

ICAHN SCHOOL OF MEDICINE
AT MOUNT SINAI

Commencement
2020

FRIDAY, MAY 15, 2020



Icahn School
of Medicine at
**Mount
Sinai**

ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI

COMMENCEMENT EXERCISES

FRIDAY, MAY 15, 2020

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GRAND MARSHAL

TONIA KIM, MD

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

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

President and Chief Executive Officer,
Mount Sinai Health System

JAMES S. TISCH

Co-Chairman, Boards of Trustees
Mount Sinai Health System

**COMMENCEMENT ADDRESSES
AND HONORARY DEGREE RECIPIENTS**

DOCTOR OF HUMANE LETTERS

DARREN WALKER

President, Ford Foundation

DOCTOR OF SCIENCE

VADM JEROME M. ADAMS, MD, MPH

20th Surgeon General, United States of America

PhD STUDENT SPEAKER

JENNIE ALTMAN

OATH FOR DOCTORAL CANDIDATES

DAVID DOMINGUEZ-SOLA, MD, PhD

Assistant Professor, Oncological Sciences
Assistant Professor, Pathology
Icahn School of Medicine at Mount Sinai

DEAN'S REMARKS

MARTA FILIZOLA, PhD

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

PRESENTATION OF DOCTORAL CANDIDATES

MD STUDENT SPEAKER

BENJAMIN FORD ASRIEL

OATH FOR MEDICAL DEGREE CANDIDATES

JACOB APPEL, MD, MS, MPH

Assistant Professor, Psychiatry
Assistant Professor, Medical Education
Icahn School of Medicine at Mount Sinai

DEAN'S REMARKS

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

PRESENTATION OF MEDICAL DEGREE CANDIDATES

Awarding of Honorary Degrees

DOCTOR OF HUMANE LETTERS

DARREN WALKER

President, Ford Foundation

Darren Walker. You are a visionary change-maker with a deep understanding of how to leverage private philanthropy to make a difference in the lives of people in your community and around the world. In your role as President of the Ford Foundation, a \$13 billion grant-making organization, and as co-founder and chair of the U.S. Impact Investing Alliance as well as the Presidents' Council on Disability Inclusion in Philanthropy, you are known for pushing boundaries to improve social justice in the United States and around the world.

As the leader at the Ford Foundation, you chaired the philanthropic committee that brought a resolution to the city of Detroit's historic bankruptcy efforts, saving the Detroit Institute of Arts and shoring up the city's pension fund to ensure that retired public servants were able to retire.

Before joining Ford Foundation in 2010, you served as vice president at Rockefeller Foundation, overseeing global and domestic programs focused on creating long-term strategies to advance economic development, fight poverty, and improve the sustainability of assets for poor and disadvantaged people, including programs that addressed increasing global migration, urbanization, education, employment, and democracy building. You also oversaw the Rockefeller Foundation's new strategy and vision for New York City and support of the re-building of New Orleans after Hurricane Katrina.

You began your career in international law and finance but, in the 1990s, you left the corporate world to volunteer for a year at a school in Harlem. After that year you went on to become Chief Operating Officer of the Abyssinian Development Corporation, Harlem's largest community development organization, where you oversaw a comprehensive revitalization strategy including the first major commercial development in Harlem since the 1960s and the addition of more than 1,000 units of affordable housing.

Today, you also co-chair New York City's Mayoral Advisory Commission on City Art, Monuments, and Markers, and serve on The Independent Commission on New York City Criminal Justice and Incarceration Reform and UN International Labour Organization Global Commission on the Future of Work. You serve on many boards, including Carnegie Hall, the High Line, VOW to End Child Marriage, the Committee to Protect Journalists, the National Gallery of Art, and the Smithsonian National Museum of African American History & Culture. You are a member of the Council on Foreign Relations, the American Academy of Arts and Sciences, and are the recipient of 16 honorary degrees and university awards, including Harvard University's W.E.B. Du Bois Medal. You were included in *Time Magazine's* annual "100 Most Influential People in the World," *Rolling Stone's* "25 People Shaping the Future," *Fast Company's* "Most Creative People in Business," and *OUT Magazine's* "Power 50."

Educated exclusively in public schools, and raised by a single working mother, you were a member of the first Head Start class in 1965 and earned your BA/BS, and JD degrees from The University of Texas at Austin.

Darren Walker, social justice activist and philanthropic innovator, for your work to create sustainable social change and to transform the lives of countless people in need around the world, it is a privilege to confer upon you the degree of Doctor of Humane Letters, *Honoris Causa*.

