

NIH Medical Research Scholars Program (MRSP)
Research Symposium - May 6-7, 2019
FAES Classrooms NIH Clinical Center



About MRSP

The National Institutes of Health (NIH) Medical Research Scholars Program (MRSP) is a comprehensive, year-long research enrichment program designed to attract the most creative, research-oriented medical, dental, and veterinary students to the intramural campus of the NIH in Bethesda, Maryland.

Acknowledgment Statement

This research was made possible through the National Institutes of Health (NIH) Medical Research Scholars Program, a public-private partnership supported jointly by the NIH and generous contributions to the Foundation for the NIH from the Doris Duke Charitable Foundation, the American Association for Dental Research, the Colgate-Palmolive Company, Elsevier, alumni of student research programs, and other individual supporters via contributions to the Foundation for the National Institutes of Health.

Monday, May 6 th			
Session	Time	Name	Presentation Title
Session 1: Cardiology (FAES Room 1)	9:00 AM	Nikhil Gupta	The Micropeptide ORF60 Modulates Insulin Sensitivity
	9:15 AM	Mengyun Lu	Getting to the Heart of the Matter: Mineralocorticoid Blockade in a Rat Model of Pulmonary Arterial Hypertension (PAH)
	9:30 AM	Tyler Bauer	Transmural Absorbance Spectroscopy in an Integrating Sphere used to Evaluate Murine Mitochondria Redox Status during Ischemia/Reperfusion
	9:45 AM	Leah Gober	Elastin Insufficiency: a Study of Changes in Vascular Morphometry, Morphology and Functionality
	10:00 AM	Harry Choi	Application of Machine Learning to Determine Top Predictors of Lipid-rich, Non-calcified Coronary Plaque Burden in Psoriasis
Session 2: Genetic Diseases; Neurodegenerative Disorders; Anesthesiology (FAES Room 3)	9:00 AM	Deeti Pithadia	The Molluscum Pendulum Necklace Sign: A Novel Cutaneous Marker of Pulmonary Disease Severity in Patients with Tuberous Sclerosis Complex
	9:15 AM	Gurpreet Sehra	Five-parameter Evaluation of Dysphagia: a Novel Prognostic Scale for Assessing Neurological Decline in Gaucher Disease Type 2
	9:30 AM	Saadia Hasan	Identification of Converging Protein Interaction Maps Across Fronto-Temporal Dementia/Amyotrophic Lateral Sclerosis Genes
	9:45 AM	Jenny Kim	RNA-Seq Analysis of Rat Frontal Lobe, Hippocampus, and Amygdala after Sustained Single-dose Administration of Ketamine Anesthesia
Session 3: Mental Health; Infectious Diseases/ Immunology (FAES Room 1)	10:30 AM	Katharina Clore-Gronenborn	Investigating the Interrelationships of Sleep, Emotion, and the Hypothalamic-Pituitary-Adrenal Axis using Mobile Technologies in a Community-based Sample
	10:45 AM	Rebecca Hu	Applications of Morphometric Similarity Networks in Predicting Inter-Individual Cognitive Variation: A Replicability Study
	11:00 AM	Gloria Hong	Natural History and Evolution of Anti-Interferon-Gamma Autoantibody-associated Immunodeficiency Syndrome in Thailand and the United States
	11:15 AM	Sydney Stein	Detection of Rare Viral Targets in Tissue following in utero Zika Virus Exposure and Postnatal Rechallenge using Droplet Digital Polymerase Chain Reaction
	11:30 AM	Anthony Lee	Evaluation of Quantitative Nucleic Acid Amplification Test (Gene Xpert MTB/RIF Assay) for Capturing Anti-tuberculosis Treatment Effects and Early Bactericidal Activity
Session 4: Otolaryngology; Tumor Immunology (FAES Room 3)	10:30 AM	Madeline Pyle	Characterizing Transcriptional Differences between Aged and Aged Regenerated Microglia at the Single Cell Level
	10:45 AM	Sarah Greene	Efficacy of Natural Killer Cell Therapy is Enhanced through Inhibition of Myeloid-Derived Suppressor Cell Trafficking
	11:00 AM	Wen Da Ye	Antagonist of cIAP1/2 and XIAP induces Immunogenic Cell Death and alters Antigen Processing Machinery in Preclinical Head and Neck Cancer Models
	11:15 AM	Rogelio Medina	Development of Anti-tumor Immune Response via Peripheral Activation of Innate and Adaptive Immune Systems
1:00-2:30 POSTER SESSION (FAES Terrace)			
Session 5: Hematology/ Oncology (FAES Rooms 1&2)	3:00 PM	Katherine Masih	Identifying Resistance Mechanisms to CD19 Chimeric Antigen Receptor (CAR) T Cell Therapy in Pediatric B Cell Acute Lymphoblastic Leukemia
	3:15 PM	Diane Libert	Targeting Antigen Expression to Enhance Chimeric Antigen Receptor (CAR) T cell Therapeutic Efficacy for Pediatric B Cell Acute Lymphoblastic Leukemia
	3:30 PM	Grace McKay-Corkum	Exploiting Metabolic Vulnerabilities in Pediatric Rhabdomyosarcoma with Novel Nicotinamide Phosphoribosyltransferase Inhibitor OT-82
	3:45 PM	Nicole Dalal	Cause-specific Mortality in Survivors of Lymphoplasmacytic Lymphoma (LPL) and Waldenström Macroglobulinemia (WM)

