESLIE DUBIN KERR, MD

Professor, Samuel Bronfman Department of Medicine and Brookdale Department of Geriatrics and Palliative Medicine
Icahn School of Medicine at Mount Sinai

PRESENTATION OF DEGREE CANDIDATES

DAVID MULLER, MD, FACP

Dean for Medical Education
Marietta and Charles C. Morchand Chair
Department of Medical Education
Icahn School of Medicine at Mount Sinai

HOODING OF DEGREE CANDIDATES

Doctor of Medicine

PETER GLIATTO, MD

Senior Associate Dean for Undergraduate Medical Education and Student Affairs
Professor, Department of Medical Education, Samuel Bronfman Department of Medicine and Brookdale Department of Geriatrics and Palliative Medicine
Icahn School of Medicine at Mount Sinai

REENA KARANI, MD, MHPE

Director, Institute for Medical Education
Senior Associate Dean for Undergraduate Medical Education and Curricular Affairs
Professor, Department of Medical Education, Samuel Bronfman Department of Medicine and Brookdale Department of Geriatrics and Palliative Medicine
Icahn School of Medicine at Mount Sinai

Dual Degree: Doctor of Medicine and Doctor of Philosophy (MD/PhD)

MARGARET H. BARON, MD, PhD

Senior Associate Dean for MD/PhD Education
Director, Medical Scientist (MD/PhD) Training Program
Irene and Dr. Arthur M. Fishberg Professor, Samuel Bronfman Department of Medicine, Oncological Sciences, Cell, Developmental and Regenerative Biology
The Tisch Cancer Institute
Icahn School of Medicine at Mount Sinai

Awarding of Degrees

Dual Degree: Doctor of Medicine and Master of Public Health (MD/MPH)

NILS HENNIG, MD, PhD, MPH

Director, Graduate Program in Public Health

Associate Professor, Department of Environmental Medicine and Public Health and

Jack and Lucy Clark Department of Pediatrics

Icahn School of Medicine at Mount Sinai

Dual Degree: Doctor of Medicine and Master of Science in Clinical Research (MD/MSCR)

JANICE L. GABRILOVE, MD, FACP

Director, Clinical Research Education Program

(CRTP, Master of Science in Clinical Research, and PhD in Clinical Research),

Co-Director, KL2 Scholars & PORTAL (MD/MSCR) Programs

Graduate School of Biomedical Sciences

The James F. Holland Professor of Medicine and Oncological Sciences,

Associate Director, Education and Training

The Tisch Cancer Institute

Icahn School of Medicine at Mount Sinai

AWARDING OF DIPLOMAS

DENNIS S. CHARNEY, MD

Anne and Joel Ehrenkranz Dean,

Icahn School of Medicine at Mount Sinai

President for Academic Affairs,

Mount Sinai Health System

Assisted by

GARY C. BUTTS, MD

Chief Diversity and Inclusion Officer,

Director, Office for Diversity and Inclusion

Mount Sinai Health System

Dean, Diversity Programs, Policy and Community Affairs

Professor, Department of Medical Education, Jack and Lucy Clark Department of

Pediatrics and Environmental Medicine and Public Health

Director, Center for Multicultural and Community Affairs

Icahn School of Medicine at Mount Sinai

VALERIE PARKAS, MD

Senior Associate Dean of Admissions and Recruitment

Associate Professor, Samuel Bronfman Department of Medicine

Icahn School of Medicine at Mount Sinai

RECESSIONAL

Guests Are Asked to Remain Seated Until the Recessional is Complete.

Candidates for Degrees

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

COURTNEY ACKEIFI
Combinatorial Approaches to Regenerate
Human Pancreatic β -cells for the Treatment
of Diabetes

MARCUS ALEXANDER BADGELEY
Multimodal Deep Learning to Enhance the
Practice of Radiology

ANA BADIMON
Region-Specific Microglial Modulation
of Neuronal Activity

PURVA BALI
MicroRNAs and Cocaine Addiction:
Role in Modulating Striatal TNF Signaling

EVAN BARDOT
Specification of Cardiac Lineages During
Early Mammalian Heart Development

ANNE MARIE BARRETTE
New Avenues in GBM Therapy –
Exploring Drug Combinations with
Computational Models and an Investigational
Drug Targeting Tumor Cell Migration

NICOLAS BARTHELERY
Cerebellum Development:
Lessons from p53

GRANT BEYLEVELD
Identification of Influeza A Virus-Host
Interactions through Integrated "OMICs"
Approaches

STEPHEN PHILLIP BOHLMAN**
The Role of CDK4 and MDM2 Amplification
in Tumorigenesis

Dissertation Advisors

LAKSHMI A. DEVI, PhD
Department of Pharmacological Sciences
Icahn School of Medicine at Mount Sinai

JOEL DUDLEY, PhD
Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai
THOMAS SNYDER
Verily Life Sciences

ANNE SCHAEFER, MD, PhD
Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

PAUL J. KENNY, PhD
Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

NICOLE C. DUBOIS, PhD
Department of Cell, Developmental
and Regenerative Biology
Icahn School of Medicine at Mount Sinai

NADEJDA TSANKOVA, MD, PhD
& MARC BIRTWISTLE, PHD
Lillian and Henry M. Stratton-Hans Popper
Department of Pathology, Molecular and
Cell-Based Medicine
Icahn School of Medicine at Mount Sinai

JAMES J. MANFREDI, PhD
Department of Cell, Developmental
and Regenerative Biology
Icahn School of Medicine at Mount Sinai

MEGAN L. SHAW, PhD
Department of Microbiology
Icahn School of Medicine at Mount Sinai

JAMES J. MANFREDI, PhD
Department of Oncological Sciences
Icahn School of Medicine at Mount Sinai

Candidates for Degrees

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

Dissertation Advisors

ANDREW BROWNE

Using Induced Pluripotent Stem Cells Derived from Patient Blood Samples for Transcriptional Modeling and the Evaluation of IGF-1 Treatment in Phelan-Mcdermid Syndrome

JOSEPH BUXBAUM, PhD

Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

KAMILAH CASTRO

Body Mass Index in Multiple Sclerosis Modulates Ceramide-Induced DNA Methylation and Disease Course

PATRIZIA CASACCIA, MD, PhD

Nash Family Department of Neuroscience and Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

KIERAN CHACKO

Mapping Mechanisms of Emerging Antibiotic Resistance Using Hospital-Wide Pathogen Surveillance and Whole-Genome Analysis

