

NIH SUMMER RESEARCH PROGRAM POSTER DAY - **AUGUST 9, 2018**

| | | |
|--------------------------|------------|-----------------------------------|
| MORNING SESSION | AM | 9:00 AM-11:00 AM |
| LUNCH SESSION | LCH | 11:00 AM-1:00 PM |
| AFTERNOON SESSION | PM | 1:00 PM-3:00 PM |
| HISTEP SESSION | HS | 3:00 PM-4:00 PM (Room A/B) |

SESSION INSTITUTE OR CENTER POSTER NUMBER

| | | |
|------------|--|---------|
| AM | Center for Information Technology (CIT) | 1-7 |
| AM | National Center for Advancing Translational Sciences (NCATS) | 8-25 |
| AM | National Human Genome Research Institute (NHGRI) | 26-71 |
| AM | National Institute on Alcohol Abuse and Alcoholism (NIAAA) | 72-87 |
| AM | National Institute of Allergy and Infectious Diseases (NIAID) | 88-142 |
| AM | National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) | 143-155 |
| AM | National Institute of Biomedical Imaging and Bioengineering (NIBIB) | 156-170 |
| AM | <i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development (NICHD) | 171-221 |
| AM | National Institute on Deafness and Other Communication Disorders (NIDCD) | 222-231 |
| AM | National Institute of Dental and Craniofacial Research (NIDCR) | 232-244 |
| AM | National Institute on Minority Health and Health Disparities (NIMHD) | 245-250 |
| AM | National Institute of Neurological Disorders and Stroke (NINDS) | 251-334 |
| LCH | National Eye Institute (NEI) | 1-31 |
| LCH | National Heart, Lung, and Blood Institute (NHLBI) | 32-92 |
| LCH | National Institute on Aging (NIA) | 93-143 |
| LCH | National Institute on Drug Abuse (NIDA) | 144-183 |
| LCH | National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) | 184-253 |
| LCH | National Institute of Environmental Health Sciences (NIEHS) | 254-262 |
| LCH | National Institute of Mental Health (NIMH) | 263-303 |
| LCH | National Institute of Nursing Research (NINR) | 304-311 |
| LCH | National Library of Medicine (NLM) | 312-332 |
| LCH | Office of the Director (OD) | 333-334 |
| PM | Clinical Center (CC) | 1-47 |
| PM | National Center for Complementary and Integrative Health (NCCIH) | 48-51 |
| PM | National Cancer Institute (NCI) | 52-309 |
| PM | National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG) | 310-336 |
| HS | OD High School Scientific Training and Enrichment Program (HiSTEP) | 177-201 |

NOTES

1. The HiSTEP posters are downstairs in Room A/B
2. The complete program for Summer Poster Day 2018, including poster titles, can be found at https://www.training.nih.gov/assets/2018_Summer_Poster_Day_Program.pdf.

SUMMER INTERNSHIP PROGRAM - POSTER DAY 2018

Center for Information Technology (CIT)

AM-1. Cody Bastian

Automated Process to Generate Patient-specific 3D Printed Molds for Prostate Dissection and Guided Needle Biopsy for Lesions

University of Maryland, College Park (Maryland)

Preceptors: Mr. Marcial Garmendia-Cedillos, Mr. Tom Pohida

AM-2. Biobele Davies, Mariko Gardiner

MIOS Cage Cam – A Cloud-based Home-cage-integrated Waste Monitoring Device to Improve Animal Care

Academy of Health Sciences at PG (Maryland), Thomas Jefferson High School (Virginia)

Preceptors: Mr. Jonathan Krynitsky, Mr. Marcial Garmendia, Mr. Tom Pohida, Dr. Alexxai Kravitz

AM-3. Ajith Kanuri

Adaptive Optics Retinal Imaging with Eye Tracking

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Mr. Jonathan Krynitsky, Mr. Randy Pursley, Mr. Tom Pohida, Dr. Johnny Tam

AM-4. Manish Kondapolu

Mixed Reality for Prostate Fresh Tissue Procurement

University of California, Berkeley (California)

Preceptors: Mrs. Raisa Freidlin, Mr. Marcial Garmendia-Cedillos, Dr. Baris Turkbey, Mr. Thomas Pohida

AM-5. Yoni Pedersen, Alex Pu

Compact Video Monitoring Systems for Large-scale Mouse Ethology

University of Maryland, College Park (Maryland), University of Maryland, College Park (Maryland)

Preceptors: Dr. Ghadi Salem, Dr. Alexxai Kravitz, Dr. John Dennis, Mr. Tom Pohida

AM-6. Christopher Roque

MIOS System to Monitor Activity and Environmental Conditions inside Rodent Home-cages

University of Maryland, College Park (Maryland)

Preceptors: Mr. Thomas Pohida, Mr. Marcial Garmendia, Mr. Lex Kravitz, Mr. Mohamed Ali

AM-7. Brandon Wang

Developing a Solid-state Circulator to Provide Receiver Isolation at 300 MHz for in vivo Electron Paramagnetic Resonance

University of Wisconsin - Madison (Wisconsin)

Preceptors: Mr. Randall Pursley, Mr. Tom Pohida, Dr. Murali Krishna, Mr. Nallathamby Devasahayam

National Center for Advancing Translational Sciences (NCATS)

AM-8. Draven Aquino

High-throughput Screen to Identify Compounds Which target Tumor Associated Macrophages Derived from Human Donor Monocytes.

Kapiolani Community College (Hawaii)

Preceptors: Dr. Mica Dashnyam, Dr. Anju Singh, Dr. Marc Ferrer

AM-9. Felicia Attor, Malaika Bhayana

Synthesis and Biological Evaluation of ULK1 Inhibitors for Autophagy-dependent Cancers

Washington College (Maryland), Bethesda - Chevy Chase High School (Maryland)

Preceptors: Dr. Kanny Wan, Dr. Samarjit Patnaik

AM-10. Prasanthi Bonagiri

Real Time Measurement of Apoptosis Induction in Pancreatic Cancer Cells

Poolesville High School (Maryland)

Preceptors: Dr. Marc Ferrer, Dr. Kelli Wilson, Dr. Lu Chen

AM-11. Ata Chitsaz

Profiling Drug Interactions for the Histone Deacetylase Family Using High-throughput Cellular Thermal Shift Assay

Montgomery College (Maryland)

Preceptors: Ms. Rosita Asawa, Dr. Natalia Martinez

AM-12. Bogdan Domrachev

Design of Rete Ridges in 3-D Bioprinted Skin Tissue Constructs

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Paige Derr, Ms. Kristy Derr, Mr. Samuel Michael, Dr. Mark Ferrer

AM-13. Deeya Garg

High-throughput Screening of Drug Libraries to Identify Novel Inhibitors of Cytosine Methylation

Montgomery Blair High School (Maryland)

Preceptors: Mr. Michael Ronzetti, Dr. Bolormaa Baljinnyam

AM-14. Emmett George

Discovery of the First Selective Small Molecule Agonists of the Insulin-Like3 (INSL3) Peptide Receptor RXFP2: A New Therapeutic Target for the Treatment of Osteoporosis

Duke University (North Carolina)

Preceptors: Dr. Kenneth Wilson, Dr. Juan Marugan

AM-15. Nicholas Kibbey

Using Word2Vec for Temporal Based Analysis of Published Research

University Of Maryland, College Park (Maryland)

Preceptors: Mr. Tyler Peryea, Mr. Dac-Trung Nguyen, Dr. Alexey Zakharov

AM-16. Devin Lewis

Improving Metabolic Stability of YC-1 for Potential Use in Treating Intrahepatic Cholangiocarcinoma

Case Western Reserve University (Ohio)

Preceptor: Dr. Ke Kong

AM-17. Amanda Liu

Discovery of First-in-Class Trpm1 Agonist for the Treatment of Muscular Dystrophy

Montgomery Blair High School (Maryland)

Preceptors: Mr. Raul Calvo, Dr. Juan Marugan

AM-18. Arush Naidu

Identification of Modulators of the DNA Damage Response (DDR) following Chemotherapy and Radiation Using an RNAi Library Targeting the Kinome

Delbarton School (New Jersey)

Preceptors: Dr. Madhu Lal, Dr. Jiaqi Fu, Mr. Colin Todd

AM-19. Jake Niebler

Pre-validation of an in vitro Cell-based Assay for Dermal Toxicity

Juniata College (Pennsylvania)

Preceptors: Dr. Menghang Xia, Dr. Zhengxi Wei, Ms. Li Zhang, Dr. Ruili Huang

AM-20. Taylor Niehoff

Implementation of a NanoLuciferase Complementation Assay for Profiling Drug-Target Interactions

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Natalia Martinez, Ms. Rosita Asawa

AM-21. Bryan Queme

Characterization of Ipglyceramide: Discerning Affinity for Parasitic Targets

Biola University (California)

Preceptors: Dr. Laurence Lamy, Dr. Patricia Dranchak, Dr. Mahesh Aitha, Dr. James Inglese

AM-22. Karun Salvady

A High-Throughput Screening Platform for the Identification of Novel Pharmacoperones for SOD1-linked Familial ALS

University of Texas at Austin (Texas)

Preceptors: Dr. Mark Henderson, Ms. Carina Danchik

AM-23. Janani Sundaesan

High-throughput Screening to Identify Small Molecules That Enhance Cancer Immunotherapy to Treat Melanoma

Boston College (Massachusetts)

Preceptors: Dr. Anju Singh, Dr. Marc Ferrer

AM-24. Justin Szajek

High-throughput Cell Compartment Classification with Deep Learning

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Alexey Zakharov, Mr. Dac-Trung Nguyen

AM-25. Mason Zhang

QSAR Modeling to Predict Inhibitors of Aldehyde Oxidase

Winston Churchill High School (Maryland)

Preceptors: Mr. Dac-Trung Nguyen, Mr. Alexey Zakharov

National Human Genome Research Institute (NHGRI)

AM-26. Omena Aboagye

Niemann-Pick Type C1 Candidate Gene Therapy Plasmids Rescue NPC1 Phenotype in NPC1-/- Mouse Embryonic Fibroblasts

Western School of Technology & Environmental Science (Maryland)

Preceptor: Ms. Denise Larson

AM-27. Jeriel Ake

Do Mexican-Americans Share Family Health History with Healthcare Providers?

James Hubert Blake High School/ Montgomery College (Maryland)

Preceptors: Dr. Jieliu Lin, Dr. Laura Koehly

AM-28. Yoseph Boku

Optimization of an Antisense Oligonucleotide Treatment Strategy to Block Cryptic Splice Usage and Progerin Production in Hutchinson-Gilford Progeria Syndrome

Harvard College (Massachusetts)

Preceptors: Dr. Wayne Cabral, Dr. Michael Erdos

AM-29. Ian Brown

Identification of a Candidate Gene Associated with Brain Malformations, Micrognathia, and Camptodactyly

Walt Whitman High School (Maryland)

Preceptors: Dr. Joshi Stephen, Dr. May Christine Malicdan, Dr. William Gahl

AM-30. Alexander Burgess

DNA Methylation Patterns in Diamond Blackfan Anemia Patients

Bullis School (Maryland)

Preceptors: Dr. David Bodine, Mrs. Nancy Seidel

AM-31. Alexander Chang

Using Machine Learning to Improve Diploid Genome Assembly

Johns Hopkins University (Maryland)

Preceptors: Dr. Sergey Koren, Dr. Adam Phillippy

AM-32. David Chang

Computer Analysis of Adeno-associated Virus Integration Data after Gene Therapy in Mice

Cornell University (New York)

Preceptors: Ms. Stephanie Smith, Dr. Charles Venditti, Dr. Mark Sands, Dr. Tyra Wolfsberg

AM-33. Megha Chitturi

Social Factors Related to Health Communication among Families Affected by Sickle Cell Disease or Trait

Ravenwood High School (Tennessee)

Preceptors: Ms. Jennifer Cleary, Ms. Lena Eskin, Dr. Chris Marcum, Dr. Laura Koehly

AM-34. Carter Clinton

Bioinformatic Candidate Gene Approach to Identify Etiology for Ectopia Cordis/ Pentalogy of Cantrell

Howard University (District of Columbia)

Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

AM-35. Nadine Dogbe

Development of an International Survey Assessing the Perception of Genome Editing in Individuals with Sickle Cell Disease

Saint Olaf (Minnesota)

Preceptor: Mr. Vence Bonham

AM-36. Natalie Filipowicz

Investigating the Use of Genetic Risk Information in Clinical Interactions in a Virtual Setting

Hope College (Michigan)

Preceptors: Dr. Brittany Hollister, Dr. Susan Persky, Dr. Vence Bonham

AM-37. Sarah Flaherty

Effects of Corynebacterium spp. on Staphylococcus aureus: Potential to Reduce Pathogenesis

Smith College (Massachusetts)

Preceptors: Dr. Clayton Deming, Dr. Julia Segre

AM-38. Karen Funderburk

Exploring Combinations of Pan-cancer Epigenetic Markers for Cancer Screening
Arizona State University (Arizona)
Preceptor: Dr. Laura Elnitski

AM-39. Tess Gabert

Neutrophil Extracellular Traps in Hermansky-Pudlak Syndrome
Rice University (Texas)
Preceptors: Dr. May Malicdan, Mr. Chen Han, Dr. Heidi Doward, Dr. William Gahl

AM-40. Eric Joshua Garcia

Using Epigenetics Analysis to Identify Novel Modifiers in Gaucher Disease-associated alpha-Synucleinopathies
University of Maryland, Baltimore County (Maryland)
Preceptors: Mr. Shahzeb Hassan, Dr. Ellen Sidransky, Dr. Nahid Tayebi

AM-41. Macred Gbenro Jr

The Relationship between Weight Satisfaction, Self-blame, and Self-care among Individuals with Type 1 and Type 2 Diabetes
Towson University (Maryland)
Preceptors: Dr. Susan Persky, Ms. Sarah Boland

AM-42. Alicia Giannetti

Facilitating Understanding and Emotional Processing: The Role of a Support Person during Alzheimer's Disease Risk Disclosure Sessions
Boston University (Massachusetts)
Preceptor: Dr. Lori Erby

AM-43. Amber Golden

Identifying the Genetic Cause of a Novel Neutrophil Disorder
Walter Johnson High School (Maryland)
Preceptors: Ms. Jennifer Guo, Dr. May Malicdan

AM-44. Duber Gomez-Fonseca

Performance of Machine Learning Methods for Identifying SNPs Involved in Gene-Gene Interactions
Jackson State University (Mississippi)
Preceptors: Dr. Joan Bailey-Wilson, Dr. Emily Holzinger

AM-45. Sunny Greene

Evaluating the Neuropathology of the Chediak-Higashi Disease Mouse Model
Hollins University (Virginia)
Preceptors: Dr. Raluca Nicoli, Dr. May Malicdan, Dr. William Gahl

AM-46. Charlotte Hagerman

The Role of Parental Guilt and Body Mass Index in Eating and Child Feeding

George Washington University (District of Columbia)

Preceptor: Dr. Susan Persky

AM-47. Gopal Jayakar

Differential Methylation and Ovarian Endometrioid Cancer: A Comparison between GE Mice and Human

Pennsylvania State University (Pennsylvania)

Preceptor: Dr. Laura Elnitski

AM-48. Daniel Kiser

Using Random Forests to Detect Model-free Interactions

University of Arkansas (Arkansas)

Preceptors: Dr. Joan Bailey-Wilson, Dr. James Malley

AM-49. Aleksandra Kostic

Searching the NCBI Sequence Read Archive for Novel Viruses

Princeton University (New Jersey)

Preceptors: Dr. Adam Phillippy, Mr. Brian Ondov

AM-50. Stefanos Koutsoukos

Biomarker Exploration in Organic Acidemia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Irimi Manoli, Dr. Charles Venditti, Dr. Oleg Shchelochkov

AM-51. Zhiyuan Li

Identifying Predictive Gene Expression and Splicing Signatures of Treatment-resistant Hypertension Using Machine Learning Analytics

Freedom High School (Virginia)

Preceptors: Dr. Cihan Oguz, Dr. Gary Gibbons

AM-52. Taylor Lindstrom

Non-motor Symptoms and Risk Assessment for Parkinson's Disease in GBA1 Homozygous and Heterozygous Mutation Carriers

University of Miami (Florida)

Preceptors: Dr. Grisel Lopez, Dr. Ellen Sidransky, Ms. Alta Steward

AM-53. Ezana Lulseged

Turner Syndrome in Diverse Populations

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

AM-54. Maya Moore

Assessing Perceptions of Pharmacogenetic Testing in Native Hawaiian Populations: A Community-based Participatory Research Approach

University of Pennsylvania (Pennsylvania)

Preceptor: Mr. Vence Bonham

AM-55. Sangho Myung

Characterization of a Cellular Model of Methylmalonic Acidemia

Brown University (Rhode Island)

Preceptors: Dr. Charles Venditti, Ms. Jessica Schneller

AM-56. Andrea Otero Rios

Motor Scores and Sleep Survey in GBA1 Mutation Carriers at Risk for Parkinson's Disease

Universidad Central del Caribe School of Medicine (Puerto Rico)

Preceptors: Dr. Grisel Lopez, Dr. Ellen Sidransky

AM-57. Kenzhane Pantin

Do BRCA1 Mutations Increase Risk for Cancers Other than Breast, Ovarian and Melanoma?

University of Urbana-Champaign (Illinois)

Preceptors: Dr. Joan Bailey-Wilson, Dr. Candace Middlebrooks

AM-58. Nishka Patel

Cognitive Profile of Patients with Gaucher Disease and Heterozygous Mutation Carriers at Risk for Parkinson's Disease

University of Maryland, Baltimore County (Maryland)

Preceptors: Ms. Alta Steward, Dr. Grisel Lopez

AM-59. Robert Rizzo

Development of the NIH Organic Acidemia Database for the Natural History Studies

Winston Churchill High School (Maryland)

Preceptors: Dr. Oleg Shchelochkov, Dr. Charles Venditti

AM-60. Sofia Rosenzweig

Heterozygous Loss-of-Function Mutations in Proteasomal Genes Cause Type 1 Interferonopathies

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Hirotsugu Oda, Dr. Oskar Schnappauf, Dr. Ivona Aksentijevich, Dr. Dan Kastner

AM-61. Raya Seid

Evaluation of Mood and Fatigue in GBA1 Homozygous and Heterozygous Mutation Carriers at Risk for Parkinson's Disease

Walter Johnson High School (Maryland)

Preceptors: Dr. Grisel Lopez, Dr. Ellen Sidransky, Ms. Alta Steward

AM-62. Wynton Sims

A Systematic Review of Splenic Infarction in Individuals with Sickle Cell Trait

University of Alabama at Birmingham (Alabama)

Preceptor: Mr. Vence Bonham

AM-63. Lily Smith

Unraveling the Genetic Basis of Oculocutaneous Albinism and Bleeding Diathesis in an Undiagnosed Patient

Walter Johnson High School (Maryland)

Preceptors: Mr. Chen Han, Dr. Bernadette Gochuico, Dr. May Malicdan

AM-64. Benjamin Steger

Functional Analysis of an Autophagy and ER Stress-regulating Protein in a Patient with an Undiagnosed, Multisystem Disorder

Oberlin College (Ohio)

Preceptors: Dr. Marie Morimoto, Dr. May Malicdan

AM-65. Simon Talusan

A Database-driven Website to Display Long Read Sequencing Data for Human Endogenous Retrovirus Insertions

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Dr. Nancy Hansen, Dr. Zhi Liu, Dr. Hyejin Cho, Dr. Jim Mullikin

AM-66. Joey Toker

Kinetics of Hemozoin Deposition in HRG1-deficient Mice

Harvard University (Massachusetts)

Preceptors: Dr. David Bodine, Ms. Nancy Seidel, Ms. Jaya Jagadeesh

AM-67. Kwaniyah Tuffour

Replicating Results While Minimizing Scanning Time for Children with ADHD

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Gustavo Sudre, Dr. Philip Shaw

AM-68. Calandra Whitted

Development of a Health Education Tool to Improve Community-based Implementation of the Families SHARE Family Health History Tool

Florida A&M University (Florida)

Preceptor: Dr. Laura Koehly

AM-69. Vanessa Wong

Recessive Mutations in URB1 Likely Associated with Adult-onset Leukoencephalopathy and Basal Ganglia Calcification

James Hubert Blake High School (Maryland)

Preceptor: Dr. Joshi Stephen

AM-70. Alice Zhu

Quantification of Cell-free mtDNA by ddPCR in the Serum of Patients with Mitochondrial Disease

Winston Churchill High School (Maryland)

Preceptors: Dr. Peter McGuire, Mr. Ivan Yang

AM-71. Oreet Zimand

Block of Unfolded Protein Response (UPR) in Zebrafish Model of Reticular Dysgenesis

Montgomery Blair High School (Maryland)

Preceptors: Dr. Alberto Rissone, Dr. Wuhong Pei, Dr. Shawn Burgess

National Institute on Alcohol Abuse and Alcolism (NIAAA)

AM-72. Beatrice Acha

Objective and Subjective Measures of Physical Activity and Their Link to Psychological Traits

University of Maryland, College Park (Maryland)

Preceptors: Ms. Veronica Ramirez, Dr. Peter Manza, Dr. Gene-Jack Wang, Dr. Nora Volkow

AM-73. Shalicyana Burrell

Association of Dopaminergic Gene Variation with Risky Alcohol Self-administration

Saint Olaf College (Minnesota)

Preceptors: Dr. Bethany Stangl, Dr. Vijay Ramchandani

AM-74. Kate Cowie

Using Functional Near-infrared Spectroscopy to Measure Cue Reactivity in the Bar Lab

Wake Forest University (North Carolina)

Preceptor: Mrs. Mary Lee

AM-75. Meron Haile

Anxiety-related Behavior in Mice Lacking Astroglial Cannabinoid Receptors

University of Maryland, College Park (Maryland)

Preceptors: Dr. Olena Bukalo, Dr. Ozge Gunduz Cinar, Mr. Tanner Rigg, Dr. Andrew Holmes

AM-76. Elaine Han

Tissue-specific Alcohol Metabolism in Mice

Richard Montgomery High School (Maryland)

Preceptors: Dr. Adrien Guillot, Dr. Bin Gao

AM-77. Cameron Javdan

Radioligand Binding Assays

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sunny Kim, Dr. Min Guo

AM-78. Tawnjerae Joe

Analysis of Dendrites and Axons in the Striatum Using DiOlistics

Fort Lewis College (Colorado)

Preceptors: Mr. Dennis Burke, Mr. Roland Bock, Dr. Veronica Alvarez

AM-79. Alana Keller

Exploring the Role of Cannabinoid Receptor 1 (CB1R) in Alveolar Type 2 (AT2) Epithelial Cell Injury and Lung Fibrosis

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Resat Cinar, Dr. George Kunos

AM-80. Ivy Liu

Brain Region Specific Changes in Microglia Transcriptome Induced by Cocaine Self-administration

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Kornel Schuebel, Dr. David Goldman

AM-81. Vikrant Mahajan

Behavioral and Anatomical Characterization of the Mitopark Model for Dopaminergic Neuron Degeneration in Parkinson's Disease

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. David Lovinger, Dr. Margaret Davis, Dr. Karina Abrahao, Dr. Armando Salinas

AM-82. Jeffrey Onyeador

Role of 2-AG Endocannabinoid Signaling in "Breaking" Habits

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Shana Augustin, Dr. David lovinger

AM-83. Olivia Rivellini

Investigating the Effect of Acute and Chronic Alcohol Consumption on Lung Function and Inflammation

Largo High School (Florida)

Preceptors: Dr. Resat Cinar, Dr. George Kunos

AM-84. Elizabeth Sapiro

Whole Transcriptome on Cell Types Purified by a Newly Developed Technique for High-throughput Microdissection

Georgetown Day School (District of Columbia)

Preceptors: Dr. Lucia Guerri, Dr. David Goldman

AM-85. Puja Terse

Design and Synthesis of Neurotensin Modulators

University of Maryland, College Park (Maryland)

Preceptors: Dr. Malliga Iyer, Dr. George Kunos

AM-86. Arthi Thyagarajan

Synthesis of the Peripherally Restricted Cannabinoid CB1 Antagonist JD5037 to Study Ethanol Preference in Mice Deficient in CB1 Receptors in Afferent Sensory Neurons

Montgomery Blair High School (Maryland)

Preceptors: Dr. Malliga Iyer, Dr. Grzegorz Godlewski

AM-87. Mei Xing Zuo

Investigating Bleomycin-induced Pulmonary Fibrosis in Obese and Lean Mice

Winston Churchill High School (Maryland)

Preceptors: Mr. Joshua Park, Dr. George Kunos, Dr. Resat Cinar

AM-88. Larissa Ault

Gene-specific Profiles for Characterizing Mutational Biases in Antibody Somatic Hypermutation

University of Hawaii at Manoa (Hawaii)

Preceptors: Dr. Chaim Schramm, Dr. Daniel Douek

National Institute of Allergy and Infectious Diseases (NIAID)

AM-89. Ashley Bailey

Rescuing B Cells from Mitochondrial Dysfunction with Secondary Signals

Morgan State University (Maryland)

Preceptors: Dr. Munir Akkaya, Mr. Brandon Theall, Dr. Susan Pierce

AM-90. Daniella Bloch

STAT3 Regulation of TRAF6 Expression

Melvin J Berman Hebrew Academy (Maryland)

Preceptors: Dr. Michael O'Connell, Dr. Joshua Milner

AM-91. Michael Briones

Chlamydia trachomatis Lipopolysaccharide Fails to Activate the Canonical and Non-canonical Inflammasome Pathways: A Pathogen Strategy for Silencing Innate Immunity

University of Nevada Las Vegas School of Medicine (Nevada)

Preceptor: Dr. Harlan Caldwell

AM-92. Danielle Castro

Improving Fe³⁺ -IMAC Phosphopeptide Enrichment

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Nathan Manes, Dr. Aleksandra Nita Lazar

AM-93. Anna Chen

The Design and Expression of an Oligomeric Form of Mucosal Addressin Cell Adhesion Molecule 1 (MAdCAM-1): A Receptor Involved in the Homing of Lymphocytes to the GI Tract

Richard Montgomery High School (Maryland)

Preceptor: Dr. James Arthos

AM-94. Debby Cheng

Genome-wide Analysis of Sites Regulating Gene Expression in Human Mucosal-associated Invariant T (MAIT) Cells

Princeton University (New Jersey)

Preceptors: Dr. Joshua Farber, Dr. Satya Singh

AM-95. Sally Choi

Optimizing Detection and Transcriptome Sequencing of HIV Infected CD4 T Cells Using PCR Activated Cell Sorting (PACS)

University of Maryland, College Park (Maryland)

Preceptors: Dr. Eli Boritz, Dr. Sung Hee Ko

AM-96. Bridget D. Olson

Characterization of a Human Monoclonal Antibody against Plasmodium falciparum Protein Pfs230 and Development of a Flow Cytometry Panel to Isolate IgG1 and IgG3 Pfs230 Memory B Cells

Delaware Technical Community College (Delaware)

Preceptors: Dr. Camila Coelho, Dr. Patrick E. Duffy

AM-97. Travis Dias

Function of CD151 in Human T cell Immunology

University of South Carolina (South Carolina)

Preceptors: Dr. Nannan Zhang, Dr. Peter Williamson

AM-98. Nathaniel Dwyer

STAT1 GOF with Normal STAT1 Phosphorylation

Cornell University (New York)

Preceptors: Dr. Elizabeth Sampaio, Ms. Lindsey Rosen, Dr. Steven Holland

AM-99. Jonah Eisenberg

Long Term Outcomes of Anakinra Usage in Patients with Neonatal-onset Multisystem Inflammatory Disease (NOMID): A Ten Year Study

University of Michigan (Michigan)

Preceptors: Dr. Adriana Almeida de Jesus, Dr. Raphaela Goldbach-Mansky, Ms. Kim Johnson, Dr. Sara Alehashemi

AM-100. Olivia Fan

Smartphone Level Test Measures Neurological Disability in Several Domains

Montgomery Blair High School (Maryland)
Preceptors: Mrs. Ann Marie Weideman, Dr. Bibiana Bielekova

AM-101. Ryan Geib

Why Does the Min System Oscillate?
University of Rhode Island (Rhode Island)
Preceptors: Dr. Martin Meier-Schellersheim, Dr. Thorsten Prustel

AM-102. Emily Gliniewicz

Detection of the Emerging CGD Pathogen Granulibacter bethesdensis in Archival Pathology Specimens
Mount Holyoke College (Massachusetts)
Preceptors: Mr. John Audley, Dr. Kol Zarembler, Dr. John Gallin

AM-103. Michala Goode-Arthur

Developing Educational Resources for Universal Influenza Vaccines
James Hubert Blake High School (Maryland)
Preceptors: Dr. Michelle Crank, Dr. Barney Graham

AM-104. Natalia Grube

Genetic Hybridization and Population Genetic structure of Trypanosoma species
Hunter College CUNY (New York)
Preceptors: Dr. Asis Khan, Dr. Michael Grigg

AM-105. Brooke Horowitch, Naol Mekonnen

Evaluating the Capacity of Anti-gp120 V2 Loop Antibodies and V2 Loop Peptides to Inhibit the Interaction between the HIV Envelope and Integrin alpha4beta7
Williams College (Massachusetts), University of Maryland, College Park (Maryland)
Preceptor: Dr. James Arthos

AM-106. Arjun Jain

Application of Multimodal Protein and mRNA Analysis in Developing Immune Cells
Catlin Gabel School (Oregon)
Preceptors: Dr. Andrew Martins, Dr. John Tsang

AM-107. Anish Karpurapu

Deep Learning Based Confocal Microscopy Image Segmentation
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Nishant Thakur, Dr. Ronald Germain

AM-108. Caroline Kim

Determination of dNTP (Deoxynucleoside Triphosphate) Cellular Concentrations in PBMC from Patients with Autoinflammatory Diseases
University of Chicago (Illinois)

Preceptors: Dr. Raphaela Goldbach-Mansky, Dr. Adriana Almeida de Jesus, Dr. Farzana Bhuyan

AM-109. Mahima Krishnamoorthi

Delineating Interactions between Different Classes of Immunoglobulins in Health and HIV Infection

Stanford University (California)

Preceptors: Dr. Susan Moir, Dr. Lela Kardava, Dr. Clarisa Buckner, Ms. Valerie Melson

AM-110. Tooba Malik

Identification and Characterization of Mast Cell-derived Extracellular Vesicles Imprinted on Dermatan Sulfate

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Andrea Naranjo-Erazo, Dr. Ana Olivera, Dr. Dean Metcalfe

AM-111. Olivia Marcantonio

Using Site-directed Mutagenesis to Define Domains in HIV-1 Vif Important for Cellular Localization and Viral Incorporation

University of Virginia (Virginia)

Preceptors: Dr. Klaus Strebler, Dr. Eri Miyagi

AM-112. Clare Martin

De-Orphanizing Atypical Mouse Chemokine Receptor Ccr11

Princeton University (New Jersey)

Preceptors: Dr. Philip Murphy, Dr. Sergio Pontejo, Ms. Lauren Heusinkveld, Ms. Jaclyn Kline

AM-113. Dhalia Metenou

Application of Multiplex Assay to Quantify the Levels of Serum Eosinophil Granule Proteins in Helminth Infected Patients

George Mason University (Virginia)

Preceptors: Dr. Alessandra Ricciardi, Dr. Thomas Nutman

AM-114. Denise Morris

JAK-STAT Pathway Role on IL-6 Production in Oncogenic Mast Cells

Howard University (District of Columbia)

Preceptors: Dr. Araceli Tobio, Dr. Ana Olivera, Dr. Dean Metcalfe

AM-115. Sofia Nakuchima

Biological Role of Plasmodium falciparum 230 kDa Sexual Stage Protein Pfs230

Johns Hopkins University (Maryland)

Preceptors: Dr. David Narum, Dr. Nicholas MacDonald

AM-116. Jordany Nelson

Determining How GM-CSF's Regulation of Autophagy in Monocytes Enhances the Immune Response to Cryptococcus gattii

Montgomery College (Maryland)
Preceptors: Dr. Peter Williamsom, Dr. Waleed Elsegeiny

AM-117. Linh Pham

Identifying and Quantifying Neurological Disability via a Smartphone Spiral Test

Humboldt State University (California)

Preceptors: Mrs. Ann Marie Weideman, Dr. Bibi Bielekova

AM-118. Ethan Pickerill

Development of mitoTurboID to Unveil Components of the Mitochondrial Signaling Hub following Innate Immune Activation

Ball State University (Indiana)

Preceptors: Dr. Clinton Bradfield, Dr. Iain Fraser

AM-119. Katherine Polk

Process Optimization of Ebola Monoclonal Antibody Vaccine Candidate mAb114

George Mason University (Virginia)

Preceptors: Mr. Bobby Boonyaratanakornkit, Ms. Stephanie Barclay, Mr. Joe Horwitz, Mr. Frank Arnold

AM-120. Rachel Prucnal

Impact of Excipient Degradation on an HIV Vaccine Candidate

University of Maryland, College Park (Maryland)

Preceptors: Dr. Frank Arnold, Dr. William Shadrick, Mr. Aakash Patel

AM-121. Jessica Randazzo

Do PET/CT Scan Readers Agree on Severity of Tuberculosis?

Tulane University School of Public Health and Tropical Medicine (Louisiana)

Preceptor: Dr. Lori Dodd

AM-122. Graham Redweik

Simultaneous-imaging Technique for Microbiota and Immune Cells in Gut via Fluorescence in situ Hybridization and Immunofluorescence

Iowa State University (Iowa)

Preceptors: Dr. Weizhe Li, Dr. Zhao Chen, Dr. Ronald Germain

AM-123. Keith Rogers

The Role of Staphylococcus aureus Toxins in Immune Evasion

Oakwood University (Alabama)

Preceptors: Mr. Thuan Nguyen, Dr. Michael Otto

AM-124. Aidan Sandman-Long

Environmental Allergen-specific Antibodies Recognize Helminth Larval Surface Antigens: New Insights into Allergy-Helminth Interaction

University of Maryland, College Park (Maryland)
Preceptors: Dr. Pedro H Gazzinelli Guimaraes, Dr. Thomas Nutman

AM-125. Theo Schmidt

Predicting Protein Binding Affinity Upon Mutations Using Gradient Boosting Machine
Georgetown Day School (District of Columbia)
Preceptor: Dr. Reda Rawi

AM-126. Elana Shaw

Using Lymphocyte Levels to Predict and Prevent Symptoms in Malaria CVac
Emory University (Georgia)
Preceptors: Dr. Agnes Mwakingwe, Dr. Patrick Duffy

AM-127. Janis Shin

Purification of Antigen-specific Antibodies from Plasma Samples
University of Washington (Washington)
Preceptors: Dr. Rui Kong, Ms. Ariana Rowshan, Dr. John Mascola

AM-128. Niharika Shukla

Expression of Candidate Placental Malaria Vaccine Antigens in Mammalian Cells
Vassar College (New York)
Preceptors: Mrs. Holly Torano, Dr. Jonathan Renn, Dr. Patrick Duffy

AM-129. Delaney Sullivan

Immunogenicity of Influenza Group 2 Hemagglutinin-stem Nanoparticles
Georgetown University (District of Columbia)
Preceptors: Dr. Barney Graham, Dr. Syed Moin

AM-130. Carol Sun

Using Expression Quantitative Trait Loci (eQTL) to Improve the Accuracy of Predictive Models of Multiple Sclerosis Severity
Oak Park High School (California)
Preceptors: Ms. Kayla Jackson, Dr. Bibiana Bielekova

AM-131. Ziann Traore

Modulators of the Innate Immune Response
Howard University (District of Columbia)
Preceptors: Dr. Sinu John, Dr. Iain Fraser

AM-132. Triniti Turner

Analysis of Type I Interferon and Chemokine Levels in Plasma of Children and Adults Exposed to Intense Seasonal Plasmodium falciparum Malaria Transmission in Mali
Northern Virginia Community College (Virginia)
Preceptors: Dr. Anton Goetz, Dr. Peter Crompton

AM-133. Anja Ueberla

Development of an ELISA Avidity Assay to Evaluate Antibody Quality after ChAd3 Ebola Vaccination

Universitaet Leipzig (Non-U.S.)

Preceptor: Dr. Hadar Marcus

AM-134. John Vaile

High-throughput Enzyme-linked Immunosorbent Assay (ELISA) Development to Assess the Immunogenicity Profile of Universal Influenza Vaccine Candidates

University of Delaware (Delaware)

Preceptors: Dr. Seyhan Boyoglu-Barnum, Dr. Masaru Kanekiyo, Dr. Barney Graham

AM-135. Cyndy Vasquez

Atypical VAR2CSA Expressed by Plasmodium falciparum Isolate from a Malaria-infected Pregnant Woman

Johns Hopkins University (Maryland)

Preceptors: Dr. Justin Doritchamou, Dr. Patrick Duffy

AM-136. Madhu Vemulakonda

Identification of Plasmodium falciparum Proteins in Plasma Microvesicles by Proteomic Analysis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Chris Spencer, Dr. Michal Fried

AM-137. Pavan Vemulakonda

Rapid Screening of Malaria Vaccine Candidates through Nickel/His-tag Complexation with ExoProtein A Carrier

University of Maryland, College Park (Maryland)

Preceptors: Dr. Puthuppampal Scaria, Dr. Patrick Duffy

AM-138. Isabella Whitworth

Computational and Experimental Methods to Explore Kinase Activation in Cellular Signaling

Santa Clara University (California)

Preceptors: Dr. Martin Meier-Schellersheim, Dr. Tara Capece, Mr. Steve Gierlack

AM-139. Leah Wolfish

Characterizing the Structural Features and Stability of MHC-I Molecules with Engineered Disulfide Bonds at the Peptide Binding Groove

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Nathan May, Dr. David Margulies

AM-140. Kelly Wucherer

Alpha4Beta7 Signaling and HIV-1 Envelope Interaction

Whitworth University (Washington)

Preceptors: Dr. Hana Schmeisser, Dr. Paolo Lusso

AM-141. Lily Xu

Characterization of Zika Virus Monoclonal Antibody Neutralization

Washington University in St. Louis (Missouri)

Preceptors: Dr. Kim Dowd, Dr. Theodore Pierson, Dr. Haiyan Zhao, Dr. Daved Fremont

AM-142. Ambika Yavatkar

Analysis of Brain Volumes in HIV+ and HIV- Individuals Using MRI

Northwest High School (Maryland)

Preceptors: Dr. Govind Bhagavatheeshwaran, Mr. Ulisses Santamaria, Dr. Avindra Nath

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

AM-143. Rachel Alexander

Bone Sialoprotein Is a Key Modulator of Tooth Root Development

Columbia University (New York)

Preceptors: Dr. Karin Nagasaki, Dr. Martha Somerman

AM-144. Blake Archer

What Are the Most Important Genomic Determinants of Gene Expression Levels?