Awarding of Honorary Degrees

DOCTOR OF SCIENCE

VADM JEROME M. ADAMS, MD, MPH

20th Surgeon General

United States of America

Jerome Adams, you are the 20th Surgeon General of the United States. You have made it your personal mission to serve as “the Nation’s Doctor” and, in that role, to advance the health of the American people. During an unprecedented global health crisis, your leadership as U.S. Surgeon General helped to educate the public about the latest emerging knowledge to prevent, treat, and ultimately subdue the COVID-19 pandemic in the U.S.

As the Surgeon General, you hold the rank of Vice Admiral in the U.S. Public Health Service Commissioned Corps, a role in which you oversee the operations of more than 6,000 uniformed health officers who serve in nearly 800 locations around the world to promote, protect, and advance the health and safety of our nation. Your personal motto to achieve “better health through better partnerships” has strengthened relationships with a vast range of organizations and institutions that provide health care for the American public, and you have forged new partnerships with members of the faith, education, public safety, and national securities communities.

During your tenure as Surgeon General, you have focused on building a culture of health and prevention in all sectors but with a special focus on several initiatives to tackle our nation’s most pressing health issues, including the coronavirus pandemic, the opioid epidemic, oral health, and the links between community health and both economic prosperity and national security. You have resolved that your dedicated efforts in these areas will result in the dissemination of evidence and best practices to the public, including the documentation of the connections between private sector investments and public policies that promote healthy communities and subsequent measures of business and community prosperity. Your goal is to inspire future research and provide tools and resources for effective, efficient community health investments that produce results.

You earned your bachelor’s degrees in both biochemistry and psychology from the University of Maryland, Baltimore County, a master of public health degree from the University of California at Berkeley, and a medical degree from Indiana University School of Medicine. You feel that your toughest but most important job is being a father to your two teenage sons and daughter. You have served as a leader in numerous professional organizations, including the American Medical Association, the Indiana State Medical Association, and the Indiana Society of Anesthesiologists. You are also the former Health Commissioner of Indiana, where you led the State’s responses to Ebola, Zika, and to the largest ever HIV outbreak in the United States related to injection drug use.

Dr. Adams, you lead with science to facilitate locally led solutions to the nation’s most difficult health problems, particularly during an unprecedented national and global health crisis. You have dedicated your career to public health at the highest level and have made an enduring impact on the health of the American people. It is a privilege to confer upon you the degree of Doctor of Science, *Honoris Causa*.

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

Dissertation Advisors

MARK ALEYNICK Natural Pattern-Recognition-Receptor Agonists as Adjuvants for Cancer Immunotherapy	JOSHUA BRODY, MD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai
JENNIE ALTMAN Characterizing and harnessing type I interferon induced persistent transcription in ISG15 and USP18 deficient cells	DUSAN BOGUNOVIC, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
VINCENT ANGUIANO Role of the C-Terminus of the p53 Tumor Suppressor in Tissue Homeostasis and Responses to DNA Damage	JAMES J. MANFREDI, PhD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
PHILIP DANIEL AVIGAN** The Contributions of the Prefrontal Cortex, Hippocampus, and their Interactions to Flexible Spatial Learning and Memory	GEORGE HUNTLEY, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai MATTHEW SHAPIRO, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
KRISTOPHER AZARM The functional and antigenic diversity of the Henipavirus glycoproteins	BENHUR LEE, MD Department of Microbiology Icahn School of Medicine at Mount Sinai
CARMIT BAR The role of Polycomb repressive complexes in lingual epithelium development	ELENA EZHKOVA, PhD Department of Cell, Developmental and Regenerative Biology Icahn School of Medicine at Mount Sinai
EVAN BARDOT Specification of cardiac lineages during early mammalian heart development	NICOLE C. DUBOIS, PhD Department of Cell, Developmental and Regenerative Biology Icahn School of Medicine at Mount Sinai
ANNE MARIE BARRETTE New Avenues in GBM Therapy – Exploring Drug Combinations with Computational Models and an Investigational Drug Targeting Tumor Cell Migration	NADEJDA TSANKOVA, MD, PhD Lillian and Henry M. Stratton-Hans Popper Department of Pathology, Molecular and Cell-Based Medicine Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

