

NIH SUMMER RESEARCH PROGRAM POSTER DAY - **AUGUST 8, 2019**

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	PM2	3:00 PM-4:00 PM (Room A/B)

SESSION	INSTITUTE OR CENTER	POSTER NUMBERS
AM	Center for Information Technology (CIT)	1-8
AM	National Human Genome Research Institute (NHGRI)	9-43
AM	National Institute on Alcohol Abuse and Alcoholism (NIAAA)	44-57
AM	National Institute of Allergy and Infectious Diseases (NIAID)	58-123
AM	National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)	124-137
AM	National Institute of Biomedical Imaging and Bioengineering (NIBIB)	138-147
AM	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	148-209
AM	National Institute of Neurological Disorders and Stroke (NINDS)	210-280
AM	National Library of Medicine (NLM)	281-298
LCH	National Center for Advancing Translational Sciences (NCATS)	1-23
LCH	National Eye Institute (NEI)	24-51
LCH	National Heart, Lung, and Blood Institute (NHLBI)	52-109
LCH	National Institute on Aging (NIA)	110-162
LCH	<i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development (NICHD)	163-218
LCH	National Institute on Drug Abuse (NIDA)	219-248
LCH	National Institute on Deafness and Other Communication Disorders (NIDCD)	249-253
LCH	National Institute of Dental and Craniofacial Research (NIDCR)	254-257
LCH	National Institute of Environmental Health Sciences (NIEHS)	258-262
LCH	National Institute of Mental Health (NIMH)	263-297
PM	Clinical Center (CC)	1-47
PM	National Center for Complementary and Integrative Health (NCCIH)	48-49
PM	National Cancer Institute (NCI)	50-257
PM	National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG)	258-280
PM	National Institute on Minority Health and Health Disparities (NIMHD)	281-288
PM	National Institute of Nursing Research (NINR)	289-296
PM2	OD High School Scientific Training and Enrichment Program (HiSTEP)	157-181

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The complete program for Summer Poster Day 2019, including poster titles, can be found at https://www.training.nih.gov/assets/2019_Summer_Poster_Day_Program.pdf.

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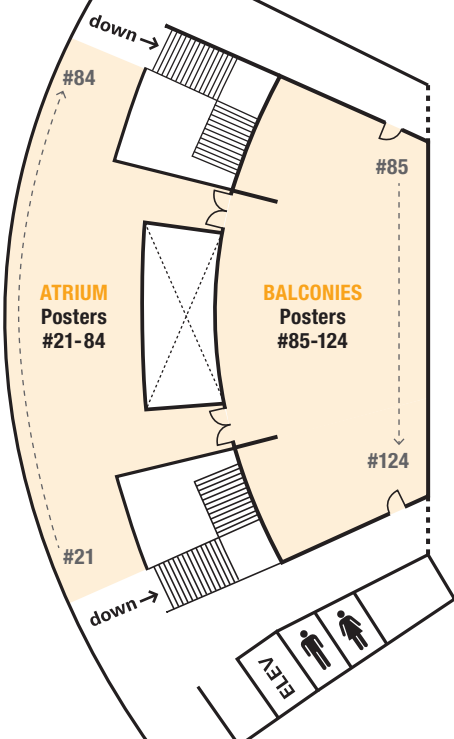
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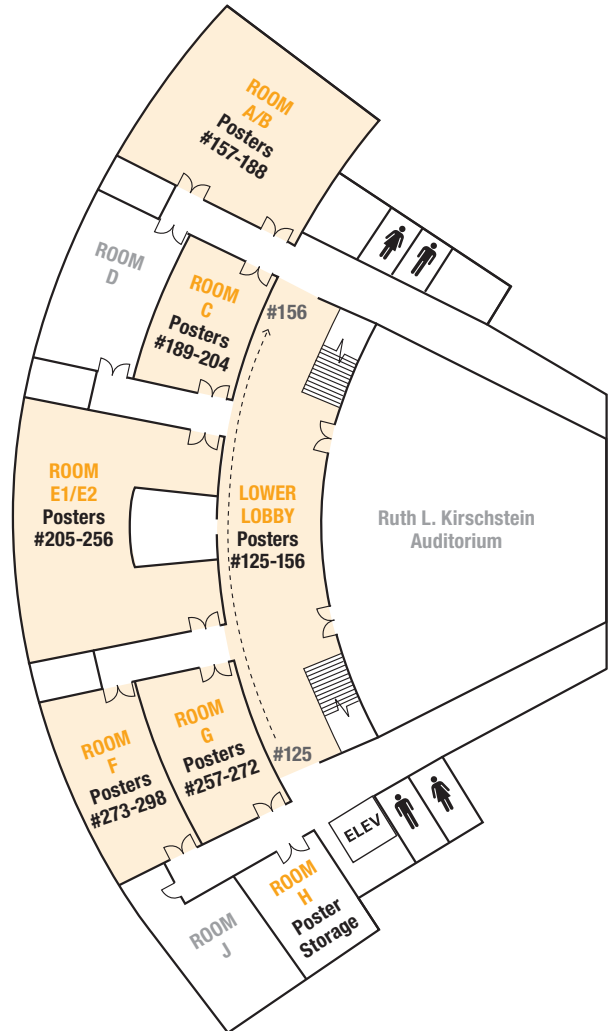
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SUMMER INTERNSHIP PROGRAM - POSTER DAY 2019

Center for Information Technology (CIT)

AM-1 Leya Abraham

Enhancing Genomics Core Facility Project Workflow with LabKey

University of Maryland, College Park (Maryland)

Preceptors: Mr. Michael Steele, Dr. Timothy Myers, Dr. Calvin Johnson

AM-2 Cody Bastian

Automated Process to Generate Patient-specific 3D Printed Prostate Molds for Histological Validation and Guided Fresh Tissue Procurement

University of Maryland, College Park (Maryland)

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

AM-3 Mariko Gardiner

Design and Implementation of a 3D Printed Tenodesis Type Action Hand Prosthesis

University of Alberta (Non-U.S.)

Preceptors: Mr. Tom Pohida, Mr. Marcial Garmendia, Ms. Hanna Hildenbrand, Ms. Bonnie Hodsdon

AM-4 Ajith Kanuri, Alexandra Patterson

Video Monitoring System for Automated Detection of Pain Related Mice Behaviors

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

Preceptors: Mr. Ghadi Salem, Mr. Marcial Garmendia, Dr. Jianhua Zhang, Mr. Tom Pohida

AM-5 Howard Malc

Home-cage Monitoring Device for Rodent Learning and Memory Studies

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Mr. Jonathan Krynitsky, Dr. Jianhua Zhang, Dr. William F. Simonds, Mr. Tom Pohida

AM-6 Natasha McMasters

Design of an Analytical Centrifuge Adapter for Generation of 3-Dimensional Chondrocyte Pellet Culture

North Carolina Agricultural and Technical State University (North Carolina)

Preceptors: Mr. Marcial Garmendia-Cedillos, Mr. Tom Pohida, Dr. Peter Schuck, Dr. Julian Lui

AM-7 Wally Niu, Matthew Rosenblatt

Holographic Tracking and Visualization in Augmented Reality Guidance for Prostate Fresh Tissue Procurement

Johns Hopkins University (Maryland), University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Raisa Freidlin, Dr. Peter Choyke, Dr. Baris Turkbey, Mr. Thomas Pohida

AM-8 Brandon Wang

Design of a Video Acquisition System to Assess Mouse Locomotion and Stability upon Functional Disruption of Motor Circuits

University of Wisconsin-Madison (Wisconsin)

Preceptors: Mr. Jonathan Krynitsky, Mr. Randall Pursley, Mr. Thomas Pohida, Dr. Anupama Sathyamurthy

National Human Genome Research Institute (NHGRI)

AM-9 Jeriel Ake

Perceptions and Beliefs about Experimental Treatments for Inherited Metabolic Disorders

Montgomery College (Maryland)

Preceptors: Dr. Dawn Lea, Dr. Laura Koehly

AM-10 Yoseph Boku

The Effect of Genetic Reduction of mTOR expression on G6808G Mouse Embryonic Fibroblasts

Harvard College (Massachusetts)

Preceptors: Dr. Wayne Cabral, Dr. Michael Erdos

AM-11 David Chang

Assessing the Safety of Gene Therapy Vectors: Updates to a Bioinformatics Pipeline

Cornell University (New York)

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

AM-12 Tes Cherian

Location and Communication: Family and Physician Health Discussion

University of Tennessee at Chattanooga (Tennessee)

Preceptors: Ms. Calandra Whitted, Dr. Laura Koehly, Dr. Chris Marcum

AM-13 Claudia Chu

Mapping Impossible: Aligning Long Reads through Centromeres and Satellite Arrays

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Arang Rhie, Dr. Adam Phillippy, Dr. Sergey Koren, Dr. Chirag Jain

AM-14 Stanley Clarke

Sub-populations of Common Myeloid Progenitors Contain Erythroid and Megakaryocytic Precursors

Colby College (Maine)

Preceptors: Dr. Elisabeth F. Heuston, Dr. David M. Bodine, Mrs. Stacie M. Anderson

AM-15 Noah Crooks

Analysis of Cardiopulmonary Function in Patients with Gaucher Disease

Vassar College (New York)

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

AM-16 Sofia Dragacevac

Characterization of Novel Mutations in Auto Inflammatory Disease

University College Dublin (Non-U.S.)

Preceptors: Dr. Ivona Aksentijevich, Dr. David Beck

AM-17 Michelle Dwyer

Why is Rover Red? Genetics of Red Coat Color Variation in Domestic Dogs

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Heidi Parker, Dr. Elaine Ostrander

AM-18 Serena Fleming

A Systematic Review of the Relationship between Therapeutic Alliance and Patient Outcome in the Medical Setting: Implications for Genetic Counseling

Virginia Polytechnic Institute and State University (Virginia)

Preceptor: Dr. Lori Erby

AM-19 Gwladys Emmane Fotso Chekam

Investigating How the Length of Time in the U.S. Affects Healthcare Satisfaction of Individuals Living with Sickle Cell Disease

Towson University (Maryland)

Preceptors: Ms. Khadijah Abdallah, Dr. Vence Bonham

AM-20 Tesiya Franklin

Short Telomeres in Alveolar Type 2 Cells in Hermansky-Pudlak Syndrome Pulmonary Fibrosis

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Bernadette Gochuico, Dr. Heidi Dorward, Dr. William Gahl, Mr. Chen Han

AM-21 Karen Funderburk

Combinatorial Testing of Epigenetic Biomarkers Carrying Potential for Pan-cancer Screening

Arizona State University (Arizona)

Preceptor: Dr. Laura Elnitski

AM-22 Macred Gbenro Jr

Investigating the Link between Eating Behavior, Genetic Attributions, and Self-efficacy to Inform Dietary Interventions

University Of Maryland School of Public Health (Maryland)

Preceptor: Dr. Susan Persky

AM-23 Leila Ghaffari

Color My World: Genetics of White-spotting in Domestic Dog Breeds

Urbana High School (Maryland)

Preceptors: Dr. Jacquelyn Evans, Dr. Heidi Parker, Dr. Elaine Ostrander

AM-24 Charlotte Hagerman

Predictors of Parents' Pursuit and Avoidance of Obesity Risk Information

George Washington University (District of Columbia)

Preceptors: Dr. Susan Persky, Dr. Rebecca Ferrer

AM-25 Sarah Hyman

Fulfilling Expectations: The Association of Interpersonal Stressors and Support Satisfaction with Primary Caregivers' Mental Health

Tulane University (Louisiana)

Preceptors: Ms. Anna Shetler, Dr. Laura Koehly

AM-26 Thomas Johnstone

Confirming the Molecular Consequences of Non-exonic Variants in Patients Enrolled in the Undiagnosed Diseases Program

United States Naval Academy (Maryland)

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

AM-27 Elise Kane

Neonatal Ultrasonic Vocalization and Motor Development Profiles in Mouse Models of Down Syndrome

University of Maryland, College Park (Maryland)

Preceptors: Dr. Faycal Guedj, Dr. Diana Bianchi, Ms. Sabina Khantsis

AM-28 Bryan Malonga

Rubinstein Taybi Syndrome in Diverse Populations

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Paul Kruszka, Dr. Cedrik Ngongang

AM-29 Melanie Martinez

RNA Sequencing Analysis of Cbfb-MYH11 Knock-In Mice

Purdue University (Indiana)

Preceptors: Dr. Paul Liu, Dr. Kai Yu

AM-30 Elisa McRae

Analysis of Anakinra Use during Pregnancy

Cienega High School (Arizona)

Preceptors: Dr. Amanda Ombrello, Mrs. Patrycja Hoffmann, Dr. Deborah Stone, Mrs. Michele Nehrebecky

AM-31 Mira Mookerjee

Identifying Structural Variants in a Linkage-identified Region for Subjects with Persistent Stuttering

Carnegie Mellon University (Pennsylvania)

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

AM-32 Carli Needle

The Role of Metabolic Switching in Zebrafish Caudal Fin Regeneration

Vanderbilt University (Tennessee)

Preceptors: Dr. Jason Sinclair, Dr. Shawn Burgess

AM-33 Tysha Newman

Obstetric History as a Risk Factor for Attention Deficit Hyperactivity Disorder (ADHD).

Bowie State University (Maryland)

Preceptors: Dr. Philip Shaw, Ms. Wendy Sharp, Ms. Tysha Newman

AM-34 Daniela Nganjo

Genetic and Chemical Approaches to Understanding Hearing Development and Regeneration

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

Preceptors: Dr. Shawn Burgess, Dr. Wuhong Pei

AM-35 Kenzhane Pantin

Do BRCA2 mutations Increase Risk for Cancers Other than Breast Cancer, Ovarian Cancer, and Melanoma?

University of Illinois at Urbana-Champaign (Illinois)

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

AM-36 Fernando Rivera

Skeletal Manifestations in ERT-treated Patients with Neuronopathic Gaucher Disease.

Universidad Central del Caribe School of Medicine (Puerto Rico)

Preceptors: Dr. Ellen Sidransky, Mrs. Emory Ryan, Dr. Grisel Lopez

AM-37 Niyati Shah

The Role of State Service Utilization on Caregiver Health Outcomes

George Washington University (District of Columbia)

Preceptors: Ms. Anna Shetler, Mr. Aaron Gurayah, Dr. Christopher S. Marcum, Dr. Laura M. Koehly

AM-38 Lily Smith

Pro-fibrotic Phenotype of Primary Human Hermansky-Pudlak Syndrome Cells

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. May Malicdan, Dr. Bernadette Gochuico, Dr. William Gahl

AM-39 Cedonia Thomas

Coping and Resilience: Association between Positive Aspects of Caregiving and Health of Parent-Caregivers

Tougaloo College (Mississippi)

Preceptors: Dr. Jasmine Manalel, Dr. Laura Koehly

AM-40 Caroline Tippett

Homozygous Missense Variant in NR2C2AP Is Possibly Associated with Primary Microcephaly and Cortical Malformations

Franklin & Marshall College (Pennsylvania)

Preceptors: Dr. Joshi Stephen, Dr. May Christine Malicdan, Mrs. Jennifer Wang, Dr. John Burke

AM-41 Michal Tyrlik

Molecular Characterization of beta-galactosidase Deficient Mouse Model of Human GM1 Gangliosidosis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ted Han, Mr. Robin Yoon, Dr. Cynthia Tifft, Dr. Cynthia Tifft

AM-42 Kathryn Windsor

Longitudinal Transcriptome and Protein Characterization of α -Synuclein and Glucocerebrosidase in a Mouse Model of Gaucher Disease

Paint Branch High School (Maryland)

Preceptors: Ms. Jenny Do, Dr. Nahid Tayebi, Dr. Ellen Sidransky

AM-43 Angela Wu

Discovery of Microbial Communities in Metagenomic Data Using Topic Modeling

Saint Louis University (Missouri)

Preceptors: Mr. Brian Ondov, Dr. Adam Phillippy

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

AM-44 Noah Absalon

Effect of Chronic Cannabis Withdrawal on Reward Seeking in Mice

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andrew Kesner, Dr. David Lovinger

AM-45 Rishitha Anumola

Real Time in vivo Measurements of Endocannabinoid Signaling during Striatum-dependent Behaviors

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Shana Augustin, Dr. David Lovinger

AM-46 Nina Brown

Assessment of the Mu-opioid Receptor System through in vivo Peripheral Analyses

Howard University (District of Columbia)

Preceptor: Dr. Sunny Kim

AM-47 Caroline Djakuduel

Gene Network of Dopamine Receptor Type 2 (Drd2)

Wheaton High School (Maryland)

Preceptors: Dr. Lucia Guerri, Dr. David Goldman

AM-48 Gari Feria

The Interaction between Age and Suggestibility on Adult Alcohol Consumption

Wheaton High school (Maryland)

Preceptors: Dr. Vijay Ramchandani, Ms. Nia Byrd

AM-49 Julia Harris

Biobehavioral Characterization of Racial Disparity between Black and White Individuals in Relation to Alcohol Use Disorder

American University (District of Columbia)

Preceptors: Dr. Mehdi Farokhnia, Dr. Lorenzo Leggio

AM-50 Sean Hernandez

Projections from the Paraventricular Nucleus of the Thalamus to the Striatum Can Evoke Dopamine Transients through Glutamatergic and Cholinergic Signaling

California State University of San Marcos (California)

Preceptors: Dr. Michael Authement, Dr. Veronica Alvarez

AM-51 Tawnjerae Joe

Effects of Alcohol Pre-exposure on Cocaine Locomotor Sensitization

Fort Lewis College (Colorado)

Preceptors: Dr. Daniel da Silva e Silva, Dr. Veronica Alvarez

AM-52 Alana Keller

Bottle to Bottle: The Link between Early Life Stress, Alcohol Expectancies, and Alcohol Consumption

Hampton University (Virginia)

Preceptors: Dr. Bethany Stangl, Dr. Vijay Ramchandani

AM-53 Jean Kim

Differential Expression of Cytochrome P450-2E1 (CYP2E1) and Other P450 Isoforms in the Small Intestine and Liver of Alcohol- or Fructose-Exposed Rodents

University of Chicago (Illinois)

Preceptors: Dr. Byoung-Joon Song, Dr. Sang Su Woo

AM-54 Riley Paulsen

Alterations in Striatal Dopamine Levels Correlated with Sleep Disturbances during Cannabis Withdrawal

University of South Dakota (South Dakota)

Preceptors: Dr. Yolanda Mateo, Dr. Andrew Kesner, Mr. Lucas Voyvodic, Dr. David Lovinger

AM-55 Sarthak Shah

Optimization of Radiotracer Production and Biological Application for Positron Emission Tomography in Brain Addiction

Ohio State University (Ohio)

Preceptors: Mrs. Wenjing Zhao, Mr. Joseph Ramsey, Dr. Sunny Kim, Dr. Nora Volkow

AM-56 Belal Yasin

Preclinical Evaluation of Functionally Distinctive Adenosine A1 Radiotracers Using PET.