HARM VAN BAKEL, PhD

Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

XINTONG CHEN

Surveys of Genomic and Transcriptional Landscapes with Sequencing Technology

ALI BASHIR, PhD

Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

AMANDA JEAN CRAIG

Molecular Heterogeneity and Drivers of Tumor Evolution in Liver Cancer

AUGUSTO VILLANUEVA

RODRIGUEZ, MD, PhD

Samuel Bronfman Department of Medicine
Icahn School of Medicine at Mount Sinai

SARAH DEMOYA

Cognitive Aging and Working Memory: The Effects Of Synaptic Health

JOHN H. MORRISON, PhD

Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

FIONA ASHLEY DESLAND**

CSF-1R Signaling in the Regulation of Microglia in Homeostasis and Disease

MIRIAM MERAD, MD, PhD

Department of Oncological Sciences
Icahn School of Medicine at Mount Sinai

ERIN H. DOYLE

Understanding the Impact of Hepatitis C Virus Infection and Cure on the Human Liver Immune System

ANDREA BRANCH, PhD

Samuel Bronfman Department of Medicine
Icahn School of Medicine at Mount Sinai

JAMES EDWARD DUEHR

Antibody-Mediated Enhancement and Neutralization in the Context of Emerging Flavi- and Hantaviruses

FLORIAN KRAMMER, PhD

Department of Microbiology
Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

JULIE EGGENBERGER

Characterizing the Relationship Between
Pluripotency and Innate Immunity

BENJAMIN ELY

Function and Anatomy of the Human
Habenula Circuit

ERIN FLAHERTY

Aberrant NRXN1 α Splicing Arising from
2p16.3 Heterozygous Deletions Impacts
Neuronal Function

MEGHAN FLANIGAN

Orexin Inputs To GABAergic Lateral Habenula
Neurons Control Aggression Valence

NANCY J. FRANCOEUR

Exploring the Role of Long Non-coding
RNAs and cis-regulatory Elements in
Psychiatric Disease

SHIH-CHEN FU

An Ensemble Algorithm for Bacterial
Identification from Metagenomic Data

BENJAMIN O. FULTON

Defining the Mutational Tolerance of the
Antigenic Domains of Influenza, Measles,
and Zika Viruses

CARLA GOLDEN

Attention, Transcription, and Neuroanatomy
in a Rat Model of Fragile X Syndrome

Dissertation Advisors

BENJAMIN TENOEVER, PhD

Department of Microbiology
Icahn School of Medicine at Mount Sinai

XU JUNQIAN, PhD & EMILY STERN, PhD

Department of Psychiatry
Icahn School of Medicine at Mount Sinai

KRISTEN BRENNAND, PhD

Nash Family Department of Neuroscience and
Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

SCOTT J. RUSSO, PhD

Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

PANAGIOTIS ROUSSOS, MD, PhD

Department of Psychiatry and Department of
Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

JOSE C. CLEMENTE-LITRAN, PhD

Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

PETER PALESE, PhD

Department of Microbiology
Icahn School of Medicine at Mount Sinai

JOSEPH BUXBAUM, PhD

& HALA HARONY-NICOLAS, PhD
Department of Psychiatry
Icahn School of Medicine at Mount Sinai

Candidates for Degrees

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

Dissertation Advisors

JINGQI GONG

Enhancing the Utility of Cellular Models
in Drug Development with Mathematical
Modeling and Quantitative Physiology

ERIC SOBIE, PhD

Department of Pharmacological Sciences
Icahn School of Medicine at Mount Sinai

SEOK-MAN HO

Functional Analysis of Schizophrenia-
Associated Genes Using Human Pluripotent
Stem Cell (HiPSC)-Derived Neurons

KRISTEN J. BRENNAND, PhD

Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

KIYOTAKE ISHIKAWA

Role Of Cardiac Load in Ischemic Heart Failure

ROGER HAJJAR, MD

Department of Cardiology
Icahn School of Medicine at Mount Sinai

KEVIN JHUN

Complement Controls Antiviral CD8+ Memory
and Function

DIRK HOMANN, MD

Samuel Bronfman Department of Medicine
Icahn School of Medicine at Mount Sinai

JENNIELLE JOBSON

Development of T Cells as a Gene Therapy
Delivery Vehicle

BRIAN D. BROWN, PhD

Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

YILDIZ KOCA

The Role of Notch Signaling in
Ommatidial Rotation

MAREK MLODZIK, PhD

Department of Cell, Developmental
and Regenerative Biology
Icahn School of Medicine at Mount Sinai

STACY M. KU

Microcircuit Dysfunction of Midbrain
Neurotransmission in Social Stress
and Depression

MING-HU HAN, PhD

Department of Pharmacological Sciences
Icahn School of Medicine at Mount Sinai

RAYMOND LIANG

FOXO3 Regulation of Blood Formation through
Mitochondria: Insights into Hematopoietic
Stem Cell and Erythrocyte Fate

SAGHI GHAFFARI, MD, PhD

Department of Cell, Developmental
and Regenerative Biology
Icahn School of Medicine at Mount Sinai

SEAN ROGERS LLEWELLYN**

Deciphering the Combinatorial Influence of
Diet and the Microbiota on Experimental Colitis

JEREMIAH FAITH, PhD

Samuel Bronfman Department of Medicine and
Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

PATRICK MAFFUCCI**

Next-Generation Sequencing:
Novel Computational Approaches
and New Molecular Defects in Primary
Immune Deficiencies

SUNNY MAI

LILRB3 Blockade Inhibits Acute Myeloid
Leukemia Progression

PABLO MARTIN

Prefrontal Contributions to Dynamic Learning

DOUGLAS ROSS MATHERN**

C3a Receptor is a Memory-sparing Regulator
of Primary Effector CD8+T cell Expansion
Induced by Allogeneic Heart Transplant

ANDREW THOMAS MCKENZIE**

Multiscale Modeling of Oligodendrocytes
and Myelin in Alzheimer's Disease

GRACE MINER

A Relationship between Specific Genetic
Variants and Radiologic Phenotypes of
Abdominal Aortic Aneurysm

LUCIANA MUNIZ

Matric Metalloproteinase-2 and Toll-like
Receptors Modulating Immune Responses
in the Melanoma Tumor Microenvironment

THEODORE ROBERTSON PAK**

Multiscale Analysis of Infectious Diseases:
Integrating Omics and Clinical Informatics
Data into Patient Care