Dissertation Advisors

GRANT BEYLEVELD Identification of influenza A virus-host interactions through integrated “OMICs” approaches	MEGAN L. SHAW, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
CHAORAN BIAN Prognosticating Occurrence of Hepatocellular Carcinoma in Cirrhotic Hepatitis B-Infected Individuals	SCOTT L. FRIEDMAN, MD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai
LUCY BICKS Sensitive periods for social behavior development: A role for parvalbumin interneuron maturation in PFC	HIROFUMI MORISHITA, MD, PhD Department of Psychiatry Icahn School of Medicine at Mount Sinai
STEPHEN PHILLIP BOHLMAN The Role of CDK4 and MDM2 Amplification in Tumorigenesis	JAMES J. MANFREDI, PhD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
JULIA BROWN Impact of pre-existing anti-flavivirus immunity on Zika virus-induced damage during pregnancy	JEAN LIM, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
KAMILAH CASTRO Mechanisms underlying the effect of Body Mass Index on disease course in multiple sclerosis	PATRIZIA CASACCIA, MD, PhD Nash Family Department of Neuroscience and Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai
SANDHYA CHANDRASEKARAN Neuron-specific regulation of chromosomal megadomains in the mammalian brain: Implications for retroviral silencing	GEORGE HUNTLEY, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
STEPHANIE CHRISTIE Targeting the SOX11 Transcription Factor in Mantle Cell Lymphoma	MARTA FILIZOLA, PhD Department of Pharmacological Sciences and Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

	<i>Dissertation Advisors</i>
EDUARDO JOSE CONTIJOCH** Gut microbiota density influences host physiology and is shaped by host and microbial factors	JEREMIAH FAITH, PhD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai SANDER HOUTEN, 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
MICHAEL GUILLERMO DANIEL** Optimized induction of human hemogenesis in adult fibroblasts by defined factors and hematopoietic co-culture	KATERI MOORE, DVM Department of Cell, Developmental and Regenerative Biology Icahn School of Medicine at Mount Sinai ROBERT KRAUSS, PhD Department of Cell, Developmental and Regenerative Biology 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 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 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
JULIE A. EGGENBERGER Characterizing the biological conflicts between development and innate immunity	BENJAMIN TENOEVER, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
BENJAMIN ELY Function and Anatomy of the Human Habenula Circuit	XU JUNQIAN, PhD Department of Psychiatry Icahn School of Medicine at Mount Sinai EMILY STERN, PhD Department of Psychiatry Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

	<i>Dissertation Advisors</i>
JOHN PATRICK FINNIGAN** Structural and Mechanistic Basis for Self/Nonself Discrimination by Mutation-derived Tumor Neoantigen-specific T cells	NINA BHARDWAJ, MD, PhD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai
JESSE GELLES-HURWITZ Methods to study BAX activation resulting from a novel lipid-binding hydrophobic funnel within the core of BAX	JERRY CHIPUK, PhD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
HELYA GHAFARI** A Novel Tyrosine Kinase Inhibitor Provides a Strategy Against Treatment Resistant Acute Myeloid Leukemia	E. PREMKUMAR REDDY, PhD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
CARLA GOLDEN Transcription and neuroanatomy associated with attention deficits in a rat model of Fragile X syndrome	JOSEPH BUXBAUM, PhD AND HALA HARONY-NICOLAS, PhD Department of Psychiatry Icahn School of Medicine at Mount Sinai
MARIA LUCIA GOMEZ The roles of superoxide dismutase 1 and aging in mammary tumorigenesis	DORIS GERMAIN, PhD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
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
CONOR GRUBER** Monogenic disorders of aberrant JAK1 activity	DUSAN BOGUNOVIC, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
NICHOLAS HEITMAN** Molecular and functional characterization of the hair follicle dermal sheath	MICHAEL RENDL, MD Department of Cell, Developmental and Regenerative Biology Icahn School of Medicine at Mount Sinai ROBERT KRAUSS, PhD Department of Cell, Developmental and Regenerative Biology Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

	<i>Dissertation Advisors</i>
MATTHEW MARTIN HERNANDEZ** Mapping genetic variation in HIV and APOBEC3 host defenses	VIVIANA SIMON, MD, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai ANA FERNANDEZ-SESMA, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
KEVIN WILLIAM HOFFMAN** Understanding effects of early West Nile virus infection on pathogenesis in humans	JEAN LIM, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai ANA FERNANDEZ-SESMA, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
KEVIN JHUN Complement controls antiviral CD8+ memory development and function	DIRK HOMANN, MD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai
JENNIELLE JOBSON Genetic Engineering of T cells as a Delivery Vehicle for Protein Replacement Therapy	BRIAN D. BROWN, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai
KIPP JOHNSON Applications of Data Science for Precision Cardiology	JOEL DUDLEY, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai
DEEPAK KAJI** Molecular mechanisms regulating murine tendon regeneration and the tendon cell fate	ALICE HUANG, PhD Leni and Peter W. May Department of Orthopaedic Surgery Icahn School of Medicine at Mount Sinai ROBERT KRAUSS, PhD Department of Cell, Developmental and Regenerative Biology Icahn School of Medicine at Mount Sinai
TIMOTHY COLE KENNY Mitochondrial stress responses in health and cancer	DORIS GERMAIN, PhD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
YILDIZ KOCA The Role of Notch Signaling in Ommatidial Rotation in the Drosophila Eye	MAREK MLODZIK, PhD Department of Cell, Developmental and Regenerative Biology Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