Howard University (District of Columbia)

Preceptor: Dr. Sunny Kim

AM-57 Mei Xing Zuo

Exploring Cell Specific Expression of Cannabinoid CB1R and iNOS in Pulmonary Fibrosis Development Using an Animal Model of Hermansky-Pudlak Syndrome Pulmonary Fibrosis

Winston Churchill High School (Maryland)

Preceptors: Ms. Jasmina Abdalla, Mr. Charles Zawatsky, Dr. George Kunos, Dr. Resat Cinar

National Institute on Allergy and Infectious Diseases (NIAID)

AM-58 Angelika Alberstadt

Mutation or Variation? Functional Assessment of Patient Variants in IRF2BP2

St. John's College (Maryland)

Preceptors: Ms. Amy Hsu, Dr. Steven Holland

AM-59 Daniel Antonelli

Development of an Assay to Determine Presence of a Proprietary Molecule in Process Development

University of Alabama (Alabama)

Preceptor: Mr. Michael Pratt

AM-60 Larissa Ault

In vitro Affinity Maturation of Broadly Neutralizing HIV Antibody CAP256-VRC26.25

University of Hawaii at Manoa (Hawaii)

Preceptors: Dr. John Misasi, Dr. Nicole Doria-Rose, Dr. John Mascola

AM-61 Shenavia Balcom-Luker

Biologically Active Molecules as Immune Modulators in Beta-glucan Trained Human Macrophage Cells

Texas Woman's University (Texas)

Preceptor: Dr. Sinu John

AM-62 Hulaimatou Bayo

Assessing the Impact of HSCT on Cytokine Levels in CGD vs. Non-CGD Mice

James Hubert Blake High School (Maryland)

Preceptors: Ms. Caroline Kreitzer, Dr. Elizabeth Kang, Dr. Harry Malech

AM-63 Daniella Bloch

Inborn Errors in Proteoglycan Synthesis Impair gp130 Signaling to Promote Allergic Phenotypes in Humans

University of Maryland, College Park (Maryland)

Preceptors: Ms. Sarah Blackstone, Dr. Jonathan Lyons, Dr. Michael O'Connell, Dr. Joshua Milner

AM-64 Nicholas Breehl

Pichia Expression of a pfs230D1 Fusion for Evaluation as a Part of a Two-component Self-assembling Nanopartical Vaccine

Hood College (Maryland)

Preceptor: Dr. Nicholas MacDonald

AM-65 Terance Camacho

Immunophenotyping Markers in Blood and Cerebrospinal Fluid of Multiple Sclerosis Patients

University of Guam (Guam)

Preceptors: Mr. Paavali Hannikainen, Dr. Bibiana Bielekova

AM-66 Jamie Carmichael

Characterizing Secreted IgM and IgG3 Bound to B Cells of HIV-infected Individuals

Watkins Mill High School (Maryland)

Preceptors: Mr. Krittin Trihemasava, Dr. Susan Moir

AM-67 Cecelia Castleberry

Effect of Preventive Coartem[®] Treatment on Malaria Exposures in a Cohort of Malian Children

University of North Dakota (North Dakota)

Preceptor: Dr. Jennifer Kwan

AM-68 Amanda Chan

Monoclonal Antibody Binding to SIV gp120 Envelope Proteins Reveals Biochemical Properties and Antigenic Features

University of California, Los Angeles (California)

Preceptors: Dr. James Arthos, Ms. Sinmanus Vimonpatranon, Ms. Nathalie Chen

AM-69 Anna Chen

A Molecular Characterization of the Interaction between the CD4 Receptor and Integrin alpha4beta7 on alpha4beta7high CD4+ T cells

Richard Montgomery High School (Maryland)

Preceptor: Dr. James Arthos

AM-70 Lucy Chen

Purification, Characterization, and Structural Study of the HCMV Envelope Trimer

Winston Churchill High School (Maryland)

Preceptors: Dr. Peter Kwong, Dr. Tongqing Zhou

AM-71 Steven Chen

Design and Optimization of Nanoparticle Carrier Vaccines Targeting the Fusion Peptide of HIV-1

Swarthmore College (Pennsylvania)

Preceptors: Dr. Li Ou, Dr. Peter Kwong

AM-72 Holly Coleman

Integration of Proteomics and Metabolomics for the Identification of Severe Malaria Biomarkers

Missouri University of Science and Technology (Missouri)

Preceptors: Dr. Patricia Gonzales, Dr. Michal Fried

AM-73 Kimia Dasteh Goli

The Expression and Purification of Cas9 from CRISPR/Cas9 Gene Editing System

University of Illinois at Chicago (Illinois)

Preceptors: Mr. Matthew Spencer, Dr. David Garboczi

AM-74 David Dean

Characterization of Plasmodium falciparum Translation-enhancing Factor

University of South Florida, Morsani College of Medicine (Florida)

Preceptors: Dr. Patrick Duffy, Dr. Bethany Jenkins

AM-75 Trisha Deshmukh

Transfection Platforms and Stability for Vaccine Reagent Production

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Abasha Williams, Ms. Elle Millender, Dr. Elizabeth Scheideman, Mr. Daniel Schankel

AM-76 Nelson Diaz

Identifying Host Proteins Interacting with Tg ROP38 to Affect Immune Signaling in Toxoplasma Infected cells

Don Bosco Cristo Rey High School (Maryland)

Preceptors: Mr. Nelson Diaz, Dr. Beth Gregg, Mrs. Olivia Yanes, Dr. Michael E. Grigg

AM-77 Emma Duge

Generation of Reporter Genes in Leishmania tropica

Colgate University (New York)

Preceptors: Dr. David Sacks, Dr. Isabelle Louradour, Dr. Tiago Rodrigues Ferreira

AM-78 Sarah Gao

CXCL9-binding Peptides for PET Imaging

Princeton University (New Jersey)

Preceptors: Dr. Hongwei Zhang, Dr. Joshua Farber

AM-79 Arindam Ghosh

The Conformation of an Epitope in CD4 Domain 2 Is Altered by HIV gp120 Binding to CD4 Domain 1

Duke University (North Carolina)

Preceptors: Dr. James Arthos, Ms. Nathalie Chen

AM-80 Talya Gordon

Quality Control for Development of Antigen Specific B cell Analysis via Flow Cytometry for HIV Clinical Trials

University of Maryland, College Park (Maryland)

Preceptors: Dr. Adrian McDermott, Dr. David Leggat, Dr. Sandeep Narpala

AM-81 Edlawit Gorfu

Evaluation of bDEF1 Regulation in Intestinal Epithelial Cells of SIV-Infected Macaques

Montgomery Blair High School (Maryland)

Preceptors: Mr. Jacob Flynn, Dr. Jason Brenchley, Dr. Alexandra Ortiz

AM-82 Bezawit Hailu

The Role of GPR35 Nonsense Mutation in Susceptibility of Previously-healthy People to Cryptococcal Meningoencephalitis

Montgomery College (Maryland)

Preceptors: Dr. Jessica Hargarten, Dr. Peter Williamson

AM-83 Mohamed Hamideh

Analyzing the Role of Antigen Affinity in Differentiation of Memory B Cell to Plasma Cell

East Los Angeles College (California)

Preceptors: Dr. Abhijit Ambegaonkar, Dr. Susan Pierce

AM-84 Olivia Isabella Hansen

Interleukin-7 Potently Induces the Release of Anti-HIV Chemokines in Human Peripheral Blood Mononuclear Cells

Georgetown University (District of Columbia)

Preceptors: Dr. Paolo Lusso, Dr. Hana Schmeisser

AM-85 Dorottya Harangi

The Function of CD151 in Response to Cryptococcus Infection

University of Toronto (Non-U.S.)

Preceptor: Dr. Nannan Zhang

AM-86 Christian Hernandez

Identification and Characterization of Retnla+ Colon Macrophages/Dendritic Cells

Princeton University (New Jersey)

Preceptors: Dr. Brian Kelsall, Dr. Philip Murphy, Dr. Byunghyun Kang

AM-87 Tran Hoang

Exploring the Mechanisms of Intracellular Gram-negative Bacteria Recognition

Pacific Lutheran University (Washington)

Preceptors: Dr. Orna Rabinovich Ernst, Dr. Iain Fraser, Dr. Sharat Jacob Vayttaden

AM-88 Dylan Kim

Characterizing Ccr1L1, an Orphan Mouse Chemokine Receptor

Princeton University (New Jersey)

Preceptors: Dr. Philip Murphy, Ms. Jaclyn Kline

AM-89 Judah Levy

Immunoglobulin Allele Detection in Underresearched Populations

University of Maryland, College Park (Maryland)

Preceptor: Dr. Daniel Douek

AM-90 Jonathan Li

SeqSorter: A Desktop Application to Summarize Barcode Sequences of NGS Data

Thomas S. Wootton High School (Maryland)

Preceptors: Mr. Da Wei Huang, Ms. Esther Asaki

AM-91 Xinwei Li

Structural Characterization of Norovirus VLPs and Interaction with Neutralizing Antibodies

Georgetown University (District of Columbia)

Preceptor: Dr. Raffaello Verardi

AM-92 Ben Liu

Synthesis of Pfs230-DT as a Malarial Transmission Blocking Vaccine

University of Virginia (Virginia)

Preceptors: Mrs. Beth Chen, Dr. Puthupparampil Scaria, Dr. Patrick Duffy

AM-93 Ayelet Makovoz

The Role of Trabecular Bone Scores and Bone Turnover Markers in the Assessment of Fracture Risk in Patients with Systemic Mastocytosis

Charter Oak State College (Connecticut)
Preceptor: Dr. Hirsch Komarow

AM-94 Maxwell Marshall

Evaluation of DNA Damage Response in Hepatitis Delta Transfected Cells
Denison University (Ohio)
Preceptors: Dr. Anna Pomerence, Dr. Patrizia Farci

AM-95 Lindsay Martin

Fitness of D7 Salivary Knockout Aedes aegypti Mosquitoes
University of Central Florida (Florida)
Preceptors: Dr. Ines Martin-Martin, Dr. Eric Calvo

AM-96 Teagan McCarthy

Comparative Genomic Analysis of 149 M. tuberculosis Isolates: A Look beyond SNPs into Large Sequence Polymorphisms
Saint Joseph's University (Pennsylvania)
Preceptors: Dr. Mariam Quinones, Dr. Marybeth Daucher

AM-97 Dhalia Metenou

Immune Modulation by Brugia malayi Microfilaria-derived Extracellular Vesicles
George Mason University (Virginia)
Preceptors: Dr. Alessandra Ricciardi, Dr. Thomas Nutman

AM-98 Matthew Moser

Systemic Regulation of Growth Factor Proteins in Human Filarial Infection
University of California, Santa Cruz (California)
Preceptors: Dr. Thomas Nutman, Dr. Pedro Gazzinelli-Guimaraes

AM-99 Neelesh Mupparapu

Studying Clag3 Trafficking in P. falciparum
University of Maryland, College Park (Maryland)
Preceptors: Dr. Sanjay Desai, Dr. Jinfeng Shao

AM-100 Lydia Narum

Growth Characteristics of African Thicket Rats from Birth to Day 28
Salisbury University (Maryland)
Preceptors: Ms. Lynn Lambert, Dr. Patrick Duffy

AM-101 Emmanuela Otunuga

Characterizing the Metabolic Output of T Cells Using Seahorse Flux Analyzer
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Billur Akkaya

AM-102 Rachel Pang

Lineage-Based Design of Influenza Immunogens for Elicitation of the HV6-1 Class of Broadly Neutralizing Antibodies

Northwest High School (Maryland)

Preceptors: Dr. Crystal Cheung, Dr. Tongqing Zhou, Dr. Peter Kwong

AM-103 Nashae Prout

Contrasting Roles for Type 1 Interferon Signaling in Two Models of Intracellular Bacterial Infection

Morgan State University (Maryland)

Preceptors: Dr. Michael Dorrington, Dr. Sinu John, Dr. Iain Fraser

AM-104 Rachel Prucnal

Detection of Products of Excipient Degradation in Vaccine Formulation Buffers

University of Maryland, College Park (Maryland)

Preceptors: Mr. Aakash Patel, Dr. William Shadrick, Dr. Jonathan Cooper

AM-105 Ujwal Punyamurtula

Shotgun Proteomics of Germ-free and Conventionalized Mice on Western and Normal Diets

Brown University (Rhode Island)

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

AM-106 Easha Qasba

The Impact of Dietary Iron Restriction on Hepatic Hcpidin Expression in Sickle Cell Mice

College of William and Mary (Virginia)

Preceptors: Dr. Hans Ackerman, Dr. Steven Brooks, Mr. Majed Almashjary, Dr. Xianke Zeng

AM-107 Erin Reilly

Determining Potency of Therapeutic Monoclonal Antibody Charge Isoforms

University of Maryland, College Park (Maryland)

Preceptors: Mr. Aakash Patel, Dr. William Shadrick, Dr. Jonathan Cooper

AM-108 Kyle Searles

Establishing a Diffusion Gradient in a Micro-chamber to Study Chemotaxis

University of Texas at Dallas (Texas)

Preceptors: Dr. Javier Manzella-Lapeira, Dr. Joseph Brzostowski, Dr. Nicole Morgan, Dr. Robert Lutz

AM-109 Janis Shin

HIV Fusion Peptide Immunogen Design Using Virus-like Particles

University of Washington (Washington)

Preceptors: Dr. Rui Kong, Dr. John Mascola

AM-110 Niharika Shukla

Cross-reactivity of a PvDBP-specific Monoclonal Antibody with a P. falciparum Placental-Malaria Antigen

Vassar College (New York)

Preceptors: Dr. Rui Ma, Ms. Nichole Salinas, Dr. Niraj Tolia

AM-111 Deven Singh

Ocular Findings of Cryptococcal Meningitis in Previously Healthy Patients

Rutgers University (New Jersey)

Preceptors: Dr. Seher Anjum, Dr. Chinwenwa Okeagu, Ms. Terri Scott, Dr. Peter Williamson

AM-112 Julia Smolen

Confirming the Platform Purification Process of HIV-1 Trimeric Envelope Protein Vaccine Candidates: Stage 1 Design Space Parameter Exploration

University of Maryland, College Park (Maryland)

Preceptors: Ms. Nicole Cibelli, Dr. Krishana Gulla, Dr. Daniel Gowetski

AM-113 Zachary Stotz

Structural Engineering of KRAS G12V-Specific T-cell Receptors

University of California, Los Angeles (California)

Preceptors: Dr. Malcolm Sim, Dr. Peter Sun

AM-114 Julia Szepieniec

Expression of Full Length VAR2CSA in an Episomal System

Upper Iowa University (Iowa)

Preceptors: Dr. Jonathan Renn, Dr. Patrick Duffy

AM-115 Jessica Tiako

Autoantibody Screening in Neurocysticercosis Patients

Prince George's Community College (Maryland)

Preceptors: Dr. Elise O'Connell, Dr. Thomas Nutman, Mr. Joshua Scieurba

AM-116 Christina Toumanios

Producing SHIV Virus-like Particles to Study Antibody-Virion Immune Complexes in Non-human Primates

Colgate University (New York)

Preceptors: Dr. Mark Connors, Dr. Daniel Rogan

AM-117 Trisha Tucholski

NativePAGE-MS Mediated Characterization of the ASK Signalosome in LPS-stimulated Macrophages

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Casey Daniels, Dr. Aleksandra Nita-Lazar

AM-118 John Vaile

Computationally Designed Nanoparticle Displaying Influenza HA Elicits Broad Heterosubtypic Immunity to Influenza Virus

University of Delaware (Delaware)

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

AM-119 Sara Verschleisser

Contribution of Engineered Disulfide Bonds to MHC-I Molecule Stability

Yeshiva University Stern College for Women (New York)

Preceptors: Ms. Boyd Lisa, Dr. Kannan Natarajan, Dr. Jiansheng Jiang, Dr. David Margulies

AM-120 Anne Werner

Immunogenicity of MERS S2 Protein in Mice

Cornell University College of Agriculture and Life Science (New York)

Preceptors: Dr. Kizzmekia Corbett, Dr. Barney Graham

AM-121 Christina Yap

Influenza Hemagglutinin-stem Displayed on Self-assembling Nanoparticles Induces Heterosubtypic Immune Response

University of California, Davis (California)

Preceptors: Dr. Barney Graham, Dr. Syed Moin

AM-122 Jessie Yung

Characterization of FP-Bacteriophage VLP Immunogens

Richard Montgomery High School (Maryland)

Preceptors: Dr. Yongping Yang, Dr. Peter Kwong

AM-123 Sarah Zalar

Seroprevalence of Emerging GII.17 Norovirus Strains

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Kim Green, Dr. Stanislav Sosnovtsev, Ms. Jessica Van Loben Sels

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

AM-124 Rutha Adhanom

Long Term Follow-up and Outcomes of Subjects with IgE and IgG Autoantibodies in Systemic Lupus Erythematosus

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sarfaraz Hasni, Dr. Sarthak Gupta, Mr. Zerai Manna, Dr. Mariana Kaplan

AM-125 Hugh Alessi

High-throughput Screening in Primary Immune Cells

Colorado College (Colorado)

Preceptors: Dr. Luis Franco, Dr. Jing Sun, Ms. Manasi Gadkari

AM-126 Ashley Bushey

Differential B Cell Activation and Interferon Responses in Systemic Lupus Erythematosus

Temple University (Pennsylvania)

Preceptors: Dr. Mariana Kaplan, Mr. Xinghao Wang

AM-127 Marlee Dinterman

Genome Editing Experiments to Investigate the Functional Interactions between Transcription Factors

West Virginia University (West Virginia)

Preceptors: Dr. Andrea Conte, Dr. Supriya Vartak, Dr. Rafael Casellas

AM-128 Rajee Ganesan

Novel Serum-based Proteomic Analysis in Juvenile Dermatomyositis (JDM)

University of California, San Diego (California)

Preceptors: Dr. Hanna Kim, Dr. Lisa Rider

AM-129 Uzma Hussain

Deciphering the Role of TGFbeta3 Variants in Scleroderma Pathogenesis

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Pravitt Gourh

AM-130 Amal Hutchinson

Matk Function in the Brain

Howard University (District of Columbia)

Preceptors: Dr. John O'Shea, Dr. Rachael Philips

AM-131 Christopher Jones

The Effect of MYD88 S209R on Cell Death.