Howard University (District of Columbia)

Preceptors: Dr. Fred Davis, Dr. John O'Shea

AM-145. Navid Chowdhury

Integration of 4C-Seq Analysis Pipelines to Observe Interchromosomal Interaction between a Muscle-Specific Enhancer and the Myogenin Gene

University of Maryland, College Park (Maryland)

Preceptors: Dr. Vittorio Sartorelli, Dr. Kyung Dae Ko

AM-146. Eileen Chu

[18F]-2-fluoro-2-deoxy-D-glucose Positron Emission Tomography / Computed Tomography Incidental Pulmonary Findings in SLE Patients

Drexel University College of Medicine (Pennsylvania)

Preceptors: Dr. Sarfaraz Hasni, Mr. Michael Davis, Mrs. Jun Chu, Dr. Mariana Kaplan

AM-147. Lilah Fones

The Role of CHOP on IL-23 Expression in HLA-B27 Positive Macrophages

University of Connecticut School of Medicine (Connecticut)

Preceptors: Dr. Robert Colbert, Dr. Fatemeh Navid

AM-148. Victoria Fonseca

Combining Bbarcoding with Phospho-specific Flow Cytometry Enables Rapid, Robust, and Reliable Functional Analysis of Patients' Samples

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Massimo Gadina, Dr. Laura Vian

AM-149. Dorian Frazier

The Comparison of sgRNAs in crisprCas9 for Genomic Editing

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Andrea Conte, Dr. Rafael Casellas

AM-150. Tyler Kellenberger

Disulfiram and Copper as a Novel Combinational Therapy for Merkel Cell Carcinoma

University of Florida (Florida)

Preceptors: Dr. Isaac Brownell, Dr. Natasha Hill

AM-151. Erica Matich

Establishing a Function for the Predominantly Nuclear CUGBP-1 at Cell-Cell Interface

University of Tampa (Florida)

Preceptors: Dr. Markus Hafner, Dr. Daniel Benhalevy

AM-152. Cameron Miller

Whole Genome Sequencing Analysis in a Family with a Rare Early-onset Auto-inflammatory Disease

Winston Churchill High School (Maryland)

Preceptor: Dr. Zuoming Deng

AM-153. Manolya Osman

Structural Studies of HIV-1 Rev Mediated Export of Viral RNA

University of Maryland, College Park (Maryland)

Preceptor: Dr. Elif Eren

AM-154. Mollie Schwartz

Utility of the Brief Illness Perception Questionnaire to Monitor Psychological Burden of Illness in Systemic Vasculitis

University of Maryland, College Park (Maryland)

Preceptor: Dr. Peter Grayson

AM-155. Talia Solomon

Reevaluation of YB-1 Function under Stress

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Markus Hafner, Dr. Daniel Benhalevy

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

AM-156. Toren Arginteanu

Investigating Adaptive Noise Cancellation of MRI Interference on Electrocardiography Signals Acquired with PRiME System

University of Pennsylvania (Pennsylvania)

Preceptors: Mr. John Kakareka, Mr. Randall Pursley, Mr. Thomas Pohida, Dr. Robert Lederman

AM-157. Swati Chandra

Repurposing Cyanine NIR-I Dyes for Combined NIR-II Fluorescence Imaging and Nanomedicine

University of Arizona (Arizona)

Preceptors: Dr. Xiaoyuan Chen, Dr. Shoujun Zhu, Dr. Rui Tian

AM-158. Aya Cloyd

Drug Sensitivity of 3D Cancer Cultures in Bioreactor with Micropillar Oxygen Delivery

University of Texas at Dallas (Texas)

Preceptors: Dr. Michael Gottesman, Dr. Nicole Morgan, Dr. Tom Pohida, Dr. Rob Robey

AM-159. Charlotte DeVol

A Comprehensive Evaluation of Osseointegration in Service Members with Transfemoral Limb Loss

North Carolina State University (North Carolina)

Preceptor: Dr. Bradford Hendershot

AM-160. Eric Dubofsky

Evaluation of the Effect of COX2 on Acellular Bioscaffold-Mediated Tissue Remodeling

California Polytechnic State University San Luis Obispo (California)

Preceptors: Dr. Michael Valerio, Dr. Stephen Goldman, Dr. Christopher Dearth

AM-161. Luis Estrada

Structure-Guided Engineering and Spectroscopic Characterization of Biliverin-binding Near-infrared Fluorescent Proteins

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Dr. Kimberly J. Jacoby Morris, Dr. George H. Patterson

AM-162. Ashley Holt

Expression of the Notch Ligand Jagged 2 in the Intestinal Crypt

Texas A&M University (Texas)

Preceptors: Dr. Brittney Harrington, Dr. Giovanna Tosato

AM-163. Sushruta Iruvanti

AFM Analysis of Circumsporozoite Protein and Engineered Malaria Vaccine Candidates

Cornell University (New York)

Preceptors: Dr. Albert Jin, Dr. David Narum

AM-164. Cheyenne Kalfsbeek

The Effect of Perfusion-related Ischemia on Neurite Beading and Diffusion MRI

Alma College (Michigan)

Preceptors: Dr. Elizabeth Hutchinson, Dr. Carlo Pierpaoli, Dr. Laura Reyes

AM-165. Emily Shao

Acidity-driven Self-assembled Hollow Mesoporous Organosilica Nanoparticles for Cancer Detection

Thomas S. Wootton High School (Maryland)

Preceptor: Dr. Wei Tang

AM-166. Justin Song

Hydroxyl Radical Generation by pH-responsive Copper Peroxide Nanoparticles for Cancer Therapy

Richard Montgomery High School (Maryland)

Preceptors: Dr. Lisen Lin, Dr. Shawn Chen

AM-167. Brandon Williams

Near-infrared Oximetry System to Monitor Anterior Positioned Placentas

University of Rhode Island (Rhode Island)

Preceptors: Dr. Amir Gandjbakhche, Mr. Randall Pursely, Mr. Thomas Pohida, Dr. Siddharth Khare

AM-168. Anna Wolfe

Adaptive Control of an Exoskeleton to Alleviate Crouch Gait

Vanderbilt University (Tennessee)

Preceptors: Dr. Diane Damiano, Dr. Ji Chen, Mr. Jon Hochstein, Dr. Thomas Bulea

AM-169. Danny Xie

Analysis of EEG Activity in Children With and Without Cerebral Palsy during a Visually Cued Drumming Task

University of Florida (Florida)

Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

AM-170. Julia Zhou, Sophia Wu

Detailed Atomic Force Microscopy Analyses of Microtubules Stabilized with Anti-cancer Drugs

Thomas Jefferson High School for Science & Technology (Virginia), Walter Johnson High School (Maryland)

Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)

AM-171. Stephen Agyepong

Characterizing the Interactions among Meningeal Cell Populations in the Zebrafish Brain

Morehouse College (Georgia)

Preceptor: Dr. Marina Venero-Galanternik, Dr. Brant Weinstein

AM-172. Keith Barnes

Assessing the Role of Rhoa/Rock Signaling in Regulating Cranial Vascular Integrity

University of Delaware (Delaware)

Preceptor: Dr. Laura Pillay

AM-173. Bess Bloomer

Examining the Interaction between Reported Weight Stigma and Food Intake Among Youth

Montgomery College (Maryland)

Preceptors: Dr. Jack Yanovski, Ms. Lisa Shank

AM-174. Leah Bregman

In vitro Analysis of Two ARMC5 Variants Identified in Hypertensive patients

Walter Johnson High School (Maryland) P

Preceptors: Dr. Annabel Berthon, Dr. Constantine Stratakis

AM-175. Sonia Bustos Barocio

Role of FlgO: Novel Small RNA Regulated by Flagella Sigma Factor

University of California, Los Angeles (California)

Preceptors: Dr. Gisela Storz, Dr. Sahar Melamed, Mr. Joshua M. Mills

AM-176. William Carter

Characterizing Adaptation in Olfactory Receptor Neurons

Winston Churchill High School (Maryland)

Preceptors: Mr. Brian Kim, Dr. Mark Stopfer

AM-177. Allison Chang

Developing the First Transgenic Moth to Identify Sensory Circuits

Irvington High School (California)

Preceptors: Dr. Alejandra Boronat-Garcia, Dr. Bo-Mi Song, Dr. Mark Stopfer

AM-178. Bryan D'Ostroph

Modeling Niemann-Pick Disease, Type C1, Using Neurons Derived from Human Induced Pluripotent Stem Cells

Washington and Lee University (Virginia)

Preceptors: Dr. Anika Prabhu, Dr. Forbes Porter

AM-179. Melanie Danso

The Design of a Database for the Genetic Properties of Plasmids Used in the Study of Eukaryotic Transposable Elements

Eleanor Roosevelt High School (Maryland)

Preceptors: Ms. Angela Atwood-Moore, Dr. Henry Levin

AM-180. Delyar Delavari

Examining the Practice Effect during the Go/No-go Task through Functional Near-infrared Spectroscopy

Thomas Wootton high school (Maryland)

Preceptors: Dr. Amir Gandjbakhche, Ms. Emma Condy

AM-181. Sanyukta Deshmukh

Investigating Placental Oxygenation Using Biophotonics Methods: From in vitro to in vivo

University of Maryland, College Park (Maryland)

Preceptors: Mrs. Hye Soo Chun, Dr. Afrouz Anderson, Dr. Siddharth Khare, Dr. Amir Gandjbakhche

AM-182. Samantha Edgar

Relationship between Quality of Life Measures and Disease Severity in Children with Cushing Disease

Cascadia Community College (Washington)

Preceptors: Dr. Margaret Keil, Dr. Constantine Stratakis

AM-183. Ben Eisler, Cameron Paranzino

Investigation of Hippocampal Inhibitory Interneurons Through Immunohistochemistry and Transgenic Labeling

Winston Churchill High School (Maryland), Walter Johnson High School (Maryland)

Preceptors: Dr. Ramesh Chittajallu, Mr. Tyler Ekins, Dr. Kenneth Pelkey, Dr. Chris McBain

AM-184. Noha Elzarea

Tyrosine Phosphatase IA-2 and IA-2beta Affects Mice Fertility through Pituitary Signature Gene

Eleanor Roosevelt High school (Maryland)

Preceptors: Dr. Aloa Lamarca Dams, Dr. Stanko Stojilkovic

AM-185. Ayia Evans

Examining the Mirror Neuron Network Using EEG and fNIRS

Simmons College (Massachusetts)

Preceptors: Ms. Aisling Casey, Dr. Helga De Oliveira Miguel, Dr. Amir Gandjbakhche

AM-186. Olufisola Famuyiwa

Effects of MC3R Activation by D-[Trp8]- γ MSH in Diet-induced Obesity

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jack Yanovski, Dr. Joo Yun Jun, Mr. Noah Levi

AM-187. Fadilah Farrin

ciA Mutation in CCDC53 in Disproportionate Short Stature with Noonan-Like Facies
Sherwood High School (Maryland)

Preceptors: Ms. Audrey Lee, Dr. Julian Lui, Dr. Youn Hee Jee

AM-188. Joshua Freeman

Sleep and Risk of Adverse Pregnancy Outcomes
University of Massachusetts, Amherst (Massachusetts)

Preceptor: Dr. Sunni Mumford

AM-189. Francesca Galli

Genetic Analysis of ARMC5 in 22 Different Nodules from a Patient with Macronodular Adrenal Hyperplasia

Georgetown Day School (District of Columbia)

Preceptors: Dr. Andrea Gutierrez Maria, Dr. Ludivine Drougat, Dr. Constantine A. Stratakis

AM-190. Stuti Ganatra

Characterization of Calbindin Expressing CA1 Pyramidal Cells in Lissencephaly
University of Maryland, College Park (Maryland)

Preceptors: Dr. James D'Amour, Dr. Chris McBain

AM-191. Mabel Gbenro

The Interaction Between DNA Polymerase Iota and Rad23A
Towson University (Maryland)

Preceptor: Dr. Nicholas Ashton

AM-192. Ashley Greenlee

An RNAi Screen to Find New Regulators of the GATOR Complex
Virginia Commonwealth University (Virginia)

Preceptors: Dr. Mary Lilly, Mr. Kuikwon Kim, Dr. Chun-Yuan Ting

AM-193. Daniel Gulko

Expression of PD-1, PD-L1, and CTLA-4 in Sporadic and Hereditary Pheochromocytomas (PHEOs) and Paragangliomas (PGLs)

Stevens Institute of Technology (New Jersey)

Preceptors: Dr. Karel Pacak, Dr. Veronika Caisova

AM-194. Elizabeth Holland

Are You What Your Mother Eats? Dietary Patterns during Pregnancy and Offspring Growth from Birth through Childhood

Colby College (Maine)

Preceptors: Dr. Cuilin Zhang, Dr. Stefanie Hinkle

AM-195. Clarice Hu

Screening for Genetic Causes of Central Precocious Puberty

Duke University (North Carolina)

Preceptors: Dr. Angela Delaney, Ms. Brooke Meader

AM-196. Christopher Hurt

A Zebrafish Brain Atlas in a Lightweight Web Browser Environment

Virginia Tech (Virginia)

Preceptor: Dr. Harold Burgess

AM-197. Joo Young Kang

Prospective Study of Cognitive Function in Children Before and After cure of Cushing Disease

College of William and Mary (Virginia)

Preceptors: Dr. Margaret Keil, Dr. Constantine Stratakis

AM-198. Ruchita Kothari, Gudrun Thorkelsdottir

Algorithms for Simulating and Modeling the Dynamics of Complex Vesicles

Johns Hopkins University (Maryland), Quince Orchard High School (Maryland)

Preceptors: Dr. Alexander Sodt, Dr. Kayla Sapp

AM-199. Jamil Lane

The Association of Motivation and Perceived Social Norms with Eating Behaviors in Emerging Adults

University of Rochester (New York)

Preceptors: Dr. Leah Lipsky, Dr. Tonja Nansel

AM-200. Katherine Lei

Genome-wide miRNA Analysis Identifies miRNA 483-3p as an Apoptotic Factor in Pheochromocytomas and Paragangliomas

Montgomery Blair High School (Maryland)

Preceptors: Dr. Ying Pang, Dr. Karel Pacak

AM-201. Adrian Lin

Investigating the Association of Sleep Efficiency and Glucose Trends in Healthy Children

Yale University (Connecticut)

Preceptors: Dr. Miranda Broadney, Ms. Nejla Ghane, Dr. Jack Yanovski

AM-202. Erica Lopez-Haz

Determination of the Localization of Two Putative Legionella pneumophila Secreted Effectors Important for Virulence in the Environmental Host Acanthamoeba castellanii

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Katherine Bonnington, Dr. Matthias Machner

AM-203. Naveen Natesh

Developing an in vitro System for the Study of Zebrafish Posterior Lateral Line Primordium Migration

University of California, Berkeley (California)

Preceptors: Dr. Damian Dalle Nogare, Dr. Ajay Chitnis

AM-204. Tuyet Nguyen

Optimization of Meningeal Tissue RNA Extraction by Ribosomal Tagging in the Zebrafish Brain

University of Maryland, College Park (Maryland)

Preceptors: Dr. Marina Venero Galanternik, Dr. Mayumi Miller, Dr. Amber Stratman, Dr. Brant Weinstein

AM-205. Brigdet Njeri

Exploring the Connectivity of Chandelier Cells Using Expansion Microscopy in Rainbow Mice

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Timothy Petros, Ms. Maria Isaac, Dr. Yajun Zhang

AM-206. Jacob Olondo Kuba

Investigating the Interaction between the Small Protein AcrZ and the Membrane Protein AcrB

Montgomery College (Maryland)

Preceptors: Ms. Leana Ramos, Dr. Mona Orr, Dr. Gisela Storz

AM-207. Maureen Onyebuchukwu

The Effects of Interrupting Sedentary Behavior on Glucose Metabolism (Boys Verses Girls)

High Point High School (Maryland)

Preceptor: Dr. Miranda Broadney

AM-208. Jennifer Osborne

Evaluating FreeWalkScan Software for Detection of Gait Abnormalities in a Mouse Model of ALS

Brown University (Rhode Island)

Preceptors: Ms. Claire Le Pichon, Mr. Jacob Gluski

AM-209. Elizabeth Pogrebniak

Associations between Changes in Inflammation and Changes in Markers of Metabolic Health in Adults with Obesity

Eastern Virginia Medical School (Virginia)

Preceptors: Dr. Jack Yanovski, Dr. Andrew Demidowich, Mr. Jordan Levine

AM-210. Eliana Ramirez

Identifying Amino Acid Changes in Drosophila Mutants

Mount Holyoke College (Massachusetts)

Preceptors: Dr. Judith Kassis, Dr. Yuzhong Cheng

AM-211. Chunghwan Ro

Finding a SpoT Partner Protein: Screening for Interactions That May Alter SpoT Synthetase/Hydrolase Balance Using a Conjugable Library

Northern Virginia Community College (Virginia)

Preceptors: Dr. Llorenç Fernàndez Coll, Dr. Mike Cashel, Dr. Krishma Tailor

AM-212. Maya Robnett

Effect of an Enriched Environment on Mouse Oligodendrocytes

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. R Douglas Fields

AM-213. William Rosencrans

Investigating the Effect of Steroid and Cholesterol-like Compounds on Mitochondrial Membrane Properties

Colgate University (New York)

Preceptors: Dr. Maria Queralt-Martin, Dr. Tatiana Rostovseva, Dr. Sergey Bezrukov

AM-214. Anika Schipma

Analysis of Oligodendrocyte Proliferation and Survival in an in vitro Model of Gulf War Illness

Sidwell Friends School (District of Columbia)

Preceptor: Dr. Douglas Fields

AM-215. Carúmey Stevens

Examining Race as a Moderator of the Relationship between Psychological Stress and Disordered Eating in Youth

Cornell University (New York)

Preceptors: Dr. Jack Yanovski, Ms. Lisa Shank

AM-216. Madison Stevens

Developing a Standardized Brain Atlas for an Insect Model System, the Locust

Cornell University (New York)

Preceptors: Mr. Brian Kim, Dr. Alejandra Boronat-Garcia, Dr. Mark Stopfer

AM-217. Samuel Teshome

Probing the Role of Yeast eIF1 N-terminal Tail in Start Codon Recognition

Montgomery Blair High School (Maryland)

Preceptor: Dr. Jagpreet Nanda

AM-218. Andrew Tong

Multiple TREs Participate in Thyroid Hormone Regulation of FOXO3 Expression during Frog Metamorphosis

Thomas Sprigg Wootton High School (Maryland)

Preceptor: Dr. Liezhen Fu

AM-219. Harini Venkataganesh

Investigating the Lsd1 Phenotype by Flow Cytometry

University High School (California)

Preceptors: Dr. Paul Love, Dr. Liqi Li, Mr. Daniel Stamos

AM-220. Matthew Wyble

Screening for HTATSF1 Variants in Patients with Acromegaly and Gigantism

Georgetown Preparatory School (Maryland)

Preceptors: Dr. Giampaolo Trivellin, Dr. Constantine Stratakis

AM-221. Stefan Zukin

The Significance of Upstream Translation Initiation in S. cerevisiae

University of California, Berkeley (California)

Preceptors: Dr. Shardul Kulkarni, Dr. Jon Lorsch

National Institute on Deafness and Other Communication Disorders (NIDCD)

AM-222. Claire Cheng

The Effect of Whirlin Isoforms on the Efficacy of Inner Ear Gene Therapy in Whirlin Mutant Mice

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Wade Chien, Mr. Kevin Isgrig, Dr. Jianliang Zhu

AM-223. Isabel Dame

Immunohistochemical Analysis of Inputs to Medial Olivocochlear Neurons

Wheaton High School (Maryland)

Preceptors: Dr. Matt Fischl, Dr. Catherine Weisz

AM-224. Hannah Famili

Is Dizziness in Patients with Chiari Malformation Type I Caused by Vestibular Dysfunction?

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Carmen Brewer, Dr. Chris Zalewski

AM-225. Daniel Fong

The Effects of Epigenetic Modification on the Efficacy of Inner Ear Gene Therapy

Poolesville High School (Maryland)

Preceptors: Dr. Wade Chien, Mr. Kevin Isgrig

AM-226. Carla Griffiths

Quantification of DNA and mRNA in Single Molecule Fluorescent in situ Hybridization (smFISH)

Image Processing

University College London (Non-U.S.)

Preceptor: Dr. Michael Hoa

AM-227. Osama Hamdi

In vivo Spontaneous Calcium Activity Imaging of Zebrafish Hair Cells

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Qiuxiang Zhang, Dr. Katie Kindt

AM-228. YeonSoo (Kelly) Kim

Characterization of Pou4f1-positive Neurons in the Cochlear Spiral Ganglion

Colgate University (New York)

Preceptors: Dr. Matthew Kelley, Dr. Tessa Sanders

AM-229. Quynh-Van Nguyen

A Literature Review Exploring the Link Between Perceived Unfairness and Health Disparities

Virginia Polytechnic Institute and State University, (Virginia)

Preceptor: Dr. Jing Yu

AM-230. Alia Pederson

Serotonergic Modulation of Auditory Efferent Neurons

University of Texas at Austin (Texas)

Preceptor: Dr. Catherine Weisz

AM-231. Christina Takla

Utilization of Next Generation Sequencing to Identify Novel Genetic Variants in Families

Segregating Non-syndromic Hearing Loss

University of Maryland, College Park (Maryland)

Preceptors: Dr. Thomas Friedman, Ms. Rabia Faridi

National Institute of Dental and Craniofacial Research (NIDCR)

AM-232. Alia Alhomsy

Characterization of Bacterial Strains in the Murine Oral Microbiome in Health and Inflammatory Disease

George Mason University (Virginia)

Preceptor: Dr. Loreto Abusleme

AM-233. Sara Cadavid

Morphological Studies of Lymphatics in the Craniofacial Region

Columbia University College of Dental Medicine (New York)

Preceptor: Dr. Christopher Hogden

AM-234. Jamil Cherry

Dental Phenotyping of Biglycan and Fibromodulin Double Knockout Mice

Howard University College of Dentistry (District of Columbia)

Preceptors: Dr. Marian Young, Dr. Priyam Jani

AM-235. Noah DeNegre

Role of Neurotrophin 3 (NT3) in Matrix Production by Salivary Gland Myoepithelial Cells

Gateway Community College (Connecticut)

Preceptors: Dr. Alex Chibly, Dr. Matthew Hoffman

AM-236. Astoria DeTuncq

Exocrine Secretion Controls the Oral and Intestinal Microbiome in a Mouse Model of Sjögren's Syndrome: A Bioinformatic approach

Roseville Area High School/University of Minnesota Twin Cities (Minnesota)

Preceptors: Dr. Shmuel Muallem, Dr. Malini Ahuja, Mr. Ahmed Kabrah

AM-237. David Hacker

Identification and Mutagenesis of BAAV Transcytosis Domain

Sidwell Friends School (District of Columbia)

Preceptors: Dr. John Chiorini, Dr. Malini Ahuja, Ms. Ida Shinder, Dr. Maryam Khalaj

AM-238. Kervin Hyppolite

The STIM1 Regulator SARAF, Ca²⁺ Influx, and Acute Pancreatitis

Howard University College of Dentistry (District of Columbia)

Preceptors: Dr. Aran Son, Dr. Malini Ahuja, Dr. Woo Young Chung, Dr. Shmuel Muallem

AM-239. Sheaneela Kabir

Modulating Iodine Transport to Prevent Radioactive Iodine-induced Salivary Gland Dysfunction

Marriotts Ridge High School (Maryland)

Preceptors: Dr. Drew Michael, Dr. Jay Chiorini, Dr. Blake Warner

AM-240. Katherine D. Le

Characterization of Krt14;Krt5+ Progenitor Cell Function of Adult Female Salivary Gland Using Non-adherent Culture

University of California, San Francisco School of Dentistry (California)

Preceptors: Dr. Belinda R. Hauser, Dr. Matthew P. Hoffman

AM-241. Brian Rhim

Immortalization of Primary Cells to Understand Salivary Gland Physiology

Springbrook High School (Maryland)

Preceptors: Dr. John Chiorini, Dr. Youngmi Ji

AM-242. Hulya Taner

Understanding the Role of Fibrin in Inducing Inflammation through Activation of Leukocytes

University of North Carolina Wilmington (North Carolina)

Preceptors: Dr. Lakmali Silva, Dr. Thomas Bugge

AM-243. Matteo Torquati

Molecular Understanding of Oral Manifestations in Loeys-Dietz Syndrome

University of Chicago Laboratory Schools (Illinois)

Preceptors: Dr. Janice Lee, Mr. Olivier Duverger, Mrs. Natasha Curry

AM-244. Nancy Trang

DAMP Signaling in Oral Chronic GVHD

Howard University College of Dentistry (District of Columbia)

Preceptors: Dr. Jacqueline Mays, Dr. Ana Costa de Silva

National Institute on Minority Health and Health Disparities (NIMHD)

AM-245. Abel Amare

Using Inflammatory Correlates to Predict Type 2 Diabetes Mellitus in US Adults

George Washington University (District of Columbia)

Preceptor: Dr. Sharon Jackson

AM-246. Kathleen Dang

Meanings Associated with Smoking and Smoking Cessation: A Focus Group Study on Young Adult Smokers

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Kelvin Choi, Dr. Julia Chen

AM-247. Danielle Duarte

Side Effects, Quitting Efficacy, and Everything In Between: A Focus Group Study on Young Adult Smokers' Beliefs About Cessation Treatments

University of New Mexico (New Mexico)

Preceptor: Dr. Kelvin Choi

AM-248. Leah Orozco

Are Smoking Cessation Public Service Announcements Helping Young Adults Quit Smoking? A Focus Group Analysis among Young Adult Smokers

College of the Holy Cross (Massachusetts)

Preceptors: Dr. Julia Chen, Dr. Kelvin Choi

AM-249. Maria S. Ortiz

Satisfaction with Breast Cancer Care and Information among Urban and Rural Spanish-speaking Latinas

University of Washington (Washington)

Preceptor: Dr. Anna Nápoles

AM-250. Alyssa Watson

Testing a Community-based Stress Management Program to Prevent Depression among Latinos:

Mentes Positivas en Acción

Cornell University (New York)

Preceptors: Dr. Anna Nápoles, Dr. Rosa maria Sternberg

National Institute of Neurological Disorders and Stroke (NINDS)

AM-251. Mary Alice Allnutt

Chromosomally Integrated Human Herpesvirus-6 (ciHHV-6): Reactivation in Peripheral Blood

Lymphocytes

Elon University (North Carolina)

Preceptors: Dr. Steve Jacobson, Dr. Emily Leibovitch, Mr. Cheng-Te (Major) Lin

AM-252. Rucha Alur

Effects of Methodological Decisions on TMS Data Analysis in Clinical Trials

Princeton University (New Jersey)

Preceptors: Dr. William Theodore, Ms. Rachel Rolinski

AM-253. Jefferson Ascencio

Imaging GABA-A Receptors on Dopamine Cell Axons

Gonzaga College High School (District of Columbia)

Preceptors: Dr. Paul Kramer, Dr. Zayd Khaliq

AM-254. Anna Bagnell

Generating 3D Organoids from Human iPSCs

University of South Carolina (South Carolina)

Preceptors: Dr. David Wang, Ms. Marie Medynets

AM-255. Jamal Bailey

Longitudinal Study of Pain and Functional Abilities in Chiari 1 Malformation and Syringomyelia

Bowie State University (Maryland)

Preceptors: Ms. Jessica Mack, Dr. Fredric Cantor, Dr. John Heiss

AM-256. Natalia Batchenkova

Regulation of Neurofilament H Phosphorylation by the Endoplasmic Reticulum Proteins Atlastin-1 and REEP1

University of Arkansas (Arkansas)

Preceptors: Dr. Peng-Peng Zhu, Dr. Craig Blackstone

AM-257. Tzipporah Bergman

The Minor Isoform of Camk2a

Lander College for Women (New York)

Preceptors: Dr. Ariel Levine, Ms. Li Li, Dr. anupama sathyamurthy, Ms. Courtney Dobrott

AM-258. Alexander Billups

Understanding the Role of TP53 in Conversion of Activated to Resting state microglia

Gonzaga College High School (District of Columbia)

M

Preceptors: Dr. Sharda Yadav, Dr. Manju Bhaskar

AM-259. Stacey Bloom, Carmen-Maria Garcia

The Receptivity of Different Drugs through Medigel Delivery in Mice

Universtiy of Marlyand, College Park (Maryland), Florida Atlantic University (Florida)

Preceptor: Dr. Brian Wilgenburg

AM-260. Skyler Bordeaux

Analysis of NINDS Clinical Neurology Consult Services

Fort Lewis College (Colorado)

Preceptors: Dr. Omar Khan, Mr. Wyatt Bensken

AM-261. Farrell Brown

Using Apparent Diffusion Coefficient Images to Quantify Core Lesion Evolution in Acute Stroke Patients

University of Connecticut (Connecticut)

Preceptors: Dr. Marie Luby, Dr. Lawrence Latour

AM-262. Ethan Cheng

Characterization of Isoform-specific Cellular Distribution in Drosophila Lipophorin Receptors

University of Maryland, College Park (Maryland)

Preceptors: Dr. Quan Yuan, Dr. Jun Yin, Dr. Chengyu Sheng

AM-263. Varuna Chopra

Mapping Circuit Connections of Pre-Bötzing Complex Neurons in Adult Transgenic Rats

Northern Virginia Community College- Loudoun (Virginia)

Preceptors: Dr. Shahriar Sheikhabaehi, Dr. Jeffrey Smith

AM-264. Caleb Colbert

The Role of Demographics in Post-traumatic Headaches after Sustaining a Traumatic Brain Injury

University of Maryland, College Park (Maryland)

Preceptor: Dr. Lawrence Latour

AM-265. JoAnne Compo

Identification of Genetic Factors That Modify the Onset of Spinal and Bulbar Muscular Atrophy

University of Washington (Washington)

Preceptors: Mrs. Angela Kokkinis, Dr. Christopher Grunseich, Dr. Kenneth Fischbeck

AM-266. Frances Dean

Ways of Protecting Research Subjects with Culture-related Vulnerabilities

University of Georgia (Georgia)

Preceptor: Dr. Barbara Karp

AM-267. Melanie Delgado

Immune Response to Epstein-Barr virus (EBV) in Healthy Volunteers and Multiple Sclerosis Patients

American University (District of Columbia)

Preceptors: Dr. Steven Jacobson, Dr. Emily Leibovitch, Dr. Maria Chiara Monaco

AM-268. Gifty Dominah

Defining the Expression of Programmed Death-Ligand 2 in High Grade Glioma Tumor Microenvironment

George Washington School of Medicine and Health Sciences (District of Columbia)

Preceptor: Dr. Edjah Nduom

AM-269. Tsemacha Dubuche

Measure of Spinal Cord Atrophy in Chronic Progressive Neurological Diseases

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Steven Jacobson, Dr. Shila Azodi, Dr. Govind Bhagavatheeshwaran

AM-270. David Espinoza

Efficient Generation of Human Touch Receptors by Transcriptional Programming in Neural Crest Cells

Johns Hopkins University (Maryland)

Preceptors: Mr. Alec Nickolls, Ms. Michelle Lee, Dr. Carsten Bönnemann

AM-271. Anah Esquerio

Epilepsy

University of California, San Diego (California)

Preceptors: Dr. William Theodore, Dr. Edythe Wiggs

AM-272. Zeki Factor

Modeling the Fronto-Parietal Network: How Prism Adaptation Shapes Intra-hemispheric Functional Connectivity

State University of New York at Binghamton (New York)

Preceptors: Dr. Selene Schintu, Dr. Eric Wassermann

AM-273. Francia Fang

Development of an Inducible IDH1 R132H Mutation Cell Model for the Study of Glioma Pathogenesis

Duke University (North Carolina)

Preceptors: Dr. Herui Wang, Dr. Zhengping Zhuang, Dr. John Heiss, Dr. Mark Gilbert

AM-274. Cynthia Fioriti

Examining the Effects of Targeted Hippocampal Stimulation on Memory System Interactions: A Structural Equation Modeling Approach

Catholic University of America (District of Columbia)

Preceptors: Dr. Michael Freedberg, Mr. Jack Reeves, Dr. Eric Wassermann

AM-275. Saul Flores

Ouabain Treatment Results in Reduced Expression of HERV-K Transcripts Due to an Increase in Methylation

University of Maryland, College Park (Maryland)

Preceptors: Dr. Avindra Nath, Dr. Tara Doucet-O'Hare

AM-276. R'ay Fodor

Exploring the Impact of Upregulated cAMP Signaling on Spinal Plasticity

McGill University (Non-U.S.)

Preceptors: Dr. Ariel Levine, Ms. Courtney Dobrott, Ms. Li Li, Ms. Kaya Matson

AM-277. Divya Ganesan

Assessing the Relationship between Trauma and Amygdala and Hippocampus Volumes in Patients with Functional Movement Disorder

Brandeis University (Massachusetts)

Preceptors: Dr. Sanaz Attaripour, Dr. Mark Hallett

AM-278. Arjun Ganga

Comparison of MRI Markers of Demyelination with Histopathology in Multiple Sclerosis

Brown University (Rhode Island)

Preceptors: Dr. Erin Beck, Dr. Hadar Kolb

AM-279. Carmen-María García, Stacey Bloom

Regulation of Chlorine Concentration in Water of Lab Rodents

Florida Atlantic University (Florida), University of Maryland, College Park (Maryland)

Preceptors: Dr. LaTesa Hughes, Mr. Terrence Fultz

AM-280. Catriona Geddes

Are Clinicians Classifying Traumatic Brain Injuries Accurately?