Dissertation Advisors

CHARLOTTE CUNNINGHAM-RUNDLES,
PhD

Samuel Bronfman Department of Medicine
Icahn School of Medicine at Mount Sinai

SHU-HSIA CHEN, PhD

Department of Oncological Sciences
Icahn School of Medicine at Mount Sinai

MATTHEW SHAPIRO, PhD

Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

PETER S. HEEGER, MD

Samuel Bronfman Department of Medicine
Icahn School of Medicine at Mount Sinai

BIN ZHANG, PhD

Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

PATRIZIA CASACCIA, MD, PhD

Nash Family Department of Neuroscience and
Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

MICHAEL MARIN, MD

The Ruth J. & Maxwell Hauser and Harriet &
Arthur H. Aufses, Jr., MD Department of Surgery
Icahn School of Medicine at Mount Sinai

NINA BHARDWAJ, MD, PhD

Department of Pharmacological Sciences
Icahn School of Medicine at Mount Sinai

ANDREW KASARSKIS, PhD

Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

ZULEKHA QADEER
Dissecting the Epigenetic Consequences
Of ATRX Mutations in Cancer

EFRAIN ANTONIO RIBEIRO**
The Role of Nucleus Accumbens Somatostatin
Interneurons in Cocaine Induced Plasticity

ROBERT AARON RIFKIN**
Sorting Nexin 27: A Molecular Brake on
Cocaine Addiction

NELSON A. RODRIGUEZ
Investigating the Etiology of Multifocal
Atrial Tachycardia In Costello Syndrome
Via iPSC Disease Modeling

JOSEPH SCARPA, JR.**
Using a Multiscale Systems Genetics
Approach to Identify Gene Networks
Underlying Sleep, Stress Susceptibility,
and Neuropsychiatric Disease

LAUREN SCHIFF
p38 Inhibition Reverses TGF β 1 and
TNF α -induced Contraction in a Disease
Model of Proliferative Vitreoretinopathy

RAJAL SHARMA**
Structural and Chemical Mechanisms in
Gene Regulation

JAEHEE SHIM
The Era of Precision Medicine: Patient Specific
Predictions of Targeted Cancer Therapeutics
Induced Cardiotoxicity Using Transcriptomics
based Mathematical Modeling

MILO ROBERT SMITH
Integrative Bioinformatics to Discover
Disease and Chemical Modulators of Critical
Period Neuroplasticity

Dissertation Advisors

EMILY BERNSTEIN, PhD
Department of Oncological Sciences
Icahn School of Medicine

ERIC J. NESTLER, MD, PhD
Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

PAUL A. SLESINGER, PhD
Department of Neuroscience
Icahn School of Medicine at Mount Sinai

BRUCE GELB, MD
Jack and Lucy Clark Department of Pediatrics
Icahn School of Medicine at Mount Sinai

ANDREW KASARSKIS, PhD
Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

TIMOTHY BLENKINSOP, PhD
Department of Cell, Developmental
and Regenerative Biology
Icahn School of Medicine at Mount Sinai

MING-MING ZHOU, PhD
Department of Pharmacological Sciences
Icahn School of Medicine at Mount Sinai

ERIC SOBIE, PhD
Department of Pharmacological Sciences
Icahn School of Medicine at Mount Sinai

HIROFUMI MORISHITA, MD, PhD
Department of Psychiatry, Neuroscience,
& Ophthalmology
Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

BENJAMIN STRAUSS

Gene Therapy Approaches to Prevent
Ventricular Arrhythmias in Structural Heart
Disease Secondary to Increased Afterload

JOSEFA SULLIVAN

The Role of Bromodomain Proteins in the
Developing and Adult Brain

ZHEN SUN

Transcription-Associated Histone Pruning
Demarcates macroH2A Chromatin Domains

OLIVIA TORRE

Intervetebral Disc Regeneration in
Neonatal Mice

NAVPREET TUNG

The Contribution of Cancer-Associated
Fibroblasts to T Cell Infiltration in Lung
Adenocarcinoma

ELIZABETH WEBSTER

Genomic Approaches to Investigate Origins,
Progression, and Diversity of *C. Difficile*
Infections in a Longitudinal ICU Cohort

TEDDY JOHN WOHLBOLD**

The Influenza Virus Neuraminidase
as a Vaccine Antigen and the Potential
of Neuraminidase Antibodies to
Protect Against Infection

JIA YU

Phenotype-Based Screens with
Conformation-Specific Inhibitors Reveal
p38 Gamma and Delta as Therapeutic
Targets in Hepatocellular Carcinoma

Dissertation Advisors

FADI AKAR, PhD

Samuel Bronfman Department of Medicine
Icahn School of Medicine at Mount Sinai

ANNE SCHAEFER, MD, PhD

Nash Family Department of Neuroscience
Icahn School of Medicine at Mount Sinai

EMILY BERNSTEIN, PhD

Department of Oncological Sciences
Icahn School of Medicine at Mount Sinai

JAMES IATRIDIS, PhD

& **ALICE HUANG, PHD**
Department of Orthopaedics
Icahn School of Medicine at Mount Sinai

MIRIAM MERAD, PhD

Department of Oncological Sciences
Icahn School of Medicine at Mount Sinai

HONORATUS VAN BAKEL, PhD

& **ALI BASHIR, PHD**
Department of Genetics and Genomic Sciences
Icahn School of Medicine at Mount Sinai

FLORIAN KRAMMER, PhD

Department of Microbiology
Icahn School of Medicine at Mount Sinai

ARVIN DAR, PhD

Department of Oncological Sciences
Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN CLINICAL RESEARCH

JIMMY AKRIVOS

The Role of Cumulative Biological Risk
in Mediating the Association Between
Socioeconomic Status and Cognitive
Function in the Elderly

HETANSHI NAIK

Assessing the Patient Reported Outcomes
Measurement Information System Scales
in Acute Intermittent Porphyria

Dissertation Advisors

VAHRAM HAROUTUNIAN, PhD

Department of Psychiatry
Icahn School of Medicine at Mount Sinai

ROBERT DESNICK, PhD, MD

Department of Genetics and
Genomic Sciences
Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES

ESSANNA GRAY

Adapting the Hepatitis C Virus to Overcome Species Specific Host Restrictions

Principal Investigator

MATTHEW J. EVANS, PhD

Department of Microbiology

Icahn School of Medicine at Mount Sinai

Essanna Gray joined the Graduate School of Biomedical Sciences (GSBS) at the Icahn School of Medicine at Mount Sinai (ISMMS) in 2013. She began her career at ISMMS in the Summer Undergraduate Research Program (SURP) and continued her research and training in the Microbiology multidisciplinary training area of the PhD program in Biomedical Sciences at the GSBS. Essanna was a member of the Evans lab, where her research focused on understanding why the hepatitis C virus can only efficiently infect human and chimpanzee cells. Her ultimate goal was to determine the host factors that limit infection in nonprimate animals, and evolve the virus to overcome these blocks to establish a new small animal model to study hepatitis C virus pathogenesis and develop vaccines. She was revered as not only a brilliant researcher but a mentor to her peers.