University of Illinois Urbana-Champaign (Illinois)

Preceptors: Dr. Keith Sikora, Ms. Sufia Bakshi

AM-132 Tyler Kellenberger

Understanding the Anticancer Mechanism of Disulfiram, Copper, and Etoposide in Merkel Cell Carcinoma

University of Florida (Florida)

Preceptors: Dr. Isaac Brownell, Dr. Natasha Hill

AM-133 Viridiana Murillo

Predicting the Immune Cell Types Encoded in a Genome by Searching for Orthologs of Known Cell Type Markers

Keck Graduate Institute (California)

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

AM-134 Manolya Osman

Using Three-Dimensional (3D) Imaging as a Quantitative Analysis of Cutaneous Neurofibromas for Future Clinical Trials

University of Maryland, College Park (Maryland)

Preceptors: Dr. Dominique Pichard, Dr. Edward Cowen

AM-135 Lowrey Peyton

Single Cell Analysis of Adult Mouse Skeletal Muscle Stem Cells in Homeostatic and Regenerative Conditions

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Vittorio Sartorelli, Dr. Hong-Wei Sun, Dr. Kyung Dae Ko, Dr. Stephen Brooks

AM-136 Leah Schachter

Tagging Mitochondrial RNA Binding Proteins to Study Post-transcriptional Gene Regulation

Touro College (New York)

Preceptors: Dr. James Marks, Dr. Markus Hafner

AM-137 Anne Schauer

Optimization of an Assay to Assess Phosphorylation of STAT4 in Human Peripheral Blood Mononuclear Cells

Montgomery College (Maryland)

Preceptors: Ms. Christine Liu, Dr. Massimo Gadina, Dr. Laura Vian

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

AM-138 Kathleen Burkhard

Optimization and Analysis of Recovered Cells from 3D Cancer Cultures with Micropillar Oxygen Delivery

Rensselaer Polytechnic Institute (New York)

Preceptors: Dr. Nicole Morgan, Dr. Michael Gottesman

AM-139 Britney Forsyth

Motion and Eddy Current Correction of Diffusion MRI Data with Python

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Okan Irfanoglu, Ms. Anh Thai, Dr. Carlo Pierpaoli

AM-140 Ishan Kalburge

Using Atomic Force Microscopy to Study Collagen Assembly toward Extracellular Matrix
Wilbert Tucker Woodson High School (Virginia)
Preceptors: Dr. Albert Jin, Dr. Andrew Doyle

AM-141 William Pace

Development of an Intraarticular Fracture Model for Studying the Progression of Post-traumatic Osteoarthritis in a Rat
Vanderbilt University (Tennessee)
Preceptors: Dr. Stephen Goldman, Dr. Christopher Dearth

AM-142 Kristofor Pas

Challenges in Establishing Pathological-Radiological Correlations in the Traumatically Injured Brain
University of Texas at Arlington (Texas)
Preceptors: Dr. Peter Bassler, Dr. Dan Benjamini

AM-143 Melissa Requist

Trunk-Pelvis Coordination following Osseointegration in Service Members with Transfemoral Limb Loss
University of Arizona (Arizona)
Preceptor: Dr. Bradford Hendershot

AM-144 Abel Resson

Mesoporous Metal-Organic Frameworks Serve as Nanocarriers: Controlled Drug Release for Chemotherapy
Hayfield Secondary School (Virginia)
Preceptors: Dr. Yuan Liu, Dr. Xiaoyuan (Shawn) Chen

AM-145 Matthew Rosenblatt, Wally Niu

Motion Tracking Optimization for Augmented Reality Guidance to Assist Prostate Fresh Tissue Procurement
University of Pittsburgh (Pennsylvania), Johns Hopkins University (Maryland)
Preceptors: Dr. Raisa Freidlin, Dr. Peter Choyke, Dr. Baris Turkbey, Mr. Tom Pohida

AM-146 Catherine Sano

Chemical Synthesis of Folic Acid Isomers for Molecular Imaging Applications
Langley High School (Virginia)
Preceptor: Dr. Dale Kiesewetter

AM-147 Sophia Wu

Comparing the Properties of Microtubules Treated with Taxol and Peloruside Using BioAFM
Walter Johnson High School (Maryland)
Preceptors: Dr. Albert Jin, Dr. Dan Sackett

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

AM-148 Sarah Adams

Multi-center Optimization and Validation of Human Whole-room Calorimeters

University of Toledo (Ohio)

Preceptors: Dr. Kong Chen, Dr. Robert Brychta

AM-149 Cameron Allen

Genome Editing and Antibiotic Cell Pool Selection

College of Southern Maryland (Maryland)

Preceptors: Dr. Astrid Haase, Ms. Celine Marlin Andrews

AM-150 Ahimsa Aradhya

Evaluating Uric Acid Levels in Plasma and Urine as a Biomarker in Patients with Insulin Sensitivity

Johns Hopkins University (Maryland)

Preceptors: Dr. Ranganath Muniyappa, Dr. Mary Walter

AM-151 Trevor Atkeson

Transcriptional Repressor ETO2 Is Required for Globin Gene Regulation and Hemoglobin Switch during Development

University of Virginia (Virginia)

Preceptors: Dr. Ann Dean, Dr. Xiang Guo

AM-152 Alice Babin

Biomarker Characterization of Calcitonin and Carcinoembryonic Antigen Doubling Times as Prognostic Factors in MEN2B Patients Treated with Tyrosine Kinase Inhibitors

California Polytechnic State University, San Luis Obispo (California)

Preceptors: Dr. Joanna Klubo-Gwiezdzinska, Dr. Cristiane Gomes-Lima

AM-153 Seung-Ho Bae

Similarities in Dynamical Systems of Human Brain Resting States Inferred from Human Connectome Project MEG Data

Johns Hopkins University (Maryland)

Preceptor: Dr. Vipul Periwal

AM-154 Leilah Nicole Baumgarten

Sexual Dimorphism of Coronary Artery Disease in a Low- and Intermediate-risk Asymptomatic Population: Association with Coronary Vessel Wall Thickness at MRI in Women

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Ahmed M. Gharib, Dr. Jatin Raj Matta

AM-155 Gustavo Bruno

Functional Analysis of a CYB5A 5'-UTR Variant That Associates with Obesity in American Indians from Arizona

Dominican University (Illinois)

Preceptors: Dr. Samantha Day, Dr. Michael Traurig, Dr. Leslie Baier

AM-156 Viktoria Catalan

Beta-Arrestin-1 Plays a Key Role in the Maintenance of Pancreatic Beta Cells under Glucolipotoxic Conditions

Cornell University (New York)

Preceptors: Dr. Luiz Barella, Dr. Jurgen Wess

AM-157 Kavisha Chandrawarakkalage

The Role of OGT-1 Activity in C. elegans Male Fertility

University of Maryland, College Park (Maryland)

Preceptors: Mr. Dan Konzman, Dr. John Hanover

AM-158 Rohit Chari

Developing a Mouse Model for Rhabdomyolysis/AKI Using Mouse Myoglobin

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jonathan Street, Dr. Peter Yuen, Dr. Robert Star

AM-159 Christine Chukwuocha

Identification of Cell Types Expressing Type 2 Deiodinase, a Thyroid Hormone Activating Enzyme, in Mouse Brain Utilizing Dio2-Cre Reporter Gene System

University of Minnesota Rochester (Minnesota)

Preceptors: Dr. Douglas Forrest, Dr. Lily ng, Dr. Ye Lui

AM-160 Andrew DePass

Translation of the 3' Untranslated Regions of mRNAs in RNase L Mediated Viral Response

Quinnipiac University (Connecticut)

Preceptors: Dr. Agnes Karasik, Dr. Nicholas Guydosh

AM-161 Jessica Diarra

The Role of a Ceramide-sensitive Phosphatase in Regulating Ceramide Homeostasis in Yeast

University of Toronto (Non-U.S.)

Preceptors: Dr. William Prinz, Dr. Alexandre Toulmay

AM-162 Chiamaka Ekwunazu

Metabolic Regulation by Estrogen and Brain Erythropoietin during Diet-induced Obesity in Mice

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Soumyadeep Dey, Dr. Connie Noguchi

AM-163 Rob Esterquest

Differentiating MEN1 Phenotypes: Gene-negative vs. Gene-positive

Rush University Medical School (Illinois)
Preceptors: Dr. Jenny Blau, Mr. James Welch

AM-164 Trevor Fachko

Towards Structural Elucidations of PKR-activating UTRs from Human IFN γ and TNF α Genes

University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Charles Bou-Nader, Dr. Jinwei Zhang

AM-165 Syeda Fatima

The Effect of Different Oxygen Tensions on Oxidative Stress and Lipid Accumulation in HepG2 Cells

Northern Virginia Community College (Virginia)
Preceptors: Dr. Maren Podszun, Dr. Yaron Rotman

AM-166 Ellen Freebern

Simulations to Inform the Design of an NIH Repository Study on the Association between Insulin Resistance and Lipoproteins in Diverse Hispanic Populations

University of Maryland, College Park (Maryland)
Preceptors: Dr. Sungyoung Auh, Dr. Kenneth Wilkins, Dr. Elizabeth Wright

AM-167 Jordan Galbraith

Changes in Energy Expenditure following Fish, Meat, and Soda Intake in a 12-week Inpatient Study

Vanderbilt University (Tennessee)
Preceptors: Dr. Susanne Votruba, Dr. Marci Gluck, Dr. Jonathan Krakoff

AM-168 Michael Gan

Mice with Melanocortin Receptor 4 (MC4R) Site Mutation F51L Develop Severe Obesity Independent of G α /cAMP Signaling

Richard Montgomery High School (Maryland)
Preceptors: Mr. Peter Metzger, Dr. Min Chen, Dr. Lee Weinstein

AM-169 Jessica Ghobrial

Crosstalk between Erythropoietin and Estrogen in 3t3L1 Cells

Duquesne University (Pennsylvania)
Preceptors: Dr. Jeeyoung Lee, Dr. Constance Noguchi

AM-170 Mayte Gonzalez

The Development of an LC-MS Method for Analysis of Stevia in Urine and Human Plasma

Schreiner University (Texas)
Preceptors: Dr. Peter J. Walter, Dr. Hongyi Cai

AM-171 Ruth Hailemeskel

Structural Characterization of the Essential Components of the TOM Complex Using Electron Microscopy

Mount Vernon High School (Virginia)

Preceptors: Ms. Ashley Pitt, Dr. Susan Buchanan

AM-172 Jonathan Harrison

Determining the Structure and Interactions of O-GlcNAc Transferase and O-GlcNAcase Isoforms in vitro

Catholic University of America (District of Columbia)

Preceptors: Dr. Agata Steenackers, Dr. Lara Abramowitz, Dr. John Hanover

AM-173 Clio Hockens

Validating an in vitro Polycystic Kidney Disease Model

Pasadena City College (California)

Preceptors: Dr. Gregory Germino, Dr. Luis Menezes, Dr. Takeshi Terabayashi

AM-174 Jennifer Hudson

Gastrointestinal Symptoms in Youth Taking Standard-release and Extended-release Metformin

Northern Arizona University (Arizona)

Preceptors: Dr. Stephanie Chung, Dr. Abby Meyers

AM-175 Hi'ilei Ishii-Chaves

Dyslipidemia in Type 2 Diabetes vs. Type 1 Diabetes in Youth

Chaminade University of Honolulu (Hawaii)

Preceptors: Dr. Stephanie Chung, Ms. Celeste Cravalho

AM-176 Kendra Jeans

Peptide Nucleic Acid Coated Gold Nanoparticles for Use in Nucleic Acid-based Microfluidic Diagnostics

Colgate University (New York)

Preceptors: Dr. Kaylyn Oshaben, Dr. Daniel Appella

AM-177 Dartanyon Jones

Identification of Genetic Variants Contributing to Nighttime Eating Behavior in American Indians

Howard University (District of Columbia)

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

AM-178 Suhail Kaleem

Regulation of Hepatic Differentiation of Human Pluripotent Stem Cells by Compounds Targeting Specific Cellular Pathways

Geisinger Commonwealth School of Medicine (Pennsylvania)

Preceptors: Dr. Seung Bum Park, Dr. Jake Liang

AM-179 Benjamin Kennard

TSH Receptor-mediated Inhibition of Cell Proliferation by Small Molecule Ligands in Preosteoblast-like U2OS Cells

Bill Gatton College of Pharmacy (Tennessee)

Preceptors: Dr. Alisa Boutin, Dr. Marvin Gershengorn, Dr. Susanne Neumann

AM-180 Osamah Khan

Transcriptional Regulation of Pituitary Genes by Thyroid Hormone Receptor Beta

Virginia Commonwealth University School of Medicine (Virginia)

Preceptors: Dr. Young-Wook Cho, Dr. Douglas Forrest

AM-181 Carol Kong

Nitrite and Nitric Oxide Generation in Bacteria from the Eye Microbiota

American University (District of Columbia)

Preceptor: Dr. Alan Schechter

AM-182 Anivarya Kumar

Prevalence of Non-alcoholic Fatty Liver Disease (NAFLD) in an Urban Pediatric Population

Vanderbilt University (Tennessee)

Preceptors: Dr. Madhumita Sinha, Dr. Shailesh Khetarpal, Dr. William Knowler

AM-183 Ankith Laichetty

Using Vancomycin Resistant Bacteria to Discover Antibiotics

University of Virginia (Virginia)

Preceptors: Dr. Carole Bewley, Dr. Hongbing Liu, Dr. Shannon Ohlemacher, Dr. Jiadong Sun

AM-184 Long Lam

Understanding Function(s) of Fes1 of Candida glabrata

Montgomery Blair High School (Maryland)

Preceptors: Dr. Shailesh Kumar, Dr. Daniel Masison

AM-185 Bowoo Lee

Generating Humanized HSD17B13 Mice Through Adeno-associated Viral Gene Transfer

University of California, Berkeley (California)

Preceptors: Dr. Yanling Ma, Dr. Yaron Rotman

AM-186 Matthew Martin

Opa1 Dimerizes through an N-Terminal Coiled-Coil Domain, Independent of the Nucleotide State

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andrew Kehr, Ms. Abby Stanton, Ms. Lieza Chan, Dr. Jenny Hinshaw

AM-187 Cai McCann

Dissecting the Mechanisms of Repeat Expansion and Chromosome Fragility in the Fragile X-Related Disorders

University of Vermont (Vermont)

Preceptors: Dr. Carson Miller, Dr. Bruce Hayward, Dr. Rachel Lokanga, Dr. Karen Usdin

AM-188 Esther Meisler

Endogenous Tagging of PIWI Using CRISPR / CAS Genome Editing

University of Maryland, College Park (Maryland)

Preceptors: Dr. Astrid Haase, Ms. Celine Marlin Andrews

AM-189 Val Meleshkevich

Understanding ER/NE Membrane Dynamics in the C. elegans 1-cell Embryo

College of William and Mary (Virginia)

Preceptors: Dr. Richa Maheshwari, Dr. Mohammad Rahman, Dr. Orna Cohen-Fix

AM-190 Nicholas Munyan

Development of a New LC-MS/MS Assay For Dehydroascorbic Acid in Human Plasma

University of Maryland, College Park (Maryland)

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

AM-191 Yashira Ortega-Sustache

Hypercoagulable Events Patients with MEN1: Data from NIDDK Database

School of Nursing at Medical Science Campus (Puerto Rico)

Preceptor: Dr. Jenny Blau

AM-192 Hannah Ortiz, David Wu

ISWI Chromatin Remodeling Complex Is Essential for Adipogenesis

Schreiner University (Texas), Walter Johnson High School (Maryland)

Preceptors: Mr. Nhien Tran, Dr. Younghoon Jang, Dr. Young-Kwon Park, Dr. Kai Ge

AM-193 Alexandra T. Patterson

Synthesis of Selective P2Y14 Receptor Antagonists

University of South Carolina (South Carolina)