University of Georgia (Georgia)

Preceptors: Mrs. Mimi Hayward, Dr. Leonardo Cohen

AM-281. Matt Greco

Optimizing Conditions in the Biochemical Study of Trio to Better Understand its Role in Synaptic Dysfunction in Disease

University of Delaware (Delaware)

Preceptors: Mr. Jeremiah Paskus, Dr. Katherine Roche

AM-282. Camille Hanes

Using Live Imaging to Study the Role of the Abl Pathway in Axon Growth
College of Wooster (Ohio)

Preceptors: Dr. Hsiao Yu Fang, Dr. Edward Giniger

AM-283. Mahin Hossain

The Role of Iron in Inflammatory Demyelination: Combined Studies Using MRI and Histopathology

Ohio State University (Ohio)

Preceptors: Mr. Nathanael Lee, Dr. Daniel Reich

AM-284. Eric Hsu

Developing Molecular Contrast Agents Targeting Cleaved Caspase GFAP for MRI
Washington University in St. Louis (Missouri)

Preceptors: Dr. David Brody, Mr. Thomas Esparza, Dr. Simone Mastrogiacomio

AM-285. Randall Hughes

Identifying EBV and HHV-6 in Multiple Sclerosis Patients' and Non-Disease Donors' Peripheral Blood Mononuclear Cells (PBMC) and Lymphocyte Subtypes

Fort Lewis College (Colorado)

Preceptors: Dr. Maria Monaco, Dr. Steven Jacobson

AM-286. Rebecca Hutman

Multiple Catechols in Human Plasma after Coffee Drinking
Bnos Yisroel of Baltimore (Maryland)

Preceptors: Mrs. Patricia Sullivan, Dr. David Goldstein

AM-287. Laura Inbody

Investigating the Role of GRK2 in Dopamine Receptor Signaling Using Selective GRK2 Inhibitors
University of Findlay (Ohio)

Preceptors: Dr. David Sibley, Dr. Benjamin Free, Dr. Marta Sanchez Soto

AM-288. Sanjna Iyengar

Relating White Matter Integrity to Motor Skill Acquisition in Healthy Adults
University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Sara Hussain, Dr. Leonardo Cohen

AM-289. Amrita Iyer

Alpha-Synuclein Deposition in Sympathetic Nerves Identifies Lewy Body Forms of Neurogenic Orthostatic Hypotension

Yale University (Connecticut)

Preceptors: Dr. Risa Isonaka, Dr. David Goldstein

AM-290. Catherine Jean

Neuroprotective Properties of Statins

University of Maryland, College Park (Maryland)

Preceptor: Dr. Joseph Steiner

AM-291. Matthew Jiang, Thomas Osterholt, Brice Calco, Ashley Williams

Development of Electrophysiological Methods to Explore Fatigue

Geisel School of Medicine at Dartmouth (New Hampshire), Truman State University (Missouri), Kalamazoo College (Michigan), Howard University (District of Columbia)

Preceptors: Dr. Traian Popa, Dr. Felipe Agustin Vial Undurraga, Dr. Mark Hallett

AM-292. Rachel Keith

Effects of Three NMDAR C-termini Rare Variants on Neuronal Spine Density and Protein-Protein Interactions

George Mason University (Virginia)

Preceptors: Dr. Katherine Roche, Dr. Marta Vieira

AM-293. Asha Krishnakumar

Thyroxin Beta 2 Receptor Knockout Causes for Red Blindness in Zebrafish

University of Virginia (Virginia)

Preceptor: Dr. Ralph Nelson

AM-294. Daniel Lee

Development of a Dynamic SILAC Approach to Study Protein Turnover in Human iPSC-Neurons

Cornell University (New York)

Preceptors: Dr. Ling Hao, Dr. Michael Ward

AM-295. Alexander Lehr

Rescuing Neuroligin 4Y Surface Expression through Single Amino Acid Swaps from Neuroligin 4X

Ursinus College (Pennsylvania)

Preceptors: Mr. Thien Nguyen, Dr. Katherine Roche

AM-296. Liam Lehr

Functional Genomics Screening Tool Kit

University of Maryland, College Park (Maryland)

Preceptor: Mr. Gil Kanfer

AM-297. Ryan Li

Parkinson's Disease: Predicting the Outcome of Deep Brain Stimulation with Genomics

Walton High School (Georgia)

Preceptors: Dr. Debra Ehrlich, Mr. Connor Edsall, Dr. Michael Nalls, Ms. Sarah Ahmed

AM-298. Tianming Li

A Novel Molecule Controls the Synaptic Redistribution of Homer1 in Hippocampal Neurons

University of Maryland, College Park (Maryland)

Preceptors: Dr. Wenyan Han, Dr. Wei Lu

AM-299. Taha Lodhi

Inflammatory Cytokines and CTL Engagement Drive Cerebrovascular Calcium Flux and Dysfunction in Experimental Cerebral Malaria

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Ms. Monica Manglani, Dr. Dorian McGavern

AM-300. Anthony Maddox

Interactive Game to Screen for Neurological Disorders Using JCreator

Gonzaga College High School (District of Columbia)

Preceptors: Dr. Amarendra Yavatkar, Dr. Kory Johnson

AM-301. Melika Marani

Assessing the Localization of C19orf12 and Its Role in Lipid Metabolism

University of Maryland, College Park (Maryland)

Preceptors: Dr. Derek Narendra, Dr. Xiaoping Huang

AM-302. ReLiza McGinnis

Longitudinal Follow Up of Cardiac Sympathetic Neuro-immaging in Patients with Synucleinopathies

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. David Goldstein

AM-303. Summer Montileaux

Functional Association of ITRIP (DANGER) with DAPK1 in Cultured Rrat Cortical Neurons

Susquehanna University (Pennsylvania)

Preceptors: Dr. Manju Bhaskar, Dr. Sharda Yadav

AM-304. Rachel Movsas

Effects of Selective Androgen Receptor Modulators in an Induced Motor Neuron Model of Spinal and Bulbar Muscular Atrophy (SBMA)

University of Rhode Island College of Pharmacy (Rhode Island)

Preceptors: Mr. Ryan Prestil, Dr. Kenneth Fischbeck

AM-305. Matthew Nalls

Allele Specific Knockdown of a Novel Heterozygous Mutation Causing Childhood ALS as a Feasible Therapeutic Approach

University of Maryland, College Park (Maryland)

Preceptors: Dr. Payam Mohassel, Mr. Alec Nickolls, Dr. Carsten Bonnemann

AM-306. Ndeye Marieme Ndiaye

Diffusion Tensor Imaging for Optic Radiation Visualization in Patients with Temporal Lobe Epilepsy

Johns Hopkins University (Maryland)

Preceptors: Dr. Sara Inati, Ms. Kathryn Snyder

AM-307. Charlie Nelson

Post-operative Outcomes following Resection of Atypical Neurofibromas in Neurofibromatosis Type 1

Northeast Ohio Medical University (Ohio)

Preceptor: Dr. Prashant Chittiboina

AM-308. Matthew Nelson

Structural Modeling of the Newly Discovered FTD-ALS Protein, Annexin A11

University of Michigan (Michigan)

Preceptors: Dr. Michael Ward, Dr. Lucy Forrest

AM-309. Diana Nwokoye

The Characterization and Genetic Engineering of HypaCas9 and hNIL Factors to Promote Efficient Gene Editing and Motor Neuron Differentiation in an Induced Pluripotent Stem Cell Line

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Kurt Fischbeck, Dr. Christopher Grunseich, Dr. Michael Ward, Ms. Ester Masti

AM-310. Parvathy Panakal

Neuroprotective Effects of Resveratrol Analogs

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Joe Steiner

AM-311. Aaron Park

Characterizing PSD-95 at the Postsynaptic Density Using Recombinant Protein Synthesis and Electron Microscopy

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Xiaobing Chen, Dr. Thomas Reese

AM-312. Nicholas Pasternack

Comparison of the in vivo Electrophysiological Characteristics of the Awake and Behaving Hemiparkinsonian Mouse and Hemiparkinsonian Rat Models

Virginia Commonwealth University School of Medicine (Virginia)

Preceptors: Dr. Alexander Weiss, Mr. Michael Preston, Dr. Judith Walters

AM-313. Anusha Patgiri

Development of a Marmoset Colony Database Based on Pedigree Analysis

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Jung Eun Park, Dr. Afonso Silva

AM-314. Kara Quaid

Predicting Disability Post Stroke via Clinical Factors

Case Western Reserve University (Ohio)

Preceptors: Mr. Amarendra Yavatkar, Dr. Kory Johnson, Dr. Yang Fann

AM-315. Cyrus Rastegar

Silencing of Overlapping Genes Mediated by HERV-K Causes Neurodegeneration: Implications for Amyotrophic Lateral Sclerosis.

Johns Hopkins University (Maryland)

Preceptors: Dr. Marta Garcia Montojo, Dr. Avindra Nath

AM-316. Kaushik Ravipati

A Phase I Study of the Intrathecal Administration of Resiniferatoxin for Treating Severe Refractory Pain Associated with Advanced Cancer

Florida International University Herbert Wertheim College of Medicine (Florida)

Preceptors: Dr. John Heiss, Ms. Averie Kuek, Mrs. Caroline Webb, Dr. Michael Iadarola

AM-317. Maria Jose Rios

Missed Diagnosis: Symptomatic and Asymptomatic Carriers

Eastern Washington University (Washington)

Preceptors: Dr. Wendy Henderson, Ms. Shavonne Pocock, Ms. Meghan Murray

AM-318. Lillian Rios-Brady

Detection of Newly Synthesized Membrane Proteins in Isolated Squid Axoplasm

Coastal Carolina University (South Carolina)

Preceptors: Dr. Pablo Miranda Fernandez, Dr. Miguel Holmgren

AM-319. Evan Rubinovitz

Convolutional Neural Network Based Model for Stroke Recovery Prediction

Stony Brook University (New York)

Preceptors: Mr. Amar Yavatkar, Dr. Kory Johnson, Dr. Yang Fann

AM-320. Gabriel Sarch, Pavan Ravindra

Computational Modeling of Respiratory Neural Circuits

University of Rochester (New York), University of Maryland, College Park (Maryland)

Preceptor: Dr. Jeffrey Smith

AM-321. Devin Scott

The Neuroprotective Qualities of Flavonoids

Spelman College (Georgia)

Preceptor: Dr. Joe Steiner

AM-322. Natasha Scott

Transient Elastography: A Health Promotion Tool

Heritage University (Washington)

Preceptors: Dr. Wendy Henderson, Ms. Shavonne Pocock

AM-323. Christopher Semancik, Ethan Smith-Cohen

Investigations into the Development of D2 Dopamine Receptor Antagonists as Cancer Therapeutics

Georgetown Preparatory School (Maryland), Richard Montgomery High School (Maryland)

Preceptors: Dr. David Sibley, Dr. Benjamin Free, Mrs. Megan Donegan

AM-324. Jeremy Shapiro

Network Properties of Neural Connections on the Micro Scale

Washington University in St. Louis (Missouri)

Preceptors: Dr. Julio Chapeton, Dr. Kareem Zaghloul

AM-325. Christine Shen

The Influence of SynGAP on the Structural Integrity of the Postsynaptic Density

University of Maryland, College Park (Maryland)

Preceptors: Dr. Xiaobing Chen, Ms. Christine Winters, Ms. Virginia Crocker, Dr. Thomas Reese

AM-326. Emily Shorb

A Case of Atypical Parkinsonian Syndrome-like Disorder with Ataxia

Virginia Tech (Virginia)

Preceptor: Dr. Marsha Merrill

AM-327. Alexander Silva

Inflammatory Aging Impairs the Myeloid Sentinels at the CNS Borders

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Rejane Rua, Dr. Dorian McGavern

AM-328. Catherine Squirewell

The Effects of Anti-epileptic Drugs on Sleep Spindles

Howard University (District of Columbia)

Preceptors: Mr. Wyatt Bensken, Dr. Omar Khan

AM-329. Tejas Srinivasan

Assessing Neuroscience Lab Training Environments for Physician-Scientists

Rancho Bernardo High School (California)

Preceptors: Dr. Omar Khan, Mr. Wyatt Bensken

AM-330. Mitchell Sun

Characteristics of Compound 36 in Modulating Hypoxia Response in Cancer Cells

University of Illinois at Chicago (Illinois)

Preceptors: Dr. Qi Song, Dr. Mark Gilbert, Dr. Zhengping Zhuang, Dr. John Heiss

AM-331. Parisorn Thepmankorn

Modeling Spinal and Bulbar Muscular Atrophy Using iPSC-derived Motor Neurons

College of New Jersey (New Jersey)

Preceptors: Mrs. Naemeh Pourshafie, Dr. Kenneth Fischbeck

AM-332. Alice Turnham

Computational Analysis of Propagating Action Potential in Branched Dopaminergic Cell Axons

Montgomery Blair Highschool (Maryland)

Preceptors: Dr. Zayd Khaliq, Dr. Paul Kramer, Dr. Rebekah Evans

AM-333. Deionna Vigil

Approaches to Increasing Native American Enrollment in Clinical Studies at the NIH

Fort Lewis College (Colorado)

Preceptors: Dr. Barbara Karp, Dr. Pamela Kearney

AM-334. Anjali Vyas

TP5, a Peptide Inhibitor of Aberrant and Hyperactive CDK5/p25: A Novel Therapeutic Approach Targeting Glioblastoma

University of Maryland, College Park (Maryland)

Preceptors: Dr. Emeline Tabouret, Dr. Niranjana Amin

National Eye Institute (NEI)

LCH-1. Chris Acha

The Role of NOX4 in RPE Cell Migration

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kapil Bharti, Dr. Karla Barbosa, Mr. Justin Chang

LCH-2. Priya Agrawal

Expression of the Atypical Chemokine Receptor 1 (Ackr1) in the Retina

University of Maryland, College Park (Maryland)

Preceptors: Dr. Laura Campello, Dr. Samantha Papal, Dr. Anand Swaroop

LCH-3. Mariya Ahmed

CSDE1: A Critical Determinant in Eye and Brain Development

Marriotts Ridge High School (Maryland)

Preceptors: Dr. Robert Hufnagel, Mr. Jimmy Liu

LCH-4. Enat Ayele

Characterization of Extracellular Vesicles Generated by ARPE-19 Cells during Differentiation

Montgomery Blair High School (Maryland)

Preceptors: Mr. Todd Duncan, Dr. William Samuel, Dr. R. Krishnan Kutty, Dr. T. Michael Redmond

LCH-5. Kavya Bhattiprolu

Clinical and Genetic Characteristics of Patients with Albinism at the National Eye Institute

Winston Churchill High School (Maryland)

Preceptors: Ms. Amy Turriff, Dr. Robert Hufnagel, Ms. Keyla Bordonada

LCH-6. Hannah Bush

Improving a Neural Network's Accuracy and Precision for High Content Shape Metrics Based Drug Screen on Retinal Pigment Epithelium

Winston Churchill High School (Maryland)

Preceptors: Mr. Nathan Hotaling, Dr. Laryssa Huryn

LCH-7. Justin Chang

NOX4 Mediates Mechanical Injury-induced Epithelial-to-Mesenchymal Transition in Retinal Pigment Epithelium

Virginia Commonwealth University School of Medicine (Virginia)

Preceptors: Dr. Kapil Bharti, Dr. Karla Barbosa

LCH-8. Erin Cullather

In vivo and in vitro Evaluation of Virally-delivered miRNA on the Neuroprotection of Retinal Ganglion Cells and the Regeneration of Their Axons

University of New Hampshire (New Hampshire)

Preceptors: Dr. Ben Mead, Dr. Stanislav Tomarev

LCH-9. Natalia Diaz Torres

Mutations in PMSD5, a Proteasomal non-ATPase Subunit, Result in Coloboma and Vertebral Defects

University of Puerto Rico School of Medicine (Puerto Rico)

Preceptors: Dr. Vijay Kalaskar, Dr. Tiziana Cogliati, Dr. Brian Brooks

LCH-10. Michelle Du

Investigating Polarization of Cone Connecting Cilia in the Ground Squirrel

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Wei Li, Dr. John Ball, Dr. Chen Shan, Dr. Juan Angueyra-Aristizabal

LCH-11. Dmitry Gasnikov

Docking of Tyrosinase Related Proteins

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Yuri Sergeev

LCH-12. Fatima Gomez

Role of aa108-125 Amphipathic Helix Residues in C112 Palmitoylation of RPE65 Retinol Isomerase

White Swan High School (Washington)

Preceptors: Dr. Sheetal Uppal, Dr. Michael Redmond

LCH-13. Takerra Johnson

Intercellular Communication via Extracellular Vesicles Derived from Retinal Pigment Epithelial Cells

Morehouse School of Medicine (Georgia)

Preceptor: Dr. Robert Hufnagel

LCH-14. Andrew Kalra

Evaluating Phosphorylation Levels of p38 Kinase in CD8 T Cells in Uveitis by Flow Cytometry in Whole Blood

University of California, Los Angeles (California)

Preceptor: Dr. Benjamin Chaigne-Delalande

LCH-15. Hima Konduru

Metabolic Changes Associated with Overactive Inflammasome Function

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kumarkrishna Raychaudhuri, Dr. Rachel Caspi

LCH-16. Jennifer Liao

Analysis of Morphological and Distributional Alterations in Aging Microglia

Penn State College of Medicine (Pennsylvania)

Preceptors: Dr. Wai Wong, Dr. Lian Zhao, Dr. Jorge Cueva-Vargas

LCH-17. Nyusha Lin

Molecular and Morphological Characterization of iPS Cell-derived Retinal Pigment Epithelium Used for 3D Organellar Mapping of Cells

Sidwell Friends School (District of Columbia)

Preceptors: Dr. Kapil Bharti, Mr. Davide Ortolan

LCH-18. Nidhi Mathew

The Role of IL-34 in the Pathogenesis of Autoimmune Uveitis

University of Maryland, College Park (Maryland)

Preceptor: Dr. Mary Mattapallil

LCH-19. Adriana Mendez

Lygodactylus picturatus as a Model Organism for Foveal Development

University of Medicine and Health Sciences (Non-U.S.)

Preceptors: Dr. Temesgen Fufa, Dr. Robert Hufnagel

LCH-20. Luke Nelson

ABCA4 Subcellular Localization in iPSC-derived RPE Cells

Columbia University (New York)

Preceptors: Dr. Kapil Bharti, Dr. Mitra Farnoodian

LCH-21. Tamir Odzorig

Development of a Robust, Transferable, and Reproducible Protocol for the Bioprinting of Vascularized Tissue

Walter Johnson High School (Maryland)

Preceptors: Dr. Minjae Song, Dr. Kapil Bharti, Mr. Chris Hampton, Mr. Russell Quinn

LCH-22. Oluchi Ogbonna

Retinal s100b Regulates Ocular Autoimmune Inflammation

Bryn Mawr School (Maryland)

Preceptors: Dr. Charles Egwuagu, Dr. Cheng-Rong Yu

LCH-23. Nicole Pannullo

Investigating the Mechanism of RPE65

Rochester Institute of Technology (New York)

Preceptors: Dr. Eugenia Poliakov, Dr. Michael Redmond

LCH-24. Kavya Parekh, Anne Warburton

ATAC-Seq as a Research Tool to Understand Chromosomal Architecture in Disease Models

Thomas Jefferson High School for Science and Technology (Virginia), Stone Ridge School (Maryland)

Preceptors: Dr. Ramakrishna Alur, Dr. Tiziana Cogliati, Dr. Brian Brooks

LCH-25. Brian Peng

Quantitative and Topographical Relationship between ipRGs and S-Cones

Farmington High School (Connecticut)

Preceptors: Dr. Wei Li, Dr. Francisco Manuel Nadal-Nicolas

LCH-26. Nia Rudolph

A Quantification of Horizontal Cell Connections in Zebrafish

Tulane University (Louisiana)

Preceptors: Dr. Juan Angueyra-Aristizabal, Dr. Wei Li

LCH-27. Tishina Tittley

Optimization of Liposome-binding Assays to Assess Specificity and Activity of RPE65-Membrane Interaction

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Sheetal Uppal, Dr. T. Michael Redmond

LCH-28. Shenandoa Tote

Analysis Of AMPA-induced Retinal Cell Death In Wild-type And VWC2L Knockout Zebrafish

University of Miami (Florida)

Preceptors: Dr. Naoki Nakaya, Dr. Stanislav Tomarev

LCH-29. Elizabeth Geena Woo

Visualization of Genetic Variants from Large Patient Cohorts toward Pathogenicity Assessment and Clinical Interpretation

Brown University (Rhode Island)

Preceptors: Dr. Robert Hufnagel, Dr. Bin Guan, Dr. David McGaughey

LCH-30. Neo Zhao

Zebularine as a Possible Enhancer for CRISPRa Gene Regulation Effects

Montgomery Blair High School (Maryland)

Preceptors: Dr. Lijin Dong, Dr. Guangpu Shi

LCH-31. Jennifer Zhu

Postnatal Development of the Cone-dominated Ground Squirrel Retina

Winston Churchill High School (Maryland)

Preceptors: Dr. Vincent Kunze, Dr. Wei Li

National Heart, Lung, and Blood Institute (NHLBI)

LCH-32. Malhaar Agrawal

Through Her Lens: Environmental Views' Impact on African-American Women's Physical Activity AND Obesity

Horace Mann (New York)

Preceptors: Dr. Tiffany Powell-Wiley, Dr. Nicole Redmond

LCH-33. Elise Ahn

Regulation of AMPK by Hsp90alpha through AXIN

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sung Jun Park, Dr. Shutong Yang, Dr. Alexandra Brown, Dr. Jay Chung

LCH-34. Carolina Alvarez

Correlation between Local Electric Field and RF-induced Heating on Guidewires under MRI

Northwestern University (Illinois)

Preceptors: Dr. Ozgur Kocaturk, Ms. Burcu Basar

LCH-35. Kenneth Aviles Fernandez

Role of Four and a Half LIM Domain Proteins FHL2 and FHL3 in Myotube Differentiation and Mechanosensing

Universidad Central del Caribe School of Medicine (Puerto Rico)
Preceptor: Dr. Ana Pasapera-Limon

LCH-36. Charles Bond

Investigating Unconventional Myosin Mechanics via Single-molecule Fluorescence Studies
University of Maryland, College Park (Maryland)
Preceptors: Dr. James Sellers, Dr. Yasuharu Takagi, Dr. Neil Billington

LCH-37. Paul Boyd

Free Viruses or Vesicles: What Is the Optimal Mode of Transmission?
Saint Bonaventure University (New York)
Preceptors: Dr. Sourish Ghosh, Dr. Marianita Santiana, Mr. Brian Ho, Dr. Nihal Altan-Bonnet

LCH-38. Ikia Celestine

Correlation between Lung Water Measurement by MRI and Pulmonary Wedge Pressure
University of Mississippi Medical Center (Mississippi)
Preceptors: Dr. Robert Lederman, Dr. Daniel Herzka, Ms. Delaney McGuirt, Dr. Toby Rogers

LCH-39. Monica Choi

Mobile Health Interventions for Child and Adolescent Obesity
Columbia University (New York)
Preceptor: Dr. Dong-Yun Kim

LCH-40. Michael Corrado

Synthesis of a Novel Inulin-based Fiber for Binding Bile Salts
American University (District of Columbia)
Preceptors: Dr. Alan Remaley, Dr. Denis Sviridov, Dr. Anna Wolska

LCH-41. Gauri Dandi, Nashwan Farooque

Predictors of Hard Outcomes in the TOPCAT Trial Identified by Machine Learning
Walt Whitman High School (Maryland), Virginia Commonwealth University (Virginia)
Preceptor: Dr. Ahmed Hasan

LCH-42. Jessica DeJesus

Protein Profiling and Machine Learning to Discover Biomarkers for Premature Coronary Heart Disease in Hematopoietic Cell Transplant Survivors
Georgetown University (District of Columbia)
Preceptors: Dr. Xin Tian, Dr. Mino Battiwalla

LCH-43. Alisha Desai

Development and Validation of a Digital Immunoassay for Ultra-sensitive Detection of Corticotropin-releasing Factor (CRF) for Studies in Stress-related Vascular Inflammation
University of Maryland, College Park (Maryland)
Preceptors: Dr. Ankit Saxena, Dr. J. Philip McCoy

LCH-44. Vinay Durbhakula

Cell-free Assay to Measure Mouse Lipoprotein Lipid Efflux

Winston Churchill High School (Maryland)

Preceptors: Dr. Alan Remaley, Dr. Edward Neufeld

LCH-45. Nashwan Farooque, Gauri Dandi

Predictors of Hard Outcomes in ACCORDION Identified by Random Survival Forest Based Machine Learning

Virginia Commonwealth University (Virginia), Walt Whitman High School (Maryland)

Preceptor: Dr. Ahmed Hasan

LCH-46. Nimit Gandhi

Generating Elastin-deficient Human Induced Pluripotent Stem Cells (hiPSCs) Using CRISPR/Cas9

University of Arkansas, Fayetteville (Arkansas)

Preceptors: Dr. Beth Kozel, Dr. Kitman Tsang

LCH-47. Anahit Gevorgyan

The Relationship Between NADH Metabolic Co-Factor and Intracellular Oxygenation Level

Los Angeles Valley College (California)

Preceptors: Dr. Jay Knutson, Dr. Rozhin Penjweini, Dr. Alessio Andreoni

LCH-48. Anne Gormaley

Optimizing Outgrowth of Primary Dorsal Root Ganglion (DRG) Neurons on Polydimethylsiloxane (PDMS) Substrates

University of Florida (Florida)

Preceptors: Dr. Caitlin Mencio, Dr. Herbert Geller

LCH-49. Adriana Grewe

Effects of Variations in Osmium Staining on Membrane Visibility

Walter Johnson High School (Maryland)

Preceptors: Dr. Christopher Bleck, Ms. Erin Stempinski, Dr. Eric Lindberg

LCH-50. Catherine Gui

Distribution of NM 2A and 2B Paralogs following Ablation of NM 2C in the Developing Mouse Lung

Thomas S Wootton High School (Maryland)

Preceptors: Dr. Xuefei Ma, Dr. Robert Adelstein

LCH-51. Mitchell Harling

Implementation and Testing of a Global Analysis Software (gDAI) for Lifetime Images with Multiple Components

University of Maine (Maine)

Preceptors: Dr. Jay Knutson, Dr. Aleksandr Smirnov, Dr. Alessio Andreoni

LCH-52. Laboni Hoque

Predictors of Hard Outcomes in the AIM-HIGH Trial Identified by Machine Learning

Amherst College (Massachusetts)

Preceptor: Dr. Ahmed Hasan

LCH-53. Promotto Islam

Screening for Pathways Involved in Low-density Lipoprotein Uptake Using CRISPR/Cas9 HepG2 Cells

Eastside High School (Florida)

Preceptors: Dr. Diego Lucero, Dr. Lita Freeman, Dr. Alan Remaley

LCH-54. Zahin Islam

Innate Immune Response to Viral Populations

Severna Park High School (Maryland)

Preceptors: Dr. Banu Bayyurt-Kocabas, Dr. Nihal Altan-Bonnet

LCH-55. Isabel Jabara

Assessing the Predictive Value of CircleSeq, an in vitro Gene Editing Off-target Site Identification Method

University of California, Los Angeles (California)

Preceptors: Dr. Cynthia Dunbar, Ms. Aisha Aljanahi, Ms. Shirley Chen

LCH-56. Arad Jain

Longitudinal Analysis of Serum Apolipoprotein E Levels from Asthmatic Subjects

University of Virginia (Virginia)

Preceptors: Dr. Amisha Barochia, Dr. Stewart Levine, Dr. Xianglan Yao

LCH-57. Roja Kambhampati

Promoting Cardiovascular Health in Early Childhood (0-5 years) and Transitions in Childhood through Adolescence

University of Maryland, College Park (Maryland)

Preceptor: Dr. Charlotte Pratt

LCH-58. Andrew Kelleher

Is H-89 a PKA Specific Inhibitor?

Duke University (North Carolina)

Preceptors: Dr. Mark Knepper, Dr. Viswanathan Raghuram, Dr. Kavee Limbutara, Dr. Chin-Rang Yang

LCH-59. Edward Kim

Allostatic Load: Biomarkers, Physical Measures, and Determining a Score

Oakton High School (Virginia)

Preceptors: Dr. Eliseo Perez-Stable, Dr. Erik Rodriguez

LCH-60. Alex Kirkpatrick

Shedding Light on Rotavirus Non-lytic Vesicular Egress

UT Health San Antonio (Texas)

Preceptor: Dr. Marianita Santana

LCH-61. Annie Lee

Muscle Typing in Drosophila melanogaster

Cornell University (New York)

Preceptors: Dr. Brian Glancy, Dr. Prasanna Katti

LCH-62. Rao Li

Designing and Implementing a Graphical User Interface for Managing Tracks on the WashU Genome Browser

Poolesville High School (Maryland)

Preceptors: Dr. Gangqing Hu, Dr. Keji Zhao

LCH-63. Ashley Lin

Heterocellular Communication between Endothelial and Smooth Muscle Cells in Direct Co-culture

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Manfred Boehm, Dr. Cornelia Cudrici, Dr. Elisa Ferrante

LCH-64. Catherine Liu

The Role of Myh9 Mutations in Mouse Squamous Cell Carcinoma Cell Line

University of Maryland, College Park (Maryland)

Preceptors: Dr. Robert Adelstein, Dr. Tingyi Wei

LCH-65. Hanley Ma

A Knock-In Mutation at a Site of S-Nitrosylation on TRIM72 (TRIM72 C144S) is Cardioprotective and Improves Insulin Sensitivity

Brown University (Rhode Island)

Preceptors: Dr. Natasha Fillmore, Dr. Elizabeth Murphy

LCH-66. Ken Malave-Ramos

Association of Lab Measures and Demographic Factors with Lifetime Bleeding History in The Framingham Heart Study

San Juan Bautista School of Medicine (Puerto Rico)

Preceptors: Dr. Andrew Johnson, Dr. Ming-Huei Chen

LCH-67. Zyannah Mallick

Predictors of Hard Outcomes in the BARI 2D Trial Identified by Machine Learning

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Dr. Ahmed Hasan

LCH-68. Jacob Mannes

Dissecting the Rows of Actin Retrograde Flow in Focal Adhesion Formation

Charles E. Smith Jewish Day School (Maryland)

Preceptors: Dr. Jian Liu, Dr. Kazue Matsumoto

LCH-69. Shane McGinty

Post-translational Modifications of Cysteine 202 of Cyclophilin D Are Critical for the Activation of the Mitochondrial Permeability Transition Pore

West Chester University (Pennsylvania)

Preceptors: Dr. George Amanakis, Dr. Junhui Sun, Dr. Elizabeth Murphy

LCH-70. Daya Mena

Total Thrombus Analysis System (T-TAS) and Association with Other Platelet Function Tests and Factors in the Framingham Heart Study

Hampshire College (Massachusetts)

Preceptor: Dr. Andrew Johnson

LCH-71. Madalyn News

Portfolio Analysis of Social Determinants of Health in NHLBI

University of Maryland, College Park (Maryland)

Preceptor: Dr. Rebecca Campo

LCH-72. Eoin O'Connell

PlateletHub: A Database Merging Megakaryocyte and Platelet Gene, Variant, and Proteomic Information

Worcester Polytechnic Institute (Massachusetts)

Preceptors: Dr. Andrew Johnson, Dr. Benjamin Rodriguez

LCH-73. Gloria Onuoha

Observation of A-syn Aggregation in Live Cells by FRET

McKinley Technology High School (District of Columbia)

Preceptor: Dr. Matthew Watson

LCH-74. Halyn Orellana

Treating Mutations and Genetic Diseases with a Nonsense Mediated Decay Inhibitor

Academy of Health Sciences at Prince George's Community College (Maryland)

Preceptors: Dr. J. Robert Hogg, Dr. Sarah Fritz

LCH-75. Eowyn Pak

A Novel Pathway for Coronavirus Exit

Dartmouth College (New Hampshire)

Preceptor: Dr. Nihal Altan-Bonnet

LCH-76. Matthew Pryor

Establishment of an Elov14-knockout Cell Model Using CRISPR-Cas9 Method

Northwestern University (Illinois)

Preceptors: Dr. Alan Remaley, Dr. Zhihong Yang

LCH-77. Ishwarya Sivakumar

Mitochondria in Red Blood Cells in the Context of Sickle Cell Disease

Johns Hopkins University (Maryland)

Preceptors: Dr. Swee Lay Thein, Dr. Laxminath Tumburu

LCH-78. Joseph Sukinik

Anatomical Differences in Arterial Beds Due to Elastin Insufficiency

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Beth Kozel, Mr. Russell Knutsen

LCH-79. Maryia Svirydava

The Effect of IL-17 on Neutrophil Differentiation from Human Bone Marrow

University of Maryland, College Park (Maryland)

Preceptors: Dr. Nehal Mehta, Dr. Heather Teague, Dr. Martin Playford

LCH-80. Evan Teng

An Introduction to Molecular Dynamics Simulation Using CHARMM

Cornell University (New York)

Preceptor: Dr. Xiongwu Wu

LCH-81. Michal Tyrlik

Applicability of the Ink Paw Print Test for the Assessment Of Gait in a Mouse Model of GM1 Gangliosidosis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Danielle Springer, Dr. Cynthia Tiffit, Mr. Morteza Peiravi, Mr. Robin Yoon

LCH-82. Lauren Vaughn

Changes in Signaling and Mutation Status across Treatment and Progression on BTK Inhibitors in Lymph Node Resident CLL cells

University of Florida (Florida)

Preceptors: Dr. Sarah Herman, Dr. Adrian Wiestner, Dr. Chingiz Underbayev

LCH-83. Sara Verschleisser

The Impact of Thyroid Function on Stroke Risk in Atrial Fibrillation

Yeshiva University (New York)

Preceptor: Dr. Lawton Cooper

LCH-84. Eric Wang

Pore Formation Induced by the Hemagglutinin Fusion Peptide

University of Maryland, College Park (Maryland)

Preceptors: Dr. Richard Pastor, Dr. Joshua Zimmerberg, Dr. Sourav Halder

LCH-85. Bronte Wen

Integration of Multiple NGS Data Tracks Using Minimum Bayes' Factor

Johns Hopkins University (Maryland)

Preceptors: Dr. Hyun Jun Jung, Dr. Mark A. Knepper

LCH-86. Sierra Wilson

Decreasing Plasma Triglycerides with an ApoC-II Mimetic Peptide

Willamette University (Oregon)

Preceptors: Dr. Alan Remaley, Dr. Anna Wolska

LCH-87. Andrea Wisniewski

Program Evaluation of the Trans-Omics for Precision Medicine (TOPMed) Program

University of Dayton (Ohio)

Preceptors: Ms. Julie Mikulla, Dr. Pothur Srinivas

LCH-88. Sheavonnie Wright

Influences of the Microbiome on Vascular Disease in Elastin Insufficiency

Lehman College (New York)

Preceptors: Dr. Beth Kozel, Ms. Amanda Wardlaw, Dr. Charles Billington, Dr. Delong Liu

LCH-89. Victoria Xin

Predictors of Hard Outcomes in the ALLHAT Trial Identified by Machine Learning

Montgomery Blair High School (Maryland)

Preceptors: Dr. Ahmed Hasan, Dr. Yves Rosenberg

LCH-90. Samantha Xu

Step It Up: Development of a Mobile Health Technology-enabled Physical Activity and

Cardiovascular Health Intervention with Community Member Engagement

Case Western Reserve University (Ohio)

Preceptor: Dr. Tiffany Powell-Wiley

LCH-91. Harsh Yadav

Network Biology-based Approach to Decode Complex Diseases

Richard Montgomery High School (Maryland)

Preceptors: Dr. Vijender Chaitankar, Dr. Mehdi Pirooznia

LCH-92. Daniel Yang

Regulation of Mitochondrial Network Dynamics during Postnatal Muscle Development in Mice

Brown University (Rhode Island)

Preceptors: Dr. Yuho Kim, Dr. Brian Glancy

National Institute on Aging (NIA)

LCH-93. Nicole Arnold

The Influence of Poverty on Gene Expression in African Americans in HANDLs

Morgan State University (Maryland)

Preceptors: Dr. Michele Evans, Dr. Nicole Noreen Hooten

LCH-94. Adore Corina Bagasao

Assessment of Mitochondrial DNA Export via Extracellular Vesicles in Apoptosis

Howard University (District of Columbia)

Preceptor: Dr. Paritosh Ghosh

LCH-95. Morgan Biggs

5-2 Caloric Restriction Impacts Mood, Cognition, and Brain Glucose Levels

University of Maryland, College Park (Maryland)

Preceptors: Dr. Roger Mullins, Dr. Dimitrios Kapogiannis, Dr. Josephine Egan, Dr. Chee

LCH-96. Jaquantey Bowens

The Effect of Adenylyl Cyclase 8 Overexpression on cAMP-PKA Signaling in the Left Ventricle of the Heart

Georgetown University (District of Columbia)

Preceptors: Dr. Khalid Chakir, Dr. Edward Lakatta

LCH-97. Natalie Brosh

Intracranial Volume and Age: Multi-atlas Segmentation Compared to the Ground Truth

Immaculata University (Pennsylvania)

Preceptors: Dr. Andrea Shafer, Dr. Susan Resnick

LCH-98. Nelson Castillo Rivera

New Insights in Health and Cancer Strategies: Is It All about Diet Composition or Fasting Time?

San Juan Bautista School of Medicine (Puerto Rico)

Preceptors: Dr. Alberto Diaz Ruiz, Mr. Jorge Martinez Romero, Mr. Tyler Rhinesmith, Dr. Rafael de Cabo

LCH-99. Shane Chambers

Involvement of Cardiac miRNA's in the Coherent Signaling of the Adenylate Cyclase 8 Transgenic Mouse

James Madison University (Virginia)

Preceptors: Dr. Kirill Tarasov, Dr. Yelena Tarasova, Dr. Edward Lakatta

LCH-100. Andrew Chan

LRRK2 Regulates Nuclear Morphology by Moderating Neuron Activity

Montgomery Blair High School (Maryland)

Preceptors: Dr. Xi Chen, Mr. Justin Kung, Dr. Huaibin Cai

LCH-101. William Chan

The Role of Striosomes in Anxiety-related Behavior

Winston Churchill High School (Maryland)

Preceptors: Dr. Sarah Hawes, Mr. Justin Kung, Dr. Junbing Wu, Dr. Huaibin Cai

LCH-102. Shaquille Charles

Rates of Age-associated Change in Heart Rate Variability as a Predictor of Mortality among Mice

University of Oxford (Non-U.S.)

Preceptors: Dr. Edward Lakatta, Dr. Christopher Morrell

LCH-103. Vivian Chen

LMO3 and ALDH1A1: Linking Substantia Nigra Molecular Markers to Motor Impairment and Neurodegeneration in Parkinson's Disease

Duke University (North Carolina)

Preceptors: Dr. Huaibin Cai, Dr. Sara Saez-Atienzar, Dr. Junbing Wu

LCH-104. Ellie Clawson

Sonic Hedgehog and Hippocampal Neurons

Johns Hopkins University (Maryland)

Preceptors: Ms. Aileen Rivell, Dr. Pamela Yao, Dr. Mark Mattson

LCH-105. Marisa DeLuca

Previously Unknown Link between B cells and Alzheimer's Disease in a Transgenic Mouse Model

University of Maryland, College Park (Maryland)

Preceptors: Dr. Monica Bodogai, Dr. Chen Chen, Dr. Ross McDevitt, Dr. Arya Biragyn

LCH-106. Carlos Dohse

Mitochondrial Survival Curves as a Measure of Age-, Phenotype- and Drug-induced Changes in Mitochondrial Fitness and Resistance to Oxidative Stress

Universidad Central del Caribe School of Medicine (Puerto Rico)

Preceptors: Dr. Steve Sollott, Mrs. Magda Juhaszova, Mr. Dimitry Zorov

LCH-107. Jack Donahue

NQO1 Bioactivatable Drugs' Role in Apoptosis and Protein Synthesis

McDonogh School (Maryland)

Preceptors: Dr. Rafael de Cabo, Dr. Andrea di Francesco, Dr. Yingchun Zhang, Dr. Clara de Germanio

LCH-108. Ryan Dougherty

Socioeconomic Status and Brain Health: The CARDIA Study

University of Wisconsin - Madison (Wisconsin)

Preceptors: Dr. Justine Moonen, Dr. Osorio Meirelles, Dr. Lenore Launer

LCH-109. Riley Driscoll

Analysis of Skeletal Muscle Tissue in Aging Mice

Brigham Young University (Utah)

Preceptors: Dr. Chang-Yi Cui, Dr. Myriam Gorospe

LCH-110. William Fang

Preclinical Evaluation of a Mitochondrial Decoupling Agent as a Potential Treatment for Parkinson's Disease

University of Nevada, Las Vegas School of Medicine (Nevada)

Preceptors: Dr. Yuki Kishimoto, Dr. Mark Mattson

LCH-111. Hannah Frederick

Identification of Novel RNA Markers of Cellular Senescence

University of Maryland, College Park (Maryland)

Preceptors: Mrs. Rachel Munk, Dr. Kotb Abdelmohsen, Dr. Myriam Gorospe

LCH-112. Takiel Gibson

What Do Potassium Channels have to Do with the Calcium Dynamics of Cardiac Pacemaker Cells?

McDaniel College (Maryland)

Preceptors: Ms. Ashley Wirth, Mr. Kenta Tsutsui, Dr. Edward Lakatta

LCH-113. Jamie Hartnett

Molecular Changes in GRSF1-depleted Human Neuroblastoma.