Tuesday, May 7th

Session 1: Ophthalmology (FAES Room 3)	9:00 AM	Trent Chiang	Macular Thinning occurs in Non-advanced Age-related Macular Degeneration (AMD) and varies with AMD Stage and Subretinal Drusenoid Deposit (SDD) Presence
	9:15 AM	Deborah Lee	Visual Acuity Outcomes of Cataract Surgery in Persons with Type 2 Diabetes: the Action to Control Cardiovascular Risk in Diabetes (ACCORD) Study
	9:30 AM	Durin Uddin	Comparative Assessment of Dark Adaptation in Age-related Macular Degeneration and Reproducibility of Results using the Medmont DAC Perimeter vs the AdaptDx Dark Adaptometer
	9:45 AM	Natasha Kesav	Clinical Manifestations of Uveitis in Patients with and without a Positive Test for Latent Tuberculosis (QuantiFERON-TB Gold Test) in the United States
Session 2: Reproductive Endocrinology; Gynecologic and Urologic Oncology (FAES Room 4)	9:00 AM	Jeannie Radoc	Preconception Antidepressant Use and Pregnancy Outcomes: a Secondary Analysis of the EaGER trial
	9:15 AM	Anne Kim	Effects of the Menstrual Cycle and Short-term Caloric Restriction on Actigraphy-defined Sleep in Young Women
	9:30 AM	Erika Lampert	Immune Modulation by Cell Cycle Checkpoint Kinase (CHK)1 Inhibition in High-grade Serous Ovarian Cancer
	9:45 AM	Nick Thoreson	Long-term Outcomes in Patients with Hereditary Renal Cell Carcinoma treated with Radiofrequency Ablation
	10:00 AM	Jonathan Sackett	Quality Control in Magnetic Resonance Imaging of the Prostate: Analysis of Current Methods and the Development of Automated Quality Control
Session 3: Population Health and Health Disparities; Orthopedics; Dental Medicine; Oncology (FAES Room 1&2)	10:30 AM	Steven Langerman	Are Neighborhood Violence, Problems, and Social Cohesion Associated with Depressive Symptoms? Data from the Jackson Heart Study
	10:45 AM	Asmi Panigrahi	Acculturation, Segmented Assimilation, and Incident Cardiometabolic Disease in Hispanic/Latino Immigrants: Results from the Hispanic Community Health Study/Study of Latinos
	11:00 AM	Tiahna Spencer	Dissecting the Pathogenetic Mechanism of Pain in Fibrous Dysplasia
	11:15 AM	Cameron Fick	Adolescent Patellofemoral Pain: Correlating Morphology and Kinematics
	11:30 AM	Quynh Nguyen	Clinical and Basic Science Approaches to Oro-Dental Anomalies in Rare Diseases
	11:45 AM	David Cruz Walma	The BTB Domain Family of Proteins and its Emerging Role in Cell Migration
	12:00 PM	Timothy Donahoe	Evaluating Cancer Risk Associated with Post-trauma CT Scanning

1:00 PM-2:30 PM- POSTER SESSION (FAES Terrace)

3:00PM-4:00PM – Closing Ceremony and Certificate Presentations (FAES Classrooms 1&2)

Names and Institutions

Tyler	Bauer	Sidney Kimmel Medical College at Thomas Jefferson University
Trent	Chiang	Case Western Reserve University School of Medicine
Harry	Choi	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
Katharina	Clore-Gronenborn	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
David	Cruz Walma	University of Alabama at Birmingham School of Dentistry
Nicole	Dalal	Duke University School of Medicine
Timothy	Donahoe	Weill Cornell Medical College of Cornell University
Cameron	Fick	Georgetown University School of Medicine
Leah	Gober	Mercer University School of Medicine
Sarah	Greene	Duke University School of Medicine
Nikhil	Gupta	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
Saadia	Hasan	Medical College of Georgia at Augusta University
Gloria	Hong	Johns Hopkins University School of Medicine
Rebecca	Hu	University of California, San Diego, School of Medicine
Natasha	Kesav	Northeast Ohio Medical University College of Medicine
Anne	Kim	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
Jenny	Kim	Stony Brook University School of Medicine
Erika	Lampert	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
Steven	Langerman	George Washington University School of Medicine & Health Sciences
Anthony	Lee	University of Miami Miller School of Medicine
Debora	Lee	University of California, Irvine, College of Medicine
Diane	Libert	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
Mengyun	Lu	University of North Carolina at Chapel Hill School of Medicine
Katherine	Masih	University of Miami Miller School of Medicine
Grace	McKay-Corkum	University of Massachusetts Medical School
Rogelio	Medina	David Geffen School of Medicine at UCLA
Quynh	Nguyen	University of Mississippi School of Dentistry
Asmi	Panigrahi	Rutgers New Jersey Medical School
Deeti	Pithadia	Medical College of Georgia at Augusta University
Madeline	Pyle	Medical College of Wisconsin
Jeannie	Radoc	David Geffen School of Medicine at UCLA
Jonathan	Sackett	Loma Linda University School of Medicine
Gurpreet	Seehra	University of Missouri - Kansas City School of Medicine
Tiahna	Spencer	University of Connecticut School of Medicine
Sydney	Stein	University of Missouri-Columbia College of Veterinary Medicine
Nick	Thoreson	Boston University School of Medicine
Durin	Uddin	University of Nevada, Reno School of Medicine
Wen Da	Ye	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University