Preceptors: Dr. Zhiwei Wen, Dr. Kenneth Jacobson

AM-194 Oscar Ramos

Developing Yeast as a Model System to Study Human Hsp90 Function

Arizona State University (Arizona)

Preceptors: Dr. Mike Reidy, Dr. Daniel Masison

AM-195 Ankita Sahoo

Role of Neuronal and Glial Adenosine 1 Receptor in Adenosine-induced Hypothermia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Oksana Gavrilova, Dr. Marc Reitman

AM-196 Srinath Seshadri

Modeling Human Timothy Syndrome in C. elegans using CRISPR-Cas9
Case Western Reserve University (Ohio)
Preceptors: Dr. Andy Golden, Ms. Rosie Bauer

AM-197 Tesia Shi

Meta-data Analysis for Inflammation and O-GlcNAcylation Pathways in Three Psychiatric Disorders (BP, MDD, SCH)
Richard Montgomery High School (Maryland)
Preceptors: Dr. Kenneth Jacobson, Dr. Weiping Chen, Dr. John Hanover

AM-198 Susie Song

Evaluation of a Wireless, Dry EEG System for Decoding Visual Stimuli
Cornell University (New York)
Preceptors: Dr. Carson Chow, Dr. Shashaank Vattikuti

AM-199 Xiangliang Sui

The Use of Cyclotriazadisulfonamides to Inhibit Endogenous TSHR Signaling in Human Primary Cells
Washington University in St. Louis (Missouri)
Preceptors: Dr. Christine Krieger, Dr. Susanne Neumann, Dr. Marvin Gershengorn

AM-200 Isaias Torres

Mouse piRNA Are Required for Response of Cellular Stress
California State University, San Marcos (California)
Preceptor: Dr. Heejin Choi

AM-201 Khalid Tunau-Spencer

Changes in Erythropoietic Receptor Expression in Differentiated Mouse Myoblasts
University Of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Constance Noguchi, Dr. Praveen Rajvanshi, Dr. Jee Young Lee

AM-202 Nevin Varghese

Effects of Severe Insulin Resistance on Inflammation and Fibrinolysis in Patients with Lipodystrophy and Insulin Receptoropathy
University of Maryland School of Medicine (Maryland)
Preceptors: Dr. Rebecca Brown, Dr. Marissa Lightbourne

AM-203 Vishwas Wadhwa

Utilization of the DNA Methyltransferase Inhibitor Decitabine to Improve Somatostatin Receptor Expression for Targeted Imaging of Thyroid Cancer
High Point High School (Maryland)
Preceptors: Dr. Shilpa Thakur, Dr. Joanna Klubo-Gwiezdzinska

AM-204 Rebecca Wang

Base Editing of Late-onset Tay-Sachs Disease Patient Fibroblasts to Correct a Pathogenic Point Mutation

Johns Hopkins University (Maryland)

Preceptors: Dr. Richard Proia, Dr. Laura Allende, Ms. Vienna Huso

AM-205 Quin Waterbury

FIGLA Is a Multifunctional Regulator of Ovarian Oocyte Differentiation and Folliculogenesis

Purdue University (Indiana)

Preceptors: Dr. Zhengpin Wang, Dr. Jurrien Dean

AM-206 Kyle Wilson

Generating a Sperm-specific PEZO-1 Degradation System in C. elegans

University of Maryland, College Park (Maryland)

Preceptors: Dr. Xiaofei Bai, Dr. Andy Golden

AM-207 Lindsey Wilson

Purification of Mdm34, a Member of the ER-Mitochondria Encounter Structure

Purdue University (Indiana)

Preceptors: Dr. Porsha Shaw, Dr. Susan Buchanan

AM-208 Donald Wunsch

Outcome of Hepatitis B e Antigen Negative Chronic Hepatitis B

Missouri University of Science and Technology (Missouri)

Preceptor: Dr. Marc Ghany

AM-209 Ashley Young

Inferring the Dynamics of the Resting Human Brain from Long Duration MEG Data

Cornell University (New York)

Preceptor: Dr. Vipul Periwal

National Institute of Neurological Disorders and Stroke (NINDS)

AM-210 Sarangelica Alamo-Ortiz

Comparison of Brain Volume and Its Clinical Correlates in HIV and Matched-control Subjects

University of Puerto Rico at Humacao (Puerto Rico)

Preceptors: Ms. Elizabeth Horne, Dr. Govind Bhagavatheeshwaran

AM-211 Rebeca Amaya Escobar

Unilateral Whisker Loss-induced Plasticity in the Non-deprived Mouse Somatosensory Cortex

University of Maryland, College Park (Maryland)

Preceptors: Dr. Alan Koretsky, Dr. Patrick Wright

AM-212 Philip Ameny-Awude

Resting State fMRI Studies in Parkinson's Disease

Northern Virginia Community College (Virginia)

Preceptor: Dr. Silvina Horovitz

AM-213 Greeshma Anand

Optogenetic Manipulation of Astrocytes in Mouse Respiratory Rhythm-generating Circuits

University of Maryland, College Park (Maryland)

Preceptors: Dr. Shahriar SheikhBahaei, Dr. Jeffrey Smith

AM-214 Nivetha Aravind

The Effects of Corticotropin-releasing Hormone Stimulation on Regional Brain Activity

Emory College of Arts and Science, Emory University (Georgia)

Preceptors: Dr. Prashant Chittiboina, Dr. Elizabeth Hogan, Dr. Konstantinos Floros

AM-215 Oluwatobi Ariyo

Programmed Death-ligand 2 Expression in Glioblastoma

Harvard College (Massachusetts)

Preceptors: Dr. Edjah Nduom, Mr. Anthony Nwankwo

AM-216 Jamal Bailey

Intrathecal Administration of Resiniferatoxin for Treating Intractable Cancer-Related Severe Chronic Pain

Bowie State University (Maryland)

Preceptors: Dr. John Heiss, Ms. Jessica Mack, Ms. Andrea Bowling

AM-217 Aracely Barajas

Genetically Modified Mice to Study Gonadotropin Releasing Hormone (GnRH) Neural Migration

Fort Lewis College (Colorado)

Preceptors: Dr. Susan Wray, Dr. Yufei Shan

AM-218 Shaia Bierman-Chow

Investigating Astrocyte Response Post Spinal Cord Injury

Smith College (Massachusetts)

Preceptors: Ms. Kaya Matson, Dr. Ariel Levine

AM-219 Nicolette Brown, Khayla Black

Characterization of Hippocampal Parvalbumin Interneurons during Disease Progression in the 5xFAD Mouse Model of Alzheimer's Disease

Montana State University (Montana), New York University Shanghai (Non-U.S.)

Preceptors: Dr. Chris McBain, Ms. Connie Mackenzie-Gray Scott

AM-220 Joshua Cade

Genotype-Phenotype Correlations in Parkinson's Disease: Retrospective Analysis of the NIH-PD Cohort

University of North Carolina at Pembroke (North Carolina)

Preceptor: Dr. Derek Narendra

AM-221 Hannah Calvelli

Comparison of Mito-QC and Mito-Keima Reporters for the Measurement of PINK1/Parkin-dependent and independent Mitophagy

Rutgers University (New Jersey)

Preceptors: Dr. Derek Narendra, Dr. Xiaoping Huang

AM-222 Ethan Cheng

Lipid Trafficking in Drosophila Central Nervous System Mediated by Neuron-Glia Interactions

University of Maryland, College Park (Maryland)

Preceptors: Dr. Quan Yuan, Dr. Jun Yin

AM-223 Yong-Han Cheng

Detection of Misfolded TDP-43 by an Intrabody in an in vitro Model of Amyotrophic Lateral Sclerosis

University of Washington (Washington)

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

AM-224 Magnolia Chinn

Mapping Somatostatin- and Parvalbumin-positive Interneuron Populations in Mouse Models of Genetic Predisposition to Schizophrenia

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. David Kupferschmidt, Dr. Joshua Gordon

AM-225 Rahin Chowdhury

Cloning and Expression of A. californica Slo1 Channel in Xenopus laevis

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Miguel Holmgren, Mrs. Deepa Srikumar, Dr. Pablo Miranda

AM-226 Emilio Chufan-Bordon

Fluorescence Analysis of TIRF Images to Differentiate Membrane and ER Expression of Sodium Channels

University of Michigan (Michigan)

Preceptors: Dr. Miguel Holmgren, Dr. Pablo Miranda, Dr. Teresa Giraldez

AM-227 Annaliese Clauze

Significance of Reactivation of HHV-6: Analysis of Normal and Chromosomally Integrated HHV-6 Donors

Colgate University (New York)

Preceptors: Dr. Steven Jacobson, Ms. Mary Alice Allnutt

AM-228 Caleb Colbert

Statins as Neuroprotective Agents

University of Maryland, College Park (Maryland)

Preceptors: Dr. Joseph Steiner, Muzna Bachani

AM-229 Devon DiSanza

Generation and Validation of a Novel Mouse Model of Intellectual Disability

University of Virginia (Virginia)

Preceptors: Mr. Jeramiah Paskus, Dr. Kai Chang, Dr. Katherine Roche

AM-230 Cole Dittenthaler

Exploring the Effects of DREADD-Mediated Modulations of Activity in the Parafascicular Thalamic Nucleus on Motor Symptoms in Hemiparkinsonian Rats

Yakima Valley College (Washington)

Preceptors: Dr. Elena Brazhnik, Dr. Nikolay Novikov, Dr. Alex MCooy

AM-231 Jade Dodge

Protein Arginine Methyltransferase 5 Inhibition Enhances the Antitumor Efficacy of Trametinib in Glioblastoma Neurospheres

Morgan State University (Maryland)

Preceptors: Ms. Hannah Sur, Dr. Yeshavanth Banasavadi-Siddegowda

AM-232 Yiling Dong

The Role of Genetic, Epigenetic, and Environmental Factors in Functional Movement Disorders

Indiana University (Indiana)

Preceptors: Dr. Primavera Spagnolo, Dr. Mark Hallett

AM-233 Tsemacha Dubuche

Measure of Spinal Cord Atrophy in Chronic Progressive Neurological Diseases

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Steven Jacobson, Dr. Govind Bhagavatheeshwaran

AM-234 Anneke Duin

Investigating How Closed-loop Optogenetic Stimulation Affects the Activity of Ventral Hippocampus and Prefrontal Cortex during a Working Memory Task

University of Minnesota (Minnesota)

Preceptors: Dr. Joshua Gordon, Dr. David Kupferschmidt, Dr. Maxym Myroshnychenko

AM-235 Zekiel Factor

Modulating Connectivity of the Attentional Network: A Comparison across Modalities

State University of New York at Binghamton (New York)

Preceptors: Dr. Selene Schintu, Dr. Michael Freedberg, Dr. Eric Wassermann

AM-236 Saul Flores

Modulating HERV-K Expression Increases Susceptibility to Chemotherapeutic Drugs in AT/RT Cells

University of Maryland, College Park (Maryland)

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

AM-237 Benjamin Gastfriend

Incorporation of Microglia into iPSC-derived Brain Organoids

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. David Wang, Ms. Valerie McDonald, Dr. Avindra Nath

AM-238 Katrina Geannopoulos

Retinal Ganglion Cell Layer Thinning in Well-controlled HIV-infected Subjects

University of Illinois College of Medicine (Illinois)

Preceptor: Dr. Bryan Smith

AM-239 Radhika Gholap

Investigating the Efficiency of Vivo-Morpholinos in Correcting a Pseudoexon Splice Mutation in Cell and Animal Models for Collagen-VI Muscular Dystrophy

University of Maryland, College Park (Maryland)

Preceptors: Dr. Veronique Bolduc, Dr. Carsten Bonnemann, Dr. Carston Bonnemann

AM-240 Fatima Gomez

Quality of Life Assessment in Patients with Drug Resistant Focal Epilepsy

University of Washington (Washington)

Preceptors: Dr. Sara Inati, Ms. Aaliyah Hamidullah Thiam, Dr. Aaliyah Hamidullah Thiam, - Sara Inati

AM-241 Lydia Guo

MicroRNA Expression in Remyelinated and Demyelinated Multiple Sclerosis Lesions

Wellesley College (Massachusetts)

Preceptors: Dr. Hadar Kolb, Dr. Daniel Reich

AM-242 Randall Hughes

Generation of Spontaneous EBV Transformed B Lymphoblastoid Cell Lines from Normal Donors and Patients With Multiple Sclerosis

Fort Lewis College (Colorado)

Preceptors: Dr. Maria Chiara Monaco-Kushner, Dr. Steve Jacobson

AM-243 Ryan Hunt

MRI Single Cell Tracking Allows for Visualization of Monocyte Entry to Brain during Neuroinflammation

Michigan State University (Michigan)

Preceptors: Dr. Alan Koretsky, Dr. Dorian McGavern, Dr. Li Liu, Dr. Stephen Dodd

AM-244 Laura Inbody

Characterization of Novel Negative Allosteric Modulators of the D3 Dopamine Receptor
University of Findlay (Ohio)

Preceptors: Dr. Amy Moritz, Dr. David Sibley

AM-245 Yasaswini Iyer

Tumor Reprogramming in Pituitary Adenomas Demonstrated by Multiplex Immunohistochemistry Stains

Case Western Reserve University (Ohio)

Preceptors: Dr. Prashant Chittiboyna, Dr. Elizabeth Hogan, Dr. Konstantinos Floros

AM-246 Sarah Izabel

Mapping the Olfactory Bulb New Neurons at the Single-cell Level Using Iron Oxide Assisted MRI
Virginia Commonwealth University (Virginia)

Preceptors: Dr. Nikorn Pothayee, Dr. Alan Koretsky

AM-247 Neekita Jikaria

Characterization of Acute Ischemic Injury in Patients Following Head Trauma
Pennsylvania State University College of Medicine (Pennsylvania)

Preceptors: Dr. Lawrence Latour, Dr. L. Christine Turtzo

AM-248 Alexis Johnson

Role of the Glia Limitans in Partitioning Myeloid Cell Responses following Repeat Traumatic Brain Injury

University of Wisconsin-Madison (Wisconsin)

Preceptors: Ms. Hannah Mason, Dr. Dorian McGavern

AM-249 Ishar Alexander Kalsi

Exploring Morphological Brain Changes in Parkinson's Disease: An MRI Structural Study
GKT School of Medical Education, King's College London (Non-U.S.)

Preceptors: Dr. Debra Ehrlich, Dr. Silvina Horovitz, Dr. Mark Hallett

AM-250 Mahish Kewalramani

The Role of de novo Mutations of Shank3/Trio in Neurodevelopmental Disorders
Duke University (North Carolina)

Preceptors: Mr. Jaehoon Jeong, Dr. Katherine Roche

AM-251 Asha Krishnakumar

Thyroid Hormone T3 Treatment Alters the Spectral Responses of Larval Zebrafish Eyes
University of Virginia (Virginia)

Preceptor: Dr. Ralph Nelson

AM-252 Samantha Lazo-Contreras

The Expression of Pou6f2 in Developing Mouse

Trinity Washington University (District of Columbia)

Preceptors: Dr. Susan Wray, Dr. hyunju cho

AM-253 Alexander Lehr

Characterization of a Mouse Model for Neuroligin Deficit at Excitatory Synapses

Ursinus College (Pennsylvania)

Preceptors: Mr. Thien Nguyen, Dr. Katherine Roche

AM-254 Tianming Li, Madison Stevens

Characterization of TMEM132B in Cultured Hippocampal Neurons

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

Preceptors: Mr. David Castellano, Dr. Wei Lu

AM-255 Delores Luttrell

Mechanism of TDP-43 Mediated Upregulation of HERV-k Expression

Northern Virginia Community College (Virginia)

Preceptor: Dr. Lisa Henderson

AM-256 Anthony Maddox

An Interactive Screening Test for the Assessment of Possible Cognitive Impairments - Version 2.0 with Additional Assessments and Enhancements

Drexel University (Pennsylvania)

Preceptors: Dr. Yang Fann, Mr. Amarendra Yavatkar

AM-257 Miles Martinez

Atlas-free Brain Segmentation by Classification using DERivative-based Features (CDEF) in Progressive Multifocal Leukoencephalopathy (PML)

Brown University (Rhode Island)

Preceptors: Dr. Govind Bhagavatheeshwaran, Dr. Daniel Reich

AM-258 Matthew Mitchell

Engineering Split Peroxidase-tagged Nanobodies to Find Novel Neuron-Microglia Interactions

Midwestern State University (Texas)

Preceptors: Ms. Saadia Hasan, Dr. Michael Ward

AM-259 Matthew Nelson

Automated CRISPRi Screens in iPSC-derived Neurons

University of Michigan (Michigan)

Preceptor: Dr. Michael Ward

AM-260 Aaron Park

Characterizing Postsynaptic Density Protein 95 via Molecular Biology and Recombinant Protein Techniques

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Xiaobing Chen, Mr. Raymond Fields, Mrs. Christine Winters

AM-261 Thomas Policicchio

DTI Tractographic Correlates of Weight Gain after Deep Brain Stimulation Surgery in Parkinson's Disease Patients

Gonzaga College High School (District of Columbia)

Preceptors: Ms. Esther Yoon, Dr. Debra Ehrlich, Dr. Silvina Horovitz

AM-262 Angela Quintero

Modulations of Characteristics of Essential Tremor Components with Different Hand Posture.