Towson University (Maryland)

Preceptors: Dr. Ji Heon Noh, Dr. Kyoung Mi Kim, Dr. Myriam Gorospe

LCH-114. Matthew Hentschel

Characterization of the Neurotoxic Mechanisms of Peripheral Extracellular Vesicles in Alzheimer's Disease

Oxford College of Emory University (Georgia)

Preceptors: Dr. Carlos Noguerras-Ortiz, Dr. Dimitrios Kapoggianis

LCH-115. Lauren Johnson

Untangling the Basis for Synthetic Lethality Between the BLM and RECQ1 DNA Helicases

Xavier University of Louisiana (Louisiana)

Preceptors: Dr. Robert Brosh, Dr. Srijita Dhar

LCH-116. Dongwon Lee

Optimizing Bone Marrow Cryopreservation for Primitive Hematopoietic Stem Cell Compartment Studies Using Flow Cytometry Analysis

James Clemens High School (Alabama)

Preceptors: Dr. Isabel Beerman, Dr. Hagai Yanai

LCH-117. Sabrina Mackey-Alfonso

Quantification of Inhibitory Neuronal Populations in the Prefrontal Cortex in Behaviorally Characterized Young and Aged Monkeys

Johns Hopkins University (Maryland)

Preceptors: Dr. Cristina Bañuelos, Dr. Peter Rapp

LCH-118. Alexander Maltsev

3D Segmentation of Human Skeletal Muscle Using Machine Learning Supercomputing Techniques Imaged by High-resolution Focused Ion Beam-scanning Electron Microscopy

University of California, Los Angeles (California)

Preceptor: Dr. Luigi Ferrucci

LCH-119. Nikhil Mathews

Longitudinal Changes of the Left Ventricular Outflow Tract with Aging in a Community Dwelling Population.

Eastern Regional High School (New Jersey)

Preceptors: Dr. Matthew Oberdier, Mr. Paul Adler

LCH-120. Roman Musselman

Determinants of Vascular Aging from the VALIDATE Study

University of the Pacific (California)

Preceptors: Dr. Majd AlGhatrif, Dr. Matt Oberdier

LCH-121. Nkatha Mwenda

Screening for SIRT6 Modulators Using Protein Coated Magnetic Beads

Kalamazoo College (Michigan)

Preceptors: Dr. Ruin Moaddel, Dr. Luigi Ferrucci

LCH-122. Victoria Nguyen

Behavioral Characterization of Dual Lrrk2/Rab29 Knockout Mice: A Novel Model for Parkinson's Disease

Howard University (District of Columbia)

Preceptors: Dr. Melissa Conti, Dr. Mark Cookson, Dr. Alexandra Beilina

LCH-123. Jessie O'Donnell

Transcriptional Changes Induced by TMS in the Rat Brain

Liberty University (Virginia)

Preceptors: Dr. Kevin Becker, Dr. Elin Lehrmann

LCH-124. Chinenye Onyima

Rapamycin Inhibits Senescence by Reducing Mitochondrial Biogenesis in shATM Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Vilhem Bohr, Dr. Beimang Yang

LCH-125. Isabella Perone

Exploring the Role of Sirt3 in the Pathogenesis of Alzheimer's Disease

Johns Hopkins University (Maryland)

Preceptors: Dr. Mark Mattson, Dr. Aiwu Cheng, Ms. Jing Wang

LCH-126. Alex Rains

Subjective Cognitive Complaints, Brain Changes, and Cognitive Impairment in the Baltimore Longitudinal Study of Aging

Vanderbilt University (Tennessee)

Preceptors: Dr. Nicole Armstrong, Dr. Owen Williams, Dr. Susan Resnick

LCH-127. April Riddick

microRNA Regulation of Inflammation-associated Genes in Hypertension

University of Virginia (Virginia)

Preceptors: Dr. Calais Prince, Dr. Nicole Noren Hooten, Dr. Michele Evans

LCH-128. Edward Rivera

Effects of Repetitive Electromagnetic Stimulation on Neurite Outgrowth and Survival

Interamerican University of Puerto Rico (Puerto Rico)

Preceptors: Dr. Peter Rapp, Dr. Marina Weiler

LCH-129. Emily Samuels

Identification of Atherosclerotic Antibodies from Single Cell Analysis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Mark Hutchinson, Dr. Robert Maul, Mr. Darrell Norton, Dr. Patricia Gearhart

LCH-130. Emma Santa

Investigating the Role of LMO3 in Dopaminergic Neurons and Parkinson's Disease

Gustavus Adolphus College (Minnesota)

Preceptor: Dr. Sara Saez

LCH-131. Cameron Sarabi

Investigating the Association between IGF-1, Psychosocial Stress, and Aging Disparities

University of Nevada, Las Vegas School of Medicine (Nevada)

Preceptor: Dr. Nancy Chiles

LCH-132. Aleah Scott

Role of DNA Polymerase Beta in Neuronal Cell Function

Baltimore Polytechnic Institute (Maryland)

Preceptors: Ms. Arina Perez, Dr. David Wilson

LCH-133. Haley Thompson

Targeting BRCA Deficiencies with WRN-specific Helicase Inhibitor

Bethany College (West Virginia)

Preceptors: Dr. Arindam Datta, Dr. Robert Brosh

LCH-134. Gia Thinh Truong

Quantitation of the NAD⁺ Metabolome in Cellular mMatrix, Red Blood Cells and Skeletal Muscle

University of Maryland, College Park (Maryland)

Preceptor: Dr. Ruin Moaddel

LCH-135. Ashley Tucewicz

NAD⁺ Supplementation Attenuates Neuroinflammation in a Mouse Model of Alzheimer's Disease

Dickinson College (Pennsylvania)

Preceptors: Dr. Yujun Hou, Dr. Vilhelm Bohr

LCH-136. Patricia Vera-González

Is Entorhinal Cortex Vulnerability in Cognitive Aging Activity-dependent?

University of Puerto Rico, Río Piedras Campus (Puerto Rico)

Preceptors: Dr. Craig Myrum, Dr. Cristina Bañuelos, Dr. Peter Rapp

LCH-137. Jing Wang

Single-cell Transcriptomics Reveals Age-associated Alteration of Human CD8⁺ T Cell Composition

University of Virginia (Virginia)

Preceptors: Dr. Nan-ping Weng, Dr. Jian Lu

LCH-138. Briana Washington

Longitudinal Changes in Blood Cell Composition as a Biomarker of Aging

Howard University (District of Columbia)

Preceptors: Dr. Rafael deCabo, Dr. Clara diGermanio

LCH-139. Zhané Washington

Dissecting the Insulin Signaling Cascade Using Extracellular Vesicles

Morgan State Univeristy (Maryland)

Preceptors: Dr. Maja Mustapic, Dr. Dimitrios Kapogiannis, Mr. Sahil Chawla

LCH-140. Jordan Weiss

Cytokines Are Associated with Longitudinal Changes in Cognitive Performance Among Urban Adults.

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. May Baydoun, Dr. Alan Zonderman

LCH-141. Caroline Whittington

Does Fatigability Mediate Emotional Vitality and Functional Mobility?

University of Alabama (Alabama)

Preceptor: Dr. Eleanor Simonsick

LCH-142. Weipeng Xie

3D Quantification of Brain Changes in a Rat Model of Age-associated Hypertension Using MRI

Vassar College (New York)

Preceptors: Dr. Olga Fedorova, Dr. Becca McPherson

LCH-143. Anthony Yao

Marinobufagenin Stimulates the Development of Fibrosis in Young Rat Vascular Smooth Muscle Cells via TGF β -1 Signaling

Dulaney High School (Maryland)

Preceptors: Dr. Olga Fedorova, Dr. Wen Wei

National Institute on Drug Abuse (NIDA)

LCH-144. Kate Barranco

Analysis of Simultaneous EEG and fMRI Data: A Multi-modal Approach to Identify Cognitive Differences between Nicotine-dependent and Healthy Individuals

McDonogh School (Maryland)

Preceptors: Dr. Elliot Stein, Dr. Vaughn Steele, Ms. Andrea Maxwell

LCH-145. Concetta Brusco

Activation of the Mouse Olfactory Circuit Using Transcranial Magnetic Stimulation

Johns Hopkins University (Maryland)

Preceptors: Dr. Khaled Moussawi, Dr. Antonello Bonci

LCH-146. Daniel Callahan

Role of Astrocyte in BOLD fMRI Signal

Northwestern University (Illinois)

Preceptors: Dr. Hanbing Lu, Dr. Akira Sumiyoshi

LCH-147. Nicole Centazzo

Pharmacokinetics and Pharmacodynamic Effects of the Synthetic Cathinone, Methylone, in Male Rats

John Jay College of Criminal Justice (New York)
Preceptor: Dr. Michael Baumann

LCH-148. Ian Chambers

The Effects of Ethanol on Glutamatergic Neurons in the VTA

Rhodes College (Tennessee)

Preceptors: Dr. Jorge Miranda-Barrientos, Dr. Marisela Morales, Dr. Huikun Wang, Mr. Gabriel Mateo Semidey

LCH-149. William Cusma

Effect of Chronic Stress Exposure on the Excitability of VGluT3 Neurons in the Dorsal Raphe

Loyola University Maryland (Maryland)

Preceptors: Dr. Jorge Miranda-Barrientos, Dr. David Barker, Dr. Marisela Morales

LCH-150. Urjita Das

Predicting Age of Nicotine Exposure in Adolescent Rats Using Machine Learning

University of Maryland, College Park (Maryland)

Preceptors: Dr. Robin Keeley, Dr. Elliot Stein

LCH-151. Sarah Eger

Olfactory and Visual Cues for Natural Rewards in Cocaine Dependent and Healthy Individuals

Dartmouth College (New Hampshire)

Preceptors: Dr. Betty Jo Salmeron, Dr. Yuzheng Hu

LCH-152. Anjali Gajendiran

Leptin Receptor-expressing Lateral Hypothalamic Neurons Gate Motivation

Centennial High School (Maryland)

Preceptors: Dr. Justin Siemian, Dr. Yeka Aponte

LCH-153. Iliana Gonzalez

The Parabrachial Nucleus Projections to The Ventral Tegmental Area and Their Role in Pain

Academy of Health Sciences at Prince George's Community College (Maryland)

Preceptors: Dr. Smriti Mongia, Dr. Huiling Wang, Dr. Marisela Morales

LCH-154. Sophia Guan

Biochemical Analysis of Sigma-1 Receptor Oligomerization

River Hill High School (Maryland)

Preceptors: Dr. Lei Shi, Dr. Hideaki Yano

LCH-155. Gerald Hou

Glutamatergic Neurons from the Lateral Parabrachial Nucleus Establish Synapses on Neurons in the Ventral Tegmental Area

University of California, San Diego (California)

Preceptors: Dr. Shiliang Zhang, Dr. Marisela Morales

LCH-156. Joslyn Jung

Predicting Drug Blockade of hERG Channel Using Machine Learning Algorithms

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Lei Shi, Dr. Andrew Fant

LCH-157. Grace Lechmann

Nicotine Dose and Exposure Age Changes Nicotinic Acetylcholine Receptor Density

University of Maryland, College Park (Maryland)

Preceptors: Dr. Robin Keeley, Ms. McKenzie Prillaman

LCH-158. Tiffany Lee

Dynamics of Sigma-1 Receptors at Dorsal Root Ganglia Contributes to Neuropathic Pain Caused by Peripheral Nerve Injury

Marriotts Ridge High School (Maryland)

Preceptors: Dr. Tsung-Ping Su, Dr. Hsiang-En Wu, Dr. Nino Gogvadze

LCH-159. Charday Long

Relapse to Fentanyl Seeking after Choice-based Voluntary Abstinence

Kansas State University (Kansas)

Preceptors: Dr. Yavin Shaham, Dr. David Reiner, Ms. Olivia Lofaro

LCH-160. Thashanna Lyle

Determining a Potential Role for the Lateral Preoptic Area-->Lateral Habenula Pathway in Pain by Quantifying Pathway-specific μ -opioid Receptor Expression

Baltimore City Community College (Maryland)

Preceptors: Dr. David Barker, Dr. Marisela Morales

LCH-161. Nishad Maggirwar

Utilization of Gesicles for Cre-dependent Protein Expression in Mammalian Cell Lines

University of California, San Diego (California)

Preceptors: Dr. Lee Campbell, Dr. Brandon Harvey

LCH-162. Edith Martinez

Optimization of a Fluorescent Nuclear Dye Assay to Monitor Cell Viability under Endoplasmic Reticulum Stress

Quince Orchard High School (Maryland)

Preceptors: Dr. Brandon Harvey, Ms. Lowella Fortuno, Dr. Doug Howard

LCH-163. Meghna Mathews

Effect of THC on Neuronal Activity in the Dorsolateral Striatum

Eastern Regional High School (New Jersey)

Preceptors: Dr. Maria Laura Zuccoli, Dr. Osama Abulseoud, Mrs. Sarah Sarsfeild, Dr. Yeka Aponte

LCH-164. Gustavo Mejias-Torres

VTA Glutamatergic Neurons Encode Defensive Behaviors through LH Glutamatergic Neurotransmission

Hereford High School (Maryland)

Preceptors: Dr. Marisela Morales, Dr. Flavia Barbano

LCH-165. Jatia Mills

Exploring the Pharmacodynamics of Ketamine

Morgan State University (Maryland)

Preceptors: Mr. Jordi Bonaventura, Ms. Sherry Lam

LCH-166. Daniela Moreira

Allostatic Load and Psychosocial Factors in Non Drug Users and Drug Users in Baltimore City

Wesleyan University (Connecticut)

Preceptors: Dr. Kenzie Preston, Dr. David Epstein, Dr. Karran Phillips, Dr. Landhing Moran

LCH-167. Hannah Morgan

Physiological Characterization of the Lateral Hypothalamus Inputs to Ventral Tegmental Area Glutamate Neurons.

College of New Jersey (New Jersey)

Preceptors: Dr. Carlos Mejias-Aponte, Ms. Leah Pappalardo

LCH-168. Joseph Nguyen

Nucleus Accumbens Cell-type Specific Control of Operant Aggression Reward and Relapse in Hybrid Transgenic Mice

College of William and Mary (Virginia)

Preceptors: Ms. Michelle Jin, Dr. Sam Golden, Dr. Yavin Shaham

LCH-169. Chloe Noh

Regional Disparity in Microglial Responses to Aging in the Basal Ganglia

Richard Montgomery High School (Maryland)

Preceptor: Dr. Lindsay De Biase

LCH-170. Myra Rice

Exploring Potential Utility of a Novel Dopamine D3 Receptor Antagonist R-VK4-40 for the Treatment of Opioid Abuse and Addiction in Rodents

California State University San Marcos (California)

Preceptors: Dr. Guo-Hua Bi, Dr. Chloe Jordan, Dr. Zheng-Xiong Xi, Dr. Amy Newman

LCH-171. Ibrahim Sartaj

Characterization of PV+ Interneurons in the Orbitofrontal Cortex Using Transgenic Rats

Chesapeake Math and IT Academy North High School (Maryland)

Preceptors: Dr. Carl Lupica, Dr. Alex Hoffman, Dr. Andrew Wright

LCH-172. Dana Shaw

Fos-expressing Neuronal Ensembles Mediating Cocaine Self-administration Are Distinct from Those Mediating Food Self-administration

Ohio State University (Ohio)

Preceptors: Dr. Bruce Hope, Dr. Brandon Warren, Ms. Louisa Kane

LCH-173. Tjerignimin Silue

Monitoring Extracellular Levels of GABA by Brain Microdialysis in Adult Rats Hippocampus

George Mason University (Virginia)

Preceptors: Dr. Gianluigi Tanda, Dr. Jacqueline Keighron, Ms. Emily Demarco, Dr. Shaimaa Elshebiney

LCH-174. Abhishek Singla

Sex Difference in the Effect of Nicotine Smoking on Brain Volumetric Measures

University Of Connecticut (Connecticut)

Preceptors: Dr. Xiaoyu (Sherry) Ding, Dr. Thomas Ross, Dr. Elliot Stein, Dr. Osama Abulseoud

LCH-175. Jerry Song

Differentiating the Role of D1 Medium Spiny Neurons in the Ventral vs. Dorsal Shell of the Nucleus Accumbens

Johns Hopkins University (Maryland)

Preceptor: Mr. Satoshi Ikemoto

LCH-176. Simon Su

The Relationship of Nicotine Dependence Severity and Nicotine Consumption on White Matter Integrity

Vanderbilt University (Tennessee)

Preceptors: Dr. Betty Jo Salmeron, Dr. Yuzheng Hu

LCH-177. Rebecca Suthard

The Role of Dopaminergic Prediction Error Signals in Updating Expected Outcome Encoding in Orbitofrontal Cortex

Boston College (Massachusetts)

Preceptors: Dr. Thomas Stalnaker, Dr. Geoffrey Schoenbaum

LCH-178. Itzel Tejeda

GABAergic Inputs to Dorsal Raphe VGlut3 neurons

University of Texas at El Paso (Texas)

Preceptors: Dr. Marisela Morales, Dr. Hui-Ling Wang, Ms. Almaris Figueroa

LCH-179. Elise Van Leer

Using c-Fos mRFP Rats to Map Neuronal Ensembles during Reward Learning

McGill University (Non-U.S.)

Preceptors: Dr. Rajtarun Madangopal, Dr. Bruce Hope

LCH-180. Haoxuan Wang

Population Neural Code for Social Exploration in the Nucleus Accumbens

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Dr. Yun Li, Dr. Yan Zhang

LCH-181. Brooke Weiner

Effects of Buprenorphine on Depression

University of Maryland, College Park (Maryland)

Preceptors: Dr. Petra Jacobs, Dr. Udi Ghitza

LCH-182. Helen Yang

Prefrontal Microcircuit Dynamics Encode Reward Seeking

Centennial High School (Maryland)

Preceptors: Dr. Giovanni Barbera, Dr. Hong Gu

LCH-183. Wendy Yang

In Real Time: Visualizing ER Stress and Golgi Fragmentation Induced by ER Calcium Dysregulation

New York University (New York)

Preceptors: Dr. Amanda Dossat, Dr. Brandon Harvey

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

LCH-184. Idri Abdullah

Bone Mineral Metabolism in Patients with Extreme Insulin Resistance

Montgomery College (Maryland)

Preceptors: Dr. Phillip Gorden, Dr. Rebecca Brown, Dr. Yevgeniya Kushchayeva

LCH-185. Hajera Afreen

Bromodomain Inhibitors Abrogate Terminal Erythroid Differentiation

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Benjamin Leadem, Dr. Ann Dean

LCH-186. Layla Alsulami

Developing Methods to Perfectly Isolate Male C. elegans for RNAseq Analysis

Catholic University of America (Virginia)

Preceptors: Dr. John Hanover, Dr. Dan Konzman

LCH-187. Alexis Ayuketah

Processed Food and Energy Intake

Eleanor Roosevelt Highschool (Maryland)

Preceptors: Dr. Valerie Darcey, Dr. Kevin Hall

LCH-188. Leilah Nicole Baumgarten

Implementation of T1 Mapping in Routine Clinical MR Liver Exam for the Detection of Hepatic Fibrosis and Portal Hypertension in Hepatitis C patients

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Ahmed Gharib

LCH-189. Kai Benedict

Characterization of a Myoglobin Knockout Mouse Model

University of California, Berkeley (California)

Preceptors: Dr. Soumyadeep Dey, Dr. Constance T. Noguchi

LCH-190. Grace Bergan

Probing Suitability of Click Chemistry in Glycoconjugate Vaccine Preparation: Synthesis and Conjugation of Structurally Relevant Haptens

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Helene Pfister, Dr. Paul Kovac

LCH-191. Elaine Beulick

Artificial Sweetener Exposure Begins Early in Life

Miami University (Ohio)

Preceptors: Dr. Kristina Rother, Dr. Sheetal Malhotra, Ms. Ellen Conway

LCH-192. Stefanie Brizuela

Using dCAS9 to Attenuate Transcription and Its Effect on the Recruitment of AGO2 to Active Promoters in Drosophila melanogaster

University of California, Santa Cruz (California)

Preceptors: Dr. Elissa Lei, Dr. Ezequiel Nazer

LCH-193. Camille Burgos, David Wu

Role of CBP/p300-Mediated H3K27 Acetylation in Adipogenesis and Cell Growth

Chaminade University of Honolulu (Hawaii), Walter Johnson High School (Maryland)

Preceptors: Dr. Younghoon Jang, Dr. Kai Ge

LCH-194. Viktoria Catalan

Beta-arrestin-1 Is a Key Modulator of Pdx1 Expression in Pancreatic Beta-cells under Glucolipotoxic Conditions

Sidwell Friends School (District of Columbia)

Preceptors: Dr. Luiz Barella, Dr. Jurgen Wess

LCH-195. Liam Chalk

Insulin Sensitivity and Pancreatic Beta Cell Function in Patients with Hyperaldosteronism

Saint Albans School (District of Columbia)

Preceptors: Dr. Ranganath Muniyappa, Mr. Shivraj Grewal, Ms. Andin Fosam

LCH-196. Rohit Chari

Predicting the Severity of Kidney Ischemia Reperfusion Injury Using miR192 from Urine Exosomes

Poolesville High School (Maryland)

Preceptors: Dr. Jonathan Street, Dr. Peter Yuen, Mr. Erik Koritzinsky

LCH-197. Caleigh Curley

Functional Assessment of a Predicted Stop-gain Variant in D-Amino Acid Oxidase (DAO) That Associates with Energy Expenditure and Insulin Secretion

Northern Arizona University (Arizona)

Preceptors: Dr. Leslie Baier, Dr. Anup Nair, Mr. Jeff Sutherland, Dr. Paolo Piaggi

LCH-198. Andrea D'Souza

Immunohistochemistry and Brain Pathology of GM1 Gangliosidosis Mouse Models

University of Maryland, College Park (Maryland)

Preceptors: Ms. Brianna Glase, Dr. Cynthia Tifft, Dr. Richard Proia

LCH-199. Sarah Dahms

Defining the Glycosylation of PPAR Axis Members

Towson University (Maryland)

Preceptors: Dr. Michelle Bond, Dr. John Hanover

LCH-200. Arjun Deven

Sex and Ethnic Differences in Glucose Metabolism

Lecanto High School (Florida)

Preceptors: Dr. Ranganath Muniyappa, Mr. Shivraj Grewal, Mrs. Andin Fosam

LCH-201. Corey Duenas

Predictors of Weight Maintenance after Weight Loss

University of Guam (Guam)

Preceptors: Dr. Susanne Votruba, Dr. Tim Hollstein, Dr. Jonathan Krakoff

LCH-202. Yaeli Fink

The Metabolic Responses and Changes in Brown Fat Activity after Chronic Treatment with the β 3-Adrenergic Receptor Agonist Mirabegron in Humans

WITS/Maalot (Maryland)

Preceptor: Dr. Aaron Cypess

LCH-203. Michael Gan

Effects of Pancreatic α Cell-specific Deficiency of the G Protein A-Subunit (Gsa) on Islet Mass and Function

Richard Montgomery High School (Maryland)

Preceptors: Ms. Christina Le, Dr. Min Chen, Dr. Lee Weinstein

LCH-204. Alexa Garcia

Mitochondrial Morphology and Dynamics Serve as an Indicator for Homeostasis

Texas A&M International University (Texas)

Preceptors: Dr. Coney Pei-Chen Lin, Dr. Daniel Masison

LCH-205. Charlyn Gomez

Orchestrating Hunger via Intersectional Genetics

George Washington University (District of Columbia)

Preceptors: Dr. Michael Krashes, Ms. Jovana Navarrete

LCH-206. Mayte Gonzalez

The Development and Validation of a LC-MS Method for Analysis of Nineteen Bile Acids in Human Plasma

Schreiner University (Texas)

Preceptors: Dr. Peter J. Walter, Dr. Hongyi Cai

LCH-207. Molly Halprin

Quantification of Shivering Activity Using Surface EMG

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Robert Brychta, Dr. Kong Chen

LCH-208. Isuru Herath

Towards the Discovery of Antibiotics from Soil Bacteria

Marriotts Ridge High School (Maryland)

Preceptors: Dr. Shannon Ohlemacher, Dr. Carole Bewley

LCH-209. Trung Huynh

TGF β Dedifferentiates Insulin-producing Cells in Type Two Diabetes

University of Alabama at Birmingham (Alabama)

Preceptors: Dr. Ji-Hyeon Lee, Dr. Sushil Rane

LCH-210. Alexis Jacob

The Effects of Hydroxysteroid 17-Beta Dehydrogenase 13 Variants on Lipid Content in Liver Cells

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Yaron Rotman, Dr. Yanling Ma

LCH-211. Adrianna Jones

Human Erythropoietin Treatment and Metabolic Stress Leads to Pure Red Cell Aplasia

Louisiana State University (Louisiana)

Preceptors: Dr. Heather Rogers, Dr. Constance "Connie" Noguchi

LCH-212. Nathan Kelsey

The Differential Regulation of Fuel Utilization in Muscle, Fat, Liver, and Brain as Quantified by ¹⁸F-FDG PET/CT

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Aaron Cypess

LCH-213. Annabelle Kim

A New Tool for Rapidly Generating Plasmids to Express Tagged Proteins in Cultured Cells

Bethesda Chevy Chase High School (Maryland)

Preceptors: Dr. William Prinz, Dr. Alex Toulmay

LCH-214. Rachel Klink

Objective Measures of Physical Activity, Sedentary Behavior, and Sleep Associated with Maternal Glycemia and Weight during Pregnancy

Taylor University (Indiana)

Preceptors: Dr. William Knowler, Mrs. Mary Hoskin, Dr. Muideen Olaiya, Dr. Jeremy Pomeroy

LCH-215. Bakey Kouanda

Knock-in of Reporter Genes in Induced Pluripotent Stem Cells Using the Crispr/Cas9 System

University of Connecticut (Connecticut)

Preceptors: Dr. Seung Bum Park, Mr. Christopher Ma, Dr. T. Jake Liang

LCH-216. André León

Unraveling Alzheimer's: Pressure-jump NMR Studies of Amyloid Beta Disease Mutants

The Scripps Research Institute (California)

Preceptors: Dr. Adriaan Bax, Dr. Ashley Barnes

LCH-217. Andrew Liu

Development of a Novel Hepatitis B Virus Infection Reporter System

University of Maryland, College Park (Maryland)

Preceptors: Dr. Yuchen Xia, Dr. Xiaoming Cheng, Dr. Jake Liang

LCH-218. Paola Lugo Tosado

Palatable Food Intake and Weight Change after Weight Cycling in C57BL/6 Mice

University of Puerto Rico, Mayagüez Campus (Puerto Rico)

Preceptors: Dr. Wambura Fobbs, Dr. Alexxai Kravitz

LCH-219. Matthew Martin

Optimization of Cryo-electron Microscopy Sample Preparation towards a High Resolution Structure of OPA1 on Lipid Tubes

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andrew Kehr, Dr. Jenny Hinshaw

LCH-220. Braden Mediavilla

Retinal Promoter Analysis of Possible TRBeta2 Transcription Factor Behavior
Colgate University (New York)

Preceptors: Dr. Michihiko Aramaki, Dr. Hong Liu, Dr. Douglas Forrest

LCH-221. Esther Meisler

Endogenous Tagging of piRNA Pathway Genes Using CRISPR Genome Editing
Bais Yaakov High School (Maryland)

Preceptors: Ms. Allie Elchert, Mr. Sushil Sobti, Dr. Astrid Haase

LCH-222. Azzah Momenh

Protein Stabilization and Purification by Targeted Domain Swapping
Catholic University of America (Maryland)

Preceptor: Dr. Agata steenackers

LCH-223. Nicholas Mouser

Effects of Liver-specific PCBP1 Knockout on Endoplasmic Reticulum Stress
Wake Forest University (North Carolina)

Preceptors: Dr. Shyamalagauri Jadhav, Dr. Caroline Philpott

LCH-224. Nicholas Munyan

Direct Quantification of Dehydroascorbate Using UPLC-MS/MS
University of Maryland, College Park (Maryland)

Preceptors: Dr. Pierre-Christian Violet, Dr. Mark Levine

LCH-225. Richard Nguyen

Evaluating the Role of Serine/Threonine Phosphorylation in Regulation of SSA1/SSA2 in the Yeast Saccharomyces cerevisiae

James Hubert Blake High School (Maryland)

Preceptors: Dr. Daniel Masison, Dr. Shailesh Kumar

LCH-226. Lindsey Njanja

Beta-barrel Assembly and Quality Control in Gram-negative Bacteria.
Bergen Community College (New Jersey)

Preceptors: Dr. Harris Bernstein, Dr. Matthew Doyle

LCH-227. Nnanna Onyekaba

TGF- β Signaling Promotes Beta Cell Dysfunction in T2D
Cornell University (New York)

Preceptors: Dr. Ji-Hyeon Lee, Dr. Sushil Rane

LCH-228. Yashira Ortega Sustache

Modeling NGLY1 Deficiency in C. elegans

University of Puerto Rico at Bayamón (Puerto Rico)

Preceptors: Ms. Carina Graham, Dr. Andy Golden

LCH-229. Jessica Pan

Predicting Regulation of O-GlcNAc Transferase-related Pathways in Leukemia Using Publicly Available Datasets

Winston Churchill High School (Maryland)

Preceptors: Dr. John Hanover, Dr. Weiping Chen

LCH-230. Luke Parsley

Defects in Zona Pellucida Formation and Gamete Interaction in Myosin IIA Knockouts

Rollins College (Florida)

Preceptors: Dr. Edgar-John Vogt, Dr. Jurrien Dean

LCH-231. Danielle Pickering

Muscle nNOS Activity Regulates Metabolism and Cytokine Response

Kansas State University College of Veterinary Medicine (Kansas)

Preceptors: Dr. Soumyadeep Dey, Dr. Constance T. Noguchi, Dr. Alan N. Schecter

LCH-232. Darcia Pingree

The Yogurt Project

Carroll College (Montana)

Preceptors: Dr. Kristina Rother, Dr. Stephanie Olivier-Van Stichelen

LCH-233. Ethan Pritikin

The Effect of Gsa Deficiency in Adipose Tissue and Muscle on Energy Expenditure and Thermogenesis.

University of Chicago (Illinois)

Preceptors: Dr. Min Chen, Ms. Hui Sun, Dr. Lee Weinstein, Mr. Peter Metzger

LCH-234. Kyle Rhodehouse

Modeling Human Multiple Mitochondrial Dysfunctions Syndrome in C. elegans

Colgate University (New York)

Preceptors: Dr. Peter Kropp, Dr. Andy Golden

LCH-235. Elizabeth Romo

Role of piRNA in Spermiogenesis and Male Fertility

Los Angeles Valley College (California)

Preceptors: Dr. Heejin Choi, Dr. Jurrien Dean

LCH-236. Aviva Schwartz

Cytokine Changes during Treatment of Hepatitis D

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Ms. Gabriella Quinn, Dr. Rabab Ali, Dr. Cristopher Koh, Dr. Theo Heller

LCH-237. Tesia Shi

Predicting Biological Pathways for Potential Drugs Affecting Adenosine Receptors through Bioinformatics Data Mining of Five Publicly Available Datasets (Alzheimer's Disease, Bipolar Disorder, Schizophrenia, Major Depressive Disorder, and Hepatocellular Carcinoma)

Richard Montgomery High School (Maryland)

Preceptors: Dr. Kenneth Jacobson, Dr. Weiping Chen

LCH-238. Sooah Sohn

Erythropoietin Stimulates Metabolic Response via Glucose Transporter Member 4 (GLUT4) in Culture

Richard Montgomery High School (Maryland)

Preceptors: Dr. Constance Noguchi, Dr. Heather Rogers

LCH-239. Sandra Solis

Obesity Associated Bardet-Biedl Syndrome Gene 9 (BBS9) Potentially Affects Leptin Signalling

Great Basin College (Nevada)

Preceptors: Dr. Leslie Baier, Dr. Samantha Day, Mr. Gregory Elson

LCH-240. Cody Stein

Sequencing Analysis of CD8 T Cell Epitopes in Chronic Hepatitis D Virus Infection

University of Colorado, Colorado Springs (Colorado)

Preceptors: Dr. Helenie Kefalakes, Dr. Barbara Reherrmann

LCH-241. Xiangliang Sui

Cyclotriazadisulfonamides Down-regulate TSH Receptor Cell Surface Expression

Washington University in St. Louis (Missouri)

Preceptors: Dr. Christine Krieger, Dr. Susanne Neumann, Dr. Marvin Gershengorn

LCH-242. George Tang

A Virtual Reality, Mobile Application for Binocular Rivalry Experiments

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Carson Chow, Dr. Shashaank Vattikutis

LCH-243. Rachel Vanjoske

Defining the Role of O-GlcNAc on Modulating Cellular Respiration

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lara Abramowitz, Dr. John Hanover

LCH-244. Gayathri Veeraraghavan

The NIH Experience (1990-2018) of Thymic Carcinoid: A Review of the Cases

Alabama College of Osteopathic Medicine (Alabama)

Preceptors: Mr. James Welch, Dr. Adel Mandl, Dr. Jenny Blau

LCH-245. Richard Wang

Effects of CL316243, a beta-3 Adrenergic Agonist in Mice

University of Maryland, College Park (Maryland)

Preceptors: Dr. Marc Reitman, Dr. Oksana Gavrilova

LCH-246. F'jei Will

Use of Whole Exome Sequencing to Identify Rare Variation Contributing to Extreme Obesity in American Indian Families

Georgia State University (Georgia)

Preceptors: Dr. Leslie Baier, Dr. Cigdem Koroglu, Mr. Darin Mahkee

LCH-247. David Woodbury

Is Major Sperm Protein Involved in Preventing Germline Degradation in Caenorhabditis elegans?