In honoring her research and academic accomplishments, the GSBS posthumously awarded the Degree of Doctor of Philosophy in Biomedical Sciences to Essanna Gray at the Memorial of Essanna Gray: Celebration of Life at Icahn School of Medicine at Mount Sinai on January 29, 2019.

Candidates for Degrees

DOCTOR OF MEDICINE

AIYA ABOUBAKR	<i>Hooded By</i>
MONICA KATHERINE AMOO-ACHAMPONG	<i>Hayam Aboubakr</i>
BRITTANY ARDITI^	<i>Kelms Amoo-Achampong</i>
ALAINA ARISTIDE	<i>David Arditi</i>
MINA AZIZ	<i>Barbara Apy</i>
CHRISTINA MARIE BECK	<i>Hiam Aziz</i>
EVA ELAINE BERLIN	<i>Peter Gliatto</i>
CAROLINE WILEY BEYER	<i>Gdaly Berlin</i>
KHAWAJA HASAN BILAL	<i>Peter Gliatto & Reena Karani</i>
STEPHEN PHILLIP BOHLMAN**	<i>Peter Gliatto & Reena Karani</i>
BENJAMIN BOODAIE	<i>Margaret Baron</i>
ADAM JEFFREY BOSSERT	<i>Noa Shoshana Nahamia</i>
ANDREW MICHAEL BREGLIO	<i>Aleta Bossert</i>
RACHEL SAMANTHA BRONHEIM	<i>Kimberly Breglio</i>
ELIZABETH E. BROWN	<i>David Bronheim</i>
MARGARET SCARLETT CARRASCO ARIAS	<i>Peter Gliatto & Reena Karani</i>
ALISON TERESA CELELLO	<i>Vivek Chellappa</i>
DEEPA CHELLAPPA	<i>Jenny Chen</i>
CONNIE CHEN	<i>Peter Gliatto & Reena Karani</i>
MARK CHEN	<i>Emily Chew</i>
EMMA YING CHEW MURPHY	<i>Peter Gliatto & Reena Karani</i>
LEELA D. CHOCKALINGAM	<i>Nitika Chopra</i>
NITIN CHOPRA	<i>Gadi Cohen</i>
NATALIE COHEN	<i>Marci Crawford</i>
CATHERINE CRAWFORD	<i>Elliot Davidson</i>
ZACHARY ADAM DAVIDSON	<i>Zaid Weldesellasi</i>
YONATHAN DEBESSAI	<i>Samuel Hunter</i>
ALEXANDRA ROSE DEMBAR	<i>John Di Capua</i>
JOHN DI CAPUA	<i>Eleni Dimopoulos</i>
CHRISTINA NEFELI DIMOPOULOS	<i>Susan Doherty</i>
ALISSE DOHERTY HANNAFORD	<i>Helene Domanski</i>
ALEXANDER P. DOMANSKI	<i>Jane Zhan</i>
RUI DONG	

DOCTOR OF MEDICINE

	<i>Hooded By</i>
CLAIRE MADELEINE EDEN	<i>Edward Eden</i>
REBECCA DISSON ELLIS	<i>Peter Gliatto & Reena Karani</i>
MEGHANA SHARVANI ESWARAPPA	<i>Eswarappa Channabasappa</i>
CHASE EVAN FEIGER	<i>Robert Feiger</i>
CLARA JOSEPHA FISCHMAN^	<i>Donald Fischman</i>
SANDRA MICHELLE BERGMAN FONG	<i>Yuman Fong</i>
MATTHEW RYAN GALLITTO	<i>Peter Gliatto & Reena Karani</i>
AMY JACQUES GARVEY	<i>Merissa Garvey Harris</i>
KELLIE GERGOUDIS^	<i>Kellie Gergoudis</i>
CLAIRE LOUISE GIBSON^	<i>Peter Gliatto, Reena Karani & Janice Gabrilove</i>
LUCY GOODSON	<i>Pax Goodson</i>
SYED FARRUKH HAIDER	<i>Gary Butts</i>
SARA TESFIT HAILE	<i>Haregu Haile</i>
STEPHANIE M. HANCHUK	<i>Hilary Hanchuk</i>
DANIEL FRANKLIN HICKS	<i>Peter Gliatto & Reena Karani</i>
DEREK HILGERS	<i>Cathie Larson</i>
BENJAMIN S. HONG	<i>Ghyboong Hong</i>
ERICKA GIANELLA JARAMILLO	<i>Peter Gliatto & Reena Karani</i>
LILLIAN JIN	<i>Joanne Jin</i>
ROBYN NICOLE JORDAN	<i>Valerie Parkas</i>
SAAD KAMAL	<i>Peter Gliatto & Reena Karani</i>
MING KANG	<i>Peter Gliatto & Reena Karani</i>
SUKHBIR KAUR	<i>Sukhjinder Singh</i>
SUSHEIAN S. KELLY^	<i>Sharon Buchanan</i>
JESSICA S. KEMPNER	<i>Thomas Kempner</i>
AAKASH HARIOM KESWANI	<i>George Simon</i>
FARRAH KHAN*	<i>Peter Gliatto, Reena Karani & Nils Hennig</i>
MURAD MUSTAFA KHAN	<i>Aftab Khan</i>
JOUNG HEON KIM	<i>Pyoungnam Kim</i>
ALANA RACHEL KORNSPUN	<i>Peter Gliatto & Reena Karani</i>
ANIRUDH KURPET KUMAR*	<i>Anu Kumar</i>
IRENE T. LEE	<i>Peter Gliatto & Reena Karani</i>
HAZEL AMELIA LEVER*	<i>John Lever</i>
ISAIAH R. LEVY	<i>Daniel Levy</i>
TRACEY LIU	<i>Teresa Chan</i>