University of Puerto Rico at Bayamon (Puerto Rico)

Preceptors: Mr. Thomas Ostherholt III, Dr. Patrick McGurrin, Dr. Felipe Agustin Vial Undurraga

AM-263 Jenna Richter

Investigating Disrupted mRNA Processing in Patients with Spinal Muscular Atrophy with Respiratory Distress Type 1 (SMARD1)

St. Olaf College (Minnesota)

Preceptors: Dr. Christopher Grunseich, Dr. Kenneth Fischbeck

AM-264 Evan Rubinovitz

M-BRAIN: Marmoset Brain Research and Imaging Network

Stony Brook University (New York)

Preceptors: Mr. Amarendra Yavatkar, Dr. Yang Fann

AM-265 Ntumba Sangwa

Structural Model of Human Glycine-selective Transporter GlyT1

Gonzaga College HS (District of Columbia)

Preceptors: Dr. Lucy Forrest, Dr. Vanessa Leone

AM-266 Vibha Sastri

Characterization of Inhibitory Synapses through Immunocytochemistry

Rice University (Texas)

Preceptors: Dr. Wei Lu, Dr. Saurabh Pandey

AM-267 Yojan Shah

Evaluation of Eligibility Criteria in Treated Patients with Large Vessel Occlusion: A Closer Look at Core

Bucknell University (Pennsylvania)

Preceptors: Dr. Marie Luby, Dr. Larry Latour

AM-268 Jeremy Shapiro

Network Properties and Stability of Local Cortical Connectivity

Washington University in St. Louis (Missouri)

Preceptors: Dr. Julio Chapeton, Dr. Kareem Zaghloul

AM-269 Sarah Shapley

Role of Epstein-Barr Virus (EBV) in Multiple Sclerosis (MS): T-cell Responses to EBV Peptides in MS Patients and Controls

Baldwin Wallace University (Ohio)

Preceptors: Dr. Steven Jacobson, Dr. Maria Monaco, Ms. Melanie Delgado

AM-270 Hana Shin

Gender Differences in Stroke Outcomes

University of Michigan (Michigan)

Preceptors: Mrs. Mimi Hayward, Dr. Leonardo Cohen

AM-271 Xianni Simmons

The Localization of SynGAP in the Postsynaptic Density

Baylor University (Texas)

Preceptors: Dr. Xiaobing Chen, Mrs. Christine Winters, Mrs. Sandra Lara, Mrs. Virginia Crocker

AM-272 Kirklin Smith

Relationship between Electrode Location and Neuropsychological Outcome of Deep Brain Stimulation in Parkinson's Disease

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

Preceptors: Dr. Panagiotis Kassavetis, Dr. Sanaz Attaripour Isfahani, Dr. Mark Hallett

AM-273 Eva Stanley

CRISPR Mediated Endogenous Tagging of a Novel Cellular Adhesion Molecule

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Quan Yuan, Mr. Jacob Short

AM-274 Victoria Stepanyants

Characterizing the Development-dependent Local Synthesis of Axonal Mitochondrial Docking Protein Syntaphilin

Johns Hopkins University (Maryland)

Preceptors: Dr. Sunan Li, Dr. Ning Huang, Dr. Zu-Hang Sheng

AM-275 Mitchell Sun

Novel Compound Provides Insight into HIF2 α Hypoxia Signaling Pathway

University of Illinois at Chicago (Illinois)

Preceptors: Dr. John Heiss, Dr. Zhengping Zhuang

AM-276 Kaylee Tsingine

Developing Resources for Native American Participants in NIH Intramural Clinical Research Studies

Northern Arizona University (Arizona)

Preceptors: Dr. Barbara Karp, Mrs. Deionna Vigil

AM-277 Alice Turnham

Computational Modelling of Realistic Dopaminergic Axon

Montgomery Blair High School (Maryland)

Preceptors: Dr. Paul Kramer, Dr. Zayd Kha

AM-278 Anjali Vyas

Flavonoids: A Natural and Novel Approach to Provide Neuroprotection against HIV-TAT

University of Maryland, College Park (Maryland)

Preceptors: Dr. Muzna Bachani, Dr. Joseph Steiner

AM-279 Andrew Wodrich

Analysis of Mitochondria Integrity in a D. melanogaster Model of Neurodegeneration

Georgetown University (District of Columbia)

Preceptors: Dr. Edward Giniger, Dr. Arvind Shukla

AM-280 Pauline Wonnemberg

Pharmacology and Structure-Activity Relationships for D1 Dopamine Receptor Positive Allosteric Modulators.

American University (District of Columbia)

Preceptors: Dr. Kathryn Luderman, Dr. David Sibley

National Library of Medicine (NLM)

AM-281 Jordan Connors

Evolutionary Analysis of the Co-factor Binding Site in Double N-Acetyl Transferases: Did tRNA or CoA Binding Come First?

University of North Carolina at Charlotte (North Carolina)

Preceptors: Dr. Gurmeet Kaur, Dr. Aravind Iyer

AM-282 Caroline Cunningham

Documenting Scientific Software: Mutagene Package for Mutational Analysis

Washington-Liberty High School (Virginia)

Preceptors: Dr. Alexander Goncarencu, Dr. Anna Panchenko

AM-283 Hrishikesh Das

Machine Learning Using RBM to Compare Rest and Task Brain Networks in Functional Neuroimaging

Texas Tech University (Texas)

Preceptors: Dr. Rodney Long, Mr. Harshit Parmar, Dr. Sunanda Mitra

AM-284 YU Deng

Cardiovascular Disease Prediction Using Repeated Measurements

Northwestern University (Illinois)

Preceptors: Mr. lihui zhao, Mr. zhiyong lu, Mr. yifan Peng, Mr. yishu wei

AM-285 Peter Feeeny

Automatic Medical Question Generation

University of Maryland, College Park (Maryland)

Preceptors: Dr. Asma Ben Abacha, Dr. Dina Demner-Fushman

AM-286 George Gruenhagen

Detecting Cancer Driver Mutations by Signs of Position Selection

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Jaime Iranzo, Dr. Eugene Koonin

AM-287 Christopher Hill

Computational Analysis of GWAS SNPs

University of Michigan (Michigan)

Preceptors: Dr. Ivan Ovcharenko, Dr. Sanjarbek Hudaiberdiev

AM-288 Sophia Hu

Improving Computational Analysis of Viral Sequences Utilizing Multiple Sequence Alignments

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Eric Nawrocki

AM-289 Amanda Liu

Comparison and Validation of Drug Sensitivity and Resistance via Network Approach

Montgomery Blair High School (Maryland)

Preceptors: Dr. Yoo-Ah Kim, Dr. Teresa Przytycka

AM-290 Usha Lokala

Semantic Relation Extraction between Medical Entities

Wright State University (Ohio)

Preceptor: Dr. Asma Ben Abacha

AM-291 Karan Luthria

Utilizing Semantic and Contextual Measures to Evaluate the Similarity between Disease Concepts in UMLS

University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Olivier Bodenreider

AM-292 Vidhyanand Mahase

The Application of Bioinformatic Tools in Analyzing RNAseq Data from Mouse Embryonic Fibroblasts

Howard University (District of Columbia)

Preceptors: Dr. Leonardo Marino-Ramirez, Dr. Roberto Vera Alvarez

AM-293 Zeyad Moustafa

Visual Question Answering in the Medical Domain

Vanderbilt University (Tennessee)

Preceptors: Dr. Dina Demner-Fushman, Dr. Asma Ben Abacha

AM-294 Harshit Parmar

Deep Learning Applications in Functional Neuroimaging.

Texas Tech University (Texas)

Preceptor: Mr. Rodney Long

AM-295 Protiva Rahman

User Evaluation of Biomedical Literature Search

Ohio State University (Ohio)

Preceptors: Dr. Zhiyong Lu, Dr. Rezarta Islamaj, Dr. Don Comeau

AM-296 Alex Rankine

BioCreative/OHNLPS Challenge 2019: Combining Rich Features and Deep Learning for Finding Similar Sentences in Electronic Health Records

Harvard College (Massachusetts)

Preceptors: Dr. Yifan Peng, Dr. Qingyu Chen, Dr. Zhiyong Lu

AM-297 Sanjana Singh

Using Deep Learning for Cervical Histology Image Analysis

McLean High School (Virginia)

Preceptors: Dr. Zhiyun Xue, Mr. Carl Cornwell, Mr. Rodney Long, Dr. Sameer Antani

AM-298 Shreya Singh

Development of Machine Learning-based Prediction Models for Chemical Modulators of the Glucocorticoid Receptor Signaling Pathway Using Public-domain Bioactivity Data

Johns Hopkins University (Maryland)

Preceptor: Dr. Sunghwan Kim

National Center for Advancing Translational Sciences (NCATS)

LCH-1 Samuel Aboagye

Data Augmentation Approaches to Boost Deep Learning Predictions in Drug Discovery

George Washington University (District of Columbia)

Preceptors: Dr. Vishal Siramshetty, Dr. Alexey Zakharov, Mr. Tyler Peryea, Mr. Trung Nguyen

LCH-2 Cameron Amini

Effects of Protein Target Distance upon Synergistic Drug Combinations in IDH1 Mutant Glioma

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kelli Wilson, Mr. Sam Michael

LCH-3 Maria Antony

Quantitative High-throughput Screening (qHTS) to Identify Activators of p97/VCP

University of Connecticut School of Medicine (Connecticut)

Preceptors: Dr. Tino Sanchez, Dr. Mark Henderson

LCH-4 Brooklyn Aragon

Synthesis of ULK1 Inhibitors for Autophagy-dependent Cancers

New Mexico Highlands University (New Mexico)

Preceptor: Dr. Kanny Wan

LCH-5 Christopher Bach

Making a Comprehensive Inventory of Medical Devices Marketed in the U.S.

University of Maryland, College Park (Maryland)

Preceptor: Mr. Tyler Peryea

LCH-6 Anup Challa

In silico Screening to Discover Novel beta-Glucuronidase Inhibitors Targeting the Human Microbiome

Vanderbilt University (Tennessee)

Preceptors: Dr. Min Shen, Dr. Xin Hu

LCH-7 Jina Chung

Synthesis towards NCGC00538279, an Agonist of the Ghrelin Receptor GSHR1a

Emory University (Georgia)

Preceptor: Dr. David Kim

LCH-8 Justin Clabaugh

Dissecting Endothelial Cell Responses to Tobacco Chemicals Reveals Transcriptional Networks that Underlie Atherosclerosis

Hood College (Maryland)

Preceptors: Dr. David Gerohld, Dr. Greg Tawa

LCH-9 Aviv Elor

BioLumin - An Immersive Mixed Reality Platform for Interactive Biological Visualization

University of California, Santa Cruz (California)

Preceptors: Dr. Sam Michael, Dr. Nathan Hotaling, Dr. Ty Voss

LCH-10 Madison Gamma

Isolation and Characterization of Distinct Cell Populations Using Dielectrophoresis

Cornell University (New York)

Preceptors: Dr. Richard Eastman, Dr. Anton Simeonov

LCH-11 Emily Hone

Bioinformatics Pipeline - Gathering Potential Gene Targets for Disease Therapeutics

West Virginia University (West Virginia)

Preceptors: Dr. Greg Tawa, Dr. Donald Lo, Dr. Anton Simeonov, Dr. Chris Austin

LCH-12 Samuel Levenson

Validation of Drug Metabolic Pathway Figure Extraction from Literature

Cornell University (New York)

Preceptors: Dr. Elias Padilha, Dr. Xin Xu

LCH-13 Andrew Li

Profiling Butyrylcholinesterase Inhibitors

Dartmouth College (New Hampshire)

Preceptors: Dr. Shuaizhang Li, Dr. Ruili Huang, Dr. Menghang Xia

LCH-14 Choyhee Nyusha Lin

Gamification of Training Data Production for Artificial Intelligence

University of California, Los Angeles (California)

Preceptor: Dr. Nathan Hotaling

LCH-15 Wensen Liu

Improving Chemical Image Recognition with Deep Network Architectures

Montgomery Blair High School (Maryland)

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

LCH-16 Jake Niebler

Identification of Compounds That Inhibit Pregnane X Receptor Using a High-throughput Screening Platform

Juniata College (Pennsylvania)

Preceptors: Dr. Caitlin Lynch, Dr. Ruili Huang, Dr. Menghang Xia

LCH-17 Taylor Niehoff

Developing Biochemical and Cell-based Target Engagement and Activity Assays to Identify Selective Inhibitors for the Aldehyde Dehydrogenase (ALDH) Family

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Natalia Martinez, Mr. Adam Yasgar

LCH-18 Mason Rule

First-in-class Small Molecule Agonists of the Insulin-Like3 (INSL3) Peptide Receptor RXFP2, an Unexplored Therapeutic Target for the Treatment of Osteoporosis: Synthesis, SAR, and Biological Validation.

University of South Florida (Florida)

Preceptor: Dr. Kenneth Wilson

LCH-19 Deepto Sarkar

Evaluation of a Novel Lysosomotropic Substrate to Measure Glucocerebrosidase Activity in Gaucher Disease Cells

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Dipannita Dutta, Dr. Mark Henderson

LCH-20 Esther Sim

Biofabrication of 3D Tissue Models of Ovarian Cancer Metastasis for Disease Modeling and Drug Discovery

Arizona State University (Arizona)

Preceptors: Dr. Marc Ferrer, Dr. Jiaqi Fu, Dr. Min Jae Song

LCH-21 Williams Song

Integrative Analysis of the Kinase Landscape for Selective Inhibitors

College of William & Mary (Virginia)

Preceptors: Dr. Ruili Huang, Ms. Deborah Ngan, Mr. Tyler Peryea

LCH-22 Kara Webb

Bacterial Capsules as a Growth Medium for a C. elegans Model System in Laser Cytometry Based Screening

Hood College (Maryland)

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

LCH-23 Rebecca Zaayenga

Development of a High-throughput Assay Using Glycolytically Active S. pombe Yeast as a Model Organism Heterologously Expressing Human and Parasitic Nematode Phosphoglycerate Mutase

University of Maryland, College Park (Maryland)

Preceptors: Dr. Patricia Dranchak, Dr. James Inglese

National Eye Institute (NEI)

LCH-24 Emma Attar

Genotype-Phenotype Studies of Mouse Models of Uveal Coloboma

Stone Ridge School of the Sacred Heart (Maryland)

Preceptors: Dr. Ramakrishna Alur, Dr. Tiziana Cogliati, Dr. Brian Brooks, Ms. Julia Chertkof

LCH-25 Enat Ayele

Imaging Mass Spectrometry of Fatty acids Present in Mouse Brain and Ocular Tissue

Northwestern University (Illinois)

Preceptors: Mr. Todd Duncan, Dr. Jennifer Kielczewski, Dr. William Samuel, Dr. Michael Redmond

LCH-26 Kairo Baylor

Modulation of the Cellular Localization of beta-carotene-9',10'-oxygenase (BCO2)

Bard College at Simon's Rock (Massachusetts)

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

LCH-27 Katherine Byrnes

ABCA4 and Subcellular Lipid Deposits in iPSC-derived Retinal Pigment Epithelium Cells

Tulane University (Louisiana)

Preceptors: Ms. Devika Bose, Dr. Mitra Farnoodian-Tedrick, Dr. Kapil Bharti

LCH-28 Michelle Chen

The Rate of Photoreceptor Loss in ABCA4 Retinopathy Measured by Optical Coherence Tomography

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Brett Jeffrey

LCH-29 Julia Chertkof, Emma Attar

Oculocutaneous Albinism and in vitro Approaches for Drug Screening

Yale University (Connecticut), Stone Ridge School of the Sacred Heart (Maryland)

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

LCH-30 Paola Eusebio-Severino

The Role of Gm28876 during Aging of Rod Photoreceptors.

Interamerican University of Puerto Rico at Bayamon (Puerto Rico)

Preceptors: Dr. Ximena Corso-Diaz, Dr. Anand Swaroop

LCH-31 Eric Feng

Variant Visualization to Assist Clinical Interpretation in Ophthalmic Genetics

University of Maryland, College Park (Maryland)

Preceptors: Dr. Robert Hufnagel, Dr. Bin Guan

LCH-32 Jorge Ferrari Escoto

Analysis of Cellular Phenotypes for iPSC derived RPE

Montgomery College (Maryland)

Preceptors: Dr. Kapil Bharti, Mr. Davide Ortolan

LCH-33 Eric Fields, Alice Zhu

Transmembrane Domain of P Protein: Computational Analysis of OCA2 Mutations and Protein Expression Efforts

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

Preceptors: Dr. Yuri Sergeev, Dr. Monika Dolinska

LCH-34 Pura Gutierrez-Mirabal

Functional Screening of Candidate Transcription Factors Regulating Retinal Pigment Epithelium Differentiation

University of Puerto Rico School of Medicine (Puerto Rico)

Preceptors: Dr. Robert Hufnagel, Dr. Temesgen Fufa

LCH-35 Yoo-Jean Han

A Deep Learning Method to Detect Heterogeneously Fluorescent Cell Patterns in the Living Human Eye

Washington and Lee University (Virginia)

Preceptors: Dr. Jianfei Liu, Dr. Johnny Tam

LCH-36 Akshay Krishnan

Spatial Relationship between Genuine S-cones and ipRGCs

Sidwell Friends School (District of Columbia)

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

LCH-37 Srikar Kuppa

Zebrafish UBA2 Loss-of-function Phenocopies a Rare Human Disorder

Lewis Katz School of Medicine at Temple University (Pennsylvania)

Preceptors: Dr. Robert Hufnagel, Dr. Sairah Yousaf

LCH-38 Trisha Lal

An Asymmetric Case of Retinitis Pigmentosa Studied on Autopsied Eyes

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Robert Hufnagel

LCH-39 Tyger Lin

Characterization of Brn3b Knockout Retinal Ganglion Cell Receptive Field Properties

Johns Hopkins University (Maryland)

Preceptor: Dr. Tudor Badea

LCH-40 Kevin Manakkunnel, Jalela Bahar, Ezekiel Olumuyide

Single-domain anti-STAT3 Antibody (VHH Nanobody): Therapeutic Use in Experimental Autoimmune Uveitis

University of Maryland, College Park (Maryland), University of Tennessee at Chattanooga (Tennessee), CUNY Lehman College (New York)

Preceptors: Dr. Ming Yan, Dr. Jin Kyeong Choi, Dr. Cheng-Rong Yu, Dr. Charles Egwuagu

LCH-41 Carolyn Marar

Functional Validation of Quantitative Trait Loci Associated with Age-related Macular Degeneration Susceptibility

Johns Hopkins University (Maryland)

Preceptors: Dr. Anand Swaroop, Dr. Nivedita Singh

LCH-42 Dominique Noriega

Quantification of Longitudinal Changes in Late-onset Retinal Degeneration

State University of New York Downstate College of Medicine (New York)

Preceptors: Dr. Catherine Cukras, Dr. Tharindu De Silva

LCH-43 Alexis O'Keiffe

Quantifying the Rate of Change in Retinal Thickness/Volume and Choroidal Thickness in Patients with Advanced ABCA4 Retinopathy

Howard University (District of Columbia)

Preceptor: Dr. Brett Jeffrey

LCH-44 Tamir Odzorig

Optimization of Clearing and Permeablization of 3D Bioprinted Tissues for Imaging

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kapil Bharti, Dr. Minjae Song, Mr. Russell Quinn, Mr. Eric Nguyen

LCH-45 Ezekiel Olumuyide, Kevin Manakkunnel

Characterization of Novel STAT3 Inhibitors as Potential Drugs for the Treatment of Uveitis

CUNY Lehman College (New York), University of Maryland, College Park (Maryland)

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

LCH-46 Laura Patak

Investigating Associations between Microglia and Synapses in the Inner Plexiform Layer

Colgate University (New York)

Preceptors: Dr. Wei Li, Dr. Francisco Nadal-Nicolas, Dr. John Ball

LCH-47 Daniel Sanchez-Mendoza

Characterization of Znf503 Zebrafish Mutants by CRISPR Cas9 Mutagenesis

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Elangovan Boobalan, Dr. Brian Brooks

LCH-48 Robin Schneider

Interaction of Soluble Protein Components and Core Subunits of the AMPA Receptor Complex in Mouse Brain and Retina

Midwestern University Chicago College of Osteopathic Medicine (Illinois)

Preceptors: Dr. Naoki Nakaya, Dr. Stanislav Tomarev

LCH-49 Shahar Silverman

Regulation of Ocular Autoimmunity by the Gut Commensal Microbiota

Hebrew University (Non-U.S.)