Muhlenberg College (Pennsylvania)

Preceptors: Dr. Andy Golden, Dr. Xiaofei Bai

LCH-248. Donald Wunsch

Statistical Inference from Stock Market Sentiment Data

Missouri University of Science and Technology (Missouri)

Preceptors: Dr. Joseph McKenna, Dr. Vipul Periwal

LCH-249. Chris Yang

Predicting Protein Contacts from Multiple Sequence Alignments

Oakton High School (Virginia)

Preceptors: Dr. Joseph McKenna, Dr. Vipul Periwal

LCH-250. Kyungyoon Yoo

Metabolic Regulation by Hfq-binding sRNA in Human Pathogen B. pertussis

Vassar College (New York)

Preceptors: Dr. Kyung Moon, Dr. Deborah Hinton

LCH-251. Ashley Young

Inferring Visual Experiences from fMRI Data

Oakton High School (Virginia)

Preceptors: Dr. Joseph McKenna, Dr. Vipul Periwal

LCH-252. Michelle Yue

Transfer of Misfolded alpha-Synuclein from Neurons to Microglial Cells in Drosophila

Princess Anne High School (Virginia)

Preceptors: Dr. Yihong Ye, Ms. Layla Saidi, Dr. Yue Xu

LCH-253. Lillian Zheng

Twitter and the Liver: The Influence of Social Media in Medicine

Holton-Arms School (Maryland)
Preceptors: Dr. Christopher Koh, Ms. Pallavi Surana

National Institute of Environmental Health Sciences (NIEHS)

LCH-254. Juhitha Chinthapatla

Investigation of SMCHD1 Proteome Using Yeast Two-hybrid Screening

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Kaoru Inoue, Dr. Natalie Shaw

LCH-255. Donald De Alwis

The Effects of Solvent Exposure on the Development of Myositis Phenotypes

University of Maryland, College Park (Maryland)

Preceptors: Dr. Adam Schiffenbauer, Dr. Frederick Miller

LCH-256. Sandy Drye

Development of Standardized 3D Printed Capacitive Touch Sensors for Object Recognition Tasks

North Carolina State University (North Carolina)

Preceptors: Dr. Jesse Cushman, Mrs. Jemma Strauss, Mr. Korey Stevanovic

LCH-257. Fatima Gunter-Rahman

IFN Regulated Gene Expression in Juvenile Dermatomyositis (JDM)

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Hanna Kim, Dr. Lisa Rider

LCH-258. Tahja Harris

Per- and Poly-fluoroalkyl Substances: Analytical Method Development and Hepatic Clearance

North Carolina A&T State University (North Carolina)

Preceptors: Dr. Michael Devito, Dr. David Crizer

LCH-259. Shauntre Lilley

Hippocampal Area ca2 Selectively Expresses Genetic Material Packaged in Adeno-associated Viral Particles

Sandhills Community College (North Carolina)

Preceptors: Dr. Georgia Alexander, Dr. Serena Dudek

LCH-260. Marque Long

Relationships between Birthweight and Overweight/Obesity May Vary by Phthalate Metabolite Concentrations among US Adolescents

Morehouse College (Georgia)

Preceptors: Dr. Symbielle Gaston, Dr. Chandra Jackson

LCH-261. Ethan Swofford

Survey of Techniques in Next Generation Sequencing Using Molecular Biology as My Guide

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Ms. Nicole Reeves, Mrs. Molly Cook, Mr. Gregory Solomon

LCH-262. John Yannotty

The Impact of Silica Dust Exposure on Myositis Phenotype

Slippery Rock University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Adam Schiffenbauer, Dr. Frederick W. Miller

National Institute of Mental Health (NIMH)

LCH-263. Ankush Bajaj

Characterizing Rhesus Monkey Brains from Anatomical MRI Scans

Brown University (Rhode Island)

Preceptors: Dr. Adam Messinger, Mr. Benjamin Jung, Dr. Leslie Ungerleider

LCH-264. Timothy Barry

A Data-driven Approach to Predicting Stroke Progression

University of Maryland, College Park (Maryland)

Preceptors: Dr. Charles Zheng, Dr. Patrick McClure, Dr. Francisco Pereira

LCH-265. Justin Buck

The Impact of Rewarding Experiences on the Dopamine Circuit Architecture of the Mouse Brain

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kuan Wang, Dr. Theodore Usdin

LCH-266. Daniel Chen

Validation of Transcripts Identified by RNA-Seq in MIR137HG, a Host Gene of Schizophrenia-associated microRNA

University of Virginia (Virginia)

Preceptors: Dr. Barbara Lipska, Dr. Ningping Feng

LCH-267. John Chen

3D Tracing of Midline Thalamic Inputs

Indiana University Bloomington (Indiana)

Preceptors: Dr. Gloria Laryea, Dr. Yogita Chudasama

LCH-268. Natenin Cisse

Dendritic Spine Analyses in the Nucleus Accumbens to Reveal Role of Rapgef2 in Cocaine Responding

Springbrook High School (Maryland)

Preceptors: Dr. Lee Eiden, Ms. Sean Sweat

LCH-269. Karis Courey

Optimizing Optogenetic Techniques for Behavior in Avp-Cre Transgenic Mice

University of Akron (Ohio)

Preceptors: Dr. Su Lee, Dr. Adi Cymerblit-Sabba, Dr. Nicholas Cilz, Dr. W. Scott Young

LCH-270. Zoe DeGrazia

Threat of Shock Impacts Risk Aversion, but not Loss Aversion, in Clinically Anxious Participants

Clark University (Massachusetts)

Preceptors: Mr. Christian Grillon, Mrs. Monique Ernst

LCH-271. Michael Dib

Effect of Electroconvulsive Therapy on Serotonin Function as Assessed by Loudness Dependence of the Auditory Evoked Potential: An MEG Study

University of Maryland, College Park (Maryland)

Preceptor: Dr. Zhi-De Deng

LCH-272. Naomi Gancz

Exploring the Validity of the MAP-DB Temper Loss Scale through Associations with Irritability in a Clinical Sample of Youth

University of Chicago (Illinois)

Preceptor: Dr. Elise Cardinale

LCH-273. Sarah George

The Role of Synaptic Plasticity in Aggression Priming

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Zheng Li, Dr. Jacob Nordman

LCH-274. Dannie Griggs

Characterizing Neurobiological Processing of Naturalistic Stimuli Using Multimodal Neuroimaging

University of Chicago (Illinois)

Preceptors: Dr. Peter Bandettini, Dr. Peter Molfese, Dr. Emily Finn, Ms. Amy Loret

LCH-275. Katie Hahm

Light and Clock Differentially Regulate Activity-dependent Molecular Markers in the Mouse Central Circadian Pacemaker: Molecular Correlate of Photic Gating in the Circadian Clock

Maret School (District of Columbia)

Preceptor: Dr. Samer Hattar

LCH-276. Oliver Hightower

Expression of Neurotransmitter Transporters Using the pXoom Vector in mMammalian Cells and Xenopus Oocytes

George Washington University (District of Columbia)

Preceptors: Dr. Delany Torres-Salazar, Mrs. Glasser Carla, Dr. Susan Amara

LCH-277. Frances Johnson

Characterizing the Diversity of Excitatory Projection Neurons in the Primary Somatosensory Cortex

University of Hartford/University of Connecticut (Connecticut)

Preceptor: Dr. Soohyun Lee

LCH-278. Ahnaf Khan

Visualizing Vasopressin 1b Receptor Neuronal Pathways in Hippocampal CA2

University of Virginia (Virginia)

Preceptors: Dr. Sarah Williams-Avram, Dr. Ted Usdin, Dr. Jonathan Kuo

LCH-279. Joanna Kondylis

The Relationship between Psychopathology and Brain Activity in a Large Sample of Preadolescent Children from the Adolescent Brain and Cognitive Development Study

Nueva School (California)

Preceptors: Dr. Narun Pornpattananangkul, Dr. Argyris Stringaris

LCH-280. Ilan Layman

Translational Research in Electrophysiologic Sleep Phenotyping: Best Animal Models for Sleep and Neurodevelopment

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Ashura Buckley

LCH-281. Judith Licht

Emotion Processing in Individuals with Moebius Syndrome

Muhlenberg College (Pennsylvania)

Preceptors: Dr. Shruti Japee, Ms. Jessica Jordan

LCH-282. Tobie Little Finger

Comparing IQ and Adaptive Behavior with Neurodevelopmental Disorders

Oglala Lakota College (South Dakota)

Preceptors: Dr. Audrey Thurm, Dr. Cristan Farmer, Ms. Dee Adedipe, Mr. Doug Harrison

LCH-283. Anoo Maskeri

Oxytocin Receptor Knockout in Mouse Hippocampal CA2 Area Pyramidal Neurons and Long Term Social Recognition

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Su Hyun Lee, Dr. Adi Cymerblit-Sabba, Dr. Sarah Williams Avram

LCH-284. Nino Migineishvili

Parsimony and Data Characteristics in Machine Learning for Neuroimaging

University of California, Los Angeles (California)

Preceptors: Dr. Dylan Nielson, Dr. Charles Zheng, Dr. Adam Thomas, Dr. Peter Bandettini

LCH-285. Nahom Mossazghi

Psychiatric Risk CYFIP1 Gene Disrupts Frontal Cortical Circuit Dynamics and Behavior

University of Minnesota (Montana)

Preceptors: Dr. Kuan Hong Wang, Dr. Liu Qing

LCH-286. Kelsey Mumford

Investigating the Correlation between Action Prediction and Social Responsiveness

University of Texas at Austin (Texas)

Preceptors: Ms. Emalie McMahon, Dr. Leslie Ungerleider, Dr. Maryam Vaziri-Pashkam

LCH-287. Myriam Rama

Ketamine as a Rapid-acting Antidepressant in Major Depressive Disorder Compared to Healthy Controls

University of New Mexico (New Mexico)

Preceptors: Dr. Jessica Gilbert, Dr. Carlos Zarate

LCH-288. Amanda Riddle

Assessment of Migraine Prodromes Using Mobile Technology

Langely High School (Virginia)

Preceptors: Dr. Kathleen Merikangas, Dr. Tarannum Lateef

LCH-289. Victoria Rooke

Anatomical Dissociation of the Anterior and Posterior Paraventricular Nucleus of the Thalamus and Their Connectivity to the Medial Prefrontal Cortex

University of Maryland, College Park (Maryland)

Preceptor: Dr. Mario Penzo

LCH-290. Elizabeth Sahagun

Does hypertension Contribute to Vascular Damage in the Brain Caused by Chronic Psychosocial Stress?

Purdue University (Indiana)

Preceptors: Dr. Michael Lehmann, Dr. Miles Herkenham

LCH-291. Leslie Schneider

Does Parenting Behavior Moderate the Development of Childhood Irritability?

Yale University (Connecticut)

Preceptors: Dr. Ellen Leibenluft, Dr. Courtney Filippi

LCH-292. Kimya Shirazi

Inter-relationship of Pain, Mood and Sleep in a Community-based Sample Using Mobile Technologies

McLean High School (Virginia)

Preceptor: Dr. Kathleen Merikangas

LCH-293. Jamilah Silver

The Effects of Cognitive Behavioral Therapy on Adolescents with Depression

Northwestern University (Illinois)

Preceptor: Dr. Stringaris Argyris

LCH-294. Sara Stahl

Impact of Trait and State Anxiety on the Monetary Incentive Delay Task

University of Texas at Austin (Texas)

Preceptors: Dr. Christian Grillon, Dr. Monique Ernst

LCH-295. Caitlin Stavish

Emotion Dysregulation in Bipolar and At-risk Youth: A Longitudinal Study

Boston University (Massachusetts)

Preceptors: Dr. Julia Linke, Dr. Ellen Leibenluft

LCH-296. Ian Stukes

Syntheses of New Ligands for Imaging TSPO in Brain with PET

Sandy Spring Friends School (Maryland)

Preceptors: Dr. Victor Pike, Dr. Fabrice Simeon

LCH-297. Ginny Sun

Psychosocial Stress Alters Immune System Composition and Activity in the Meninges

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Stacey Kigar, Ms. Nicole Wrigley, Dr. Miles Herkenham

LCH-298. Michelle Tang

Bayesian Analysis of Amygdala Lesions in Stimulus-based versus Action-based Reinforcement Learning

Montgomery Blair High School (Maryland)

Preceptor: Dr. Bruno Averbeck

LCH-299. Caitlin Van Wicklin

Category-selective Subdivisions in Medial Parietal Cortex Revealed during Memory Recall

Virginia Tech (Virginia)

Preceptors: Dr. Christopher Baker, Dr. Edward Silson

LCH-300. Grace Wang

Maturation of Sexual Dimorphism in Hypothalamic Cells

Richard Montgomery High School (Maryland)

Preceptors: Dr. Kuan Hong Wang, Dr. Wenyu Zhang, Mr. Matthew Coon

LCH-301. Sharon Washio

Projections behind Somatosensation: Paralemniscal Thalamocortical Circuitry

Princeton University (New Jersey)

Preceptor: Dr. Soohyun Lee

LCH-302. Alexandra Webster

Organization of Subnetworks in the Primary Sensory Cortex by Their Projection Targets

Tufts University (Massachusetts)

Preceptors: Dr. Soohyun Lee, Dr. Ana Inacio

LCH-303. Katy Werwath

An Examination of Brain Morphometry in Generalized Anxiety Disorder across Multiple Sites

Maggie L. Walker Governor's School for Government and International Studies (Virginia)

Preceptors: Dr. Daniel Pine, Dr. Anderson Winkler

National Institute of Nursing Research (NINR)

LCH-304. Jasmine Benally

Mitochondrial Function in a Mouse Model of Radiation-induced Fatigue

Fort Lewis College (Colorado)

Preceptors: Dr. Rebekah Feng, Dr. Leorey Saligan

LCH-305. Kavisha Chandrawarakkalage

Characterization of Molecular Mechanisms of Weight Gain of Kidney Transplant Patients

Wheaton High School (Maryland)

Preceptors: Mr. Abe Roy, Dr. Paule Joseph, Dr. Ann Cashion

LCH-306. Stephanie Chidester

Oxidative Stress and Mitochondrial Function in Models of Neuromuscular Disease

University of Missouri - St. Louis (Missouri)

Preceptor: Dr. Joshua Todd

LCH-307. Guyton Harvey

Inflammation as a Mediator of Fatigue after Radiation Therapy

Morehouse College (Georgia)

Preceptors: Dr. Brian Wolff, Dr. Rebekah Feng, Dr. Leorey Saligan

LCH-308. Candace Moore

Associations between Mechanism of Traumatic Brain Injury and Psychological Outcomes

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Cassie Pattinson, Dr. Jessica Gill

LCH-309. Kirsten Nottingham

Glial Fibrillary Acidic Elevations Relate to Neuroimaging Abnormalities after a Mild TBI

George Washington University (District of Columbia)

Preceptor: Dr. Jessica Gill

LCH-310. Tyler Tonko

The Role of Natural Killer Cells in Radiation-induced Cancer Fatigue

Texas A&M University - Commerce (Texas)

Preceptors: Dr. Leorey Saligan, Dr. Rebekah Feng

LCH-311. Miriam Weiss

Transcriptional Profiling in Chronic Pain Research

University of Maryland School of Nursing (Maryland)

Preceptors: Dr. Paule Joseph, Dr. Ann Cashion, Dr. Susan Dorsey

National Library of Medicine (NLM)

LCH-312. Claire Anderson

Functional Classification of Non-coding Mutations

University of Georgia Honors College (Georgia)

Preceptors: Dr. Ivan Ovcharenko, Dr. Sanjarbek Hudaiberdiev

LCH-313. Caroline Cunningham

Developing Analysis Tools for Cancer Mutational Data

Washington-Lee High School (Virginia)

Preceptors: Dr. Alexander Goncarencu, Dr. Anna Panchenko

LCH-314. Priya Deshpande

Challenges in Clinical Data Management for Data-driven Research

DePaul University (Illinois)

Preceptor: Dr. Sameer Antani

LCH-315. Lucas Folio

TB or Not TB: If That Is the Global Health Question, Is Machine Learning on the Chest X-Ray the Answer?

Walt Whitman High School (Maryland)

Preceptors: Dr. Stefan Jaeger, Dr. Zhiyun Xue, Dr. George Thoma, Dr. Les Folio

LCH-316. Soumith Gadila

Uncovering Tissue Specific Gene Regulatory Networks in Flies

Montgomery Blair High School (Maryland)

Preceptors: Dr. Yijie Wang, Dr. Teresa Przytycka

LCH-317. Yasmin Kassim

Robust Detection for Malaria Cells in Thin Blood Smear Microscopy Using Deep Learning

University of Missouri Columbia (Missouri)

Preceptors: Dr. Stefan Jaeger, Dr. Kannappan Palaniappan, Dr. Richard Maude, Dr. George Thoma

LCH-318. Benjamin Kussmaul

Optical Disc Detection from Fundus Images Using Deep Learning

Swarthmore College (Pennsylvania)

Preceptors: Dr. Jongwoo Kim, Dr. George Thoma

LCH-319. Aaron Kyei-Asare, Prosun Das

Investigations into Cross-platform User Interface Design Using Material Design Components

University of Maryland, College Park (Maryland), Charles H. Flowers High School (Maryland)

Preceptors: Dr. George Thoma, Mr. Michael Gill, Mr. Gregory Miernicki, Mr. Sathishkumar Subramaniyan

LCH-320. Jonah Langlieb

Investigating Image Analysis and Machine Learning Methods for Estimating Ejection Fraction from Echocardiograms

Swarthmore College (Pennsylvania)

Preceptors: Dr. Sameer Antani, Dr. George Thoma

LCH-321. Daniel Li

Prediction of AMD Severity Score from Fundus Photographs and Demographics via Deep Learning

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Zhiyong Lu, Dr. Yifan Peng

LCH-322. Fucheng Li

Generating Answers to Consumer Health Questions

Montgomery Blair High School (Maryland)

Preceptors: Dr. Dina Demner Fushman, Dr. Yassine M'Rabet, Mr. Michael Gill

LCH-323. Mike-Ryan Mofor

Evolutionary Gain and Loss of Sex Biased and Tissue Biased Genes in Drosophila

Salisbury University (Maryland)

Preceptors: Dr. Soumitra Pal, Dr. Teresa Przytycka

LCH-324. Shalika Neelaveni

Discovering the Bacterial Antecedents of Key Transcription and Apoptosis Regulators in Animals

Briar Woods High School/Academy of Science (Virginia)

Preceptors: Dr. Gurmeet Kaur, Dr. L. Aravind

LCH-325. Harshit Parmar

Open Challenges and Approaches in fMRI Data Analysis and Modeling

Texas Tech University (Texas)

Preceptor: Mr. Rodney Long

LCH-326. Daniel Schaffer

Evolutionary Origins of Animal ER Calcium Signaling and a Proposed Role for the Channelopathy Protein Wolframin

Montgomery Blair High School (Maryland)

Preceptors: Dr. A. Maxwell Burroughs, Dr. Lakshminarayan M. Iyer, Dr. L. Aravind

LCH-327. Priscilla Seah

Developing an Educational Game about Antimicrobial Resistance to Expand Consumer Health Outreach

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jeff Day, Ms. Anne Altemus

LCH-328. Brian Shen

MiClD GUI: A Toolbox for Microorganism Classification, Identification, and Metaproteomics Analysis

University of Maryland, College Park (Maryland)

Preceptor: Dr. Gelio Alves

LCH-329. Alexander Sherwin

Visual Representation of Deep Neural Networks for Localizing Region-of-Interest in Medical Images

Richard Montgomery High School (Maryland)

Preceptors: Dr. Incheol Kim, Dr. George Thoma

LCH-330. Sanjana Singh

Characterization of Cervigram Image Sharpness Using Numerous Focus Measure Operators

McLean High School (Virginia)

Preceptors: Dr. Sameer Antani, Dr. Zhiyun Xue

LCH-331. Felix Donghwi Son

Workflow Development for 3D Model Creation from the Carnegie Human Embryo Collection

University of Toronto (Non-U.S.)

Preceptor: Ms. Anne Altemus

LCH-332. Tung Tran

A Multi-task Learning Framework for Extracting Drugs and Their Interactions from Drug Labels

University of Kentucky (Kentucky)

Preceptor: Dr. Halil Kilicoglu

Office of the Director (OD)

LCH-333. Alexis Bryant

The Impact of Biomedical Research on Total Toxic Organic Discharges at a Major Biomedical Institute

University of Maryland, University College (Maryland)

Preceptor: Mr. Mark Miller

LCH-334. Christina You

Application of NIH Library Bioinformatics Resources in the Analysis of Crohn's Disease Genetics

Richard Montgomery High School (Maryland)

Preceptors: Dr. Lynn Young, Mr. James King

Clinical Center (CC)

PM-1. Alena Abraham

DCE-MRI and Lesion Volumetry in High Grade Glioma

Prince George's Community College (Maryland)

Preceptors: Dr. Nadia Biassou, Dr. Mohammadhadi Bagheri

PM-2. Mahima Agrawal

Psychosocial Interventions for Treatment Adherence among People Living with HIV/AIDS

Tufts University (Massachusetts)

Preceptor: Ms. Joy Hart

PM-3. Ivy Antunes

Characterization of Inducible Murine Monocytic and Granulocytic Differentiation

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Katherine Calvo, Ms. Stephenie Droll, Dr. Weixin Wang

PM-4. Daniel Chen

Image Overlay Accuracy Analysis of Interventional Radiology Augments Reality Application

University Of Maryland, College Park (Maryland)

Preceptors: Dr. Sheng Xu, Dr. Ming Li, Dr. Bradford Wood, Dr. Reza Seifabadi

PM-5. Jason Chou

Neural Correlates of Muscle Synergies during Gait in Children With and Without Cerebral Palsy: An EEG Study

Duke University (North Carolina)

Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

PM-6. Anna Christou

Evaluation of Immunologic Response to Cancer Therapeutics in Preclinical Animal Tumor Models

Columbia University (New York)

Preceptors: Dr. Olga Franco Mahecha, Dr. Michal Mauda-Havakuk, Dr. John Karanian, Dr. Bradford Wood

PM-7. Jordan Down-Dorsey

Application of Low Cost Microcontroller in Biomedical Research

Charles Herbert Flowers High School (Maryland)

Preceptors: Mr. Kris Kim, Mr. Linwood Tucker, Mr. George Elliott, Dr. Lawrence Szajek

PM-8. Nisita Dutta

Characterization of a Flow-through Drug Release System for Evaluation of Drug-eluting Embolic Beads for Treatment of Hepatocellular Carcinoma

Johns Hopkins University (Maryland)

Preceptors: Dr. Andrew Mikhail, Dr. Brad Wood

PM-9. Nathaniel Edisis

Optimization of Thermochromic Paint for Use in Therapeutic Heat Ablation Research

Georgetown Day School (District of Columbia)

Preceptors: Dr. Ayele Negussie, Dr. Bradford Wood

PM-10. Divya Gandla

Banking with Precision: Using Next Generation Sequencing to Predict Red Blood Cell Phenotype

Columbia University in the City of New York (New York)

Preceptors: Dr. Celina Montemayor, Dr. Harvey Klein

PM-11. Ava Akua Graf

Impact of Ebola Virus Protein on Human Intestinal Cell Function

University of Illinois - Chicago Medical School (Illinois)

Preceptors: Dr. Daniel Chertow, Dr. Kevin Vannella

PM-12. Lauren Hammel

Comparison of Hand Grasp and Release of Blocks in Children With and Without Cerebral Palsy

Southern Illinois University Edwardsville (Illinois)

Preceptors: Dr. Diane Damiano, Dr. Thomas Bulea, Mr. Christopher Stanley

PM-13. Devin Hannon

Ultrasound Calibration for Image Fusion Guided Surgery

Villanova University (Pennsylvania)

Preceptors: Dr. Sheng Xu, Dr. Reza Seifabadi, Dr. Bradford Wood

PM-14. Cindy Huang

Deconvoluting Highly-related HIV Virus Quasispecies and Early Detection of Minor Populations of HIV Drug Resistant Strains with an Improved De Novo Assembly Procedure

Thomas S. Wootton (Maryland)

Preceptors: Dr. Dawei Huang, Dr. Calvin Johnson

PM-15. Ritika Jain

Characterizing Endothelial Cell Activation by Ultrasound

University of Washington (Washington)

Preceptors: Dr. Joseph Frank, Dr. Scott Burks

PM-16. Wendy Jiang

Ethical Challenges Faced by Community Health Workers in Clinical Research: A Review of Cases and the Literature

University of Alabama at Birmingham (Alabama)

Preceptors: Dr. Christine Grady, Dr. Marion Danis

PM-17. Victoria Kocsuta

Immunophenotypic and Molecular Characteristics of Eosinophils and Mast Cells in Hypereosinophilic Syndrome Patients

Ohio State University (Ohio)

Preceptors: Dr. Irina Maric, Dr. Xiaoping Sun

PM-18. Dana Kost

Healthy Volunteer Recruitment in Clinical Trials at the NIH Clinical Center: Guide to Developing Successful Recruitment Strategies

Cornell University (New York)

Preceptors: Ms. Valery Rodrigue, Ms. Melanie Webb

PM-19. Andrea Krenek

Comparing Healthy Eating Index 2015 scores in African Immigrant, African American, and White American Women

Texas A&M University (Texas)

Preceptors: Ms. Shanna Bernstein, Dr. Amber Courville

PM-20. Joy Li

Design of Histogram-derived Metrics to Assess Quantitative Accuracy of PET Images

Cornell University (New York)

Preceptor: Dr. Roberto Maass-Moreno

PM-21. Katherine Li, Anusha Rao

Factors Affecting Hematopoietic Cell Selection on the Highly Automated CliniMACS Plus Instrument

Purdue University (Indiana), Maret School (District of Columbia)

Preceptors: Dr. Sandhya Panch, Dr. David Stroncek

PM-22. Dilara Long

Correlating Drug Dose and Radiopaque Drug-eluting Bead Density on CT Following Chemoembolization in a Woodchuck Hepatic Tumor Model

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Brad Wood, Dr. Andrew Mikhail

PM-23. Matthew Lunchick

Progressive Multifocal Leukoencephalopathy (PML): A Central Nervous System Disease

University of North Carolina at Greensboro (North Carolina)

Preceptor: Ms. Anne Fejka

PM-24. Christopher Martin

RNA-Seq Profiling of Peripheral Tissue during Persistent Inflammatory Hyperalgesia

University of Massachusetts Amherst (Massachusetts)

Preceptors: Dr. Andrew Mannes, Dr. Michael Iadarola

PM-25. Mikaela Matera-Vatnick

Characteristics and Outcomes of a Capacity-to-Consent Assessment Service

Cornell University (New York)

Preceptor: Dr. Marion Danis

PM-26. Margaret McGurn

Examination of Carbapenemase-producing Bacteria in the Hospital and Non-hospital Environment

University of Notre Dame (Indiana)

Preceptors: Dr. Karen Frank, Mrs. Frida Stock, Dr. Jung-Ho Youn

PM-27. Paras Mehta

Organ Segmentation on CT Scans Using Distributed Human Intelligence for the Generation of Annotated Datasets

University of Arizona College of Medicine - Tucson (Arizona)

Preceptor: Dr. Ronald Summers

PM-28. Irwin Munoz

Design of Spring Operated Knee Exoskeleton for Reducing Crouch Gait in Children with Cerebral Palsy

University of Nevada, Las Vegas (Nevada)

Preceptors: Dr. Ji Chen, Dr. Thomas Bulea

PM-29. Margaret Nettleton

Nitrite and cGMP Levels in a Mouse Model of Sickle Cell Disease

Frank H. Netter M.D. School of Medicine at Quinnipiac University (Connecticut)

Preceptors: Dr. Zenaide Quezado, Dr. Luis Almeida, Mrs. Sayuri Kamimura

PM-30. Sooyoun Oh

Mask-guided Realistic CT Lesion Image Generation

Cornell University (New York)

Preceptors: Dr. Ronald Summers, Dr. Youbao Tang

PM-31. Anne Overly

Nursing Management of Autoimmune Polyendocrinopathy-Candidiasis-Ectodermal Dystrophy (APECED)

East Carolina University (North Carolina)

Preceptors: Dr. Paul Wong, Ms. Mary Myers

PM-32. Yash Parikh

Viability of SNOMED CT for Cystic Fibrosis Patients within the NIH's Electronic Health Record

Hillsborough High School (New Jersey)

Preceptors: Dr. David Herion, Dr. Milica Chernick

PM-33. Megan Parker

Construction of a Donor DNA Fragment for CRISPR/Cas9 Based Gene Therapy in Congenital Adrenal Hyperplasia

Stanford University (California)

Preceptors: Dr. Qizong Lao, Dr. Deborah Merke

PM-34. Oliver Pavletic

Interoperability in Health Care: A Communication Model for Independent Electronic Health Record Systems

University of Maryland, College Park (Maryland)

Preceptors: Dr. David Herion, Mr. Christopher Siwy

PM-35. Graham Peet

Expression of TGF-beta Signaling and Extracellular Matrix-associated Genes in Tenascin Deficient Congenital Adrenal Hyperplasia

Haverford College (Pennsylvania)

Preceptors: Dr. Vipula Kolli, Dr. Deborah Merke

PM-36. Michael Ranasinghe

Combined Pharmacodynamic and Spatial Modeling of Blood, Cellular, and Background Tissue Uptake in PET Imaging: Does Change in Glitter Equal Change in Gold?

George Washington University (District of Columbia)

Preceptor: Dr. Mark Ahlman

PM-37. Emma Robinson

Chimeric Antigen Receptor T-Cell Therapy in Pediatric Acute Lymphoblastic Leukemia: The Nurse's Role

Western Kentucky University (Kentucky)

Preceptor: Ms. Anne Fejka

PM-38. Juliana Ruggiero

Effect of Secreted Mediators from THP1 Cells with Constitutively Active miRNA 145, 191, 221 on Normal THP1 Cells

Saint Vincent College (Pennsylvania)

Preceptors: Dr. Anthony Suffredini, Dr. Salina Gairhe

PM-39. Jordan Schneider

Genetic Analysis of the ICAM4 Gene in an Autochthonous East-African Population

George Washington University (District of Columbia)

Preceptors: Dr. Kshitij Srivastava, Dr. Willy Flegel

PM-40. Sofia Sheikh

Immunoassays: Always Precise, Often Precisely Wrong. Mass Spec to be Believed

University of Illinois at Chicago (Illinois)

Preceptors: Dr. Steven Soldin, Mr. Brian Stolze, Dr. Clarence Ling

PM-41. Joshua Starost

Opioid Receptors in the Spinal Cord

Poolesville High School (Maryland)

Preceptor: Dr. Michael Iadarola

PM-42. Erin Teigen

Exploring the Influence of Psychosocial Distress on Traumatic Stress Symptoms among Oncology Patients

University of Maryland School of Social Work (Maryland)

Preceptor: Mr. Schuyler Cunningham

PM-43. Sabrina Thapar

Identification of Pneumocystis Species in Wild Rodents

Winston Churchill High School (Maryland)

Preceptors: Dr. Joseph Kovacs, Dr. Liang Ma

PM-44. Caroline Wang

Effect of HIF α Inhibition on Endothelial Cell Proliferation and Apoptosis

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Dr. Robert Danner, Dr. Shuibang Wang

PM-45. Andie Weiser-Schlesinger

B. anthracis Lethal Toxin Increases Pulmonary Vascular Permeability and Resistance While Edema Toxin Negates the Resistance but Not Permeability Changes in an Isolated Perfused Rat Lung Model

Livingston Senior High School (New Jersey)

Preceptors: Dr. Xizhong Cui, Dr. Pranita Neupane, Mrs. Yvonne Fitz, Dr. Peter Eichacker

PM-46. Kenmin Wu

Effect of Granulocyte Apheresis Donation on Bone Mineral Density and Renal Function in Healthy Donors

SUNY Upstate Medical University (New York)

Preceptors: Dr. Cathy Conry-Cantilena, Dr. Kamille West

PM-47. Ruth Yonas

Prognostic Evaluation of Sick Cell Patients Treated with Stem Cells

Towson University (Maryland)

Preceptor: Ms. Joan Aaron

National Center for Complementary and Integrative Health (NCCIH)

PM-48. Uriah Contreras

Sex Differences in Visceral Hypersensitivity in the Dextran Sodium Sulfate Model of Colitis in Mice

Fort Lewis College (Colorado)

Preceptors: Dr. Santiago Martinez Gonzales, Dr. Yarimar Carrasquillo

PM-49. Michelle Guevara

Efferent Projections of Genetically Identified Cells in the Mouse Central Amygdala

Sherwood High School (Maryland)

Preceptors: Dr. Yarimar Carrasquillo, Ms. Torri Wilson, Ms. Aleisha Kahn

PM-50. Brianna Leitzelar

Autonomic Responses to Deep Pressure

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Laura Case, Dr. Catherine Bushnell

PM-51. Perri Wein

Autonomic Correlates of Tonic Noxious Heat in a Pain Insensitive Patient: A Case Study

Gratz College (Maryland)

Preceptors: Dr. Eleni Frangos, Dr. Catherine Bushnell

National Cancer Institute (NCI)

PM-52. Abigail Abikoye

A High Throughput Platform to Examine G-Quadruplex Formation and Recognition

Academy of Health Sciences at Prince George's Community College (Maryland)

Preceptor: Mr. Nima Assad

PM-53. Kwasi Aboagye

Differences in BRCA 1/2 Genetic Testing Use among Breast and Ovarian Cancer Survivors

Barry University (Florida)

Preceptors: Dr. Richard Moser, Dr. Tanya Agurs-Collins

PM-54. Joel Abraham

Semantic Modeling of the Preclinical Brain Tumor Domain

University of Maryland, College Park (Maryland)

Preceptor: Dr. Orieta Celiku

PM-55. Mary Acevedo

Retrospective Study of the Breadth of Donor Options for Patients with Inherited Diseases Requiring Allogeneic Hematopoietic Cell Transplantation in the Era of Alternative Donor Transplants

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jennifer Kanakry, Dr. Dimana Dimitrova

PM-56. Charlotte Adema

Review of Cancer Data Resources

University of Notre Dame (Indiana)

Preceptors: Dr. Dolly Penn, Dr. Janet de Moor

PM-57. Alexis Adkins, Jacqueline Chung

Nanoscale 3-D Visualization of Mitochondrial Architectures from FIB-SEM Images

Francis Scott Key High School (Maryland), Urbana High School (Maryland)

Preceptor: Dr. Kedar Narayan

PM-58. Anila Afzal

Pre-clinical Development of TSLPR-CD19 Bispecific Chimerical Antigen Receptor (CAR) to Prevent Relapse of B-cell Acute Lymphoblastic Leukemia (B-cell ALL)

University of Maryland, Baltimore County (Maryland)

Preceptors: Ms. Haiying Qin, Dr. Terry Fry

PM-59. Raphael Agbor-Enoh

Screening of Different Cancer Cell Lines for Transduction with BacMam Baculovirus To Express P-glycoprotein

Temple University School of Pharmacy (Pennsylvania)

Preceptors: Dr. Andaleeb Sajid, Dr. Suresh Ambudkar

PM-60. Sana Ahmad

The Inhibition of BRD4 with AZD5153 in Pediatric Solid Tumors

Brookwood High School (Georgia)

Preceptors: Mr. Will Kelley, Ms. Silvia Pomella, Dr. Xiaolin Wan, Mr. Berkley Gryder, Dr. Marielle Yohe

PM-61. Alexander Ahn

Investigating the Role of Exportin 7 in Pathogenesis of Hepatobiliary Tract Cancers

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Reed Ayabe, Dr. Jonathan Hernandez

PM-62. Megan Andres

Inhibition of WNT Signaling Pathway to Disrupt Brain Endothelial barrier Integrity

University of North Georgia (Georgia)

Preceptors: Dr. Amélie Vézina, Dr. Sadhana Jackson

PM-63. James Anibal

Machine Learning Analysis of Multi-dimensional CyTof Data Reveals Unique Cellular Phenotypes in Immunocompromised Patients

Case Western Reserve University (Ohio)

Preceptor: Dr. Grégoire Altan-Bonnet

PM-64. Tiffany Anthony

Prevalence of Palliative Care Consultations in Phase 1 Pediatric Oncology Patients

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Andrea CuvIELlo, Ms. Andrea Beri, Mr. Austin Layne, Dr. Lori Wiener

PM-65. Bhargav Arimilli

Spectroscopic Analysis of Reductive Carboxylation of Glutamine in Patient-derived, Fumarate Hydratase-deficient Tumor Cells

University of Texas at Dallas (Texas)

Preceptors: Dr. Dan Crooks, Dr. W. Marston Linehan, Dr. Murali Cherukuri

PM-66. Emily Ashe

Flow Cytometric Analysis of Thymocytes and Splenocytes in C57BL/6 Mice

Eckerd College (Florida)

Preceptor: Dr. Yousuke Takahama

PM-67. Asma Azam

Understanding the Role of RNA Localization on Protein Distribution and Function

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Stavroula Mili, Dr. Konstadinos Moissoglu

PM-68. Nahid Baghdadi

Histone H3 Trimethylation at Lysine 36 Is Associated with Development of Castrate Resistant Prostate Cancer

Michigan State University (Michigan)

Preceptors: Dr. Remi Adelaiye-Ogala, Dr. David VanderWeele

PM-69. Vivek Batheja

Determining the Effect of SIV Vaccination on Differentiation and Function of Natural Killer Cells

George Washington University (District of Columbia)

Preceptors: Dr. Mohammad Arif Rahman, Dr. Marjorie Robert-Guroff

PM-70. Kevin Bernal-Rivera

Two-dimensional Topological Representation of Protein Domains

Los Angeles Trade Technical College (California)

Preceptors: Dr. Philippe Youkharibache, Dr. Tom Madej, Dr. Jiyao Wang

PM-71. Aaron Bernstein

Generalized Meta-analysis: Synthesis of a Truly Integrated Breast Cancer Risk Meta-model

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Nilanjan Chatterjee, Dr. Montserrat Garcia-Closas

PM-72. Rachel Bernstein

A Comparison of Oncologists' versus Radiologists' Assessment of Cancer Patients' Re-staging Scans.

Atara Girls High School (Ohio)

Preceptors: Dr. Julius Strauss, Dr. Mohammad Hadi Bagheri

PM-73. David Billings

3D Printing of Custom Imaging Beds and Life Support Systems for PET and Other Pre-clinical Imaging Modalities

North Carolina State University (North Carolina)

Preceptors: Dr. Stephen Adler, Dr. Michael Green

PM-74. Elias Boussouf

Validation of Novel Nanoparticle Tracking Analysis Software

James Hubert Blake High School (Maryland)

Preceptors: Dr. Joshua Welsh, Dr. Jennifer Jones

PM-75. Eric Bowman Jr

Aminoglycosides and Nonaminoglycosides Influence on Readthrough Premature Stop Codons In XPC Fibroblasts

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Laila Al-Eryani, Dr. Sikandar Khan, Dr. Kenneth Kraemer

PM-76. Ashley Bushey

Immortalized Macrophages Exhibit Dysfunctional Responses in the Context of Murine Lupus-like Autoimmunity

Middletown High School (Maryland)

Preceptors: Dr. Julio Valencia, Dr. Howard Young, Mr. John Fenimore, Dr. Rebecca Erwin-Cohen

PM-77. Caitlyn Cabral

Reducing the Burden of Methicillin-resistant Staphylococcus aureus Colonization in Research Macaques

West Virginia University (West Virginia)

Preceptors: Dr. Matthew Breed, Dr. Joshua Kramer

PM-78. Sabrina Cai

Targeting Antioxidant Pathways for Cancer Therapy

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Chunzhang Yang, Dr. Yang Liu

PM-79. Wesley Caldwell

Classifying Emphysema on CT Images via Convolutional Neural Networks in the National Lung Screening Trial

University of Maryland, College Park (Maryland)

Preceptors: Dr. Hormuzd Katki, Dr. Ronald Summers

PM-80. Nikki Cannon

Benchmarking the Taxonomical and Functional Characterization of a Bacterial Consortium Used in Mouse Models Using Different Sequencing Strategies

Frankfort High School (West Virginia)

Preceptors: Dr. John McCulloch, Dr. Giorgio Trinchieri

PM-81. Jason Cao

A Comparison between the Effects of Cigarette Smoke and Hookah Smoke on Cytokine Release in Airway Epithelial Cells

Thomas S. Wootton High School (Maryland)

Preceptor: Dr. Haobin Chen

PM-82. Stephany Carrasco

Factors Regulating the Organization of B-cells in Mucosal Germinal Centers

Montgomery Blair High School (Maryland)

Preceptors: Ms. Anne Albright, Dr. Jagan Muppidi

PM-83. Katherine Carroll

Tobacco Companies' Targeting of LGBT Communities through Marketing

Colby College (Maine)

Preceptors: Dr. Christopher Wheldon, Dr. Stephanie Land

PM-84. Rachel Carter

Testing the Efficacy of NAMPT Inhibitors as a Potential Treatment for Neuroendocrine Cancer

George Mason University (Virginia)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

PM-85. Yin Mei Chan

The Role of AMPK Activation in Intermittent Fasting-improved Metabolic Dysfunction

University of California, Los Angeles (California)

Preceptors: Dr. Cen Xie, Dr. Yuhong Luo, Dr. Frank Gonzalez

PM-86. Tae Yoon Chang

Novel Signaling Pathways in a Bacterial Phosphorelay

Northern Virginia Community College (Virginia)

Preceptors: Dr. Erin Wall, Dr. Nadim Majdalani, Dr. Susan Gottesman

PM-87. Chaitali Chitnis

Novel Role of Mitochondrial Topoisomerase I (top1mt) in Non-alcoholic Steatohepatitis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andrea Baechler, Dr. Valentina Factor, Dr. Yves Pommier

PM-88. Rachel Choi

Discovery of Transcription Factor DNA Binding Domains Essential for Cancer Growth by CRISPR/cas9

Magruder High School (Maryland)

Preceptors: Mr. Berkley Gryder, Mr. Young Song

PM-89. Lily Christou

Exploring Roles of CFBF and RUNX1 in Cell Cycle Regulation

National Cathedral School (District of Columbia)

Preceptors: Dr. Navdeep Malik, Dr. Jing Huang

PM-90. Ntongacha Chu

Studying the Interaction of the N-Terminus of Arf1 with the PH Domain of Arf-GAP ASAP1

University of Chicago (Illinois)

Preceptors: Dr. Neeladri Roy, Dr. Paul Randazzo

PM-91. Hyunsoo Chung

Differential Tissue Tropism Results in Distinct Kinetics of Lymphopenia-induced Homeostatic Proliferation and Tissue Repopulation between Naïve and Memory T Cells

Columbia University in the City of New York (New York)

Preceptors: Dr. Ronald Gress, Dr. Hye kyung Kim

PM-92. Jeremy Clemente

Examination of P-gp and ABCG2 Expression in Pancreatic Cancer Cell Lines and Tissue Microarrays

University of Michigan, Ann Arbor (Michigan)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

PM-93. Rachel Cohen

Ploidy Predicts Response to Chemotherapeutics

Lander College for Women (New York)

Preceptors: Dr. Thomas Ried, Dr. Darawalee Wangsa, Dr. Oyku Gonul Geyik

PM-94. Olivia Cong

The Regulation of mTOR Expression by Transcription Factor MZF1

Northwestern University (Illinois)

Preceptors: Dr. Beverly Mock, Dr. Shuling Zhang

PM-95. Sean Cook

Characterization of a Novel Fricke Gel for Application in Gel Dosimetry

University of Maryland, College Park (Maryland)

Preceptors: Dr. Robert Miller, Dr. Jason Cheng

PM-96. Katherine Curt

Dual PI3K and Bromodomain Inhibitor SF2523 Sensitizes KRAS Mutant Cancers to the Histone Deacetylase Inhibitor Romidepsin

Boston College (Massachusetts)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

PM-97. Dominique Daly

Recombinant Immunotoxins Targeting BCMA for the Treatment of Multiple Myeloma

Hampton University (Virginia)

Preceptors: Dr. Ira Pastan, Ms. Zoe Shancer

PM-98. Shiva Deljookorani

Exploring the Relationship between Dopamine Signaling and PD-L1 Expression in Lung Cancer

Howard Community College (Maryland)

Preceptors: Mr. Christopher Grant, Dr. Brid Ryan

PM-99. Neehar Desai

Optimization of Micrococcal Nuclease Assay for CHIP Sequencing for YD10B Squamous Cell Carcinoma Cells

Jesuit High School (Louisiana)

Preceptor: Dr. Vassiliki Saloura

PM-100. Julian Dixon

The Localization and Role of Septins in the Mammalian Colon

Harvard (Massachusetts)

Preceptors: Dr. Roberto Weigert, Dr. Seham Ebrahim, Mr. Max Weiss

PM-101. Kalie Dominick

Pilot Evaluation: Role of NLRP3 Inhibition in Liver Pathology in Sickle Cell Disease

Syracuse University (New York)

Preceptors: Dr. Martha Quezado, Dr. Zenaide Quezado, Dr. Astin Powers

PM-102. Janhavi Dubhashi

Comparative Efficacy of Single Agent versus Combination Drug Therapy Using SNX and Dasatinib for Papillary Renal Cell Carcinoma

Georgia State University (Georgia)

Preceptors: Dr. Roma Pahwa, Dr. Ramaprasad Srinivasan

PM-103. Ashli Earl

IL-15 Stimulates IP10 Production and Attracts CXCR3+ T Lymphocytes

Frederick Community College (Maryland)

Preceptor: Dr. Antonio Valentin

PM-104. Sarah Eng

Serine 861 Phosphorylation of Epithelial Cell Transforming 2 (ECT2) Is a Potential Target for Triple Negative Breast Cancer: Bioinformatics Analysis

University of Southern California (California)

Preceptors: Dr. Dunrui Wang, Dr. Douglas Lowy

PM-105. Elizabeth Engle

Cytokine Regulators of Muscle Fatigue in Autoimmunity

Urbana High School (Maryland)

Preceptors: Dr. Howard Young, Mr. John Fenimore, Dr. Julio Valencia, Dr. Rebecca Erwin-Cohen

PM-106. Tiama Essama-Ayi

Exploring the CD47 'Don't Eat Me Signal' in Normal and Malignant Breast Cells

Rockville High School (Maryland)

Preceptors: Dr. Sukhbir Kaur, Dr. David Roberts

PM-107. Rivka Farrell

Effects of Low-dose Demethylating Agent Decitabine on Breast Cancer Cells

Bais Yaakov of Passaic High School (New Jersey)

Preceptors: Mrs. Sarah Deasy, Dr. Daniel Edelman

PM-108. Sivia Feinstein

Effects of ARS-853, a Covalent KRAS G12C Specific Inhibitor in Neuroblastoma

Bnos Yisroel (Maryland)

Preceptors: Dr. Xiaolin Wan, Dr. Marielle Yohe

PM-109. Iris Feng

Is There an Interaction between FGFR1 and FGF8 in Embryonic Kidney Development?