Candidates for Degrees

DOCTOR OF MEDICINE

SEAN ROGERS LLEWELLYN**	<i>Hooded By</i>
CHRISTOPHER DANIEL LOPEZ	<i>Jeremiah Faith</i>
ZOE LUSCHER	<i>Claudia Lopez</i>
GISELLE N. LYNCH	<i>Peter Gliatto & Reena Karani</i>
PATRICK MAFFUCCI**	<i>Susan Lynch</i>
ALLISON CULLEN MAHON	<i>Jeffrey Laitman</i>
IVAN MARQUEZ	<i>Peter Gliatto & Reena Karani</i>
DOUGLAS ROSS MATHERN**	<i>Clarisa Reyes-Becerra</i>
STEPHEN JAMES MATZAT	<i>Andrew Kibert</i>
ANDREW THOMAS MCKENZIE**	<i>Peter Gliatto & Reena Karani</i>
RENA MEI	<i>Mary McKenzie</i>
JAVIER MEJÍA GABALDÓN	<i>Peter Gliatto & Reena Karani</i>
ANTHONY J MELL	<i>Jose Orlando Mejia</i>
FELIPE MOLINA BURBANO	<i>Cynthia Mell</i>
JOE-ANN MOSER	<i>Peter Gliatto & Reena Karani</i>
ALLEN NINH	<i>Yasmin Meah</i>
MARY NNENNA NWOSUOCHA	<i>Peter Gliatto & Reena Karani</i>
KIELEY LEGRAND O'CONNOR CHAPMAN	<i>Frances Nwosuocha</i>
ELIZABETH KIRBY ODOM	<i>Gwen Skloot</i>
KYU YOUNG OH	<i>Laurel FitzPatrick Odom</i>
YVONNE NNEOMA OKAKA	<i>Peter Gliatto & Reena Karani</i>
IDELISSE ORTIZ TORRES	<i>Peter Gliatto & Reena Karani</i>
THEODORE ROBERTSON PAK**	<i>Vanessa Ortiz Torres</i>
CHIEN YI MAXIMILIAN PNG	<i>Robert Pak & Sonia Jarrett</i>
LUCIA YANG QIAN	<i>Peter Gliatto & Reena Karani</i>
ASHWIN RAMASWAMY	<i>Jiang Qian</i>
MOLLY SCHILLER RATNER	<i>Ratna Revankar</i>
EFRAIN ANTONIO RIBEIRO**	<i>Laura Schiller</i>
ROBERT AARON RIFKIN**	<i>Margaret Baron</i>
JESSICA LUCIA RIZZUTO	<i>Scott Rifkin</i>
ADRIENNE I. ROSENTHAL	<i>Charles Rizzuto</i>
ALLISON CHARLESON SALK	<i>Jim Rosenthal</i>
RIANA DUTT SANYAL^	<i>Barbara Salk</i>
REBECCA ELIZABETH SATTY	<i>Rana Dutt</i>
JOSEPH SCARPA, JR.**	<i>Alexandra Satty</i>
	<i>Joseph Scarpa</i>

DOCTOR OF MEDICINE

	<i>Hooded By</i>
CHIRAG KIRIT SHAH	<i>Kirit Shah</i>
RAJAL SHARMA**	<i>Peter Gliatto, Reena Karani & Margaret Baron</i>
BONNIE SKLAR	<i>Linda Sklar</i>
DYLAN SHANE SPERLING	<i>Lori Sperling</i>
WILLIAM SU	<i>Peter Gliatto & Reena Karani</i>
JASMINE TATUM	<i>Timothy Rice</i>
DANIELLE SAMANTHA TAUBMAN	<i>Meredith Grossman</i>
JONATHAN THALER	<i>Peter Gliatto & Reena Karani</i>
RODRIGO A. TORRES	<i>Peter Gliatto & Reena Karani</i>
RISHI TRIKHA	<i>Suchitra Mohindra</i>
UGOCHUKWU NDIDIAMAKA UDOGWU	<i>Prosper Udogwu</i>
HELENA VILLALOBOS^	<i>Jose Villalobos</i>
TEDDY JOHN WOHLBOLD**	<i>Peter Palese</i>
DONG-HAN YAO	<i>Peter Gliatto & Reena Karani</i>
KELLY ZAFMAN^	<i>Nelli Zafman</i>
SARAH ALICE ZARRIN	<i>Steve Lang</i>
ANQI ZHENG	<i>Peter Gliatto & Reena Karani</i>
SELENA ZHOU	<i>Peter Gliatto & Reena Karani</i>
HASHEM EMAD ZIKRY	<i>Meredith Grossman</i>
ROBERT MICHAEL ZIMBROFF	<i>Charlene Moskovitz Zimbhoff</i>

Graduation Achievement Ceremony Awards

Harold Elster Memorial Prize for Clinical Acumen

MONICA KATHERINE AMOO-ACHAMPONG

Patricia Levinson Award for the Advancement and Inclusion of Women in Medicine

MONICA KATHERINE AMOO-ACHAMPONG

Dr. Alan F. Guttmacher Obstetrics and Gynecology Prize

BRITTANY ARDITI

Steven B. Tamarin, MD, Memorial Award for Excellence in Family Medicine

ALAINA ARISTIDE

Social and Racial Justice Award to a Graduate Student

ANA BADIMON

The Miki Rifkin Graduate School Service Award

ANNE MARIE BARRETTE

Burton Drayer Prize in Radiology and Biomedical Imaging

JOHN DI CAPUA

The Advancement of Women in Science Award

AMANDA JEAN CRAIG

The Milton C. Engel, MD, Award for Excellence in Geriatric Medicine

REBECCA DISSON ELLIS

The Judith and Nathan Kase Humanities in Medicine Prize

AMY JACQUES GARVEY

The Arthur Cederbaum Mentoring by a Graduate Student Award

JESSE GELLES-HURWITZ

Award for Science Advocacy

CARLA GOLDEN

Dr. David K. McDonogh Award for Diversity in Medical Education

ROBYN NICOLE JORDAN

Excellence in Public Health

FARRAH KHAN

Dr. Morris B. Bender Award in Clinical Neurology

ALANA RACHEL KORNSPUN

The Barry Collier Award for Excellence in Clinical Medicine

HAZEL AMELIA LEVER

George James Epidemiology Award

HAZEL AMELIA LEVER

Barry Stimmel Award for Medical Education

GISELLE N. LYNCH

Irwin Gelernt, MD, Award for Service to the Community

GISELLE N. LYNCH

James Felt Award for the Promotion of Social and Racial Justice

GISELLE N. LYNCH

Jeffrey Modell Clinical Immunology Prize

PATRICK MAFFUCCI

**Mount Sinai Auxiliary Board Prize for Excellence in the Study of Health Care
Delivery Services**

IVAN MARQUEZ

Dr. Howard Rappaport Pediatric Award

ANTHONY J. MELL

The Leonard Tow Humanism in Medicine Student Award

JOE-ANN MOSER

Dr. Joseph R. Jagust Anesthesiology Award

ALEXANDER P. DOMANSKI

ALLEN NINH

Mount Sinai Alumni Student Leadership Award

THEODORE ROBERTSON PAK

Mrs. David A. Dreiling Surgery Prize in Memory of her Mother, Florence L. Oppenheimer