Preceptors: Dr. Reiko Yamane, Dr. Rachel Caspi

LCH-50 Anant Tewari

High Resolution Eye Tracker

University of Virginia (Virginia)

Preceptors: Dr. Christian Quaia, Dr. Bruce Cumming

LCH-51 Jennifer Zhu

Development of the Cone-dominated Ground Squirrel Retina

Wellesley College (Massachusetts)

Preceptors: Dr. Vincent Kunze, Dr. Wei Li

National Heart, Lung, and Blood Institute (NHLBI)

LCH-52 Beatrice Acha

Role of POT1 in Cell Proliferation and Telomere Maintenance of HAP1 Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Fernanda Gutierrez Rodrigues, Dr. Sachiko Kajigaya, Dr. Neal Young

LCH-53 Raphael Agbor-Enoh

Venous Thromboembolism Prophylaxis in Sickle Cell Disease Patients Hospitalized for Vaso-occlusive Crisis

Temple University School of Pharmacy (Pennsylvania)

Preceptor: Dr. Arun Shet

LCH-54 Elise Ahn

The Effect of Spermidine on AMPK

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sung Jun Park, Dr. Jay Chung

LCH-55 Hermela Amdeta

Portfolio Analysis of Behavioral Science Applications Submitted to Clinical Trial FOAs at NHLBI

American University (District of Columbia)

Preceptor: Dr. Rebecca Campo

LCH-56 Ian Atkinson

Top Predictors of Primary Outcomes in the STICH Trial Using Machine Learning

Cornell University (New York)

Preceptors: Dr. Ahmed Hasan, Dr. Yves Rosenberg

LCH-57 Jonathan Bao

Plasticity-related Gene Protein Overcomes Negative Cues by Increasing Cell Attachment

Rensselaer Polytechnic Institute (New York)

Preceptors: Dr. Sharada Tilve, Dr. Herbert Geller

LCH-58 Alexis Brake

Role of Astrocyte Cell Stiffness in Controlling the Glial Scar

University of Florida (Florida)

Preceptors: Dr. Caitlin Mencio, Dr. Herbert Geller

LCH-59 Alanna Brown

Analysis of the National Heart, Lung, and Blood Institute's Nutrition Research Portfolio, 2008 to 2018

Spelman College (Georgia)

Preceptors: Mr. Travis Hyams, MPH, Dr. Alison Brown, Dr. Holly Nicastro, Dr. Charlotte Pratt

LCH-60 Sarah Carney

Impact of Stress-related Neurotransmitters on Endothelial Cell Function

Case Western Reserve University (Ohio)

Preceptors: Dr. Yvonne Baumer, Dr. Tiffany Powell-Wiley

LCH-61 Alexandra Chand

Developing Analysis Protocol for Monitoring Intracellular Oxygenation Using Fluorescence

Lifetime Imaging of Myoglobin-mCherry

Lawrence University (Wisconsin)

Preceptors: Dr. Rozhin Penjweini, Mr. Branden Roarke, Mr. Greg Alspaugh, Dr. Jay Knutson

LCH-62 Daniel Chen

Generation of Human Induced Pluripotent Cells from an Individual with Periodic Fever Syndrome

University of Maryland, College Park (Maryland)

Preceptors: Dr. Manfred Boehm, Dr. Guibin Chen

LCH-63 Eric Cho

The Effect of Crossover Rates on Statistical Power in Pragmatic Trials

Vanderbilt University (Tennessee)

Preceptor: Dr. Dong-yun Kim

LCH-64 Rodica Monica Ciurea

Association of Insulin Dosage with Cardiovascular Mortality in ACCORD Trial

Georgetown University (District of Columbia)

Preceptors: Dr. Xin Tian, Dr. Colin Wu

LCH-65 Christian Cullen

Phenotypic Effects of PIEZO1 E756del Variant on Red Blood Cells in Sickle Cell Disease

Medical College of Georgia (Georgia)

Preceptors: Dr. Swee Lay Thein, Dr. Xunde Wang

LCH-66 Mehana Daftary

Characterization of Drosophila Myosin V via Single-molecule Assays

Yale University (Connecticut)

Preceptors: Dr. Rong Liu, Dr. James Sellers

LCH-67 Gauri Dandi

Identifying Predictors of Heart Failure in Racial Subgroups of the TOPCAT Trial Using Machine Learning

Northeastern University (Massachusetts)

Preceptors: Dr. Ahmed Hasan, Dr. Yves Rosenberg, Dr. Amit Dey, Dr. Colin Wu

LCH-68 Alisha Desai

Ultra-sensitive Detection of Corticotropin-Releasing Factor (CRF) and Its Correlation with Biologic and Psychosocial Cardiovascular Risk Markers among African Americans

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ankit Saxena, Dr. Yvonne Baumer, Dr. Tiffany Powell-Wiley, Dr. J. Philip McCoy

LCH-69 Vivian Dong

Comparative Single Cell Transcriptomic Analysis of the Hematopoietic System between Human and Mouse

Brown University (Rhode Island)

Preceptors: Dr. Neal Young, Dr. Shouguo Gao

LCH-70 Heather Dorsey-Hirt

The Host-Pathogen Dynamics of Enterovirus D-68

Truckee Meadows Community College (Nevada)

Preceptors: Dr. Marianita Santana, Dr. Nihal Altan-Bonnet

LCH-71 Vinay Durbhakula

A Simple Fluorescent-Lipid Based Assay to Identify Plasma Lipoprotein-X

Winston Churchill High School (Maryland)

Preceptors: Dr. Edward Neufeld, Dr. Masaki Sato, Dr. Lita Freeman, Dr. Alan Remaley

LCH-72 Nuha Gani

Top Predictors of All-cause Mortality in Racial Subgroups of the SPRINT Trial Identified by Machine Learning

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ahmed Hasan, Dr. Yves Rosenberg, Dr. Amit Dey, Dr. Colin Wu

LCH-73 Grace Ge

Modifiers of Blood Pressure in Elastin-insufficient Mice

University of Maryland, College Park (Maryland)

Preceptors: Ms. Zhouhong Cao, Mr. Russell Knutsen, Dr. Kitman Tsang, Dr. Beth Kozel

LCH-74 Elnaz Ghajar-Rahimi

Automated Method for Quantification and Analysis of Flight Behavior in Drosophila

University of Virginia (Virginia)

Preceptors: Dr. Brian Glancy, Dr. Prasanna Katti

LCH-75 Adriana Grewe, Chloe Kesity

Effects of Variations in Osmium Staining on Membrane Visibility

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

Preceptors: Dr. Christopher Bleck, Dr. Eric Lindberg, Ms. Heba Mohammed, Dr. Prianka Anand

LCH-76 Carla Griffiths

Using Quantitative Microscopy to Map Differential Protein Expression in the Cortical Collecting Duct

University College London (Non-U.S.)

Preceptor: Dr. Mark Knepper

LCH-77 Lina Gu

Engineering Nonhuman Primate Lymphocytes to Express CD33 Chimeric Antigen Receptor (CAR)

Georgia Institute of Technology (Georgia)

Preceptors: Dr. David Young, Dr. Cynthia Dunbar

LCH-78 Wonhee Han

Role of GCN5L1 in Lysosome Homeostasis

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Michael Sack, Dr. Kaiyuan Wu

LCH-79 Jeffrey Hayashi

Over-expression of C-X-C Chemokine Receptors CXCR4 in Endothelial Cells Causes Vascular Abnormalities during Angiogenesis

University of Portland (Oregon)

Preceptors: Dr. Yoh-suke Mukoyama, Dr. Wenling Li

LCH-80 Grace Igbinosun

Measuring Three Stressors on Erythrocytes Using LoRRca Maxsis Osmoscan

University of Maryland, College Park (Maryland)

Preceptors: Dr. Pierre-Christian Violet, Mrs. Laurel Mendelsohn, Dr. Mark Levine, Dr. Swee Lay Thein

LCH-81 Promotto Islam

Transgelin: A Novel Regulator of Low Density Lipoprotein Metabolism

University of Virginia (Virginia)

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

LCH-82 Sabrina Johnson

Bax and Bid Sequestration into Amyloid-like Fibers by Humanin

University of Maryland, College Park (Maryland)

Preceptors: Dr. Nico Tjandra, Dr. Daniel Morris

LCH-83 Ruth Kim

Identifying Target Cells for Norovirus Pathogenesis

Northern Virginia Community College (Virginia)

Preceptors: Dr. Sourish Ghosh, Dr. Manish Kumar, Dr. Nihal Alton-Bonnet

LCH-84 Laya Krishnan

Effect of CRISPR-Cas9 Deletion of Myosin Light Chain Kinase on Phosphoproteome of Renal Epithelial Cells: A Bioinformatic Analysis

University of Illinois at Chicago (Illinois)

Preceptors: Dr. Mark Knepper, Dr. Viswanathan ("Raghu") Raghuram

LCH-85 Oscar Levine

The Association between BMI and Cardiac Chamber Size as Measured by a Novel Artificial Intelligence (AI) System on Cardiac Computed Tomography Angiography (CCTA) Images

Washington University in St. Louis (Missouri)

Preceptors: Dr. Sujata Shanbhag, Ms. Vy Bui, Dr. Li-Yueh Hsu, Dr. Marcus Chen

LCH-86 Zyannah Mallick

Comparative Analysis of Top Predictors of Hard Outcomes Identified by Machine Learning in the BARI 2D and STICH Trials

College of William and Mary (Virginia)

Preceptors: Dr. Ahmed Hasan, Dr. Yves Rosenberg, Dr. Amit Dey

LCH-87 Ash Lee Manley

Analysis of Segmentation and Filtering Effects on Chromatin and Nuclei's 3D Volume in Yeast Cells

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Christopher Bleck, Dr. Eric Lindberg

LCH-88 Dominique Mata

Mitochondrial Respiration Affects Intracellular Oxygen Levels

University of Texas at El Paso (Texas)

Preceptors: Dr. Mateus Mori, Dr. Rozhin Penjweini, Dr. Jay Knutson, Dr. Paul Hwang

LCH-89 Allannah Matthews

Production, Purification, and Fluorophore-labeling of a Rabbit Polyclonal Antibody to the Na-K-ATPase alpha-1 Subunit

University at Albany, State University of New York (New York)

Preceptors: Dr. Mark Knepper, Dr. Lihe Chen

LCH-90 Franklin Mendelsohn

Mapping the Structure of Endocytosis

Northwood High School (Maryland)

Preceptor: Dr. Justin Taraska

LCH-91 Halyn Orellana

Targeted RNA Cleavage and Protection Using CRISPR-associated RNA Guided Ribonucleases Cas13b and CasRx

Georgetown University (District of Columbia)

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

LCH-92 Nikhita Perry

Role of Epigenetic Reprogramming on Human Endogenous Retrovirus Type E (HERV-E) Expression in Clear Cell Renal Cell Carcinoma (ccRCC)

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Elena Cherkasova, Dr. Stefan Barisic, Mr. Robert Reger, Dr. Richard Childs

LCH-93 Sana Rahman

Re-validation of Cigarette Smoking Susceptibility Measures Using Longitudinal Data from Population Assessment of Tobacco and Health (PATH) Study

Georgetown University (District of Columbia)

Preceptors: Dr. Eliseo Perez-Stable, Dr. Erik Rodriguez, Ms. Saida Coreas

LCH-94 Sanim Rahman

The Molecular Motor: Mechanics and Energetics of ATP Synthase

University of South Florida (Florida)

Preceptors: Dr. Jose Faraldo, Dr. Wenchang Zhou

LCH-95 Rahul Ramraj

High Dimensional Flow Cytometry Reveals Deficiencies in B but not T Cell Subsets in Bone Marrow of AML Patients Compared with Appropriately Age-Matched Healthy Donors

Virginia Commonwealth University School of Medicine (Virginia)

Preceptors: Dr. Christopher Hourigan, Ms. Meghali Goswami, Dr. Laura Dillon, Dr. Pradeep Dagur

LCH-96 Karim Salhadar

CRISPR-Cas9 Deletion of Protein Kinase A in Aquaporin-2-expressing Collecting Duct Cells: Effect on Phosphoproteome

University of Texas at Austin (Texas)

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

LCH-97 Janyla Seltzer

Exploring the Connection between Neighborhood Change and Cardiometabolic Health: Identification of Areas of Gentrification in Washington, D.C.

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Tiffany Powell-Wiley

LCH-98 Ali Sethi

In-vitro and in-vivo Lipolysis Stimulated by D6PV Peptide

University of California, Davis (California)

Preceptors: Dr. Denis Sviridov, Dr. Anna Wolska, Dr. Alan Remaley

LCH-99 Sana Shahbaz Ahmad

Proteomics Analysis of Janus Kinase 1 (JAK1) Signaling in T-cell Immunity

Northern Virginia Community College (Virginia)

Preceptors: Dr. Jianhua Xiong, Dr. Warren J Leonard

LCH-100 Feven Tadesse

Circulating Mitochondrial and Nuclear DNA in Heart Transplant Recipients: Optimizing Biomarkers of Organ Transplant Rejection

John F. Kennedy High School (Maryland)

Preceptors: Dr. Hannah Valantine, Dr. Sean Agbor-Enoh, Dr. Moon Kyoo Jang, Mr. Kenneth Bhatti

LCH-101 Adam Tyrlik

Understanding Factors Involved in E and A Wave Fusion in the Pulse Wave Doppler Mitral Valve Signal in Mice

University of Maryland, College Park (Maryland)

Preceptor: Dr. Danielle Springer

LCH-102 Lauren Vaughn

High Sensitivity Detection of Mutations Associated with Drug Resistance in Chronic Lymphocytic Leukemia Patients

University of Florida (Florida)

Preceptors: Dr. Chingiz Underbayev, Dr. Adrian Wiestner

LCH-103 Emily Vollmer

Investigating the Replication and Immune Response Evasion of Vesicle-cloaked Rotavirus
Indiana University (Indiana)

Preceptors: Dr. Sourish Ghosh, Dr. Nihal Altan-Bonnet

LCH-104 Sheavonnie Wright

Exercise Tolerance and Activity Levels in Individuals with Williams Beuren Syndrome
Lehman College (New York)

Preceptors: Dr. Beth Kozel, Ms. Neelam Raja, Ms. Zoe Wong, Mr. Russell Knutsen

LCH-105 Victoria Xin

Antihypertensive Medication for Revascularized Patients with Machine Learning
Montgomery Blair High School (Maryland)

Preceptors: Dr. Yves Rosenberg, Dr. Ahmed Hasan

LCH-106 Harsh Yadav

Bioinformatics Approach for Quantification of Long Non-coding RNA in Cancer
Richard Montgomery High School (Maryland)

Preceptors: Dr. Mehdi Pirooznia, Dr. Vijender Chaitankar, Dr. Fayaz Seifuddin

LCH-107 Josette Yeboah

Assessing the Impact of Neurotransmitters on NK Cell Functionality
Lafayette College (Pennsylvania)

Preceptors: Dr. Yvonne Baumer, Mr. Cristhian Gutierrez Huerta, Dr. Tiffany Powell-Wiley

LCH-108 Peter Yong

Is There a Relationship between Mitochondrial Morphology and Oxygen Consumption?
University of Minnesota Twin Cities (Minnesota)

Preceptors: Dr. Rozhin Penjweini, Dr. Jay Knutson

LCH-109 Nathan Zimmerberg

Towards Faster Constant-pressure Molecular Dynamics Simulations
Cornell University (New York)