University of California, Los Angeles (California)

Preceptors: Dr. Alan Perantoni, Dr. Mark Lewandoski, Dr. Michael Hall

PM-110. Ruonan Feng

Development of Anti-B7H3 Antibodies for Cancer Immunotherapy

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Dr. Mitchell Ho, Dr. Zhijian Duan

PM-111. Cheyenne Fields

Optimization of the Human Papillomavirus (HPV)-16 L1- specific Enzyme-linked Immunosorbent Assay (ELISA)

Hood College (Maryland)

Preceptors: Dr. Jason Marshall, Dr. Ligia Pinto, Dr. Athina Zacharia

PM-112. Tiana Fitzgerald

The Role of E3 Ubiquitin Ligase Protein RMND5A in Ciliogenesis

Princeton University (New Jersey)

Preceptors: Dr. Jian Sun, Dr. Ira Daar

PM-113. Jamie Fleishman, Katie Dolan

Screening Theories Project

University of Maryland, College Park (Maryland), University of Maryland, College Park (Maryland)

Preceptor: Dr. Kara Hall

PM-114. Kristina Folta

Mechanism of the Multidrug Transporter P-Glycoprotein: Characterization of Fluorescent Probe-conjugated Substrates

Pomona College (California)

Preceptors: Dr. Andaleeb Sajid, Dr. Suresh Ambudkar

PM-115. Meagan Ford

Determining the Optimal Sequence of NAMPT and Topoisomerase 1 Inhibition in Ewing Sarcoma Cell Lines

Jackson State University (Mississippi)

Preceptors: Ms. Anna Gibson, Mr. Choh Yeung, Dr. Christine Heske

PM-116. James Frisbie

Clinical and Molecular Characteristics of Long Term Survivors of Central Nervous System Tumors: A Report from the Neuro-Oncology Branch Natural History Study

University of Maryland School of Medicine (Maryland)

Preceptors: Dr. Terri Armstrong, Dr. Mark Gilbert, Ms. Elizabeth Vera

PM-117. Ophir Gal

Predicting Complete Remission in Leukemia Patients Using Gene Expression

University of Maryland, College Park (Maryland)

Preceptors: Dr. Daoud Meerzaman, Ms. Noam Auslander

PM-118. Kelsey Gallant

Targeting the PARP1 DNA Repair Pathway in IDH1-mutated Glioma

Spelman College (Georgia)

Preceptors: Dr. Yiqiang Zhou, Dr. Yang Liu, Ms. Di Yu, Dr. Chun Zhang Yang

PM-119. Benjamin Garcia

Chemoenzymatic Sialylation Optimization of a GalNAc Tyrosine Derivative

University of Texas Rio Grande Valley (Texas)

Preceptors: Dr. Jeff Gildersleeve, Dr. Molly Congdon

PM-120. Katherine Gelinas

Characterization of SIVmac251 gp120 Mutant Proteins

Longmeadow High School (Massachusetts)

Preceptors: Dr. Genoveffa Franchini, Dr. Isabela Silva de Castro

PM-121. Radhika Gholap

Development of a RT-PCR Panel to Investigate Myogenic Gene Expression and Fusion Status in Suspected Cases of Rhabdomyosarcoma

University of Maryland, College Park (Maryland)

Preceptors: Dr. Frederic Barr, Dr. Bishwanath Chatterjee

PM-122. Calvin Godfrey

Highly Multiplex Imaging of Mouse Spleen Using CODEX

University of Maryland, College Park (Maryland)

Preceptors: Dr. Noemi Kedei, Dr. Jin-Qiu Chen

PM-123. Michael Gouzoulis

Characterization of the Mechanism of Action of Combination Treatment with NAMPT Inhibitor OT-82 and Topoisomerase 1 Inhibitor SN-38 in Ewing Sarcoma

University of Maryland, College Park (Maryland)

Preceptors: Mr. Choh Yeung, Dr. Christine Heske

PM-124. Nikhil Gowda

Unraveling the Single-cell Transcriptomic Profile of Pediatric T-Cell Acute Lymphoblastic Leukemia Treated with Anti-hIL7R

George Washington University School of Medicine (District of Columbia)

Preceptors: Dr. Maggie Cam, Mr. Parthav Jailwala, Dr. Vishal Koparde, Dr. Scott Durum, Ms. Julie Hixon

PM-125. Kimberly Grasmick

Regulation of Ciliogenesis by Basigin (CD147)

West Virginia University (West Virginia)

Preceptors: Dr. Jaeho Yoon, Dr. Ira Daar

PM-126. Hannah Grayman

Advances in Therapy Approaches for Rett Syndrome

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Daniel Edelman, Dr. Galit Saar

PM-127. Adlai Grayson

Castration-resistant Prostate Cancer Upregulates Alternative Pathways to Promote Cancer Survival

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. David VanderWeele, Dr. Remi Adelaiye-Ogala

PM-128. Tarik Green

Understanding the Role of a Novel Gene in Muscle Invasive Bladder Cancer

University of Miami (Florida)

Preceptors: Dr. Rouf Banday, Dr. Ludmila Prokunina

PM-129. Nina Gutzeit, Richard Korshkov

Delineation of Tumor Heterogeneity and Segregation Errors in Cervical Cell Lines Using miFISH and Binucleated FISH Assays

Field School (District of Columbia), Western Sierra Collegiate Academy (California)

Preceptors: Dr. Anna Roschke, Dr. Kerstin Heselmeyer-Haddad, Mr. Tim Thoerner, Dr. Thomas Reid

PM-130. Nana Gyabaah-Kessie

Cooperative CDK/HDAC Inhibition in Carfilzomib Resistant Multiple Myeloma

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Tyler Peat, Dr. Beverly Mock

PM-131. Chloe Ham

Analytic and Stochastic Methods for Modelling Cytokine Interactions amongst Leukocytes

George Mason University (Virginia)

Preceptor: Dr. Grégoire Altan-Bonnet

PM-132. Jonathan Han

Chemotherapeutic PARP Inhibitors Alter p53 Dynamics and Cell Fate following DNA Double-strand Break Induction

Cornell University (New York)

Preceptors: Dr. Ryan Hanson, Dr. Eric Batchelor

PM-133. Jenna Hasson

FLIP-SGS: A Novel Assay to Characterize the Genetics and Site of Integration of HIV-1 Proviruses in the Peripheral Blood

Hood College (Maryland)

Preceptors: Dr. Sean Patro, Dr. Mary Kearney

PM-134. Melanie Heller

Multispectral Faces of Programmed Death Ligand 1(PD-L1) in Human Tissue

Winston Churchill High School (Maryland)

Preceptors: Dr. Houssein Abdul Sater, Dr. Beatriz Walter Rodriguez, Dr. James Gulley, Dr. Jeffrey Schlom

PM-135. Cristal Imar Hernandez-Hernandez

Impact of Mitogen-activating Protein MEK Inhibition in the Growth of Medullary Thyroid Cancer

Universidad Central del Caribe School of Medicine (Puerto Rico)

Preceptors: Dr. John Glod, Dr. Brigitte Widemann

PM-136. Katharine Hewlett

Development of Compounds That Are Broadly Effective against HIV-1 INSTI-resistant Integrase Mutants

Brown University (Rhode Island)

Preceptors: Dr. Steven Smith, Dr. Stephen Hughes

PM-137. Jane Higley

Chronotype and Insulin Resistance

Denison University (Ohio)

Preceptor: Dr. Carolyn Reyes-Guzman

PM-138. Luna Homsí

Assessing Training Needs of Adult Learners in the NCI Summer Curriculum Cancer Training Program

University of Maryland, College Park (Maryland)

Preceptors: Dr. Hala Azzam, Ms. Crystal Spruill, Ms. Aili Evert, Mrs. Yelena Shnyder

PM-139. Mackenzie Honikel

Development of Tumor-associated Carbohydrate Antigen (TACA) Coated Nanoparticles for Inhibition of Tumor Cell Adhesion and Metastasis

Arizona State University (Arizona)

Preceptor: Dr. Joseph Barchi

PM-140. Alex Hruska

Probing Cellular Response to Topography and Micromechanical Stiffness in Three Dimensions

Brown University (Rhode Island)

Preceptor: Ms. Kandice Tanner

PM-141. Tiffaney Hsia

CTC Analysis Using EMT markers in Patients Treated with AZD1775 or Nilotinib+Paclitaxel

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Geraldine O'Sullivan Coyne, Dr. Alice Chen, Dr. Naoko Takebe

PM-142. Maddie Hurwitz

Genetic Analysis of Digit Number Control by Positive and Negative Feedback Loops between Mesodermal Shh and Ectodermal Fgf8

Williams College (Massachusetts)

Preceptors: Dr. Jianjian Zhu, Dr. Susan Mackem

PM-143. Hena Hussain

Sensitivity of Poly (ADP-ribose) Polymerase Inhibitors as a Single Agent or in Combination with Temozolomide to Patient-Derived Mesothelioma Cell Lines

Sherwood High School (Maryland)

Preceptor: Dr. Mana Kamana Khanal

PM-144. Cheryl Hutman

Pharmacotherapy of Fragile X Syndrome Using mGluR5 Antagonists

Bnos Yisroel High School (Maryland)

Preceptors: Dr. Inbal Gazy, Dr. Daniel Edelman

PM-145. Natalie Hwang

Enhancing Adoptive Cell Therapy for Human Cancer with miR-155

Tufts University (Massachusetts)

Preceptors: Dr. Luca Gattinoni, Mr. Neal Lacey

PM-146. Robert Hwang

The Role of TRAF-binding Domains in CD40-mediated Ig Class Switching

North High School (Iowa)

Preceptors: Dr. Richard Hodes, Mrs. Ying Lu, Mr. Jeffrey Chiang

PM-147. Iris Indig

Using CA9 CAR-T Cells to Target Glioblastoma Multiforme

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Jing Cui, Dr. Zhengping Zhuang, Dr. Mark Gilbert

PM-148. Kavita Iyer

An Analysis of Translational Behavioral and Social Sciences Research: A Review of the Past Twenty Years

Columbia University Mailman School of Public Health (New York)

Preceptors: Ms. Alicia Livinski, Dr. Ya-Ling Lu, Dr. Susan Czajkowski

PM-149. Rida Jamal

Development of Alternative Confirmatory Assays for CRISPR/Cas9 Mediated Knock-In

John Champe High School (Virginia)

Preceptors: Dr. Wei-dong Chen, Dr. Thomas Ried

PM-150. Kathleen Jevtich

Network Analysis of the mTOR Interactome in a Tumor Susceptibility Model

Fairfield University (Connecticut)

Preceptors: Dr. Beverly Mock, Dr. Patty Wiley

PM-151. Michelle Ji

A Study of the Correlation between Tumor and Neoantigen Recognition by TCRs Identified in TIL from Patients with Gastrointestinal Cancers

Northwestern University (Illinois)

Preceptors: Dr. Zhiya Yu, Dr. Nicholas Restifo

PM-152. Andrew Jing, Caroline Hardie

Elucidating the Impact of Metabolic Activity and Cell Adhesion on the Sensitivity of KRAS Mutant Cancer Cells to Ras Effector Pathway Inhibitors

Sidwell Friends School (District of Columbia), Colgate University (New York)

Preceptors: Dr. Ji Luo, Dr. Shin-Jen Lin

PM-153. Christina E. Jones

Evaluating Scales Used to Assess Trial Quality

University of Detroit Mercy (Michigan)

Preceptor: Dr. Vance W. Berger

PM-154. Seungyeon Jung

Developing an Automatic Segmentation Method for Monitoring Metastatic Lung Disease in Patients with Alveolar Soft Part Sarcoma (ASPS)

Vanderbilt University (Tennessee)

Preceptors: Dr. Eva Dombi, Dr. Jeffrey Solomon, Dr. Brigitte Widemann

PM-155. Melissa Kallarakal

Transcriptional Control of Foxn1 in Thymic Epithelial Cells

Montgomery College (Maryland)

Preceptors: Dr. Avinash Bhandoola, Dr. Brian Larsen

PM-156. Saisruthi Kannan

Identifying Suppressor Mutations That Mitigate a Defect in Bacterial Morphogenesis

George Mason University (Virginia)

Preceptors: Dr. Kumaran Ramamurthi, Ms. Carissa Chan

PM-157. Naviya Kapadia

Rapid Identification and Optimization of T-Cell Receptors Recognizing Tumor Neoantigens

Harker School (California)

Preceptors: Dr. James Yang, Dr. Kenichi Hanada, Mr. Chihao Zhao

PM-158. Priya Katyal

T Cell Receptor A/B NGS Library Preparation/Sequencing Optimization of Activated CD8+/CD4+ T Cells from Immunohistochemistry (IHC) Stained Formalin-fixed and Paraffin-embedded Tumor Tissue

St. Stephens and St. Agnes School (Virginia)

Preceptor: Dr. Todd Prickett

PM-159. Will Kelley

Identifying Transcription Drivers of Pediatric Cancers Using Coltrion

Middlebury College (Vermont)

Preceptors: Dr. Berkley Gryder, Dr. Javed Khan

PM-160. Victoria Kennerley

Spatio-temporal Patterns of Meningioma Incidence in United States, 2004-2015

University of Florida (Florida)

Preceptors: Dr. Philip Rosenberg, Dr. Ana Best

PM-161. Emily Kim

CD1d-tetramer-mediated Enrichment of iNKT Cells Skews Their Subset Composition and Introduces a Bias towards NKT2 Lineage Cells

Georgetown University (District of Columbia)

Preceptor: Dr. Hyun Park

PM-162. Iris Kim

Generating delta133p53 Knockout ES Cells Using CRISPR/Cas9 Technology

Vanderbilt University (Tennessee)

Preceptors: Dr. Izumi Horikawa, Dr. Curtis Harris, Dr. Kye-yoon Park

PM-163. Madeline Kim

Reproducible and Reusable Cancer Analysis Pipelines on the NCI Cloud Resources

University of Chicago (Illinois)

Preceptor: Dr. Hsinyi Tsang

PM-164. Yujin Kim

Role of Immunoglobulin Subtypes in Hepatocellular Carcinoma

Emory University (Georgia)

Preceptors: Dr. Jinping Liu, Dr. Xin Wei Wang

PM-165. Gabriel Kline

Efficient Syntheses of Stable, Near-infrared Fluorescent Markers for Antibody Labeling and Ureter Imaging

Colby College (Maine)

Preceptors: Dr. Michael Luciano, Dr. Martin Schnermann

PM-166. Jessica Kline

Cytokine-dependent MSC Differentiation Disrupts Disseminated Tumor Cell Dormancy

Washington University in St. Louis (Missouri)

Preceptors: Mr. Shil Patel, Dr. Meera Murgai, Dr. Rosandra Kaplan

PM-167. Lindsay Kohan, Kevin Kong

Ramification of the Model Structure of H1X with TAF-1beta by Point Mutation

University of Maryland, College Park (Maryland), Winston Churchill High School (Maryland)

Preceptors: Dr. Shipeng Li, Dr. Hanqiao Feng, Dr. Yawen Bai

PM-168. Amita Kulshreshtha

Impact Of CRS on Cardiac Function following CD19 CAR-T Cell Therapy In Children And Young Adults with ALL

University of Texas Southwestern Medical School (Texas)

Preceptor: Dr. Nirali Shah

PM-169. Anurika Kumar

Is CENP-A's Innate Elastic Nature Conserved?

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Daniël Melters, Dr. Yamini Dalal

PM-170. Sahana Kundu, Rhea Sofat

The Effect of the Steroid Hormone Receptor Ligand Guggulsterone on Radiation-induced Senescence in Human Tumor Cell Lines

Poolesville High School (Maryland), University of Maryland, College Park (Maryland)

Preceptors: Dr. Rajani Choudhuri, Dr. Chandra Nagineni, Dr. John Cook, Dr. Murali Cherukuri

PM-171. Miriam Temmeh Lattin

APOL1 Risk Allele Status in Hidradenitis Suppurativa and Sarcoidosis

Stern College for Women, Yeshiva University (Non-U.S.)

Preceptors: Dr. Cheryl Winkler, Mrs. Elizabeth Binns-Roemer

PM-172. Rivka Lax

Mother-to-Newborn Transmission of Autoimmune Diseases: Case Reports of Neonatal Lupus Erythematosus.

Manhattan High School for Girls (New York)

Preceptors: Dr. Ana Caroline Costa Da Silva, Dr. Daniel Edelman

PM-173. Anh Le

Identification and Characterization of Novel Targets in SCLC Using the iPSC Model

University of Maryland, College Park (Maryland)

Preceptors: Dr. David Schrupp, Dr. Vivek Shukla, Dr. Sudheer Kumar Gara

PM-174. Farland Lee

Sequence Analysis of Camelid Single Domain Antibodies

Walt Whitman High School (Maryland)

Preceptors: Dr. Hejiao Bian, Dr. Mitchell Ho

PM-175. Eileen Li

Interrogation of Translational Activator Protein GCN1L1 Pathway in Metastatic Dormancy and Reactivation

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Jonathan Hernandez, Dr. Surajit Sinha

PM-176. Xinyi (Mimi) Li

My STORI: A Symptom Tracking and Reporting Instrument for CNS Cancer Patients

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Terri Armstrong, Dr. Orieta Celiku, Ms. Elizabeth Vera, Dr. Mark Gilbert

PM-177. Leah Liebman

Combinatorial Immunotherapy Can Enhance Antitumor Activity in Multiple Myeloma

Bnos Yisroel High School (Maryland)

Preceptors: Ms. Meghali Goswami, Dr. Daniel Edelman

PM-178. Vivian Lin

Screening of Small Molecules to Overcome P-glycoprotein-mediated Resistance to Anticancer Drugs

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Megumi Murakami, Dr. Suresh Ambudkar

PM-179. Cami Lingenfelter

Investigating the Effect of Nat10 on Metastasis through Ribosomal Transcription

College of William & Mary (Virginia)

Preceptors: Dr. Ngoc-Han Ha, Dr. Kent Hunter

PM-180. Jose Lopez

Standardization of Clonogenic Assay: Literature Review and Colony Forming Assay

University of Texas at El Paso (Texas)

Preceptor: Mr. Mansoor Ahmed

PM-181. Carolina Lopez Silva

Ciliary Targeting of a DREADD-Gi to Study cAMP Regulation of Hedgehog Signaling

William & Mary (Virginia)

Preceptors: Dr. Ramiro Iglesias-Bartolome, Dr. Pilar Pedro

PM-182. Matthew Lynberg

Targeting Metabolic Vulnerabilities in Drug Resistant Non-small Cell Lung Cancer

Monterey Peninsula College (California)

Preceptors: Dr. Abhilash Venugopalan, Dr. Udayan Guha

PM-183. Justin Ma

Detecting Prostate Cancer Hidden from Multi-parametric MRI with 18F-DCFPyL PET

Poolesville High School (Maryland)

Preceptors: Dr. Maria Lindenberg, Dr. Esther Mena Gonzalez, Dr. Baris Turkbey, Dr. Stephanie Harmon

PM-184. Arushi Mahajan

The Role of MicroRNA 206 in Mesothelioma

University of Michigan (Michigan)

Preceptors: Dr. Chuong Hoang, Dr. Anand Singh, Dr. Nathanael Pruett

PM-185. Ruchika Mahapatra

Selective pre-miRNA Degradation and the Effect of 25-hydroxycholesterol on Innate Immunity Genes

University of California, Berkeley (California)

Preceptors: Dr. Joseph Ziegelbauer, Dr. Anna Serquina, Dr. Takanobu Tagawa, Dr. Insun Kook

PM-186. Frances Angela Maher

Investigating the Responses of Cisplatin-resistant Ovarian Cancer Cells to Tubulin Drugs

Brandeis University (Massachusetts)

Preceptors: Dr. Michael Gottesman, Dr. Sachi Horibata, Ms. Ruchi Patel

PM-187. Madison Martin

Mutational Analysis of the Role of the Matrix Domain of HIV-1 Gag Protein in RNA Binding

Lebanon Valley College (Pennsylvania)

Preceptors: Ms. Demetria Harvin, Dr. Tomas Kroupa, Dr. Alan Rein

PM-188. Cole Martini

The Detection of LST-3TM12 in Human Cancer Cells

Washington University in St. Louis (Missouri)

Preceptor: Dr. Tristan Sissung

PM-189. Maria Maslyanko

Immunohistochemical Evaluation of Histones in Gliomas

George Mason University (Virginia)

Preceptors: Dr. Martha Quezado, Dr. Osorio Lopes Abath Neto

PM-190. Franck Mbuntcha Bogni

Development of an Improved Imaging System to Visualize HIV Assembly.

Montgomerycollege (Maryland)

Preceptor: Dr. Jonathan Rawson

PM-191. Kayla McDonald

High-throughput Sequencing of 4-thiouridine Modified RNAs in E. coli

Spelman College (Georgia)

Preceptors: Dr. Pedro Batista, Dr. Christina Fitzsimmons

PM-192. Kyle McGreivy, Dave Peeney

Assessing the Non-classical Functions of TIMP-2

Saint Mary's College of Maryland (Maryland), (-)

Preceptors: Dr. Dave Peeney, Dr. Sandra Jenson, Dr. William Stetler-Stevenson

PM-193. Isabella Meerzaman

Ki-67: Biomarker in Clinical Trials: How Is it Used?

Thomas A. Edison High School (Virginia)

Preceptors: Dr. Barbara Dunn, Mrs. Carol Topp

PM-194. Shubham Mehta

Targeting HIV Reverse Transcriptase via Negative-mRNA Encoding Pseudomonas Exotoxin

University of South Carolina (South Carolina)

Preceptors: Dr. Sankar Adhya, Dr. David FitzGerald, Dr. Dale Lewis, Dr. Nathan Simon

PM-195. Sheindel Meister

The Association Between the Efficacy of Cabozantinib and Hypothyroidism in Patients with Soft Tissue Sarcomas

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Geraldine O'Sullivan Coyne, Dr. Alice Chen

PM-196. Nathan Mella

Mapping TBATA CSN1 Interaction Protein Domains

Brigham Young University (Utah)

Preceptor: Dr. Francis Flomerfelt

PM-197. Shira Mencer

Phantom Limb Pain and Its Treatments: Evidence-based Medicine

Bnos Yisroel of Baltimore High School (Maryland)

Preceptors: Dr. Emily Petrus, Dr. Daniel Edelman

PM-198. Jonathan Mendley

Retrospective Analysis Using Known Prognostic Scoring Systems in Oncology Phase 1 Patients

University of Chicago (Illinois)

Preceptors: Dr. Alice Chen, Dr. Geraldine Helen O'Sullivan Coyne, Dr. Naoko Takebe

PM-199. Shani Menken

Impact of Lenvatinib (TKI) in the Growth of Medullary Thyroid Cancer

Gratz College (Maryland)

Preceptors: Dr. John Glod, Dr. Brigitte Widemann

PM-200. Ritika Miryala

Variant Classification on Cancer Genomics Cloud Using Machine Learning Classifiers

Northwest High School (Maryland)

Preceptors: Dr. KanakaDurga Addepalli, Dr. Steve Tsang

PM-201. Mitchell Moore

Detection of Cancer Biomarkers on the Surface of Extracellular Vesicles (EV) from Clinical Samples

Texas A&M University (Texas)

Preceptors: Dr. Jennifer Jones, Dr. Joshua Welsh, Ms. Julia Kepley

PM-202. Caroline Moreyra

Nitric Oxide-mediated Kynurenine/AHR Signaling Enhances Disease Progression in Pancreatic Cancer

Cornell University (New York)

Preceptors: Dr. Perwez Hussain, Dr. Limin Wang

PM-203. Shayan Nazari

Investigating the Role of the PERK/JAK2/STAT3 Axis in Stress-induced C/EBP δ Expression in Triple Negative Breast Cancer

University of North Carolina at Charlotte (North Carolina)

Preceptors: Dr. Namratha Sheshadri, Dr. Esta Sterneck

PM-204. Shivani Nellore

The Role of Phosphorylation of Ect2 S336 in Human Cancer

North Oldham High School (Kentucky)

Preceptors: Dr. Xiaolan Qian, Dr. Dunrui Wang, Mr. Alex Papageorge, Dr. Douglas Lowy

PM-205. Valerie Nguyen

The Effect of Genetically-engineered Myeloid Cells (GEMys) on T-Cell Function

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Sabina Kaczanowska, Dr. Rosandra Kaplan, Dr. Daniel Beury

PM-206. Rande Nieto

The DNA Binding Properties of HU in Mycoplasma pulmonis

Grinnell College (Iowa)

Preceptors: Dr. Subhash Verma, Ms. Sabina Gudmundsson

PM-207. Andrea Noronha

Examination of the Effect of Small Molecule Inhibitors on the Binding of Purified Hepatitis B Virus Reverse Transcriptase to its Cognate RNA Epsilon

Temple University (Pennsylvania)

Preceptors: Dr. Jennifer Miller, Dr. Jason Rausch

PM-208. Maria Novitskaya

Using Single Cell Western to Dissect the Protein Kinase C Signaling Pathway

University of Maryland, College Park (Maryland)

Preceptors: Dr. Noemi Kedei, Dr. Jinqiu Chen

PM-209. Anthony Nwankwo

Characterization of B1 Cells in the Bone Marrow of SIV-infected Rhesus Macaques

University of Maryland, College Park (Maryland)

Preceptor: Dr. Gospel Asonye

PM-210. Chidera Obiwuma

Development of a System to Examine Transporters at the Blood-Brain Barrier

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey, Ms. Andrea Robinson

PM-211. Taivan Odzorig

The Innate Defense Regulator RP-182 Induces Pattern Recognition Receptor Expression on M2-like Macrophages

University of Maryland, College Park (Maryland)

Preceptors: Dr. Rushikesh Sable, Mr. Zachary Knotts, Dr. Udo Rudloff

PM-212. Daniel Oh

Integrated microRNA, mRNA, and Protein Expression Profiles in bPGN-treated Colorectal Cancer Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Joe Matarlo, Dr. Barry O'Keefe

PM-213. Felix Oh

Combining VEGFR-targeting Drugs with Immunotoxins Directed to Surface-expressed Mesothelin on Cancer Cells

University of Minnesota-Twin Cities (Minnesota)

Preceptors: Dr. David FitzGerald, Dr. Antonella Antignani, Dr. Nathan Simon

PM-214. Jonas Okafor Jr.

Qualitative Analysis of Patient and Parent Reported Clinical Changes in Children with Neurofibromatosis Type 1 and Inoperable Plexiform Neurofibromas on SPRINT: A Phase II Trial of the MEK 1/2 Inhibitor Selumetinib (AZD6244, ARRY-142886)

University of Maryland, College Park (Maryland)

Preceptors: Dr. Pamela Wolters, Mrs. Mary Anne Tamula, Dr. Staci Martin, Dr. Brigitte Widemann

PM-215. Michael Onwukaeme

Improving Brain Tumor Immunotherapy Outcome by Modulating the Integrity of the Blood-Brain Barrier

Howard University (District of Columbia)

Preceptors: Dr. Nivi Ratnam, Dr. Amber Giles, Dr. Mark Gilbert

PM-216. Sandra Oska

Multiple Genetic Abnormalities Confound the Genotype/Phenotype Relationship: Cockayne Syndrome Patient with MEN1 and FH Mutations

Oakland University William Beaumont School of Medicine (Michigan)

Preceptors: Dr. Kenneth Kraemer, Dr. John DiGiovanna

PM-217. Teresa Ozga, Bethany Kuo

Examining the Biochemical Mechanism of the CD47 Morpholino in Normal Versus Cancerous Cells

Eleanor Roosevelt High School (Maryland), Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Sukhbir Kaur, Dr. David Roberts

PM-218. Reethi Padmanabhan

Evaluating the Binding Properties of B-ZIP Proteins

Montgomery Blair High School (Maryland)

Preceptors: Dr. Charles Vinson, Mr. Ani Ufot

PM-219. Aprill Park

Sub-cloning of RNF168 Catalytic Dead Mutant

University of Michigan (Michigan)

Preceptor: Dr. Ukhyun Jo

PM-220. Kiran Parwani

The Effects of Wild Type versus Enzymatically-inhibited SIRT1 Protein on DNA Origins of Replication

University of Southern California (California)

Preceptors: Dr. Mirit Aladjem, Ms. Adrian Baris

PM-221. Lilli Pedersen

Novel Mutations in Hypoxia Signaling Pathway Lead to Polycythemia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Herui Wang, Dr. Zhengping Zhuang, Dr. Mark Gilbert

PM-222. Helen Peng

Exploring the Mechanism of Pomalidomide-induced Surface Marker Expression in Virus-infected Cells

University of Kansas (Kansas)

Preceptors: Dr. Robert Yarchoan, Dr. David Davis

PM-223. Luyi Peng

Engineering Anti-GPC2 Antibodies in CAR T Cells Targeting Neuroblastoma

Johns Hopkins University (Maryland)

Preceptors: Dr. Nan Li, Dr. Mitchell Ho

PM-224. Adelle Perkelvald

Evaluation of Olaparib, a PARP Inhibitor, in the Treatment of HER2- Negative Metastatic Breast Cancer in Patients with BRCA Germline Tumor Mutations.

Lev Bais Yaakov High School (New York)

Preceptors: Dr. Alida Palmisano, Dr. Dan Edelman

PM-225. Nathan Phillips

Insight into the Role of Smurfs on the Repair of Cutaneous Wounds in Mice

James Hubert Blake High school (Maryland)

Preceptors: Dr. Christina Stuelten, Dr. Ying Zhang

PM-226. Olivia Preston

Molecular Mechanisms That Prevent Mislocalization of CenH3 Variant to Promote Chromosome Stability

Colgate University (New York)

Preceptors: Dr. Munira Basrai, Dr. Jessica Eisenstatt

PM-227. Nancy Qin

Identification of Radiation-responsive miRNA from Lungs of Whole Body Irradiated Mini-pigs

Cornell University (New York)

Preceptors: Dr. Moly Aryankalayil, Dr. Sunita chopra

PM-228. Anaisa Quintanilla-Arteaga

A Model of Proteasome Inhibitor Resistance driven by Metabolic Reprogramming in Multiple Myeloma

Georgetown University (District of Columbia)

Preceptors: Dr. Snehal Gaikwad, Dr. Beverly Mock

PM-229. Madeline Ramser

Two Lead Compounds of a Novel Class of Androgen Receptor (AR) Antagonists: A Pharmacokinetic Analysis

Georgetown College (Kentucky)

Preceptors: Dr. William Figg, Dr. Cody Peer

PM-230. Maya Ravichandran

Structural Variants in Osteosarcoma

Rutgers University (New Jersey)

Preceptor: Dr. Paul Meltzer

PM-231. Peter Raymond-Smiedy

How Does E. coli Recover from Magnesium Starvation?

Binghamton University (New York)

Preceptors: Dr. Susan Gottesman, Dr. Nadim Majdalani

PM-232. Noor Raza, Xiao Ling Li

Investigating the Mechanisms of LINC00675 Transcriptional Regulation in Colorectal Cancer Cells

Sherwood High School (Maryland), (-)

Preceptors: Dr. Ashish Lal, Dr. Xiao Ling Li

PM-233. Emily Reagle

Isostichopin: Initial Studies on a Potent Cytotoxic Protein from the Cookie Dough Sea Cucumber Isostichopus badionotus

University of Maryland, College Park (Maryland)

Preceptors: Dr. Carter Mitchell, Dr. Barry O'Keefe

PM-234. Tiffany Ashley Reyes

The Search for ALK-fusion Genes in Colorectal Carcinoma with Immunohistochemistry

Rockville High School (Maryland)

Preceptor: Mrs. Patricia Fetsch

PM-235. Alexander Robbins

Sub-cloning of LZTR1 Over Expressing Vector

Walter Johnson High School (Maryland)

Preceptor: Dr. Ukhyun Jo

PM-236. James Rogers

Provider Reported Challenges and Barriers to Referring Patients to Neuro-oncology Clinical Trials: A Report from the Society for Neuro-oncology Member Survey

Tulane University (Louisiana)

Preceptors: Dr. Terri Armstrong, Dr. Mark Gilbert, Ms. Elizabeth Vera, Ms. Alvina Acquaye

PM-237. Dahlia Rohm

Role of Chromatin Binding Protein HMGN3 in Pancreatic Development

Johns Hopkins University (Maryland)

Preceptors: Dr. Takashi Furusawa, Dr. Michael Bustin

PM-238. Mia Rosenfeld

Investigation of the Role of Topoisomerase II in Chromosome Condensation

University of North Carolina Wilmington (North Carolina)

Preceptors: Dr. Alexander Kelly, Mr. Julian Haase

PM-239. Ana Rosu

RNA Nanoparticle Processing within RNA Interference Pathway

University Laboratory High School (Illinois)

Preceptors: Dr. Lorena Parlea, Mr. Anuk Dayaprema, Dr. Paul Zakrevsky, Dr. Bruce Shapiro

PM-240. Claire Ruben

Predictors of Malignancy Relapse among Patients with Chronic Graft-Versus-Host Disease

University of Rochester (New York)

Preceptor: Dr. Steven Pavletic

PM-241. Nathan Ruchelman

Molecular Remissions in Patients with Hairy Cell Leukemia after Anti-cd22 Recombinant Immunotoxin Moxetumomab Pasudotox in Phase I and Phase III Trials

Touro College (New York)

Preceptors: Dr. Robert Kreitman, Dr. Evgeny Arons

PM-242. Rachel Rutstein

Activation of p53 Protein Results in Anemia in 5q syndrome

Yeshiva of Greater Washington (Maryland)

Preceptors: Mrs. Laura Marler, Dr. Daniel Edelman

PM-243. Rishabh Saha

The Immunohistochemical Detection of TRK - fusion Proteins in Colorectal Carcinoma

Richard Montgomery High School (Maryland)

Preceptor: Mrs. Patricia Fetsch

PM-244. Sahil Sahni

The Function of MYO1C in an Ewing Sarcoma Cell Line

McGill University (Non-U.S.)