	<i>Dissertation Advisors</i>
MACIT LACIN Development of Cell-Based Neurotransmitter Fluorescent Reporters (CNiFERs) for In Vivo Detection of Somatostatin	PAUL SLESINGER, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
ELIZABETH LAMARCA R-loop distribution and function throughout Neural Development	SCHAHRAM AKBARIAN, MD, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
CASEY LARDNER Δ FosB in the nucleus accumbens: upstream regulation and downstream transcriptional patterns in cocaine and morphine abuse	ERIC NESTLER, MD, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
JONGKUEN LEE Functional bypass of cell cycle entry checkpoints by MYC mutations during B cell lymphomagenesis	DAVID DOMINGUEZ-SOLA, MD, PhD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
ASHLEY LEPACK Roles for histone Dopaminylation in cocaine-induced plasticity	IAN S. MAZE, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai PAUL KENNY, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
DAN LI Post-transcriptional and translational control of stem cell pluripotency	JIANLONG WANG, PhD Department of Cell, Developmental and Regenerative Biology 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 GHAFARI, MD, PhD Department of Cell, Developmental and Regenerative Biology Icahn School of Medicine at Mount Sinai
ALEXANDRA BARRETT KEENAN LONDON Inferring Transcriptional Regulation by Data Integration	AVI MA'AYAN, PhD Department of Pharmacological Sciences Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

	<i>Dissertation Advisors</i>
ZACHARY SPENCER LORSCH** Transcriptional networks of resilience in a mouse model of depression	ERIC NESTLER, MD, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
VINCENT LUO** Modulation of hippocampus-prefrontal cortex neural oscillations in Shank3 rats	MATTHEW SHAPIRO, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai STEVEN SALTON, MD, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
SESHAT MARIE MACK** Characterizing the ligands of recently deorphanized striatal receptor GPR83	LAKSHMI A. DEVI, PhD Department of Pharmacological Sciences Icahn School of Medicine at Mount Sinai AVNER SCHLESSINGER, PhD Department of Pharmacological Sciences Icahn School of Medicine at Mount Sinai
PABLO MARTIN Medial prefrontal cortex mediates the creation of the learning set	MATTHEW SHAPIRO, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
MICHAEL MARTINI** Development of biased non-catechol ligands of the dopamine D1 receptor: new tools for probing therapeutic mechanisms in neurological diseases	ERIC SOBIE, PhD Department of Pharmacological Sciences Icahn School of Medicine at Mount Sinai
JOSHUA MAYOURIAN** Experimental and Computational Insight into Human Mesenchymal Stem Cell Effects on Cardiac Contractility and Arrhythmogenicity	KEVIN COSTA, PhD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai
GRACE MINER A Relationship Between Specific Genetic Variants and Radiologic Phenotypes of Abdominal Aortic Aneurysm	MICHAEL MARIN, MD Department of Vascular Surgery Icahn School of Medicine at Mount Sinai
GRACE ELLEN MOSLEY** Interaction of Sex Effects and Intervertebral Disc Degeneration in a Rat Model of Chronic Back Pain Pathogenesis	JAMES LATRIDIS, PhD Leni and Peter W. May Department of Orthopaedic Surgery Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

	<i>Dissertation Advisors</i>
ELISA NABEL** Development of prefrontal top down control for visuospatial attention	GEORGE HUNTLEY, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
ERIN NEKRITZ Regulation and fate of mammary stem cells in physiological development and tumorigenesis	JOSE M. SILVA, PhD Lillian and Henry M. Stratton-Hans Popper Department of Pathology, Molecular and Cell-Based Medicine Icahn School of Medicine at Mount Sinai
RYAN P. O'HANLON Discovery of an influenza virus entry inhibitor targeting host kinases	MEGAN L. SHAW, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
PRASHANTH RAJARAJAN** Neuron-specific signatures in the chromosomal connectome associated with schizophrenia risk	SCHAHRAM AKBARIAN, MD, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai GEORGE HUNTLEY, PhD Nash Family Department of Neuroscience Icahn School of Medicine at Mount Sinai
LUCIANA RIBEIRO MUNIZ-BONGERS Matrix Metalloproteinase-2 and Toll-Like Receptors Modulating Immune Responses in the Tumor Microenvironment	NINA BHARDWAJ, MD, PhD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai
FELIX RICHTER** Noncoding Genetic Variants in Congenital Heart Disease	BRUCE GELB, MD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai SANDER HOUTEN, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai
OSCAR RODRIGUEZ Using long read sequencing to resolve the most complex regions of the genome	ALI BASHIR, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai
SAMUEL ROSE Principles of microRNA Expression and cis-Regulatory Control Across the Immune System	BRIAN D. BROWN, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