Preceptors: Dr. Andrew Simmonett, Mr. Samarjeet Prasad, Dr. Richard Pastor, Dr. Bernard Brooks

National Institute on Aging (NIA)

LCH-110 Christiana Agbo

Ceramide Increases Extracellular Vesicle Secretion via Reactive Oxygen Species in beta Cells
Cornell University (New York)

Preceptor: Dr. Paritosh Ghosh

LCH-111 Oluwafunto Akindona

Genetic Modification of the Auto-inhibitory IAK Motif in KIF5A

Carleton College (Minnesota)

Preceptors: Dr. Bryan Traynor, Dr. Sara Saez-Atienzar

LCH-112 Pelumi Akinpelu

Evaluation of miR-200 Family in Murine Left Ventricle

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Cristina Florio, Dr. Edward Lakatta

LCH-113 Battulga Amarat

Senescence as a Function of Age in GESTALT Skin Fibroblasts

Rutgers University (New Jersey)

Preceptors: Dr. Kotb Abdelmohsen, Dr. Martina Rossi, Ms. Rachel Munk

LCH-114 Ahlina Archibald

Using Novel Methodologies to Explore iPS Cell Models

Howard University (District of Columbia)

Preceptors: Ms. Rebekah Langston, Dr. Mark Cookson

LCH-115 Mercy Arkorful

Examining WAVE2 Differential Gene Expression and its Link to Hypertension Health Disparities in Women

Morgan State University (Maryland)

Preceptors: Dr. Nicole Noren Hooten, Dr. Michele Evans, Dr. Douglas Dluzeb

LCH-116 Ray Bai

Expanding upon an Interactive Manhattan Plot to Better Understand and Interpret SNP Data

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Bryan Traynor, Dr. Ruth Chia

LCH-117 Ann Bensen

Proteostasis of ARC in Rat Model of Cognitive Aging

Towson University (Maryland)

Preceptors: Dr. Perla Moreno-Castilla, Dr. Peter Rapp

LCH-118 Olouwakemi Biaou

The Characterization of the SIRT6-Open Tubular column

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Ruin Moaddel, Dr. Rita Lima

LCH-119 Wyatt Bollinger

Effect of a Chronic Treatment with an ACE Inhibitor, Lisinopril, on Central Arterial Stiffness, Cerebral Vasculature, and Tissue Remodeling in Adult Hypertensive Dahl Salt-Sensitive Rats

University of Nevada, Reno (Nevada)

Preceptors: Dr. Olga Fedorova, Dr. Ondrej Juhasz

LCH-120 Alexandra Cancio-Bello

Familial KIF5A Mutation in ALS Leads to a Hyperactivation of the Protein

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Sara Saez, Dr. Bryan Traynor

LCH-121 Meagan Colie

Identification of Aging Biomarkers in Human T-cells

Appalachian State University (North Carolina)

Preceptors: Dr. Christopher Dunn, Mr. Thomas Nguyen, Dr. Achouak Achour, Dr. Nan-Ping Weng

LCH-122 Will Crews

Studying the Function of FBXW7 Hot Spot Mutation (R475) Using Biochemical and Mouse Model Approaches

Harding University (Arkansas)

Preceptors: Dr. Veenu Tripathi, Dr. Norman Sharpless, Mr. Ian McClain-Caldwell

LCH-123 Corrina Davis

Investigating the Role of Transposable Elements in the Predisposition and Pathogenesis of Parkinson's Disease

Lafayette College (Pennsylvania)

Preceptor: Dr. Kimberley Billingsley

LCH-124 Dominique Ebedes

Antibodies and Antigens of Atherosclerosis

Georgetown University (District of Columbia)

Preceptors: Dr. Mark Hutchinson, Dr. Patricia Gearhart

LCH-125 Sarah Edoho

The Relationship between DNA Damage and Mitophagy in C. Elegans

Howard University (District of Columbia)

Preceptor: Dr. Anthony Moore

LCH-126 Patrick Fuller

Oligomeric A β 42 Changes Prion Protein Levels in Neuronal-derived Extracellular Vesicles

University of California, Santa Cruz (California)

Preceptors: Dr. Dimitrios Kapogiannis, Dr. Carlos Noguera-Ortiz

LCH-127 Alana Germroth

Identifying Mitochondrial Glutathione S-Transferase as a Senescence Marker

Centennial High School (Maryland)

Preceptors: Dr. Kotb Abdelmohsenk, Dr. Dimitrios Tsitsipatis

LCH-128 Jeffrey Gu

Prevalence of Mitochondria-derived Vesicles in Neurons

Duke University (North Carolina)

Preceptors: Dr. Pamela Yao, Dr. Dimitrios Kapogiannis

LCH-129 Kailin Guo

The Use of CRISPR and Cas9 to Disrupt Genes Enriched in the Midbrain to Explore Their Function in PD Pathology

University of California, Los Angeles (California)

Preceptors: Dr. Lixin Sun, Dr. Wotu Tian

LCH-130 Jamie Hartnett

Epigenetic Targeting via CRISPR/Cas9 to Modulate Liver Genes during Aging

Towson University (Maryland)

Preceptors: Dr. Na Yang, Dr. Payel Sen

LCH-131 Nicolas Held

The Gut Microbiome in Mice Serially Infected with Viruses (γ HV-68, Sendai, mCMV, and H. polygyrus)

Eleanor Roosevelt High School (Maryland)

Preceptor: Dr. Kevin Becker

LCH-132 Katherine Ho

Genetic Screens to Identify Functional Interactors of Topoisomerase 3-beta and TDRD3

Stanford University (California)

Preceptors: Dr. Tianyi Zhang, Dr. Weiping Shen, Dr. Weidong Wang

LCH-133 Derek Huell

Cerebellum Purkinje Cell Vulnerability in Cognitive Aging: Beyond the Hippocampus

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Ciana Cooper, Dr. Cristina Banuelos

LCH-134 Aditya Joshi

A Comparison of Voxel Wise Partial Volume Correction Methods for Positron Emission Tomography

Johns Hopkins University (Maryland)

Preceptors: Dr. Murat Bilgel, Dr. Susan Resnick

LCH-135 Jacob Joubert

How Can the Mighty TGAC8 Heart Survive?

Howard University (District of Columbia)

Preceptor: Dr. Maria Grazia Perino

LCH-136 Jordan Kalai

Sequencing GCH1 in Two Families with Dopa-responsive Dystonia

Columbia University (New York)

Preceptors: Ms. Monica Diez-Fairen, Dr. Sara Bandres-Ciga, Dr. Andrew Singleton

LCH-137 Andreanna Le

The Role of ALDH1A1 in Protecting Dopamine Neurons against α -synuclein-mediated Cytotoxicity

Sidwell Friends School (District of Columbia)

Preceptors: Ms. Jie Dong, Dr. Lisa Chang, Dr. Huaibin Cai, Dr. Andrew Singleton

LCH-138 Sam Lee

Analyzing Mortality Risk through Hematological Parameters in Study on Longitudinal Aging in Mice (SLAM)

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Dushani Palliyaguru, Dr. Camila Vieira Ligo Teixeira, Dr. Eric Shiroma, Dr. Rafael De Cabo

LCH-139 Emily Lerner

Role of Cyclin-dependent Kinase Inhibitor p16 in Medullary Thymic Epithelial Cell Development and Immunosenescence in Transgenic Mouse Models

University of Michigan (Michigan)

Preceptors: Dr. Suresh Kumar, Mr. Ian McClain-Caldwell, Dr. Veenu Tripathi, Dr. Norman Sharpless

LCH-140 Winston Lin

Integrative Analysis of DNA Methylation and Gene Expression Data Identifies Their Age-associated Changes in CD8+ T Cells and NK Cells

Johns Hopkins University (Maryland)

Preceptors: Mr. Raheel Ahmad, Mr. Thomas Nguyen, Dr. Nan Ping Weng

LCH-141 Brittany Linus

Mapping Mutations during Somatic Hypermutation in Antibody Variable Regions

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

Preceptors: Dr. Justin Heltzel, Dr. Patricia Gearhart

LCH-142 Brianah McCoy

Identification of MYH3, MYL2, NLRP3, and CNR1 as Molecular Markers for Human Skeletal Muscle Aging

Arizona State University (Arizona)

Preceptor: Dr. Qing Liu

LCH-143 Amelie Nkodo

Longitudinal Associations between Monetary Value of the Diet, DASH Diet Score, and the Allostatic Load among Middle-aged Urban Adults

Johns Hopkins University (Maryland)

Preceptors: Dr. May Baydoun, Dr. Michele Evans, Dr. Alan Zonderman

LCH-144 Evián Pérez Rivera

Longitudinal White Matter Microstructural Decline Is Faster in Preclinical MCI/AD Compared to Cognitively Normal Older Adults

San Juan Bautista School of Medicine (Puerto Rico)

Preceptors: Dr. Owen A Williams, Dr. Andrea T Schafer, Dr. Bennet A Landman, Dr. Susan M Resnick

LCH-145 Jewyl Raikes

REM-associated Hippocampal Activation and Inhibition in Normal Cognitive Aging

St. John's University (New York)

Preceptors: Dr. Craig Myrum, Ms. Margaret Stelzner, Mr. Joshua Hunt, Dr. Peter Rapp

LCH-146 Shardul Rakshit

Cluster Distributions of Ryanodine Receptors in Cardiac Pacemaker Cells Revealed By Super-resolution Microscopy and 3D Computational Geometry Algorithms

Johns Hopkins University (Maryland)

Preceptors: Dr. Victor Maltsev, Dr. Michael Stern

LCH-147 Carlos Reyes-Sepulveda

The Impact of Nrf2 on Sex-specific Differences under Dietary Interventions

University of Puerto Rico at Bayamón (Puerto Rico)

Preceptors: Dr. Laura Corrales-Diaz Pomatto, Ms. Oye Bosompra, Mr. Jonathan Kato, Ms. Sarah Wong

LCH-148 O'wayne Rodney

MicroRNA Regulators of Senescence Transcriptome Signature

Howard University (District of Columbia)

Preceptors: Mr. Kotb Abdelmohsen, Dr. Allison Herman, Dr. Poonam Pandey

LCH-149 Samuel Rosemore

Behavioral Effects of rTMS in a Rat Model of Neurocognitive Aging

Beth Tfiloh Dahan Community School (Maryland)

Preceptors: Dr. Marina Weiler, Dr. Peter Rapp

LCH-150 Gabriel Sacarello

Association of Central Arterial Stiffness with Hippocampal Blood Flow and Neuronal Viability in Hypertensive Dahl Salt Sensitive Rats treated with an ACE inhibitor, lisinopril

San Juan Bautista School of Medicine (Puerto Rico)

Preceptors: Dr. Olga Fedorova, Mr. Samuel Ajamu

LCH-151 Valeria Santiago Padilla

Alterations in Mitochondrial Ultrastructure in Alzheimer's Disease: Effect of Ketone and NAD+ Supplementation

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

Preceptors: Dr. Tyler Demarest, Dr. Vilhelm Bohr, Dr. Mark Mattson

LCH-152 Aleah Scott

Mutation in XRCC1 Can Lead to a Mitochondrial Dysfunction

Baltimore Polytechnic Institute (Maryland)

Preceptors: Ms. Arina Perez, Dr. Vilhelm Bohr

LCH-153 Everett Stubblefield

miR-200 Modulation in Cardiac Aging

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Cristina Florio, Dr. Edward Lakatta

LCH-154 Seth Talyansky

Imaging Transcription Factor Activity and Gene Expression in Single Primary Macrophages

Stanford University (California)

Preceptors: Dr. Erik Martin, Dr. Mia Sung

LCH-155 Diego Tanton

Changes in Lean Muscle Mass and Oral Glucose Tolerance as a Function of Age in the Study of Longitudinal Aging in Mice (SLAM)

Johns Hopkins University (Maryland)

Preceptors: Dr. Dushani Palliyaguru, Dr. Eric Shiroma, Dr. Michel Bernier, Dr. Rafael de Cabo

LCH-156 August Thomas

High-throughput Variance Inflation Factor (VIF) Filtering via HPC for Massive Datasets

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Michael Nalls, Dr. Sara Bandres, Ms. Mary Makarious

LCH-157 Ethan Trepka

Three Dimensional Quantification of Septohippocampal Projection Systems in Young and Aged Rats Using Light Sheet Microscopy

Dartmouth College (New Hampshire)

Preceptors: Dr. Cristina Banuelos, Dr. Sharyn Rossi, Dr. Peter Rapp

LCH-158 Kirtana Veeraraghavan

Identification and Characterization of Circular RNA in Alzheimer's Disease

University of California, Los Angeles (California)

Preceptors: Dr. Supriyo De, Mr. Gautam Kundu, Dr. Krystyna Mazan-Mamczarz, Mr. Christopher Coletta

LCH-159 Guillermo Veron

Elementary Intracellular Calcium Signals Are Initiated by a Phase Transition of Calcium Release Channels in a Metastable State

University of California, Los Angeles (California)

Preceptors: Dr. Victor Maltsev, Dr. Michael Stern, Dr. Anna Maltsev

LCH-160 Jewel Washington

Comparison of Glucose Metabolism and Insulin Physiology between C57BL/6 Mouse Strains

North Carolina Agricultural and Technical State University (North Carolina)

Preceptors: Dr. Caio Mazucanti, Dr. Jennifer O'Connell, Dr. Josephine Egan

LCH-161 Deja Webber

The Role of the Sister Chromatid Cohesion Helicase DDX11 in Double Strand Break Repair

Loyola Marymount University (California)

Preceptors: Dr. Arindam Datta, Dr. Robert Brosh

LCH-162 Aileen Zhang

Cockayne Syndrome Protein B Interacts with LEO1 in Repairing Genotoxin-induced DNA Damage

University of California, Berkeley (California)

Preceptors: Dr. Vinod Tawari, Dr. Vilhelm Bohr

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

LCH-163 John Ahrens

Targeting Autophagy in Pluripotent Cancer Cells

Rice University (Texas)

Preceptors: Dr. Arup Chakraborty, Dr. Melvin DePamphilis

LCH-164 Zarina Akbary

Investigating the Localization of a Legionella Virulence Factor That Targets Host Cell Mitochondria

Drew University (New Jersey)

Preceptors: Dr. Xiao Li, Dr. Matthias Machner

LCH-165 Syed Ali

The Effects of CHD8 Mutations on Intestinal Dysmotility and Peristalsis Rate in a Larval Zebrafish (Danio rerio) Model of Autism

Bluefield State College (West Virginia)

Preceptors: Dr. Harold Burgess, Dr. James Walters

LCH-166 Dhanya Asokumar

Interneuron Fate and Maturation in Ezh2 Mutant Mice

Johns Hopkins University (Maryland)

Preceptors: Mr. Christopher Rhodes, Dr. Tim Petros

LCH-167 Kadee Atkinson

Does Maternal Race/Ethnicity Modify the Association between Maternal Psychiatric Disorders and Preterm Birth?

Howard University (District of Columbia)

Preceptors: Dr. Pauline Mendola, Dr. Carrie Nobles, Ms. Jenna Kanner

LCH-168 Zoya Bharmal

Role of MC3R in Energy Homeostasis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jack Yanovski, Dr. Tusharkumar Patel

LCH-169 Andrew Blum

Using Dual Channel Fluorescence Cross Correlation Spectroscopy to Assess Membrane Binding Dynamics of Alpha-Synuclein

Colgate University (New York)

Preceptors: Dr. Maria Queralto Martin, Dr. Tatiana Rostovtseva

LCH-170 Catherine Boehmer

A Genetic Screen for Tissue-specific Epigenetic Regulators

Bethesda-Chevy Chase High School (Maryland)

Preceptors: Dr. Aniket Gore, Dr. Kiyohito Taimatsu, Ms. Avery Swearer, Dr. Brant Weinstein

LCH-171 Caleise Britt

Initial Characterization of Mgat5/Npc1 Mice

St. Johns University (New York)

Preceptor: Dr. Niamh Cawley

LCH-172 Varuna Chopra

Modulating Multidrug Efflux Pumps in Pseudomonas aeruginosa

Northern Virginia Community College (Virginia)

Preceptors: Dr. Gisela Storz, Dr. Mona Orr, Ms. Franchesca Uribe-Rheinbolt

LCH-173 Iqra Choudhry

Metabolism and the Regulation of Meiotic Progression in Drosophila

Georgetown University (District of Columbia)

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

LCH-174 Seymone Clarke

Socioeconomic Status and Parent Perception of Disordered Eating Behaviors in Relation to Food Intake Patterns Among Youth

Holton-Arms School (Maryland)

Preceptors: Dr. Jack Yanovski, Ms. Meghan Byrne, Ms. Sarah Rubin, Dr. Marian Tanofsky-Kraff

LCH-175 Urjita Das, Dhanya Asokumar

Quantifying the Developmental Time Points of MGE-derived Cells

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

Preceptors: Mr. Sanan Venkatesh, Dr. Tim Petros

LCH-176 Katherine Degner

Characterization of npc2 Expression in Zebrafish Embryos

Washington and Lee University (Virginia)

Preceptors: Ms. Ana Johnson Escauriza, Dr. Wei-Chia Tseng, Dr. Christopher Wassif, Dr. Forbes Porter

LCH-177 Delaram Doorandish

The Purification and Characterization of Neuronally Derived Exosomes

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Niamh Cawley

LCH-178 Olufisola Famuyiwa

Suppression of High-fat Diet-induced Inflammation by Colchicine in Mice: Modulation of the NLRP3 Inflammasome

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jack Yanovski, Dr. Tusharkumar Patel, Mr. Jordan Levine

LCH-179 Alisa Forsberg

A Novel Transgenic Zebrafish Line to Study Epigenetics during Regeneration

Bethesda-Chevy Chase High School (Maryland)

Preceptors: Dr. Aniket Gore, Dr. Kiyohito Taimatsu, Ms. Avery Swearer, Dr. Brant Weinstein

LCH-180 Kartik Gannamaneni

Expression Studies on Alternative Translation Initiation Sites Leading to N-terminally Extended Protein Isoforms

Purdue University (Indiana)

Preceptors: Dr. Shardul Kulkarni, Dr. Jon Lorsch

LCH-181 Athanasios Gkirgkinoudis, Marian Fernandez

Renal Manifestations in Carney Complex

School of Medicine, University of Patras (Non-U.S.), Wheaton High School (Maryland)

Preceptors: Dr. Constantine Stratakis, Dr. Crystal Kamilaris, Dr. Christina Tatsi, Dr. Georgia Pitsava

LCH-182 Julia Grafstein

Why Are Enhancers Directional?