Preceptors: Dr. Carla Neckles, Dr. Suntae Kim, Dr. Natasha Caplen

PM-245. Kennedy Salamat

3D Structure of Deoxygenated Sickle Hemoglobin Studied by Cryo-electron Microscopy

Montgomery Blair High School (Maryland)

Preceptors: Dr. Jean-Philippe Demers, Dr. Sagar Chittori, Dr. Sriram Subramaniam

PM-246. Genevieve Sampson

The trENDS in Young Adult E-cigarette Use

Severna Park High School (Maryland)

Preceptors: Dr. Stephanie Land, Dr. Rachel Grana

PM-247. Hadassah Schwartz

Comparative Characterization of Macrophage Sub-populations in Stage I Lung Adenocarcinoma from European Americans and African Americans

Community College of Baltimore County (Maryland)

Preceptors: Dr. Brid Ryan, Dr. Adriana Zingone

PM-248. Ematu Sesay

Investigating the Novel Role of Dopamine Pathway in Relation to MAPK Pathway in Normal Lung and Lung Cancer

Prince George Community College (Maryland)

Preceptors: Dr. Leila Toulabi, Mr. Christopher Grant, Dr. Brid Ryan

PM-249. Veeraj Shah

Multidimensional Body-self Relations in Patients with Primary Brain Tumors

University of Maryland, College Park (Maryland)

Preceptors: Ms. Elizabeth Vera, Dr. Kevin Camphausen, Dr. Terri Armstrong, Dr. Lindsay Rowe

PM-250. Holly Shan

Targeting SRC-3 by a Small-molecule Inhibitor in Anaplastic Thyroid Cancer

Emory University (Georgia)

Preceptors: Dr. Li Zhao, Dr. Sheue-Yann Cheng

PM-251. Daanish Sheikh

Identifying Bacteriophage Resistance Mechanisms in Klebsiella pneumoniae

DeBakey High School for Health Professions (Texas)
Preceptors: Dr. Shayla Hesse, Dr. Sankar Adhya

PM-252. Chana Shemtov

Evaluating Isotretinoin among Patients with Various Acne Diagnoses
Bnos Yosroel of Baltimore (Maryland)
Preceptors: Ms. Susana Najera, Dr. Daniel Edelman

PM-253. Juncheng Shen

Inhibition of JAK/STAT and mTORC Pathways Shows Synergistic Antiproliferation Activity against Adult T-cell Leukemia/Lymphoma
Johns Hopkins University (Maryland)
Preceptors: Dr. Yuquan Lin, Dr. Meili Zhang, Dr. Thomas Waldmann

PM-254. Ethan Shi

TGF beta-mediated Regulation of Alternative Splicing in Colon Cancer Cells
Thomas S Wootton highschool (Maryland)
Preceptors: Dr. Ying Zhang, Dr. Xuan Xu

PM-255. Selena Shirkin

Finding New Tumor-inhibiting Treatments by Exploring the Effects of Anticancer Drugs on Chromosomal Instability
Beth Tfiloh Dahan Community School (Maryland)
Preceptors: Dr. Vladimir Larionov, Dr. Natalay Kouprina

PM-256. Amina Siddiqui

"Don't Eat Me" (CD47) Signal and BRCA1-associated Protein (BAP-1) Expression in Malignant Mesothelioma Cytology
West Springfield High School (Virginia)
Preceptor: Mrs. Patricia Fetsch

PM-257. Tankya Simoneaux

Immunophenotyping Leukocytes for Adoptive T Cell Therapy against Cancer
Morehouse School of Medicine (Georgia)
Preceptors: Dr. Gregoire Altan-Bonnet, Dr. Ratnadeep Mukherjee

PM-258. Mohamed Simpara

Role of CD47 during Red Blood Cell Development
Howard University College of Medicine (District of Columbia)
Preceptors: Dr. Rajdeep Banerjee, Dr. David Roberts

PM-259. Anisha Singh

Dysregulation of HNF1-b/Clusterin Axis Enhances Disease Progression in a Highly Aggressive Subgroup of Pancreatic Cancer

Stony Brook University (New York)

Preceptors: Dr. Shouhui Yang, Dr. Perwez Hussain

PM-260. Gurbani Singh

Systematically Assessing Changes in Plexiform Neurofibroma-related Disfigurement in Patients with Neurofibromatosis Type 1 on a Phase 2 Clinical Trial

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andrea Gross, Dr. Brigitte Widemann, Dr. Eva Dombi

PM-261. Kathryn Slacin

School and Home Neighborhoods That May Support Healthy Eating: Is There Racial Variation among Adolescents in Body Mass Index and Intake of Energy-dense Nutrient-poor Foods, and Fruits and Vegetables?

College of William & Mary (Virginia)

Preceptors: Dr. Tanya Agurs-Collins, Dr. Laura Dwyer

PM-262. Hannah Smith

Hematologic Toxicity Profile of Cytokine Release Syndrome in Patients Treated with CD22 CAR-T Cell Therapy

St. Mary's College of Maryland (Maryland)

Preceptor: Dr. Nirali Shah

PM-263. Lauren Smith

Identifying FBS Component Which Increases Tumor Cell sensitivity to Immunotoxin Treatment

University of Oklahoma (Oklahoma)

Preceptors: Dr. Christine Alewine, Mrs. Xianyu Zhang, Dr. Leela Avula

PM-264. Julianna Solomon

Impact of Mammalian Target of Rapamycin mTOR Protein Inhibition in the Growth of Medullary Thyroid Carcinoma

University of Maryland, College Park (Maryland)

Preceptors: Dr. John Glod, Dr. Brigitte Widemann

PM-265. Helena Steffens

Design and Synthesis of Novel Long-wavelength Fluorophores

University of California, Santa Barbara (California)

Preceptors: Dr. Martin Schnermann, Dr. Siddharth Matikonda

PM-266. Sara Street

Antibody-mediated Degradation of HSF1 Proteins

Frederick High School (Maryland)

Preceptors: Dr. Kuo-Hui Su, Dr. Chengkai Dai

PM-267. Eric Sun

Evidence for Epitranscriptomic Regulation of DNA Double Strand Break Repair

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Andy Tran, Mr. Will Hannon, Dr. Philipp Oberdoerffer

PM-268. Arvind Suresh

Scribe: A Robust System for Collecting Patient-reported Outcome Data for Clinical Research Trials

Dartmouth College (New Hampshire)

Preceptor: Dr. Jason Levine

PM-269. Abigail Svoysky

Locating the BRD4 Kinase Domain

Charles E. Smith Jewish Day School (Maryland)

Preceptors: Ms. Jocelyn Weissman, Dr. Dinah Singer

PM-270. Julia Tager

Bereaved Parents' Perceptions of Suffering and Psychosocial Needs at End of Life for Children with Cancer

University of Massachusetts Amherst (Massachusetts)

Preceptors: Dr. Lori Wiener, Dr. Sima Zadeh, Dr. Haven Battles

PM-271. Srikar Tallavajhala

Metabolic Targeting of Bladder Cancer

Cornell University (New York)

Preceptors: Dr. Piyush Agarwal, Dr. Reema Railkar

PM-272. Kevin Tang

Comparative Analysis of Common Negative Staining Reagents for Human Papillomavirus

Ridge High School (New Jersey)

Preceptors: Dr. Natalia De Val, Mr. Kunio Nagashima, Dr. Ziqiu Wang, Dr. Troy Kemp

PM-273. Suchet Taori

Targeting Cancer Metabolism: A Novel Approach for Improved Radiotherapy

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Sarwat Naz, Dr. James Mitchell

PM-274. Isaiah Taylor

Gene Expression Differences Associated with an Engineered Mesothelin Point Mutation That Ablates MUC16 Binding

University of Dayton (Ohio)

Preceptors: Dr. Christine Alewine, Dr. Leela Avula, Mrs. Xianyu Zhang

PM-275. Tim Thoerner

Single-cell Genetic Analysis of Estrogen Receptor Positive Recurrent and Non-recurrent Breast Carcinomas Using miFish

German International School, Washington D.C. (Maryland)

Preceptors: Dr. Kerstin Heselmeyer-Haddad, Ms. Irianna Torres, Dr. Thomas Ried

PM-276. Sarah Thomas

Mechanical Regulation of Dormancy

Hampton University (Virginia)

Preceptors: Dr. Kandice Tanner, Dr. Colin Paul

PM-277. Matthew Thompson, Nicholas Williams, Vincent Allen, Davis Crawford

A Distributed Real-time Patient Genomics Search and Analytics Engine for NCI-MATCH

Harding University (Arkansas), University of Maryland, College Park (Maryland), University of Maryland College Park (Maryland), Virginia Tech (Virginia)

Preceptors: Mr. Brent Coffey, Mr. Tony Fu, Mr. Waleed Osman

PM-278. Michael Timmer

General Health Status of Long Term (>5 years) Survivors of Central Nervous System Tumors: A Report from the NOB Natural History Study

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Terri Armstrong, Dr. Mark Gilbert, Ms. Elizabeth Vera

PM-279. Garrett Tisdale

Analysis of Transcriptional Bursting Data via Unsupervised Clustering Reveals Gene Specific Heterogeneity

Boise State University (Idaho)

Preceptors: Dr. Daniel Larson, Dr. Yihan Wan

PM-280. Alexandra Toscano

Simulated Artificial Intelligence Automated Metastatic Lesion Identification and Measurements in Radiologist Workflow in Cancer Trials

University of Maryland, College Park (Maryland)

Preceptors: Dr. Les Folio, Dr. James Gulley

PM-281. Khadijah Toumbou

Investigating the Mechanism of Immune Activation in Response to RNase H2C Knockdown in Model of Breast Cancer Metastasis

Grinnell College (Iowa)

Preceptor: Ms. Sarah Deasy

PM-282. Jack Tsintolas

Whole-exome Sequencing Identifies Novel Somatic Mutations in variant HCL

University of Maryland, College Park (Maryland)

Preceptor: Dr. Evgeny Arons

PM-283. Danielle Tulchinsky

The Role of Repid in Mitotic Exit

University of South Carolina (South Carolina)

Preceptors: Dr. Sang-Min Jang, Dr. Mirit Aladjem

PM-284. Aslihan Turan

Effect of R848 Treatment on the Expression of IFN γ R in Murine Leukocytes

Maltepe University (Non-U.S.)

Preceptor: Dr. Neslihan Kayraklioglu

PM-285. Arielle Tycko

Characterization of Genetically-engineered Myeloid Cells (GEMys)

Walt Whitman High School (Maryland)

Preceptors: Dr. Daniel Beury, Dr. Sabina Kaczanowska, Dr. Rosie Kaplan

PM-286. Adam Tyrlik

T-cell Repopulation in Primary Immunodeficiency Patients Post-transplant

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jennifer Kanakry, Dr. Dimana Dimitrova, Mr. Jeremy Rose

PM-287. Andy Vega

Characterization of Bone Lesions Using Sequential (18)-F-FDG-NaF PET/CT Imaging in Patients with Metastatic Genitourinary Tumors Receiving Treatment with Cabozantinib and Nivolumab With and Without Ipilimumab

San Juan Bautista School of Medicine (Puerto Rico)

Preceptors: Dr. Andrea Apolo, Dr. Liza Lindenberg, Dr. Esther Mena

PM-288. Claudia Mae Velasco

Effect of Neddylation Inhibitor Drug MLN4924 on U251 Glioblastoma Cell Line

Virginia Tech (Virginia)

Preceptors: Ms. Tamalee Kramp, Dr. Kevin Camphausen

PM-289. Shreya Vinjamuri

Application of CRISPR-Cas9 Knockin Mice in Regulatory T cell Differentiation

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Chuan Wu, Dr. Zuoqia Chen, Dr. Girak Kim, Dr. Jialie Luo

PM-290. James Virga

Effects of Rifaximin on Immune Activation and Gut Microbiome in HIV Infected Individuals

St. John's University (New York)

Preceptors: Mrs. Jennifer Bell, Dr. Deborah McMahon, Dr. Anuradha Ganesan, Dr. Frank Maldarelli

PM-291. Katharine Walker-Bawa

Alternative Fixation Techniques for Enhanced Histology and Biomolecular Preservation

George Washington University (District of Columbia)

Preceptors: Dr. Stephen Hewitt, Dr. Joon-Yong Chung

PM-292. Adeline Walsh

Understanding the Interactions between Inner Kinetochore Proteins and Their Role in Chromosome Alignment

University of Virginia (Virginia)

Preceptors: Dr. Alexander Kelly, Mr. Hayden Saunders, Mr. Julian Haase

PM-293. Amiya Walton

Modulation of TK1 Expression: Dimerization or Methylation?

Spelman College (Georgia)

Preceptors: Dr. Miriam Poirier, Dr. Ofelia Olivero, Dr. Daniel Edleman, Dr. Vanesa Sanchez

PM-294. Jasmine Wang

A KNIME-based Approach for Analysis of Nuclear Foci in Live-cell Imaging

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Paul Meltzer, Dr. Sarah Clatterbuck Soper

PM-295. Aliza Weiss

Adoptive Cell Therapy for the Treatment of Metastatic Melanoma

Bais Yaakov of Passaic High School (New Jersey)

Preceptors: Dr. Senta Kapnick, Dr. Daniel Edelman

PM-296. Kiara Whitaker

Single-cell Genetic Analysis of Atypical Ductal Hyperplasia Using miFISH

North Carolina Agricultural and Technical State University (North Carolina)

Preceptors: Dr. Thomas Ried, Dr. Kerstin Heselmeyer, Ms. Irianna Torres, Ms. Dara Wangsa

PM-297. Ernestina Wiafe

Studying the Toxic Mutants of Human Topoisomerase 3B

Hampton University (Virginia)

Preceptors: Dr. Yves Pommier, Dr. Sourav Saha

PM-298. Lily Widdup

Genetic and Environmental Correlates of Hypertension in Urban and Rural Youth Living in South Africa

Wellesley College (Massachusetts)

Preceptors: Dr. Cheryl Winkler, Mrs. Elizabeth Binns-Roemer

PM-299. Taiye Winful

Biochemical Mechanism of Drug Transport by Human P-glycoprotein

Vanderbilt University (Tennessee)

Preceptors: Dr. Sabrina Lusvardi, Dr. Suresh V. Ambudkar

PM-300. Erin Winrow

Characterization of Vaginal Secretions following MucoCept Administration in Rhesus Macaques

Howard University (District of Columbia)

Preceptors: Dr. Genoveffa Franchini, Dr. Luca Schifanella, Dr. Massimiliano Bissa

PM-301. Ethan Wu

Papillomavirus Regulates Long Non-coding RNA Expression

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Haibin Liu, Dr. Zhi-Ming Zheng

PM-302. Brian Xi

Validation of the Clinical FISH Test for the Detection of RET Oncogene Rearrangement in Lung Cancer

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Zied Abdullaev, Dr. Svetlana Pack

PM-303. Clarissa Xia

A Functional Study of Rex-Orf1 in HTLV-1 Subtype C

Richard Montgomery High School (Maryland)

Preceptors: Dr. Genoveffa Franchini, Dr. Maria Omsland, Dr. Ramona Moles, Dr. Veronica Galli

PM-304. Jane Xie

Investigating the Role of Cancer-derived Smad3 Mutations in TGF-beta Signaling

University of Maryland, College Park (Maryland)

Preceptors: Dr. Liu-Ya Tang, Dr. Ying Zhang

PM-305. Hongjia Yang

Optimizing GPC-3 CAR T-Cell Therapy Targeting Liver Cancer

University of California, Berkeley (California)

Preceptors: Dr. Nan Li, Dr. Mitchell Ho

PM-306. Tianen Yang

Semi-automatic Bone Lesion Segmentation on PSMA PET/CT Imaging

Winston Churchill High School (Maryland)

Preceptors: Dr. Stephanie Harmon, Dr. Liza Lindenberg, Dr. Baris Turkbey, Dr. Peter Choyke

PM-307. Dahye Yoon

The Role of Eye Tracking in Human Behavioral Research: The Context of Cancer Information

Georgetown University (District of Columbia)

Preceptors: Dr. Sylvia Chou, Dr. Melinda Krakow

PM-308. Amy Zhong

Structural and Functional Investigation of TMEM205, an Integral Membrane Protein Involved in Cisplatin Resistance

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Dr. Di Xia, Dr. Xiaoyun Bai

PM-309. Sophie Zhuang

How is DNA Replicated during the Re-replication Cycle?

Northville High School (Michigan)

Preceptors: Mrs. Haiqing Fu, Dr. Christophe Redon, Dr. Mirit I. Aladjem

National Cancer Institute - Division of Cancer Epidemiology and Genetics (NCI-DCEG)

PM-310. Vineeth Amba

Nut Consumption and Total and Cause-specific Mortality in the NIH-AARP Diet and Health Study

College of New Jersey (New Jersey)

Preceptors: Dr. Maryam Hashemian, Dr. Christian Abnet

PM-311. Courtney Baker

Modelling Longitudinal Microbiome Compositional Data: A Two-part Regression Model with Shared Random Effects

Case Western Reserve University (Ohio)

Preceptors: Dr. Danping Liu, Dr. Yongli Han

PM-312. Batel Blechter

Environmental Tobacco Smoke and Lung Cancer Susceptibility Loci Interactions in Lung Adenocarcinoma among Never-smoking Women in Asia

Johns Hopkins Bloomberg School of Public Health (Maryland)

Preceptor: Dr. Qing Lan

PM-313. Brenna Douthitt

Estimation of Frequency of Pathogenic Variation in NF1, SPRED1 and MAPK1/3 in Unaffected Populations Using Public Genomic Databases

Vassar College (New York)

Preceptors: Dr. Alex Pemov, Dr. Douglas Stewart

PM-314. Michelle Fang

Respiratory and Circulatory Disease in a Group Given Diagnostic Fluoroscopic X-rays as Treatment for Tuberculosis

Thomas Sprigg Wootton High School (Maryland)
Preceptor: Dr. Mark Little

PM-315. Haley Garbus

Pesticide Exposure and Body Mass Index in the Wives of Farmers in the Agricultural Health Study
Yale School of Public Health (Connecticut)
Preceptors: Dr. Catherine Lerro, Dr. Laura Beane-Freeman

PM-316. Summer Harvey

Predictors of Hysterectomy in Two Nationally Representative U.S. Surveys
University of Virginia (Virginia)
Preceptors: Dr. Megan Clarke, Dr. Nico Wentzensen

PM-317. Louis Hopkins

The Impact of Interferon Lambda 4 on CD4 T-cell Stimulation in vitro
Johns Hopkins Bloomberg School of Public Health (Maryland)
Preceptors: Dr. Ludmila Prokunina-Olsson, Dr. Olusegun Onabajo

PM-318. Raymond Hughley

Association of Genetic Polymorphisms in UNG and APOBEC3 Regions with Bladder Cancer APOBEC-signature Mutation Loads
Tuskegee University (Alabama)
Preceptors: Dr. Oscar Florez-Vargas, Dr. Rouf Banday, Dr. Ludmila Prokunina-Olsson

PM-319. Rishi Makkar

Association of Seropositivity to H. pylori Antigens and Hepatobiliary Cancers in the PLCO Study
University of California, Los Angeles (California)
Preceptors: Dr. Gwen Murphy, Dr. Neal Freedman

PM-320. Hannah Mandle

Analgesic Use during Pregnancy and Risk of Male Genital Anomalies
Emory University Rollins School of Public Health (Georgia)
Preceptor: Dr. Katherine McGlynn

PM-321. Yusuph Mavura

Genome-wide Association Study to identify Risk Loci in Pancreatic Cancer in Samples from China
Georgia Institute of Technology (Georgia)
Preceptors: Dr. Laufey Amundadottir, Dr. Jun Zhong

PM-322. Teja Nagaradona

Characterizing Burden of Disease in a Cohort of People Exposed to Indoor Air Pollution in China
Emory University (Georgia)
Preceptors: Dr. Bryan Bassig, Dr. Qing Lan, Dr. Nat Rothman

PM-323. Alison Nichols

Association of Hand and Kidney Abnormalities in Patients with Fanconi Anemia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Neelam Giri, Dr. Blanche Alter

PM-324. Matthew Oh

Characterization of an Optically Stimulated Luminescence Dosimetry System for Assessing Medical Radiation Exposure

Dublin Jerome High School (Ohio)

Preceptors: Dr. Matthew Mille, Dr. Choonsik Lee, Mr. Keith Griffin

PM-325. Nikhil Padmanabhan

Application of an Automatic CT Mapping Method to Adult female Patients for Accurate Organ Dosimetry

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Gleb Kuzmin, Dr. Choonsik Lee

PM-326. Joemy Ramsay

Using Toenail Metal Concentrations to Validate Occupational Exposure Estimates Based on Expert Judgment

University of Utah (Utah)

Preceptors: Dr. Melissa Friesen, Dr. Jean-Francois Sauve

PM-327. Nirav Shah

Rare Variant Analysis of known Cancer-susceptibility Genes in North-American Chordoma Patients

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Alisa Goldstein

PM-328. Joshua Smith-Sreen

Trends in Premature Mortality Due to Neoplastic Disease: A Comparative Analysis of the United States with European and Latin American Countries from 2000 to 2014

Boston University (Massachusetts)

Preceptors: Dr. Yingxi Chen, Dr. Amy Berrington de González

PM-329. Maya Spaur

Exposure Assessment of Drinking Water Contaminants among North Carolina Participants in the Agricultural Health Study

Johns Hopkins University (Maryland)

Preceptor: Dr. Mary Ward

PM-330. Ashley Thompson

Determining the Effects of Novel Regulator of Telomere Elongation Helicase 1 (RTEL1) Variants on Alternative Protein Isoforms

Converse College (South Carolina)

Preceptors: Dr. Sharon Savage, Dr. Lisa McReynolds

PM-331. Mimi (Trucmai) Ton

Nut and Peanut Butter Consumption and Risk of Prostate Cancer in the NIH-AARP Diet and Health Study

Yale School of Public Health (Connecticut)

Preceptors: Dr. Jiaqi Huang, Dr. Demetrius Albanes

PM-332. Chinenye Ugoji

Cancer Risk following Non-Hodgkin Lymphoma in HIV-infected individuals

Johns Hopkins University Bloomberg school of Public Health (Maryland)

Preceptors: Dr. Eric Engels, Dr. Parag Mahale, Dr. Lindsay Morton

PM-333. Rebecca Venetianer

Identifying Causal HPV Infections in Cervical Pre-cancer Using Tissue-based Genotyping

Columbia University (New York)

Preceptors: Dr. Nicolas Wentzensen, Dr. Megan Clarke

PM-334. Lea Widemann

Methods in Crown-like Structure Assessment

University of Maryland, College Park (Maryland)

Preceptors: Dr. Gretchen Gierach, Dr. Mustapha Abubakar

PM-335. Shawn Zamani

Dietary Polyunsaturated Fatty Acid Intake and Risk of Upper Gastrointestinal Cancer Incidence: NIH-AARP Diet and Health Study

University of South Florida (Florida)

Preceptors: Dr. Jessica Petrick, Dr. Michael Cook

PM-336. Isaac Zhao

Endogenous Estrogen Metabolites and Gastric Cancer Risk among Postmenopausal Women

Brown University (Rhode Island)

Preceptor: Dr. Maria Constanza Camargo

OD High School Scientific Training and Enrichment Program (HiSTEP)

HS-177. Rihana Ali

My Summer Experience in HiSTEP at NIH

Justice (JEB Stuart) High School (Virginia)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-178. Samuel Alia

My Summer Experience in HiSTEP at NIH

Charles Herbert Flowers High School (Maryland)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-179. Bryan Alvarez-Carcamo

My summer Experience in HiSTEP at NIH

Mount Vernon High School (Virginia)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-180. Chinomso Ashiogwu

My Summer Experience in HiSTEP at NIH

Gaithersburg High School (Maryland)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-181. Ekua Beneman

My Summer Experience in HiSTEP at NIH

Paint Branch High School (Maryland)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-182. Lencho Chawaka

My Summer Experience in HiSTEP at NIH

Wheaton High School (Maryland)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-183. Mory Diaby

My Summer Experience in HiSTEP at NIH

High Point High school (Maryland)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-184. Caroline Djakuduel

My Summer Experience in HiSTEP at NIH

Wheaton High School (Maryland)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-185. Beza Ketema

My Summer Experience in HiSTEP at NIH

Gaithersburg High school (Maryland)

Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-186. Alexander Keth

My Summer Experience in HiSTEP at NIH

James Hubert Blake High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-187. Shandana Khaliq

My Summer Experience in HiSTEP at NIH
Eleanor Roosevelt High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-188. Jules Koudouovoh

My Summer Experience in HiSTEP at NIH
James Hubert Blake High (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-189. Long Lam

My Summer Experience in HiSTEP at NIH
Montgomery Blair High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-190. Rosalba Linares

My Summer Experience in HiSTEP at NIH
Wheaton High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-191. Rachel Myers

My Summer Experience in HiSTEP at NIH
Academy of Health Sciences at Prince George's Communiy College (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-192. Ryan-Daniela Nganjo

My Summer Experience in HiSTEP at NIH
Academy of Health Sciences at Prince George's Communiy College (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-193. Mohammed Niyas

My Summer Experience in HiSTEP at NIH
Wheaton High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-194. Ezinne Oguguo

My Summer Experience in HiSTEP at NIH
Academy of Health Sciences (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-195. Emmanuela Otunuga

My Summer Experience in HiSTEP at NIH
Eleanor Roosevelt High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-196. Vanessa Reyes

My Summer Experience in HiSTEP at NIH
Colonel Zadok A. Magruder High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-197. James Sawyerr

My Summer Experience in HiSTEP at NIH
Eleanor Roosevelt High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-198. Jarely Soriano

My Summer Experience in HiSTEP at NIH
Duke Ellington School of the Arts (District of Columbia)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-199. Feven Tadesse

My Summer Experience in HiSTEP at NIH
John F. Kennedy High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-200. Toya Tanner

My Summer Experience in HiSTEP at NIH
Benjamin Banneker Academic High School (District of Columbia)
Preceptor: Dr. Sharolyn Kawakami-Schulz

HS-201. Kathryn Windsor

My Summer Experience in HiSTEP at NIH
Paint Branch High School (Maryland)
Preceptor: Dr. Sharolyn Kawakami-Schulz

| | | | | | |
|-----------------|-----|------------------|-------------------|----|-----------------|
| MORNING SESSION | AM | 9:00 AM-11:00 AM | AFTERNOON SESSION | PM | 1:00 PM-3:00 PM |
| LUNCH SESSION | LCH | 11:00 AM-1:00 PM | HISTEP SESSION | HS | 3:00 PM-4:00 PM |

PARTICIPANTSESSION-POSTER#

| | | | | | |
|-------------------------------------|---------|-------------------------------------|----------------|--------------------------------------|---------|
| Abdullah, Idri | LCH-184 | Bailey, Jamal | AM-255 | Carrasco, Stephany | PM-82 |
| Abikoye, Abigail | PM-52 | Bajaj, Ankush | LCH-263 | Carroll, Katherine | PM-83 |
| Aboagye, Kwasi | PM-53 | Baker, Courtney | PM-311 | Carter, Rachel | PM-84 |
| Aboagye, Omena | AM-26 | Barnes, Keith | AM-172 | Carter, William | AM-176 |
| Abraham, Alena | PM-1 | Barranco, Kate | LCH-144 | Castillo Rivera, Nelson | LCH-98 |
| Abraham, Joel | PM-54 | Barry, Timothy | LCH-264 | Castro, Dánielle | AM-92 |
| Acevedo, Mary | PM-55 | Bastian, Cody | AM-1 | Catalan, Viktoria | LCH-194 |
| Acha, Beatrice | AM-72 | Batchenkova, Natalia | AM-256 | Celestine, Ikia | LCH-38 |
| Acha, Chris | LCH-1 | Batheja, Vivek | PM-69 | Centazzo, Nicole | LCH-147 |
| Adema, Charlotte | PM-56 | Baumgarten, Leilah Nicole | LCH-188 | Chalk, Liam | LCH-195 |
| Adkins, Alexis | PM-57 | Benally, Jasmine | LCH-304 | Chambers, Ian | LCH-148 |
| Afreen, Hajera | LCH-185 | Benedict, Kai | LCH-189 | Chambers, Shane | LCH-99 |
| Afzal, Anila | PM-58 | Beneman, Eku | HS-181 | Chan, Andrew | LCH-100 |
| Agbor-Enoh, Raphael | PM-59 | Bergan, Grace | LCH-190 | Chan, William | LCH-101 |
| Agrawal, Mahima | PM-2 | Bergman, Tzipporah | AM-257 | Chan, Yin Mei | PM-85 |
| Agrawal, Malhaar | LCH-32 | Bernal-Rivera, Kevin | PM-70 | Chandra, Swati | AM-157 |
| Agrawal, Priya | LCH-2 | Bernstein, Aaron | PM-71 | Chandrawarakalage, Kavisha | LCH-305 |
| Agyepong, Stephen | AM-171 | Bernstein, Rachel | PM-72 | Chang, Alexander | AM-31 |
| Ahmad, Sana | PM-60 | Beulick, Elaine | LCH-191 | Chang, Allison | AM-177 |
| Ahmed, Mariya | LCH-3 | Bhattiprolu, Kavya | LCH-5 | Chang, David | AM-32 |
| Ahn, Alexander | PM-61 | Bhayana, Malaika | AM-9 | Chang, Justin | LCH-7 |
| Ahn, Elise | LCH-33 | Biggs, Morgan | LCH-95 | Chang, Tae Yoon | PM-86 |
| Ake, Jeriel | AM-27 | Billings, David | PM-73 | Chari, Rohit | LCH-196 |
| Alexander, Rachel | AM-143 | Billups, Alexander | AM-258 | Charles, Shaquille | LCH-102 |
| Alhomsy, Alia | AM-232 | Blechter, Batel | PM-312 | Chawaka, Lencho | HS-182 |
| Ali, Rihana | HS-177 | Bloch, Daniella | AM-90 | Chen, Anna | AM-93 |
| Alia, Samuel | HS-178 | Bloom, Stacey | AM-259, AM-279 | Chen, Daniel | LCH-266 |
| Allen, Vincent | PM-277 | Bloomer, Bess | AM-173 | Chen, Daniel | PM-4 |
| Allnutt, Mary Alice | AM-251 | Boku, Yoseph | AM-28 | Chen, John | LCH-267 |
| Alsulami, Layla | LCH-186 | Bonagiri, Prasanthi | AM-10 | Chen, Vivian | LCH-103 |
| Alur, Rucha | AM-252 | Bond, Charles | LCH-36 | Cheng, Claire | AM-222 |
| Alvarez, Carolina | LCH-34 | Bordeaux, Skyler | AM-260 | Cheng, Debby | AM-94 |
| Alvarez-Carcamo, Bryan | HS-179 | Boussouf, Elias | PM-74 | Cheng, Ethan | AM-262 |
| Amare, Abel | AM-245 | Bowens, Jaquantey | LCH-96 | Cherry, Jamil | AM-234 |
| Amba, Vineeth | PM-310 | Bowman Jr, Eric | PM-75 | Chidester, Stephanie | LCH-306 |
| Anderson, Claire | LCH-312 | Boyd, Paul | LCH-37 | Chinthapatla, Juhitha | LCH-254 |
| Andres, Megan | PM-62 | Bregman, Leah | AM-174 | Chitnis, Chaitali | PM-87 |
| Anibal, James | PM-63 | Briones, Michael | AM-91 | Chitsaz, Ata | AM-11 |
| Anthony, Tiffany | PM-64 | Brizuela, Stefanie | LCH-192 | Chitturi, Megha | AM-33 |
| Antunes, Ivy | PM-3 | Brosh, Natalie | LCH-97 | Choi, Monica | LCH-39 |
| Aquino, Draven | AM-8 | Brown, Farrell | AM-261 | Choi, Rachel | PM-88 |
| Archer, Blake | AM-144 | Brown, Ian | AM-29 | Choi, Sally | AM-95 |
| Arginteanu, Toren | AM-156 | Brusco, Concetta | LCH-145 | Chopra, Varuna | AM-263 |
| Arimilli, Bhargav | PM-65 | Bryant, Alexis | LCH-333 | Chou, Jason | PM-5 |
| Arnold, Nicole | LCH-93 | Buck, Justin | LCH-265 | Chowdhury, Navid | AM-145 |
| Ascencio, Jefferson | AM-253 | Burgess, Alexander | AM-30 | Christou, Anna | PM-6 |
| Ashe, Emily | PM-66 | Burgos, Camille | LCH-193 | Christou, Lily | PM-89 |
| Ashiogwu, Chinomso | HS-180 | Burrell, Shalicia | AM-73 | Chu, Eileen | AM-146 |
| Attor, Felicia | AM-9 | Bush, Hannah | LCH-6 | Chu, Ntongacha | PM-90 |
| Ault, Larissa | AM-88 | Bushey, Ashley | PM-76 | Chung, Hyunsoo | PM-91 |
| Aviles Fernandez, Kenneth | LCH-35 | Bustos Barocio, Sonia | AM-175 | Chung, Jacqueline | PM-57 |
| Ayele, Enat | LCH-4 | Cabral, Caitlyn | PM-77 | Cisse, Natenin | LCH-268 |
| Ayuketah, Alexis | LCH-187 | Cadavid, Sara | AM-233 | Clawson, Ellie | LCH-104 |
| Azam, Asma | PM-67 | Cai, Sabrina | PM-78 | Clemente, Jeremy | PM-92 |
| Bagasao, Adore Corina | LCH-94 | Calco, Brice | AM-291 | Clinton, Carter | AM-34 |
| Baghdadi, Nahid | PM-68 | Caldwell, Wesley | PM-79 | Cloyd, Aya | AM-158 |
| Bagnell, Anna | AM-254 | Callahan, Daniel | LCH-146 | Cohen, Rachel | PM-93 |
| Bailey, Ashley | AM-89 | Cannon, Nikki | PM-80 | Colbert, Caleb | AM-264 |
| | | Cao, Jason | PM-81 | Compo, JoAnne | AM-265 |

| MORNING SESSION | AM | 9:00 AM-11:00 AM | AFTERNOON SESSION | PM | 1:00 PM-3:00 PM |
|-----------------|-----|------------------|-------------------|----|-----------------|
| LUNCH SESSION | LCH | 11:00 AM-1:00 PM | HiSTEP SESSION | HS | 3:00 PM-4:00 PM |

| | | |
|---------------------------------------|--|--|
| Cong, OliviaPM-94 | Dubhashi, JanhaviPM-102 | Galli, FrancescaAM-189 |
| Contreras, UriahPM-48 | Dubofsky, EricAM-160 | Gan, MichaelLCH-203 |
| Cook, SeanPM-95 | Dubuche, TsemachaAM-269 | Ganatra, StutiAM-190 |
| Corrado, MichaelLCH-40 | Duenas, CoreyLCH-201 | Gancz, NaomiLCH-272 |
| Courey, KarisLCH-269 | Durbhakula, VinayLCH-44 | Gandhi, NimitLCH-46 |
| Cowie, KateAM-74 | Dutta, NisitaPM-8 | Gandla, DivyaPM-10 |
| Crawford, DavisPM-277 | Dwyer, NathanielAM-98 | Ganesan, DivyaAM-277 |
| Cullather, ErinLCH-8 | Earl, AshliPM-103 | Ganga, ArjunAM-278 |
| Cunningham, CarolineLCH-313 | Edgar, SamanthaAM-182 | Garbus, HaleyPM-315 |
| Curley, CaleighLCH-197 | Edisis, NathanielPM-9 | Garcia, AlexaLCH-204 |
| Curt, KatherinePM-96 | Eger, SarahLCH-151 | Garcia, BenjaminPM-119 |
| Cusma, WilliamLCH-149 | Eisenberg, JonahAM-99 | Garcia, Carmen-Maria . AM-259,AM-279 |
| D'Ostroph, BryanAM-178 | Eisler, BenAM-183 | Garcia, Eric JoshuaAM-40 |
| D'Souza, AndreaLCH-198 | Elzarea, NohaAM-184 | Gardiner, MarikoAM-2 |
| Dahms, SarahLCH-199 | Eng, SarahPM-104 | Garg, DeeyaAM-13 |
| Daly, DominiquePM-97 | Engle, ElizabethPM-105 | Gasnikov, DmitryLCH-11 |
| Dame, IsabelAM-223 | Espinoza, DavidAM-270 | Gbenro, MabelAM-191 |
| Dandi, GauriLCH-41, LCH-45 | Esquerio, AnahAM-271 | Gbenro Jr, MacredAM-41 |
| Dang, KathleenAM-246 | Essama-Ayi, TiamaPM-106 | Geddes, CatrionaAM-280 |
| Danso, MelanieAM-179 | Estrada, LuisAM-161 | Geib, RyanAM-101 |
| Das, ProsunLCH-319 | Evans, AyiaAM-185 | Gelinas, KatherinePM-120 |
| Das, UrjitaLCH-150 | Factor, ZekielAM-272 | George, EmmettAM-14 |
| Davies, BiobeleAM-2 | Famili, HannahAM-224 | George, SarahLCH-273 |
| De Alwis, DonaldLCH-255 | Famuyiwa, OlufisolaAM-186 | Gevorgyan, AnahitLCH-47 |
| Dean, FrancesAM-266 | Fan, OliviaAM-100 | Gholap, RadhikaPM-121 |
| DeGrazia, ZoeLCH-270 | Fang, FranciaAM-273 | Giannetti, AliciaAM-42 |
| DeJesus, JessicaLCH-42 | Fang, MichellePM-314 | Gibson, TakielLCH-112 |
| Delavari, DelyarAM-180 | Fang, WilliamLCH-110 | Gliniewicz, EmilyAM-102 |
| Delgado, MelanieAM-267 | Farooque, Nashwan . . . LCH-41, LCH-45 | Godfrey, CalvinPM-122 |
| Deljookorani, ShivaPM-98 | Farrell, RivkaPM-107 | Golden, AmberAM-43 |
| DeLuca, MarisaLCH-105 | Farrin, FadihahAM-187 | Gomez, CharlynLCH-205 |
| DeNegre, NoahAM-235 | Feinstein, SiviaPM-108 | Gomez, FatimaLCH-12 |
| Desai, AlishaLCH-43 | Feng, IrisPM-109 | Gomez-Fonseca, DuberAM-44 |
| Desai, NeeharPM-99 | Feng, RuonanPM-110 | Gonzalez, IlianaLCH-153 |
| Deshmukh, SanyuktaAM-181 | Fields, CheyennePM-111 | Gonzalez, MayteLCH-206 |
| Deshpande, PriyaLCH-314 | Filipowicz, NatalieAM-36 | Goode-Arthur, MichalaAM-103 |
| DeTuncq, AstoriaAM-236 | Fink, YaeliLCH-202 | Gormaley, AnneLCH-48 |
| Deven, ArjunLCH-200 | Fioriti, CynthiaAM-274 | Gouzoulis, MichaelPM-123 |
| DeVol, CharlotteAM-159 | Fitzgerald, TianaPM-112 | Gowda, NikhilPM-124 |
| Diaby, MoryHS-183 | Flaherty, SarahAM-37 | Graf, Ava AkuaPM-11 |
| Dias, TravisAM-97 | Fleishman, JamiePM-113 | Grasmick, KimberlyPM-125 |
| Diaz Torres, NataliaLCH-9 | Flores, SaulAM-275 | Grayman, HannahPM-126 |
| Dib, MichaelLCH-271 | Fodor, R'ayAM-276 | Grayson, AdlaiPM-127 |
| Dixon, JulianPM-100 | Folio, LucasLCH-315 | Greco, MattAM-281 |
| Djakuduel, CarolineHS-184 | Folta, KristinaPM-114 | Green, TarikPM-128 |
| Dogbe, NadineAM-35 | Fones, LilahAM-147 | Greene, SunnyAM-45 |
| Dohse, CarlosLCH-106 | Fong, DanielAM-225 | Greenlee, AshleyAM-192 |
| Dolan, KatiePM-113 | Fonseca, VictoriaAM-148 | Grewe, AdrianaLCH-49 |
| Dominah, GiftyAM-268 | Ford, MeaganPM-115 | Griffiths, CarlaAM-226 |
| Dominick, KaliePM-101 | Frazier, DorianAM-149 | Griggs, DannieLCH-274 |
| Domrachev, BogdanAM-12 | Frederick, HannahLCH-111 | Grube, NataliaAM-104 |
| Donahue, JackLCH-107 | Freeman, JoshuaAM-188 | Guan, SophiaLCH-154 |
| Dougherty, RyanLCH-108 | Frisbie, JamesPM-116 | Guevara, MichellePM-49 |
| Douthitt, BrennaPM-313 | Funderburk, KarenAM-38 | Gui, CatherineLCH-50 |
| Down-Dorsey, JordanPM-7 | Gabert, TessAM-39 | Gulko, DanielAM-193 |
| Driscoll, RileyLCH-109 | Gadila, SoumithLCH-316 | Gunter-Rahman, FatimaLCH-257 |
| Drye, SandyLCH-256 | Gajendiran, AnjaliLCH-152 | Gutzeit, NinaPM-129 |
| Du, MichelleLCH-10 | Gal, OphirPM-117 | Gyabaah-Kessie, NanaPM-130 |
| Duarte, DanielleAM-247 | Gallant, KelseyPM-118 | Hacker, DavidAM-237 |