	<i>Dissertation Advisors</i>
ERICKA KIRKPATRICK ROUBIDOUX Antigenic impacts of antibodies targeting cross-reactive epitopes on the influenza virus hemagglutinin	FLORIAN KRAMMER, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
MASATO SADAHIRO Restoration of cortical plasticity through nicotinic modulation of inhibitory circuits	HIROFUMI MORISHITA, MD, PhD Department of Psychiatry Icahn School of Medicine at Mount Sinai
NAN SHEN Leveraging Co-Occurrence And Longitudinal Information in Microbiome Studies	JOSE C. CLEMENTE-LITRAN, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai
JAEHEE SHIM The Era of Precision Medicine: Individual Specific Predictions of Targeted Cancer Therapeutics Induced Cardiotoxicity Using Transcriptomics based Mathematical Modeling	ERIC SOBIE, PhD Department of Pharmacological Sciences Icahn School of Medicine at Mount Sinai
ELIZABETH SLOCUM The Role of Collagen in Pappalysin-1-Driven Pregnancy-Associated Breast Cancer	DORIS GERMAIN, PhD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai
KATHRYN STEIN Delineating human cytomegalovirus entry and dissemination	DOMENICO TORTORELLA, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
JENNIFER ANN STOCKERT Significance of Pseudouridine and KIF20A in the Detection and Treatment of Prostate Cancer	ASHUTOSH K. TEWARI, MD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
OLIVIA TORRE Intervertebral disc regeneration in neonatal mice	JAMES LATRIDIS, PhD Leni and Peter W. May Department of Orthopaedic Surgery Icahn School of Medicine at Mount Sinai ALICE HUANG, PhD Leni and Peter W. May Department of Orthopaedic Surgery Icahn School of Medicine at Mount Sinai

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES AND NEUROSCIENCE

	<i>Dissertation Advisors</i>
NAVPREET TUNG The Contribution of Cancer-Associated Fibroblasts to T Cell Infiltration in Lung Adenocarcinoma	MIRIAM MERAD, PhD Department of Oncological Sciences Icahn School of Medicine at Mount Sinai
RANJAN UPADHYAY** Investigation of cancer-T cell interactions using genetic and small molecule screening libraries	JOSHUA BRODY, MD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai JEREMIAH FAITH, PhD Samuel Bronfman Department of Medicine Icahn School of Medicine at Mount Sinai
GAYATHRI VIJAYAKUMAR Improving the therapeutic potential of Newcastle Disease Virus as an oncolytic agent	PETER PALASE, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
YUANSHUO ALICE WANG** Multiscale Modeling Approaches Dissect the Complexity of High Grade Serous Ovarian Cancer	BIN ZHANG, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai
ELIZABETH WEBSTER Genomic approaches to investigate origins, progression, and diversity of <i>C. difficile</i> infections in a longitudinal ICU cohort	HONORATUS VAN BAKEL, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai ALI BASHIR, PhD Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai
HANCHIH WU IRF4 assesses TCR signaling strength and the phenotypic profile of antigen-specific T cells in human samples	HIDEKI UENO, MD, PhD Department of Microbiology Icahn School of Medicine at Mount Sinai
CHAO YANG Gut Microbiota-driven Humoral Responses in Mice	JEREMIAH FAITH, PhD Samuel Bronfman Department of Medicine and Department of Genetics and Genomic Sciences Icahn School of Medicine at Mount Sinai