MOLLY SCHILLER RATNER

PORTAL Thesis Award in Clinical Research

RIANA DUTT SANYAL

The Terry Ann Krulwich Doctoral Dissertation Prize

BENJAMIN STRAUSS

Dr. M. Ralph Kaufman Psychiatry Prize

DANIELLE SAMANTHA TAUBMAN

Dr. Harold Lampport Biomedical Research Prize

KELLY ZAFMAN

Class of 2019 Distinctions

GRADUATION WITH DISTINCTION IN RESEARCH GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

ERIN FLAHERTY
LAUREN SCHIFF
ZHEN SUN

GOLD HUMANISM HONOR SOCIETY

MONICA KATHERINE AMOO-ACHAMPONG	HAZEL AMELIA LEVER
NATALIE COHEN	EMMA MAKOBA
CATHERINE CRAWFORD	ANTHONY J. MELL
YONATHAN DEBESSAI	ANNA-LUISA MIRTO
ALEXANDRA ROSE DEMBAR	ERICA MONROSE
REBECCA DISSON ELLIS	MARY NNENNA NWOSUOCHA
AMY JACQUES GARVEY	DENISSE ROJAS-MARQUEZ
LILLIAN JIN	PETER RONNER
ADAM KRAUS	EMILY TIXIER

DISTINCTION IN GLOBAL HEALTH

CAROLINE WILEY BEYER	FARRAH KHAN
LEELA D. CHOCKALINGAM	ANIRUDH KURPET KUMAR
RUI DONG	HAZEL AMELIA LEVER
ALISSE DOHERTY HANNAFORD	JOE-ANN MOSER

DISTINCTION IN RESEARCH

AIYA ABOUBAKR	HAZEL AMELIA LEVER
MARCUS ALEXANDER BADGELEY	ISAIAH R. LEVY
CHRISTINA MARIE BECK	SEAN ROGERS LLEWELLYN
EVA ELAINE BERLIN	GISELLE N. LYNCH
BENJAMIN BOODAIE	PATRICK MAFFUCCI
ANDREW MICHAEL BREGLIO	DOUGLAS ROSS MATHERN
RACHEL SAMANTHA BRONHEIM	ANDREW THOMAS MCKENZIE
NITIN CHOPRA	KYU YOUNG OH
CATHERINE CRAWFORD	THEODORE ROBERTSON PAK
JOHN DI CAPUA	ROBERT AARON RIFKIN
ALISSE DOHERTY HANNAFORD	JESSICA LUCIA RIZZUTO
MEGHANA SHARVANI ESWARAPPA	RIANA DUTT SANYAL
MATTHEW RYAN GALLITTO	CHIRAG KIRIT SHAH
SYED FARRUKH HAIDER	DYLAN SHANE SPERLING
DANIEL FRANKLIN HICKS	WILLIAM SU
ROBYN NICOLE JORDAN	JONATHAN THALER
SUSHEIAN S. KELLY	TEDDY JOHN WOHLBOLD
AAKASH HARIOM KESWANI	DONG-HAN YAO
FARRAH KHAN	KELLY ZAFMAN
IRENE T. LEE	

DISTINCTION IN MEDICAL EDUCATION

CATHERINE CRAWFORD
JOHN DI CAPUA
AMY JACQUES GARVEY
SYED FARRUKH HAIDER

GISELLE N. LYNCH
PATRICK MAFFUCCI
JOE-ANN MOSER
KYU YOUNG OH

RESEARCH AWARDS

Center for Disease Control and Prevention
FARRAH KHAN

Doris Duke International Clinical Research Fellowship Program
LEELA D. CHOCKALINGAM
ALISSE DOHERTY HANNAFORD

Doris Duke International Clinical Research Mentorship Program
MINA AZIZ

Deloitte Fellowship in Health Care Consulting and Leadership
HASHEM EMAD ZIKRY

McKinsey MD Fellowship Program
SANDRA MICHELLE BERGMAN FONG

Graduate School List of Awards and Prizes

RESEARCH AWARDS

Ruth L. Kirschstein National Research Service Award (NRSA/NIH)

EVAN BARDOT, 2018-2019
KAMILAH CASTRO, 2017-2019
BENJAMIN ELY, 2016-2019
ERIN FLAHERTY, 2017-2019
MEGHAN FLANIGAN, 2017-2019
JESSE GELLES-HURWITZ, 2015-2019
CARLA GOLDEN, 2017-2019
JENNIELLE JOBSON, 2016-2018
STACY M KU, 2016-2018
SEAN ROGERS LLEWELLYN, 2016-2019
ANDREW THOMAS MCKENZIE, 2015-2019
THEODORE ROBERTSON PAK, 2016-2019
ROBERT AARON RIFKIN, 2016-2018
JOSEPH SCARPA, 2014-2018
JOSEFA SULLIVAN, JR., 2017-2019
JIA YU, 2016-2018

American Heart Association Research Award

JINGQI GONG, 2017-2018
RAYMOND LIANG, 2016-2017

Sanfurd G. Bluestein Scholarship Award

THEODORE ROBERTSON PAK, 2016-2017

Phillip Hausfeld Memorial Award

JOSEFA SULLIVAN

Terry Krulwich Dissertation Award

BENJAMIN STRAUSS, 2019

Seaver Graduate Fellowship Award

CARLA GOLDEN, 2017-2019
JOSEFA SULLIVAN, 2017-2019

Helmsley Inflammatory Bowel Disease Center Research Award

DOUGLAS ROSS MATHERN, 2012

TRAVEL AWARDS

Keystone Symposium

FIONA ASHLEY DESLAND, 2016
JAMES EDWARD DUEHR, 2016, 2018
JESSE GELLES-HURWITZ, 2018
JOSEFA SULLIVAN, 2019
ZHEN SUN, 2017
NAVPREET TUNG, 2018