| MORNING SESSION | AM | 9:00 AM-11:00 AM | AFTERNOON SESSION | PM | 1:00 PM-3:00 PM |
|-----------------|-----|------------------|-------------------|----|-----------------|
| LUNCH SESSION | LCH | 11:00 AM-1:00 PM | HISTEP SESSION | HS | 3:00 PM-4:00 PM |

| | | |
|---|--------------------------------------|--|
| Hagerman, CharlotteAM-46 | Jabara, IsabelLCH-55 | Kocsuta, VictoriaPM-17 |
| Hahm, KatieLCH-275 | Jacob, AlexisLCH-210 | Kohan, LindsayPM-167 |
| Haile, MeronAM-75 | Jain, AradLCH-56 | Kondapolu, ManishAM-4 |
| Halprin, MollyLCH-207 | Jain, ArjunAM-106 | Konduru, HimaLCH-15 |
| Ham, ChloePM-131 | Jain, RitikaPM-15 | Kondylis, JoannaLCH-279 |
| Hamdi, OsamaAM-227 | Jamal, RidaPM-149 | Kong, KevinPM-167 |
| Hammel, LaurenPM-12 | Javdan, CameronAM-77 | Korshkov, RichardPM-129 |
| Han, ElaineAM-76 | Jayakar, GopalAM-47 | Kost, DanaPM-18 |
| Han, JonathanPM-132 | Jean, CatherineAM-290 | Kostic, AleksandraAM-49 |
| Hanes, CamilleAM-282 | Jevtich, KathleenPM-150 | Kothari, RuchitaAM-198 |
| Hannon, DevinPM-13 | Ji, MichellePM-151 | Kouanda, BakeyLCH-215 |
| Hardie, CarolinePM-152 | Jiang, MatthewAM-291 | Koudouovoh, JulesHS-188 |
| Harling, MitchellLCH-51 | Jiang, WendyPM-16 | Koutsoukos, StefanosAM-50 |
| Harris, TahjaLCH-258 | Jing, AndrewPM-152 | Krenek, AndreaPM-19 |
| Hartnett, JamieLCH-113 | Joe, TawnjraeAM-78 | Krishnakumar, AshaAM-293 |
| Harvey, GuytonLCH-307 | Johnson, FrancesLCH-277 | Krishnamoorthi, MahimaAM-109 |
| Harvey, SummerPM-316 | Johnson, LaurenLCH-115 | Kulshreshtha, AmitaPM-168 |
| Hasson, JennaPM-133 | Johnson, TakerraLCH-13 | Kumar, AnurikaPM-169 |
| Heller, MelaniePM-134 | Jones, AdriannaLCH-211 | Kundu, SahanaPM-170 |
| Hentschel, MatthewLCH-114 | Jones, Christina E.PM-153 | Kuo, BethanyPM-217 |
| Herath, IsuruLCH-208 | Jung, JoslynLCH-156 | Kussmaul, BenjaminLCH-318 |
| Hernandez-Hernandez, Cristal ImarPM-135 | Jung, SeungyeonPM-154 | Kyei-Asare, AaronLCH-319 |
| Hewlett, KatharinePM-136 | Kabir, SheaneelaAM-239 | Lam, LongHS-189 |
| Hightower, OliverLCH-276 | Kalfsbeek, CheyenneAM-164 | Lane, JamilAM-199 |
| Higley, JanePM-137 | Kallarakal, MelissaPM-155 | Langlieb, JonahLCH-320 |
| Holland, ElizabethAM-194 | Kalra, AndrewLCH-14 | Lattin, Miriam TemmehPM-171 |
| Holt, AshleyAM-162 | Kambhampati, RojaLCH-57 | Lax, RivkaPM-172 |
| Homsy, LunaPM-138 | Kang, Joo YoungAM-197 | Layman, IlanLCH-280 |
| Honikel, MackenziePM-139 | Kannan, SaisruthiPM-156 | Le, AnhPM-173 |
| Hopkins, LouisPM-317 | Kanuri, AjithAM-3 | Le, Katherine D.AM-240 |
| Hoque, LaboniLCH-52 | Kapadia, NaviyaPM-157 | Lechmann, GraceLCH-157 |
| Horowitch, BrookeAM-105 | Karpurapu, AnishAM-107 | Lee, AnnieLCH-61 |
| Hossain, MahinAM-283 | Kassim, YasminLCH-317 | Lee, DanielAM-294 |
| Hou, GeraldLCH-155 | Katyal, PriyaPM-158 | Lee, DongwonLCH-116 |
| Hruska, AlexPM-140 | Keith, RachelAM-292 | Lee, FarlandPM-174 |
| Hsia, TiffanyPM-141 | Kelleher, AndrewLCH-58 | Lee, TiffanyLCH-158 |
| Hsu, EricAM-284 | Kellenberger, TylerAM-150 | Lehr, AlexanderAM-295 |
| Hu, ClariceAM-195 | Keller, AlanaAM-79 | Lehr, LiamAM-296 |
| Huang, CindyPM-14 | Kelley, WillPM-159 | Lei, KatherineAM-200 |
| Hughes, RandallAM-285 | Kelsey, NathanLCH-212 | Leitzelar, BriannaPM-50 |
| Hughley, RaymondPM-318 | Kennerley, VictoriaPM-160 | León, AndréLCH-216 |
| Hurt, ChristopherAM-196 | Ketema, BezaHS-185 | Lewis, DevinAM-16 |
| Hurwitz, MaddiePM-142 | Keth, AlexanderHS-186 | Li, DanielLCH-321 |
| Hussain, HenaPM-143 | Khaliq, ShandanaHS-187 | Li, EileenPM-175 |
| Hutman, CherylPM-144 | Khan, AhnafLCH-278 | Li, FuchengLCH-322 |
| Hutman, RebeccaAM-286 | Kibbey, NicholasAM-15 | Li, JoyPM-20 |
| Huynh, TrungLCH-209 | Kim, AnnabelleLCH-213 | Li, KatherinePM-21 |
| Hwang, NataliePM-145 | Kim, CarolineAM-108 | Li, RaoLCH-62 |
| Hwang, RobertPM-146 | Kim, EdwardLCH-59 | Li, RyanAM-297 |
| Hyppolite, KervinAM-238 | Kim, EmilyPM-161 | Li, TianmingAM-298 |
| Inbody, LauraAM-287 | Kim, IrisPM-162 | Li, Xiao LingPM-232 |
| Indig, IrisPM-147 | Kim, MadelinePM-163 | Li, Xinyi (Mimi)PM-176 |
| Iruvanti, SushrutaAM-163 | Kim, YeonSoo (Kelly)AM-228 | Li, ZhiyuanAM-51 |
| Islam, PromottoLCH-53 | Kim, YujinPM-164 | Liao, JenniferLCH-16 |
| Islam, ZahinLCH-54 | Kirkpatrick, AlexLCH-60 | Licht, JudithLCH-281 |
| Iyengar, SanjnaAM-288 | Kiser, DanielAM-48 | Liebman, LeahPM-177 |
| Iyer, AmritaAM-289 | Kline, GabrielPM-165 | Lilley, ShauntreLCH-259 |
| Iyer, KavitaPM-148 | Kline, JessicaPM-166 | Lin, AdrianAM-201 |
| | Klink, RachelLCH-214 | Lin, AshleyLCH-63 |

| MORNING SESSION | AM | 9:00 AM-11:00 AM | AFTERNOON SESSION | PM | 1:00 PM-3:00 PM |
|-----------------|-----|------------------|-------------------|----|-----------------|
| LUNCH SESSION | LCH | 11:00 AM-1:00 PM | HiSTEP SESSION | HS | 3:00 PM-4:00 PM |

| | | | | | |
|-----------------------------------|---------|----------------------------------|---------|------------------------------------|---------|
| Lin, Nyusha | LCH-17 | McGurn, Margaret | PM-26 | Nguyen, Tuyet | AM-204 |
| Lin, Vivian. | PM-178 | Mediavilla, Braden | LCH-220 | Nguyen, Valerie. | PM-205 |
| Linares, Rosalba | HS-190 | Meerzaman, Isabella | PM-193 | Nguyen, Victoria | LCH-122 |
| Lindstrom, Taylor | AM-52 | Mehta, Paras | PM-27 | Nichols, Alison | PM-323 |
| Lingenfelter, Cami | PM-179 | Mehta, Shubham | PM-194 | Niebler, Jake | AM-19 |
| Little Finger, Tobie | LCH-282 | Meisler, Esther | LCH-221 | Niehoff, Taylor. | AM-20 |
| Liu, Amanda | AM-17 | Meister, Sheindel | PM-195 | Nieto, Rande | PM-206 |
| Liu, Andrew | LCH-217 | Mejias-Torres, Gustavo | LCH-164 | Niyas, Mohammed | HS-193 |
| Liu, Catherine | LCH-64 | Mekonnen, Naol | AM-105 | Njanja, Lindsey | LCH-226 |
| Liu, Ivy | AM-80 | Mella, Nathan | PM-196 | Njeri, Brigdet. | AM-205 |
| Lodhi, Taha | AM-299 | Mena, Daya | LCH-70 | Noh, Chloe. | LCH-169 |
| Long, Charday. | LCH-159 | Mencer, Shira | PM-197 | Noronha, Andrea | PM-207 |
| Long, Dilara | PM-22 | Mendez, Adriana | LCH-19 | Nottingham, Kirsten. | LCH-309 |
| Long, Marque | LCH-260 | Mendley, Jonathan | PM-198 | Novitskaya, Maria | PM-208 |
| Lopez, Jose | PM-180 | Menken, Shani | PM-199 | Nwankwo, Anthony. | PM-209 |
| Lopez Silva, Carolina | PM-181 | Metenou, Dhalia | AM-113 | Nwokoye, Diana | AM-309 |
| Lopez-Haz, Erica | AM-202 | Migineishvili, Nino | LCH-284 | O'Connell, Eoin | LCH-72 |
| Lugo Tosado, Paola | LCH-218 | Miller, Cameron | AM-152 | O'Donnell, Jessie | LCH-123 |
| Lulseged, Ezana | AM-53 | Mills, Jatia | LCH-165 | Obiwuma, Chidera | PM-210 |
| Lunchick, Matthew. | PM-23 | Miryala, Ritika | PM-200 | Odzorig, Taivan | PM-211 |
| Lyle, Thashanna | LCH-160 | Mofor, Mike-Ryan | LCH-323 | Odzorig, Tamir. | LCH-21 |
| Lynberg, Matthew | PM-182 | Momenh, Azzah | LCH-222 | Ogbonna, Oluchi | LCH-22 |
| Ma, Hanley. | LCH-65 | Montileaux, Summer | AM-303 | Oguguo, Ezinne. | HS-194 |
| Ma, Justin | PM-183 | Moore, Candace | LCH-308 | Oh, Daniel | PM-212 |
| Mackey-Alfonso, Sabrina. | LCH-117 | Moore, Maya | AM-54 | Oh, Felix | PM-213 |
| Maddox, Anthony | AM-300 | Moore, Mitchell. | PM-201 | Oh, Matthew | PM-324 |
| Maggirwar, Nishad. | LCH-161 | Moreira, Daniela | LCH-166 | Oh, Sooyoun. | PM-30 |
| Mahajan, Arushi | PM-184 | Moreyra, Caroline. | PM-202 | Okafor Jr., Jonas. | PM-214 |
| Mahajan, Vikrant. | AM-81 | Morgan, Hannah | LCH-167 | Olondo Kuba, Jacob | AM-206 |
| Mahapatra, Ruchika | PM-185 | Morris, Denise. | AM-114 | Olson, Bridget D | AM-96 |
| Maher, Frances Angela | PM-186 | Mossazghi, Nahom. | LCH-285 | Onuoha, Gloria | LCH-73 |
| Makkar, Rishi | PM-319 | Mouser, Nicholas | LCH-223 | Onwukaeme, Michael | PM-215 |
| Malave-Ramos, Ken. | LCH-66 | Movsas, Rachel. | AM-304 | Onyeador, Jeffrey | AM-82 |
| Malik, Tooba | AM-110 | Mumford, Kelsey. | LCH-286 | Onyebuchukwu, Maureen | AM-207 |
| Mallick, Zyannah. | LCH-67 | Munoz, Irwin | PM-28 | Onyekaba, Nnanna | LCH-227 |
| Maltsev, Alexander. | LCH-118 | Munyan, Nicholas. | LCH-224 | Onyima, Chinenye. | LCH-124 |
| Mandle, Hannah | PM-320 | Musselman, Roman. | LCH-120 | Orellana, Halyn | LCH-74 |
| Mannes, Jacob | LCH-68 | Mwenda, Nkatha. | LCH-121 | Orozco, Leah | AM-248 |
| Marani, Melika | AM-301 | Myers, Rachel | HS-191 | Ortega Sustache, Yashira | LCH-228 |
| Marcantonio, Olivia. | AM-111 | Myung, Sangho | AM-55 | Ortiz, Maria S. | AM-249 |
| Martin, Christopher | PM-24 | Nagaradona, Teja | PM-322 | Osborne, Jennifer. | AM-208 |
| Martin, Clare | AM-112 | Naidu, Arush | AM-18 | Oska, Sandra | PM-216 |
| Martin, Madison | PM-187 | Nakuchima, Sofia | AM-115 | Osman, Manolya | AM-153 |
| Martin, Matthew | LCH-219 | Nalls, Matthew | AM-305 | Osterholt, Thomas | AM-291 |
| Martinez, Edith | LCH-162 | Natesh, Naveen | AM-203 | Otero Rios, Andrea | AM-56 |
| Martini, Cole | PM-188 | Nazari, Shayan | PM-203 | Otunuga, Emmanuela | HS-195 |
| Maskeri, Anoo | LCH-283 | Ndiaye, Ndeye Marieme | AM-306 | Overly, Anne | PM-31 |
| Maslyanko, Maria | PM-189 | Neelaveni, Shalika | LCH-324 | Ozga, Teresa | PM-217 |
| Matera-Vatnick, Mikaela | PM-25 | Nellore, Shivani. | PM-204 | Padmanabhan, Nikhil | PM-325 |
| Mathew, Nidhi | LCH-18 | Nelson, Charlie. | AM-307 | Padmanabhan, Reethi | PM-218 |
| Mathews, Meghna | LCH-163 | Nelson, Jordany | AM-116 | Pak, Eowyn | LCH-75 |
| Mathews, Nikhil | LCH-119 | Nelson, Luke | LCH-20 | Pan, Jessica. | LCH-229 |
| Matic, Erica | AM-151 | Nelson, Matthew. | AM-308 | Panakal, Parvathy. | AM-310 |
| Mavura, Yusuph | PM-321 | Nettleton, Margaret | PM-29 | Pannullo, Nicole | LCH-23 |
| Mbuntcha Bogni, Franck | PM-190 | News, Madalyn | LCH-71 | Pantin, Kenzhane | AM-57 |
| McDonald, Kayla | PM-191 | Nganjo, Ryan-Daniela | HS-192 | Paranzino, Cameron | AM-183 |
| McGinnis, ReLiza | AM-302 | Nguyen, Joseph | LCH-168 | Parekh, Kavya | LCH-24 |
| McGinty, Shane. | LCH-69 | Nguyen, Quynh-Van | AM-229 | Parikh, Yash. | PM-32 |
| McGreivy, Kyle. | PM-192 | Nguyen, Richard | LCH-225 | Park, Aaron | AM-311 |

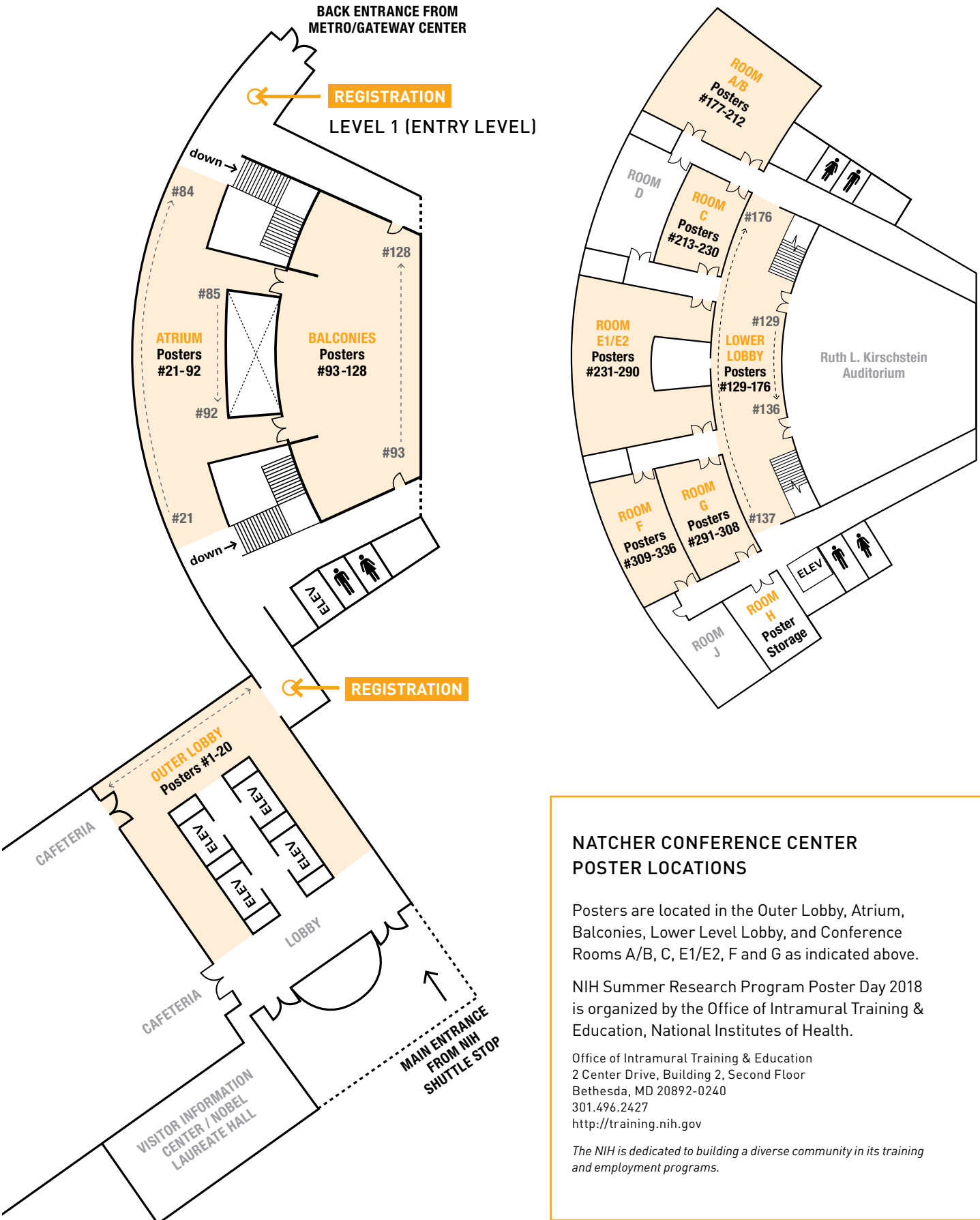
| MORNING SESSION | AM | 9:00 AM-11:00 AM | AFTERNOON SESSION | PM | 1:00 PM-3:00 PM |
|-----------------|-----|------------------|-------------------|----|-----------------|
| LUNCH SESSION | LCH | 11:00 AM-1:00 PM | HISTEP SESSION | HS | 3:00 PM-4:00 PM |

| | | | | | |
|---------------------------------------|----------|---------------------------------|----------|---------------------------------|----------|
| Park, Aprill | .PM-219 | Rios-Brady, Lillian | .AM-318 | Shaw, Elana | .AM-126 |
| Parker, Megan | .PM-33 | Rivellini, Olivia | .AM-83 | Sheikh, Daanish | .PM-251 |
| Parmar, Harshit | .LCH-325 | Rivera, Edward | .LCH-128 | Sheikh, Sofia | .PM-40 |
| Parsley, Luke | .LCH-230 | Rizzo, Robert | .AM-59 | Shemtov, Chana | .PM-252 |
| Parwani, Kiran | .PM-220 | Ro, Chunghwan | .AM-211 | Shen, Brian | .LCH-328 |
| Pasternack, Nicholas | .AM-312 | Robbins, Alexander | .PM-235 | Shen, Christine | .AM-325 |
| Patel, Nishka | .AM-58 | Robinson, Emma | .PM-37 | Shen, Juncheng | .PM-253 |
| Patgiri, Anusha | .AM-313 | Robnett, Maya | .AM-212 | Sherwin, Alexander | .LCH-329 |
| Pavletic, Oliver | .PM-34 | Rogers, James | .PM-236 | Shi, Ethan | .PM-254 |
| Pedersen, Lilli | .PM-221 | Rogers, Keith | .AM-123 | Shi, Tesia | .LCH-237 |
| Pedersen, Yoni | .AM-5 | Rohm, Dahlia | .PM-237 | Shin, Janis | .AM-127 |
| Pederson, Alia | .AM-230 | Romo, Elizabeth | .LCH-235 | Shirazi, Kimya | .LCH-292 |
| Peeney, Dave | .PM-192 | Rooke, Victoria | .LCH-289 | Shirkin, Selena | .PM-255 |
| Peet, Graham | .PM-35 | Roque, Christopher | .AM-6 | Shorb, Emily | .AM-326 |
| Peng, Brian | .LCH-25 | Rosencrans, William | .AM-213 | Shukla, Niharika | .AM-128 |
| Peng, Helen | .PM-222 | Rosenfeld, Mia | .PM-238 | Siddiqui, Amina | .PM-256 |
| Peng, Luyi | .PM-223 | Rosenzweig, Sofia | .AM-60 | Silue, Tjerignimin | .LCH-173 |
| Perkelvald, Adelle | .PM-224 | Rosu, Ana | .PM-239 | Silva, Alexander | .AM-327 |
| Perone, Isabella | .LCH-125 | Ruben, Claire | .PM-240 | Silver, Jamilah | .LCH-293 |
| Pham, Linh | .AM-117 | Rubinovitz, Evan | .AM-319 | Simoneaux, Tankya | .PM-257 |
| Phillips, Nathan | .PM-225 | Ruchelman, Nathan | .PM-241 | Simpara, Mohamed | .PM-258 |
| Pickerill, Ethan | .AM-118 | Rudolph, Nia | .LCH-26 | Sims, Wynton | .AM-62 |
| Pickering, Danielle | .LCH-231 | Ruggiero, Juliana | .PM-38 | Singh, Anisha | .PM-259 |
| Pingree, Darcia | .LCH-232 | Rutstein, Rachel | .PM-242 | Singh, Gurbani | .PM-260 |
| Pogrebniak, Elizabeth | .AM-209 | Saha, Rishabh | .PM-243 | Singh, Sanjana | .LCH-330 |
| Polk, Katherine | .AM-119 | Sahagun, Elizabeth | .LCH-290 | Singla, Abhishek | .LCH-174 |
| Preston, Olivia | .PM-226 | Sahni, Sahil | .PM-244 | Sivakumar, Ishwarya | .LCH-77 |
| Pritikin, Ethan | .LCH-233 | Salamat, Kennedy | .PM-245 | Slacin, Kathryn | .PM-261 |
| Prucnal, Rachel | .AM-120 | Salvady, Karun | .AM-22 | Smith, Hannah | .PM-262 |
| Pryor, Matthew | .LCH-76 | Sampson, Genevieve | .PM-246 | Smith, Lauren | .PM-263 |
| Pu, Alex | .AM-5 | Samuels, Emily | .LCH-129 | Smith, Lily | .AM-63 |
| Qin, Nancy | .PM-227 | Sandman-Long, Aidan | .AM-124 | Smith-Cohen, Ethan | .AM-323 |
| Quaid, Kara | .AM-314 | Santa, Emma | .LCH-130 | Smith-Sreen, Joshua | .PM-328 |
| Queme, Bryan | .AM-21 | Sapiro, Elizabeth | .AM-84 | Sofat, Rhea | .PM-170 |
| Quintanilla-Arteaga, Anaisa | .PM-228 | Sarabi, Cameron | .LCH-131 | Sohn, Sooah | .LCH-238 |
| Rains, Alex | .LCH-126 | Sarch, Gabriel | .AM-320 | Solis, Sandra | .LCH-239 |
| Rama, Myriam | .LCH-287 | Sartaj, Ibrahim | .LCH-171 | Solomon, Julianna | .PM-264 |
| Ramirez, Eliana | .AM-210 | Sawyers, James | .HS-197 | Solomon, Talia | .AM-155 |
| Ramsay, Joemy | .PM-326 | Schaffer, Daniel | .LCH-326 | Son, Felix Donghwi | .LCH-331 |
| Ramser, Madeline | .PM-229 | Schipma, Anika | .AM-214 | Song, Jerry | .LCH-175 |
| Ranasinghe, Michael | .PM-36 | Schmidt, Theo | .AM-125 | Song, Justin | .AM-166 |
| Randazzo, Jessica | .AM-121 | Schneider, Jordan | .PM-39 | Soriano, Jarely | .HS-198 |
| Rao, Anusha | .PM-21 | Schneider, Leslie | .LCH-291 | Spaur, Maya | .PM-329 |
| Rastegar, Cyrus | .AM-315 | Schwartz, Aviva | .LCH-236 | Squirewell, Catherine | .AM-328 |
| Ravichandran, Maya | .PM-230 | Schwartz, Hadassah | .PM-247 | Srinivasan, Tejas | .AM-329 |
| Ravindra, Pavan | .AM-320 | Schwartz, Mollie | .AM-154 | Stahl, Sara | .LCH-294 |
| Ravipati, Kaushik | .AM-316 | Scott, Aleah | .LCH-132 | Starost, Joshua | .PM-41 |
| Raymond-Smiedy, Peter | .PM-231 | Scott, Devin | .AM-321 | Stavish, Caitlin | .LCH-295 |
| Raza, Noor | .PM-232 | Scott, Natasha | .AM-322 | Steffens, Helena | .PM-265 |
| Reagle, Emily | .PM-233 | Seah, Priscilla | .LCH-327 | Steger, Benjamin | .AM-64 |
| Redweik, Graham | .AM-122 | Seid, Raya | .AM-61 | Stein, Cody | .LCH-240 |
| Reyes, Tiffany Ashley | .PM-234 | Semancik, Christopher | .AM-323 | Stevens, Carúmey | .AM-215 |
| Reyes, Vanessa | .HS-196 | Sesay, Ematu | .PM-248 | Stevens, Madison | .AM-216 |
| Rhim, Brian | .AM-241 | Shah, Nirav | .PM-327 | Street, Sara | .PM-266 |
| Rhodehouse, Kyle | .LCH-234 | Shah, Veeraj | .PM-249 | Stukes, Ian | .LCH-296 |
| Rice, Myra | .LCH-170 | Shan, Holly | .PM-250 | Su, Simon | .LCH-176 |
| Riddick, April | .LCH-127 | Shao, Emily | .AM-165 | Sui, Xiangliang | .LCH-241 |
| Riddle, Amanda | .LCH-288 | Shapiro, Jeremy | .AM-324 | Sukinik, Joseph | .LCH-78 |
| Rios, Maria Jose | .AM-317 | Shaw, Dana | .LCH-172 | Sullivan, Delaney | .AM-129 |

| MORNING SESSION | AM | 9:00 AM-11:00 AM | AFTERNOON SESSION | PM | 1:00 PM-3:00 PM |
|-----------------|-----|------------------|-------------------|----|-----------------|
| LUNCH SESSION | LCH | 11:00 AM-1:00 PM | HiSTEP SESSION | HS | 3:00 PM-4:00 PM |

| | | |
|--|--|--------------------------------------|
| Sun, CarolAM-130 | Tycko, AriellePM-285 | Williams, NicholasPM-277 |
| Sun, Eric.PM-267 | Tyrlik, AdamPM-286 | Wilson, SierraLCH-86 |
| Sun, GinnyLCH-297 | Tyrlik, Michal.LCH-81 | Windsor, KathrynHS-201 |
| Sun, MitchellAM-330 | Ueberla, Anja.AM-133 | Winful, TaiyePM-299 |
| Sundaresan, JananiAM-23 | Ugoji, ChinenyePM-332 | Winrow, ErinPM-300 |
| Suresh, Arvind.PM-268 | Vaile, JohnAM-134 | Wisniewski, AndreaLCH-87 |
| Suthard, RebeccaLCH-177 | Van Leer, EliseLCH-179 | Wolfe, AnnaAM-168 |
| Svirydava, MaryiaLCH-79 | Van Wicklin, Caitlin.LCH-299 | Wolfish, Leah.AM-139 |
| Svoisky, Abigail.PM-269 | Vanjoske, Rachel.LCH-243 | Wong, VanessaAM-69 |
| Swofford, Ethan.LCH-261 | Vasquez, Cyndy.AM-135 | Woo, Elizabeth GeenaLCH-29 |
| Szajek, JustinAM-24 | Vaughn, Lauren.LCH-82 | Woodbury, David.LCH-247 |
| Tadesse, FevenHS-199 | Veeraraghavan, GayathriLCH-244 | Wright, SheavonnieLCH-88 |
| Tager, JuliaPM-270 | Vega, AndyPM-287 | Wu, David.LCH-193 |
| Takla, Christina.AM-231 | Velasco, Claudia MaePM-288 | Wu, EthanPM-301 |
| Tallavajhala, Srikar.PM-271 | Vemulakonda, MadhuAM-136 | Wu, KenminPM-46 |
| Talusan, SimonAM-65 | Vemulakonda, PavanAM-137 | Wu, Sophia.AM-170 |
| Taner, HulyaAM-242 | Venetianer, Rebecca.PM-333 | Wucherer, KellyAM-140 |
| Tang, GeorgeLCH-242 | Venkataganesh, Harini.AM-219 | Wunsch, DonaldLCH-248 |
| Tang, KevinPM-272 | Vera-González, Patricia.LCH-136 | Wyble, Matthew.AM-220 |
| Tang, Michelle.LCH-298 | Verschleisser, SaraLCH-83 | Xi, BrianPM-302 |
| Tanner, ToyaHS-200 | Vigil, DeionnaAM-333 | Xia, Clarissa.PM-303 |
| Taori, SuchetPM-273 | Vinjamuri, ShreyaPM-289 | Xie, DannyAM-169 |
| Taylor, IsaiahPM-274 | Virga, JamesPM-290 | Xie, Jane.PM-304 |
| Teigen, ErinPM-42 | Vyas, Anjali.AM-334 | Xie, WeipengLCH-142 |
| Tejeda, ItzelLCH-178 | Walker-Bawa, KatharinePM-291 | Xin, VictoriaLCH-89 |
| Teng, EvanLCH-80 | Walsh, AdelinePM-292 | Xu, LilyAM-141 |
| Terse, Puja.AM-85 | Walton, AmiyaPM-293 | Xu, SamanthaLCH-90 |
| Teshome, Samuel.AM-217 | Wang, Brandon.AM-7 | Yadav, HarshLCH-91 |
| Thapar, SabrinaPM-43 | Wang, CarolinePM-44 | Yang, Chris.LCH-249 |
| Thepmankorn, ParisornAM-331 | Wang, EricLCH-84 | Yang, Daniel.LCH-92 |
| Thoerner, TimPM-275 | Wang, GraceLCH-300 | Yang, HelenLCH-182 |
| Thomas, SarahPM-276 | Wang, Haoxuan.LCH-180 | Yang, Hongjia.PM-305 |
| Thompson, AshleyPM-330 | Wang, JasminePM-294 | Yang, TianenPM-306 |
| Thompson, HaleyLCH-133 | Wang, JingLCH-137 | Yang, Wendy.LCH-183 |
| Thompson, MatthewPM-277 | Wang, Richard.LCH-245 | Yannotty, John.LCH-262 |
| Thorkelsdottir, GudrunAM-198 | Warburton, Anne.LCH-24 | Yao, AnthonyLCH-143 |
| Thyagarajan, ArthiAM-86 | Washington, BrianaLCH-138 | Yavatkar, AmbikaAM-142 |
| Timmer, MichaelPM-278 | Washington, Zhané.LCH-139 | Yonas, RuthPM-47 |
| Tisdale, Garrett.PM-279 | Washio, Sharon.LCH-301 | Yoo, Kyungyoon.LCH-250 |
| Tittley, TishinaLCH-27 | Watson, AlyssaAM-250 | Yoon, DahyePM-307 |
| Toker, Joey.AM-66 | Webster, AlexandraLCH-302 | You, ChristinaLCH-334 |
| Ton, Mimi (Trucmai)PM-331 | Wein, Perri.PM-51 | Young, AshleyLCH-251 |
| Tong, Andrew.AM-218 | Weiner, BrookeLCH-181 | Yue, MichelleLCH-252 |
| Tonko, TylerLCH-310 | Weiser-Schlesinger, AndiePM-45 | Zamani, Shawn.PM-335 |
| Toote, ShenandoaLCH-28 | Weiss, AlizaPM-295 | Zhang, MasonAM-25 |
| Torquati, MatteoAM-243 | Weiss, JordanLCH-140 | Zhao, Isaac.PM-336 |
| Toscano, AlexandraPM-280 | Weiss, MiriamLCH-311 | Zhao, Neo.LCH-30 |
| Toumbou, Khadijah.PM-281 | Wen, Bronte.LCH-85 | Zheng, Lillian.LCH-253 |
| Tran, TungLCH-332 | Werwath, Katy.LCH-303 | Zhong, AmyPM-308 |
| Trang, NancyAM-244 | Whitaker, Kiara.PM-296 | Zhou, Julia.AM-170 |
| Traore, ZiannAM-131 | Whitted, Calandra.AM-68 | Zhu, AliceAM-70 |
| Truong, Gia ThinhLCH-134 | Whittington, CarolineLCH-141 | Zhu, JenniferLCH-31 |
| Tsintolas, Jack.PM-282 | Whitworth, IsabellaAM-138 | Zhuang, SophiePM-309 |
| Tucewicz, AshleyLCH-135 | Wiafe, ErnestinaPM-297 | Zimand, OreetAM-71 |
| Tuffour, Kwaniyah.AM-67 | Widdup, LilyPM-298 | Zukin, StefanAM-221 |
| Tulchinsky, DaniellePM-283 | Widemann, Lea.PM-334 | Zuo, Mei Xing.AM-87 |
| Turan, Aslihan.PM-284 | Will, F'jeiLCH-246 | |
| Turner, TrinitiAM-132 | Williams, AshleyAM-291 | |
| Turnham, AliceAM-332 | Williams, BrandonAM-167 | |

NIH SUMMER RESEARCH PROGRAM POSTER DAY 2018



NATCHER CONFERENCE CENTER POSTER LOCATIONS

Posters are located in the Outer Lobby, Atrium, Balconies, Lower Level Lobby, and Conference Rooms A/B, C, E1/E2, F and G as indicated above.

NIH Summer Research Program Poster Day 2018 is organized by the Office of Intramural Training & Education, National Institutes of Health.

Office of Intramural Training & Education
 2 Center Drive, Building 2, Second Floor
 Bethesda, MD 20892-0240
 301.496.2427
<http://training.nih.gov>

The NIH is dedicated to building a diverse community in its training and employment programs.