DOCTOR OF MEDICINE

ZAINAB AHMED	HELYA GHAFARI**
CESAR ANDRADE	SUNDER SHYAM GIDUMAL
CATALINA ANGEL	JEANIE L. GRIBBEN
JESSICA ALEXANDRIA ASHLEY*	DANIEL ANTHONY GRIER
BENJAMIN FORD ASRIEL	JENNIFER GROM
PHILIP DANIEL AVIGAN**	ANMOL GUPTA
JENNIFER L. BAILEY	CAMILLE HARDY ABELOOS
ARIEL BAR-MASHIAH	YONIS J. HASSAN
AARON MICHAEL BIRNBAUM	LEAH ARIEL HAYKIN
ANNA MARIA BLAZEJOWSKYJ	ARIELA SEGALIT HAZAN
ERIN BRESNAHAN	HELEN YIHUA HE
ANTHONY HOA BUI^	MATTHEW MARTIN HERNANDEZ**
BRIELLE CORINNE CARDIERI	ELIZA HENDRICKS HERSH
SIDA CHEN	MELISSA ELLEN HO
DEBORAH CHI	KEVIN WILLIAM HOFFMAN**
SOPHIA CHIU	BENJAMIN SETH HOROWITZ
EDUARDO JOSE CONTIJOCH**	ZINA ALDEN HUXLEY-REICHER
EDWARD WILLIAM CYTRYN	DEVORA ISSEROFF
DENNIS JARED DACARETT GALEANO	SAMANTHA ROSE JACOBS
MICHAEL GUILLERMO DANIEL**	ALAIN KALDANY
MOHAMED DIANE	CATHARINE BEVERLY KAPPAUF
DANIEL ROBERT DICKSTEIN	SAMUEL MILLER KASE
ELENI MENDEZ DRIVAS	KHUSHMIT KAUR
SARAH MICHAELA DUNCAN	SAMUEL KEBEDE
MADISON EDENS	MARYNA KHROMAVA
MARC ANDREW EGERMAN^	CAMERON H. KIANI
STANLEY BAH TAKWI EWALA	CLARA SEIHYUN KOO
ALEC FEUERBACH	ADAM DANIEL KRAUS*
JOHN PATRICK FINNIGAN**	NIKITA LAKOMKIN
GEORGE WILLIAM CONNER FOX	JASON LEE
JORDAN ANTHONY FRANCKE*	DANIEL E. LEISMAN^
SHARELY N. FRED TORRES	JOSHUA NOAH LOEWENSTERN
EMMELINE FRIEDMAN	ZACHARY SPENCER LORSCH**
JONATHAN MICHAEL GABBAY	KATLEEN SUSSELL LOZADA
JOHN CHRISTIAN GAIPA	VINCENT LUO**
EMMA TRUDE GEDULDIG	JACOB MICHAEL LURIE*

DOCTOR OF MEDICINE

HAYLEY MARIE LYNCH	ALEX RYAN SHER
HARINEE JAGANIYAA MAIYURAN	BENJAMIN AARON SHUHAM
EMMA MAKOBA	YARA SIFRI
EMILY SCHLUSSEL MARKOVIC	MATTHEW ELLIOT SIMHON
KATHRYN ELISE MARQUEEN	MARY PATRICIA SMITH
TUCKER MATTHEWS	ASHLEY JACKLYN SO
JOSHUA MAYOURIAN**	HRISHIKESH KRISHNA SRINAGESH^
NOOR M. MAZA	SNEHA SUBRAMANIAM
GRACE MCINERNEY PEREZ-BENZO^	KELLY SUCHMAN
TAYLOR EDWARD WAITE MILLER	ERICK LOUIS SUN
ANNA-LUISA MIRTO	WAYNE ALLENDALE LEGASPI SY
ERICA MONROSE^	JIMMITTI TEYSIR
ELISA NABEL**	EMILY TIXIER
MACKENZIE NORTON NAERT^	HALEY ISABELLE TUPPER
ROYA NAZARIAN	CHIERIKA O. UKOGU
SLAVENA SALVE NISSAN	LUILLY VARGAS
DOMINIC ANTHONY NISTAL	VAST
CHUKWUMA NWACHUKWU	STEPHANIE VON CSIKY-SESSOMS
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Graduation Achievement Ceremony Awards