Gordon Research Conference

JESSE GELLES-HURWITZ, 2017

IASP World Congress on Pain

BENJAMIN ELY, 2018

Spine Research Symposium

OLIVIA TORRE, 2018

Orthopedic Research Society Annual Meeting

OLIVIA TORRE, 2016, 2017, 2019

International ORS Philadelphia Spine Research Society Meeting

OLIVIA TORRE, 2017, 2018

Future Faculty Symposium

BENJAMIN ELY, 2018

Infectious Diseases Society of America

KIERAN CHACKO, 2016, 2018
THEODORE ROBERTSON PAK, 2016

Society for Developmental Biology National Meeting

EVAN BARDOT, 2018

American Society for Neurochemistry Annual Meeting

KAMILAH CASTRO, 2016

Conference on Hemorrhagic Fever Viruses

JAMES EDWARD DUEHR, 2016

Immunology Annual Conference

KEVIN JHUN, 2018
PATRICK MAFFUCCI, 2014

Graduate School, List of Awards and Prizes

TRAVEL AWARDS

Experimental Biology Annual Conference

PATRICK MAFFUCCI, 2015

Biophysical Society Annual Meeting

JINGQI GONG, 2016, 2017, 2018

JAEHEE SHIM, 2016, 2017, 2018, 2019

American Conference on Pharmacometrics

JINGQI GONG, 2018

JAEHEE SHIM, 2016

Precision Immunology Institute Conference

NAVPREET TUNG, 2018

International Thyroid Conference

ELIZABETH WEBSTER, 2015

Society for Neuroscience Annual Conference

CARLA GOLDEN, 2017

International Society for Autism Research Conference

CARLA GOLDEN, 2016

American Society for Virology Conference

TEDDY JOHN WOHLBOLD, 2015

JAMES EDWARD DUEHR, 2018

International Liver Cancer Association

AMANDA JEAN CRAIG, 2018

American Society of Microbiology Research Meeting

KIERAN CHACKO, 2018

Symposium on Virus-Host Interactions

BENJAMIN STRAUSS, 2017, 2018

Intelligent Systems in Molecular Biology Meeting

MARCUS ALEXANDER BADGELEY, 2014

American Heart Association Conference

BENJAMIN STRAUSS, 2018

TRAVEL AWARDS

AHA Basic Cardiovascular Sciences Annual Meeting

BENJAMIN STRAUSS, 2017

Weinstein Cardiovascular Development and Regeneration Meeting

ANNE MARIE BARRETTE, 2017

Society for Neuro-Oncology Annual Meeting

ANNE MARIE BARRETTE, 2018

DAVID H. ADAMS, MD

Marie-Josée and Henry R. Kravis Professor and System Chair,
Department of Cardiovascular Surgery
Icahn School of Medicine at Mount Sinai

JOSHUA B. BEDERSON, MD

Professor and System Chair,
Department of Neurosurgery
Icahn School of Medicine at Mount Sinai

MICHAEL BRODMAN, MD

The Ellen and Howard C. Katz Chairman's Chair and System Chair,
Department of Obstetrics, Gynecology, and Reproductive Science
Icahn School of Medicine at Mount Sinai

NEIL S. CALMAN, MD

Professor and System Chair,
Department of Family Medicine and Community Health
Icahn School of Medicine at Mount Sinai

JONATHAN COHEN, DVM, MS, DACLAM

Associate Professor and Director,
Center for Comparative Medicine and Surgery
Icahn School of Medicine at Mount Sinai

CARLOS CORDON-CARDO, MD, PhD

Irene Heinz Given and John LaPorte Given Professor of Pathology and System Chair,
Lillian and Henry M. Stratton-Hans Popper Department of Pathology, Molecular
and Cell-Based Medicine
Icahn School of Medicine at Mount Sinai

BURTON P. DRAYER, MD

Dr. Charles M. and Marilyn Newman Professor and System Chair,
Department of Diagnostic, Molecular and Interventional Radiology
Dean for Clinical Affairs
Chief Executive Officer, Mount Sinai Doctors Faculty Practice
Icahn School of Medicine at Mount Sinai
Executive Vice President for Risk
Mount Sinai Health System

RAJA M. FLORES, MD

Steven and Ann Ames Professor in Thoracic Surgery and System Chair,
Department of Thoracic Surgery
Icahn School of Medicine at Mount Sinai

LEESA GALATZ, MD
Mount Sinai Professor in Orthopaedics and System Chair,
Leni and Peter W. May Department of Orthopaedic Surgery
Icahn School of Medicine at Mount Sinai

ANNETINE C. GELIJNS, PhD
Edmond A. Guggenheim Professor of Health Policy and Chair,
Department of Population Health Science and Policy
Icahn School of Medicine at Mount Sinai

ERIC M. GENDEN, MD
Dr. Isidore Friesner Professor and System Chair,
Department of Otolaryngology
Director, Ear Institute
Director, Mount Sinai Head and Neck Institute
Icahn School of Medicine at Mount Sinai

JOSEPH HERRERA, DO
Lucy G. Moses Professorship in Rehabilitation Medicine and System Chair,
Department of Rehabilitation and Human Performance
Icahn School of Medicine at Mount Sinai

ANDY S. JAGODA, MD
Professor and Chair,
Department of Emergency Medicine
Icahn School of Medicine at Mount Sinai

RENÉ KAHN, MD, PhD
Esther and Joseph Klingenstein Professor and System Chair,
Department of Psychiatry
Icahn School of Medicine at Mount Sinai

PAUL J. KENNY, PhD
Ward-Coleman Professor and Chair,
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Oath for Doctoral Candidates

With my Doctor of Philosophy, I willingly pledge to uphold the highest levels of integrity, professionalism, scholarship and honor.

I will conduct my research and professional endeavors with honesty and objectivity.

I will apply the highest standards of rigor and respect for the generation and application of knowledge, and fully acknowledge the contributions of others.

I will not allow financial gain or ambition to cloud my judgment or decision-making nor cause harm to society or subjects of research.

I will embark on the furthering of knowledge through respectful interaction and collaboration with my colleagues and community, without prejudice or exclusion.

I will be a role model, and use my skills to inspire, mentor and empower future generations, instilling in them the highest principles of ethical behavior.

As witnessed by all present today, and in the tradition of Graduates before me, I do affirm to uphold these guiding principles.

Oath for Medical Degree Candidates

As written and selected by the Icahn School of Medicine Class of 2019

I acknowledge all those who have helped me in my path to this day and recognize the enormous privilege of my medical education.