Social and Racial Justice Award to a Graduate Student

EZIWOMA ALIBO

Irwin Gelernt, MD, Award for Service to the Community

CESAR ANDRADE

James Felt Award for the Promotion of Social and Racial Justice

CESAR ANDRADE

Terry Ann Krulwich Doctoral Dissertation Prize

MARK BAILEY

The Arthur Cederbaum Mentoring by a Graduate Student Award

CARMIT BAR

Dr. Joseph R. Jagust Anesthesiology Award

DEBORAH CHI

Jeffrey Modell Clinical Immunology Prize

EDUARDO JOSE CONTIJOCH

George James Epidemiology Award

JORDAN ANTHONY FRANCKE

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

JEANIE L. GRIBBEN

The Miki Rifkin Graduate School Service Award

TIMOTHY COLE KENNY

Excellence in Public Health

ADAM DANIEL KRAUS

Dr. Morris B. Bender Award in Clinical Neurology

NIKITA LAKOMKIN

Award for Science Advocacy

CASEY LARDNER

Dr. Harold Lampport Biomedical Research Prize

DANIEL E. LEISMAN

Steven B. Tamarin, MD, Memorial Award

SARAH MICHAELA DUNCAN
CINDY JOHANNA SAENZ LEIVA

Mount Sinai Alumni Student Leadership Award

MINGYAN GRAY
ZACHARY SPENCER LORSCH

The Judith and Nathan Kase Humanities in Medicine Prize

JENNIFER L. BAILEY
HARINEE JAGANIYAA MAIYURAN

Leonard Tow Humanism in Medicine Student Award

EMMA MAKOBA

Dr. Howard Rappaport Pediatric Award

JOSHUA MAYOURIAN

The Advancement of Women in Science

GRACE ELLEN MOSLEY

Dr. Alan F. Guttmacher Obstetrics and Gynecology Prize

MACKENZIE NORTON NAERT

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

GRACE MCINERNEY PEREZ-BENZO

The Barry Collier Award for Excellence in Clinical Medicine

BRIAN MATTHEW RICE

Barry Stimmel Award for Medical Education

PETER LUKAS RONNER

Harold Elster Memorial Prize for Clinical Acumen

CHRISTOPHER WILLIAM ROOT

PORTAL Thesis Award in Clinical Research

MARC ANDREW EGERMAN
HRISHIKESH KRISHNA SRINAGESH

Mrs. David A. Dreiling Surgery Prize

ERICK LOUIS SUN

Dr. M. Ralph Kaufman Psychiatry Prize

SHARELY N. FRED TORRES

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

GEORGE WILLIAM CONNER FOX
EMILY TIXIER

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

CHIERIKA O. UKOGU

Burton Drayer Prize in Radiology and Biomedical Imaging

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MSTP Service Award

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Graduate School List of Awards and Prizes

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RESEARCH AWARDS

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

KRISTOPHER AZARM, 2018-2020
LUCY BICKS, 2018-2020
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MICHAEL GUILLERMO DANIEL, 2017-2018
TIMOTHY COLE KENNY, 2018-2020
ASHLEY LEPACK, 2018-2020
ZACHARY SPENCER LORSCH, 2016-2019
JOSHUA MAYOURIAN, 2017-2020
ELISA NABEL, 2016-2019
ERIN NEKRITZ, 2018-2020
MASATO SADAHIRO, 2018-2020

Mindich Child Health and Development Institute Trainee Pilot Program Grant (MCHDI)

OSCAR RODRIGUEZ, 2017

American Heart Association Research Award

KATHRYN STEIN, 2018-2020

Sanfurd G. Bluestein Scholarship Award

ELISA NABEL, 2018

Seaver Autism Center Fellowship

VINCENT LUO, 2017

Phillip Hausfeld Memorial Award

ASHLEY LEPACK, 2018

Louis and Rachel Rudin Foundation Fellow

JOSHUA MAYOURIAN, 2014-2015

Merksamer Fellowship Award

CARMIT BAR, 2016

TRAVEL AWARDS

Keystone Symposium

MARK ALEYNICK, 2019
LUCY BICKS, 2020
CHAO YANG, 2019

American Urological Association Annual Meeting

JENNIFER ANN STOCKERT, 2017

National Institute of Mental Health MD/PhD Student Conference

ZACHARY SPENCER LORSCH, 2015

Black Family Stem Cell Institute (BFSCI) Conference

ERIN NEKRITZ, 2020

Cold Spring Harbor Laboratory Conference

DAN LI, 2019

Society for Neuroscience Conference

CASEY LARDNER, 2018

National Medical Scientist Training Conference

ELISA NABEL, 2016

Biophysical Society Annual Meeting

ZACHARY SPENCER LORSCH, 2018
JOSHUA MAYOURIAN, 2016

International Society for Stem Cell Research

DAN LI, 2017

Behavioral Epigenetics Conference

ASHLEY LEPACK, 2015

American Society for Virology Conference

GAYATHRI VIJAYAKUMAR, 2016, 2017

GRC epithelial differentiation and keratinization conference

CARMIT BAR, 2019

American Society of Microbiology Research Meeting

GAYATHRI VIJAYAKUMAR, 2019

Graduate School List of Awards and Prizes

TRAVEL AWARDS

BRAIN Initiative Conference

ELISA NABEL, 2020

American Society of Hematology (ASH) Conference

STEPHANIE CHRISTIE, 2016

American Physician Scientists Association

JOSHUA MAYOURIAN, 2015

International Society for Experimental Hematology (ISEH) Annual Meeting

MICHAEL DANIEL, 2016

International Society of Extracellular Vesicles

JOSHUA MAYOURIAN, 2017

STUDENT COUNCIL AWARDS

Outstanding Service to Mount Sinai Student Award

ZACHARY SPENCER LORSCH, 2014, 2015

Award for Excellence

CASEY LARDNER, 2017, 2019

The Miki Rifkin Graduate School Service Award

TIMOTHY COLE KENNY, 2020

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As of April 6, 2020

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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

Hippocratic Oath, Modern Version

I swear to fulfill, to the best of my ability and judgment, this covenant:

I will respect the hard-won scientific gains of those physicians in whose steps I walk, and gladly share such knowledge as is mine with those who are to follow.

I will apply, for the benefit of the sick, all measures which are required, avoiding those twin traps of overtreatment and therapeutic nihilism.

I will remember that there is art to medicine as well as science, and that warmth, sympathy, and understanding may outweigh the surgeon's knife or the chemist's drug.

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

I will respect the privacy of my patients, for their problems are not disclosed to me that the world may know. Most especially must I tread with care in matters of life and death. If it is given me to save a life, all thanks. But it may also be within my power to take a life; this awesome responsibility must be faced with great humbleness and awareness of my own frailty. Above all, I must not play at God.

I will remember that I do not treat a fever chart, a cancerous growth, 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 prevent disease whenever I can, for prevention is preferable to cure.

I will remember that I remain a member of society, with special obligations to all my fellow human beings, those sound of mind and body as well as the infirm.

If I do not violate this oath, may I enjoy life and art, respected while I live and remembered with affection thereafter. May I always act so as to preserve the finest traditions of my calling and may I long experience the joy of healing those who seek my help.

Written in 1964 by Louis Lasagna, Academic Dean of the School of Medicine at Tufts University, and used in many medical schools today.

HONOR *YOUR*
GRADUATE

EDDIE

We are so proud.
We love you more than words can say.

Mom, Dad, Rose, Tracy, Emily, Sam

DR. MADISON EDENS

That just does not get old!
With love from
Your super proud fam

CONGRATULATIONS ANMOL!

On your graduation as Doctor of Medicine with
Distinction in Research

Love, Mom, Dad & Mohit

YU

Congratulations on this great achievement!!
Never stop learning, exploring, growing
and challenging yourself!

O&M

DR. CHRIS ROOT!

It is a success, you truly deserved.
It is an achievement you have truly earned.

Love,
Mom, Dad, Mere, Sterling

CONGRATS DR. SUNDER GIDUMAL

We are so proud of you!
Grandpa, Grandma, Nana, Nani,
Daddy, Mommy

DEVORA

Mazal Tov. Wishing you a long satisfying medical career

Much Love
Avi and Ronni

JOHN

So proud of your achievement!
Make a difference always. <3

WELL DONE, CONNER!

We love you and are proud of you!
Mom, Dad and Morgan

DANIEL

I am so proud of you! You are a blessing in our world.
Love to you and Dayna, always...
Mom

**CONGRATULATIONS TO EMMA
AND THE CLASS OF 2020!**

We have no doubt you will make a difference
in the lives of your patients.
Love from your very proud family.

COLTON

We are so proud of your accomplishments!
Love, Mama Ricky Lucas Ju, Nonna & Pawpaw

CONGRATS HELEN!

We love you and are so proud of you!
Love, Your Family

BENJAMIN, CONGRATULATIONS!!

We love you!
Mom, Dad & all your siblings

CONGRATS ELISA

You are our star!
Lots of love, Your Family

KATLEEN

We are proud & blessed to have you.
Best Wishes, Mom & Leo

DR. DOM

We are so PROUD of you!
Love Dad, Mom and your Family

JOSH

Congratulations! We are so proud of all your accomplishments!
Love, Your Family

OLAMIDE

Congratulations on the milestone!!
Love, Tribe

**WELL DONE
DR. GRACE MCINERNEY PEREZ-BENZO!**

We love you!

CONGRATULATIONS DR. WILL!

Hard work pays off!
Love, M&D

BRIAN

Congratulations On A Job Well Done!
Mom, Bruce & Chris

BRAVO ISAAC!

Love, Mom, Paul, Claire, Mr Paul & Jackson

DR. WILLIAMS, WELL DONE!

We're proud, excited and love you!

CONGRATULATIONS TO THE CLASS OF 2020!



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