I will always act so as to preserve the finest traditions of my calling. Grant me the strength, time and opportunity always to correct what I have acquired and to advance medicine through the study and conduct of scientific inquiry.

I will remain a life-long learner and challenge myself to grow personally and professionally.

I will remember that there is art to medicine as well as science. I will treat each patient with dignity and compassion as a human being—respecting their autonomy, beliefs, and culture.

I will not be ashamed to say "I don't know," nor will I fail to call on my colleagues when the skills of another are needed for a patient's recovery.

I will respect the privacy of my patients.

I will remember that I do not treat disease but a sick human being, whose illness may affect the person's family and economic stability. My responsibility includes these related problems, if I am to care adequately for the sick.

I will serve as an advocate for social justice and human rights—challenging our profession's role in systemic inequality and promoting wellness for all.

I will prevent disease whenever I can, for prevention is preferable to cure.

I pledge to remember each day why I chose to become a physician—to keep this oath as a reminder of my initial motivation and ongoing commitment.

Oath for Faculty

The mission of the Icahn School of Medicine at Mount Sinai is to produce physicians and scientists who are prepared to enter society as informed advocates and activists who are able to advance clinical care and science and promote change.

We, the faculty, seek to embody this mission and so pledge the following to you, our students, in our effort to help you to become the best possible physicians and your best possible selves:

To serve as models for caring, competent, and unbiased care of our patients.

To engage you in the joy and privilege of practicing the art and science of medicine and the rewards of learning for life.

To uphold the highest standards in scientific and medical research.

To inspire you to respect the art and science of medicine, but also to question the status quo.

To recognize that our opportunity to teach is also our opportunity to learn.

To not just teach, but also nurture.

To share of both our craft and ourselves.

To demonstrate that self-examination means as much as examinations.

To be kind in evaluating you and ourselves.

To never lose sight of our wellness and the wellness of all of those around us.

To have the courage to stand up for the oppressed and vulnerable and against prejudice and racism in all that we do.

To be aware of our own biases and those around us and strive to eliminate them.

To meet you where you are and get you where you want to be.

And, finally, to never forget as physicians, scientists, and educators what we know as human beings.

Academic Regalia

The caps and gowns worn by the participants in today's Commencement exercises are patterned after the attire of scholars in the Middle Ages, when a warm gown and hood were needed for study in unheated buildings. While European institutions continue to show great diversity in their academic costume, an Intercollegiate Commission met in 1895 to standardize the style and color for robes and hoods to be worn at colleges and universities of the United States. Since then the costume code has been revised and clarified several times by the American Council on Education, most recently in 1986. The governing force, however, is tradition tracing back to the academic symbols of the Middle Ages.

Black gowns were originally recommended for all degrees at all institutions, with the style of the gown denoting the degree: pointed sleeves for Bachelor's, long closed sleeves for Master's, and full, round sleeves for the Doctor's degrees. In addition, the Doctor's gown was to be faced in black velvet down the front and with three bars of the same velvet across the sleeves. Some universities have begun to adopt more colorful robes. The Icahn School of Medicine at Mount Sinai robe is blue; other colors currently in use are violet for New York University, slate gray for Columbia, crimson for Harvard, blue for Yale.

Much information is represented by the colors of hoods worn by holders of doctoral and master's degrees. The colors of the interior lining of the hood are those of the institution from which the degree was earned. The hood is bordered in velvet in a color that signifies the discipline of the degree: In the case of the Doctor of Philosophy (PhD) degree, the dark blue color is used to represent the mastery of the discipline of learning and scholarship in any field and is not intended to solely represent the field of philosophy.

Members of the Board of Trustees at Icahn School of Medicine at Mount Sinai wear a specially designed costume.

Arts, Letters, Humanities	White
Business	Light Brown
Dentistry	Lilac
Education	Light Blue
Law	Purple
Library Science	Lemon Yellow
Medicine	Green
Nursing	Apricot
Philosophy	Dark Blue
Public Administration	Peacock Blue
Public Health	Salmon Pink
Science	Golden Yellow
Social Work	Citron Yellow
Veterinary Science	Gray

HONOR *YOUR*
GRADUATE

**CONGRATULATIONS TO
JESSIE KEMPNER!**

We are all so proud of you
and excited to see you take the next step.
You'll be a brilliant doctor.

All our love, Mom, Dad,
Peter, Baily, Nate, Trevor, Meghan,
Tom, Ben, DB and Mansfield

**CONGRATULATIONS
DR. ISOBEL ROSENTHAL
ON YOUR GRADUATION
FROM MOUNT SINAI!**

And here's to many
rewarding years ahead in
psychiatry and healthcare.

All our Love,
Mom, Dad, Liv

JOHN F. DI CAPUA, JR, MD

There are no words to express
the pride we feel today.

We love you,
Mom, Dad, Jule, Chris & Jen

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**CONGRATULATIONS ELIZABETH
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We are so proud!

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First Zarrin Doctor
Way to Go!
Love and Booses, Mom & Dad

ROBBIE,

We are so proud of you, as Dad would be.
Mom, Jenny, & Andy

DEAR DR. DANI TAUBMAN!

We are so very proud of you and your incredible achievements!
With Love,
Mom, Dad, & Laura

CONGRATULATIONS DR. MATTHEW GALLITTO

You are amazing!
Love always,
Mom, Dad, Joey, & Jake

**CONGRATULATIONS!
SO PROUD OF YOU DR. SALK!**

Love Mom & Dad

**CONGRATULATIONS TO OUR DEAREST
DAUGHTER, NOW DR. LILLIAN JIN!**

We are so proud of you!
Mom and Dad

AAKASH,

We are so proud of you!
Love you and God Bless.
YEAH!!

**CONGRATS,
DR. LUCY GOODSON!**

Love from your proud family!

CONGRATULATIONS LEELA!

Reach for New Frontiers

#Have Fun

CONGRATULATIONS DR. CHOPRA!

We are all so very proud of you!

NATALIE, OUR DAUGHTER, SISTER, SOLDIER, STUDENT, AND NOW DOCTOR

Congratulations on reaching this significant accomplishment! You have dedicated your life to bringing life into this world. Your perseverance, commitment, and passion will serve you well in your bright future.

Bravo!

With our love forever

CONGRATULATIONS KELLY!

This is a result of your persistence and commitment. We are very proud of you. You will make a difference in the lives of many people.

Love you and wishing you all the best

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your careers take you.

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