Walter Johnson High School (Maryland)

Preceptors: Dr. Karl Pfeifer, Dr. Christopher Tracy

LCH-183 Mahad Gudal

Early Life Origins of All-cause Mortality in the National Collaborative Perinatal Project

University of Massachusetts Amherst (Massachusetts)

Preceptors: Dr. Stephen Gilman, Dr. Risë Goldstein, Ms. Gina Ma, Dr. Jing Yu

LCH-184 Nicholas Habibian

Effects of the Combination of Aurora Kinase Inhibitor, AMG 900, and Wnt/Beta Catenin Pathway Inhibitor, PNU 74654, on Adrenocortical Tumor Cells

University of Maryland, College Park (Maryland)

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

LCH-185 Eric Hommel

Generation of NFATc1 Reporter Zebrafish Model Using Tol2-mediated Transgenesis

Northern Virginia Community College (Virginia)

Preceptors: Dr. Hyun Min Jung, Dr. Brant Weinstein

LCH-186 Syan Timothy Lopez

*Functional Analysis of Neural Crosstalk in Taste Discrimination in *Drosophila melanogaster**

Solano Community College (California)

Preceptors: Dr. Bo-Mi Song, Dr. Mark Stopfer

LCH-187 Melissa Melehy

ABCA1 and Its Potential Association with Nonalcoholic Fatty Liver Disease

Stone Ridge School of the Sacred Heart (Maryland)

Preceptors: Ms. Michelle Bloyd, Dr. Edra London, Dr. Constantine Stratakis

LCH-188 Emmi Mills

Sperm Suppression and Hormone Levels over Time in Response to Nestorone®/Testosterone Gel Treatment

Walter Johnson High School (Maryland)

Preceptors: Dr. Diana Blithe, Dr. Jill Long, Dr. Min Lee

LCH-189 Jan Mooney

Assessing the Influences of Stress and Motivation for Healthy Eating on Diet Quality during Pregnancy and Postpartum

University of North Carolina at Charlotte (North Carolina)

Preceptors: Dr. Tonja Nansel, Dr. Leah Lipsky

LCH-190 Amitoj Nagaich

Projection Patterns of Olfactory Receptor Neurons in the Antennal Lobe, a First Order Neural Center

Walter Johnson High School (Maryland)

Preceptors: Dr. Mark Stopfer, Dr. Alejandra Boronat-Garcia

LCH-191 Nicolas Nava

Evaluation of Somatic ARMC5 Genetic Variability in Primary Macro Nodular Adrenocortical Hyperplasia(PMAH)

DeMatha Catholic High School (Maryland)

Preceptors: Dr. Fabio Faucz, Dr. Constatine Stratakis

LCH-192 Tuyet Nguyen

Role of Mannose Receptors in Cerebrospinal Fluid Filtration by Vascular-associated Meningeal Scavenger Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Marina Venero Galanternik, Mr. Ryan Gober, Dr. Brant Weinstein

LCH-193 Katherine O'Meara

The Clinical Significance of Elevated NT-proB-type Natriuretic Peptide (BNP) in Children with Creatine Transporter Deficiency (CTD)

St. Charles High School (Maryland)

Preceptors: Mr. John Perreault, Dr. Simona Bianconi

LCH-194 Francess Odibo

Implications of Placental Epigenetic Aging on Fetal Development and Maternal Outcomes

University of California, Berkeley (California)

Preceptors: Dr. Fasil Tekola-Ayele, Dr. Tsegaselassie Workalemahu, Dr. Marion Ouidir

LCH-195 Isaac Oh

Optimizing a Zebrafish Brain Atlas in a Lightweight Web Browser along with Virtual Reality

Virginia Polytechnic Institute and State University (Virginia)

Preceptor: Dr. Harold Burgess

LCH-196 Aaron Ouyang

Structural and Functional Classes of Higher Order Olfactory Neurons in an Insect Model System

College Preparatory School (California)

Preceptors: Dr. Zane Aldworth, Dr. Mark Stopfer

LCH-197 Cameron Paranzino

Characterization of a Genetic Strategy to Selectively Target GABAergic Interneurons Located in the Lacunosum Moleculare Subfield of Rodent Hippocampus

Walter Johnson High School (Maryland)

Preceptors: Dr. Chris McBain, Dr. Ramesh Chittajallu

LCH-198 Jeremy Popowitz

Identifying Regulatory Factors for Axonal Transport Using Zebrafish Lateral Line Axon Terminal Swellings

American University (District of Columbia)

Preceptor: Dr. Katie Drerup

LCH-199 Kaitlin Powell

Association between the Severity of Hypokalemia and Primary Aldosteronism

Tougaloo College (Mississippi)

Preceptors: Dr. Fady Hannah-Shmouni, Mr. Jancarlos Camacho

LCH-200 Megan Rescigno

Evaluation of the Thymus in Pediatric Patients with Cushing Disease

University of Nevada, Reno School of Medicine (Nevada)

Preceptors: Dr. Constantine Stratakis, Dr. Christina Tatsi, Dr. Georgios Papadakis

LCH-201 Vanessa L. Reyes

Characterizing Vascular Endothelial Cell RHOA Function in Zebrafish

Colonel Zadok Magruder High School (Maryland)

Preceptors: Dr. Laura M. Pillay, Dr. Brant M. Weinstein

LCH-202 Chunghwan Ro

Liaison between Secondary Messengers: Effect of ppGpp on the cAMP-CRP Regulon

College of William & Mary (Virginia)

Preceptors: Dr. Llorenç Fernandez-Coll, Dr. Michael Cashel

LCH-203 Erin Santos

The Effects of AP-4 Deficiency on Oligodendrocyte Maturation and Myelination

Colgate University (New York)

Preceptor: Dr. Doug Fields

LCH-204 Anaya Savoy

Phenotypical Characterization of ybil Gene in E. coli: A Gene with Unknown Function

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

Preceptors: Dr. Llorenç Fernandez Coll, Dr. Michael Cashel

LCH-205 Igor Semyonov

Black Lipid Membrane Deformation Energetics Probed by Gramicidin A Channel

George Mason University (Virginia)

Preceptors: Dr. Andrew Beaven, Dr. Alexander Sodt

LCH-206 Steven Spector

Copy Number Variations of PKA Catalytic Subunits Are Present in Isolated Micronodular Adrenocortical Disease (iMAD)

University of Maryland, College Park (Maryland)

Preceptors: Dr. Nikolaos Settas, Dr. Constantine Stratakis

LCH-207 Zachary Sturgeon

Determinants of AcrZ interaction with E. coli Multidrug Efflux Pumps

Santa Rosa Junior College (California)

Preceptors: Dr. Gisela Storz, Dr. Mona Orr, Ms. Franchesca Uribe-Rheinbolt

LCH-208 Biniam Teferedegn

Creating an UNC 13D and Baiap3 Double Mutant Zebrafish Line to Study Blood Vessel Development

Howard Community College (Maryland)

Preceptors: Dr. Scott Paulissen, Dr. Brant Weinstein

LCH-209 Samuel Teshome

Mechanistic Characterization of eIF1 N-terminal Tail (eIF1 NTT) in Start Codon Recognition

University of Rochester (New York)

Preceptors: Dr. Jagpreet Nanda, Dr. Jon Lorsch

LCH-210 Alexis Thornburg

A Yeast Model of Human MEHMO Syndrome Mutations in Translation Factor eIF2gamma

Case Western Reserve University (Ohio)

Preceptors: Dr. Sara Young-Baird, Dr. Thomas Dever

LCH-211 Clayton Tindell

Cushing's disease: Evaluation of the TGF-Beta Pathway in the Absence of Faf1 in the Pituitary Gland

John Carroll University (Ohio)

Preceptors: Mr. Niko Darby, Dr. Christina Tatsi, Dr. Constantine Stratakis

LCH-212 Harini Venkataganesh

A Requirement for Lysine-specific Histone Demethylase 1A (Lsd1) for T cell Development

University High School (Irvine, CA) (California)

Preceptors: Dr. Paul Love, Dr. LiQi Li, Mr. Daniel Stamos, Ms. Lauren Clubb

LCH-213 Rhianna Vergeer

Interaction of Weight Status and Loss of Control Eating Status on Measures of Psychosocial Distress among Youth

University of Michigan (Michigan)

Preceptors: Dr. Jack Yanovski, Ms. Deborah Altman, Ms. Sophie Ramirez, Mrs. Sarah Lemay Russell

LCH-214 Tarun Vipra

The Dynamics of Collective Cell Migration Explored via Chemical Inhibition of Rho Kinase and Arp2/3 Complex in Zebrafish Embryos

University of Virginia (Virginia)

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

LCH-215 Alythia Vo

Delineating Circuitry That Mediates Neural Crosstalk in Gustation in D. melanogaster

University of Maryland, College Park (Maryland)

Preceptors: Dr. Bo-mi Song, Dr. Mark Stopfer

LCH-216 Mariana Voudouri

The Utility of IGF1 in the Evaluation of Children with Endogenous Hypercortisolemia

Icahn School of Medicine at Mount Sinai (New York)

Preceptor: Dr. Christina Tatsi

LCH-217 James Wang

Computational Analysis of Chromosome Conformation Capture to Reveal Principles of Gene Regulation

University of California, Los Angeles (California)

Preceptors: Dr. Pedro Rocha, Dr. Joyce Thompson

LCH-218 Manahel Zahid

Investigation of a Mouse Macrophage Protein That Restricts Intracellular Replication of Legionella

University of Maryland, College Park (Maryland)

Preceptors: Dr. Devanand Bondage, Dr. Matthias Machner

National Institute on Drug Abuse (NIDA)

LCH-219 Ferdinand Anokwuru

Developing an Analytic Framework for the Prediction of HIV Diagnoses in Baltimore, Maryland Using Machine Learning Methods

Morgan State University (Maryland)

Preceptors: Dr. Albert Burgess-Hull, Dr. David Epstein

LCH-220 Aneesh Bal

Known Unknowns: Differentiating the Effects of Risk and Uncertainty on Goal-directed Behavior

Michigan State University (Michigan)

Preceptors: Dr. Kaue Costa, Dr. Geoffrey Schoenbaum

LCH-221 Andrew Belilos

The Role of the Olfactory Tubercle in Fentanyl-induced Locomotor Sensitization and Conditioned Place Preference in Mice

University of Notre Dame (Indiana)

Preceptors: Dr. Khaled Moussawi, Mrs. Mariamagdalena Ortiz

LCH-222 Barbara Benowitz

The Effects of Medial Prefrontal Cortex Self-stimulation on Learning in Mice

Gettysburg College (Pennsylvania)

Preceptors: Dr. Ahmed Badawi, Mr. Reuben Don, Dr. Satoshi Ikemoto

LCH-223 Emilie Cheng

Non-canonical Intracellular Action of Cocaine at the Sigma-1 Receptor

Johns Hopkins University (Maryland)

Preceptors: Dr. Nino Gogvadze, Dr. Tsung-Ping Su

LCH-224 Benvindo Chicha

Examining the Roles of D1 and D2 Nucleus Accumbens Neurons in Reward

Bowie State University (Maryland)

Preceptors: Dr. Satoshi Ikemoto, Mr. Christian Potter

LCH-225 Jae Choi

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

Johns Hopkins University (Maryland)

Preceptors: Dr. Bruce Hope, Dr. Rajtarun Madangopal

LCH-226 Myra Dada

The Effects of Zinc Availability on Cocaine-induced Locomotor Sensitization

University of Chicago (Illinois)

Preceptors: Dr. Juan Gomez, Dr. Mike Michaelides

LCH-227 Meena Deshpande

Ventral Tegmental Area Glutamatergic Inputs to Medial Prefrontal Cortex Drive Aversion

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Hui-Ling Wang, Dr. Marisela Morales

LCH-228 Bryan Dong

Examination of NAc D1- and D2-MSN Ensembles during Compulsive Sucrose Seeking

Gilman School (Maryland)
Preceptors: Dr. Craig Werner, Dr. Da-Ting Lin

LCH-229 Orlando Espinoza

Colocalization of Lateral Hypothalamic Neuropeptides and Glutamatergic Neurons Projecting to the Ventral Tegmental Area

Johns Hopkins University (Maryland)
Preceptors: Dr. M. Flavia Barbano, Dr. Marisela Morales

LCH-230 Anjali Gajendiran

Characterization and Output of Parvalbumin Expressing Neurons of the Anterior Hypothalamic Area

Centennial High School (Maryland)
Preceptors: Dr. Brenton Laing, Dr. Yeka Aponte

LCH-231 Maria Garcia

Characterizing Fos-expressing Neuronal Ensembles in Prefrontal Cortex following Cocaine Place Conditioning

Albright College (Pennsylvania)
Preceptors: Dr. Leslie Whitaker, Ms. Courtney Cann

LCH-232 Soham Ghoshal

Role of Orbitofrontal Cortex in Relapse to Fentanyl Seeking after Food Choice-induced Voluntary Abstinence

Hunter College (New York)
Preceptors: Dr. David Reiner, Dr. Yavin Shaham

LCH-233 Kirsten Grant

VTA Photostimulation of Glutamatergic Projections from the Parabrachial Nucleus Drives Aversion

Stevenson University (Maryland)
Preceptors: Dr. Smriti Mongia, Dr. Hui-ling Wang, Dr. Marisela Morales

LCH-234 McKenzie Hall

In silico to in vitro: Identification of an ERS-containing Protein and its Response to ER Calcium Depletion

Aberdeen High School (Maryland)
Preceptors: Dr. Emily Wires, Dr. Brandon Harvey

LCH-235 Brittany Hayes

Nicotine Dose- and Exposure Age-dependent Changes in nNicotinic Acetylcholine Receptor Densities: A Whole Brain Analysis

Towson University (Maryland)
Preceptor: Dr. Robin Keeley

LCH-236 Cassandra Jennings

Genetic Associations of Reduced Brain Volume and Cortical Thickness in Male and Female Smokers

Rice University (Texas)

Preceptors: Dr. Xiaoyu (Sherry) Ding, Dr. Elisabeth Caparelli, Dr. Elliot Stein, Dr. Osama Abulseoud

LCH-237 Suyeon Ju

3D Reconstruction Reveals Release of Glutamate and GABA from Same Axon Terminals in Lateral Habenula

Johns Hopkins University (Maryland)

Preceptor: Dr. Steven Zhang

LCH-238 Grace Lechmann

Nicotine Dose and Exposure Age Change Alpha 7 Nicotinic Acetylcholine Receptor Densities across the Rat Brain

University of Maryland, College Park (Maryland)

Preceptor: Dr. Robin Keeley

LCH-239 Gustavo Mejias-Torres

Opioid-induced Respiratory Depression in Rats: Characterization and Data Analysis

Hereford High School (Maryland)

Preceptors: Dr. Renata Marchette, Dr. Leandro Vendruscolo

LCH-240 Radwan Mezghanni

The Effect of Focal Transcranial Magnetic Stimulation (TMS) on Glucose Uptake in Rat Motor Cortex

Centennial High School (Maryland)

Preceptors: Dr. Hanbing Lu, - Sam Cermak

LCH-241 Hannah Morgan

Periaqueductal Gray Inputs to the VTA: Electrophysiological Characterization

College of New Jersey (New Jersey)

Preceptors: Dr. Carlos Mejias-Aponte, Dr. Marisela Morales

LCH-242 Joseph Nguyen

The iDISCO-SMART Pipeline for Whole Brain Activity Mapping following Incubation of Palatable Food Seeking

College of William and Mary (Virginia)

Preceptors: Dr. Rajtarun Madangopal, Dr. Jennifer Bossert, Dr. Yavin Shaham

LCH-243 Gabrielle O'Brien

Sex Differences in Dorsal Root Ganglia Ion Channels Relevant to Neuropathic Pain

University of Maryland, College Park (Maryland)
Preceptors: Dr. Tsung-Ping Su, Dr. Hsiang-En Wu

LCH-244 Sruti Pari

Dissociating Nicotine Reward vs. Aversion: Nicotinic Receptor Subunit Distribution in the Ventral Tegmental Area

Dartmouth College (New Hampshire)

Preceptors: Ms. Bree Humburg, Dr. Chloe Jordan, Dr. Zheng-Xiong Xi

LCH-245 Nayely Rivera-Lavaire

GABAergic Inputs to Dorsal Raphe VGlut3 Neurons

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Hui-Ling Wang, Dr. Bing Liu, Dr. Marisela Morales

LCH-246 Ibrahim Sartaj

Pathway-specific Synaptic Changes following Chronic Mild Unpredictable Stress in Adolescent Rats

Prince George's Community College (Maryland)

Preceptors: Dr. Carl Lupica, Dr. Alex Hoffman, Dr. Kshitij Jadhav

LCH-247 Sreeja Varanasi

Development of a LC/MS Assay for the Measurement of Lipids in an Obesity Model

University of South Carolina (South Carolina)

Preceptors: Dr. Amina Woods, Dr. Ludovic Muller, Dr. Shelley Jackson

LCH-248 Ray Wang

Glial CB1 Receptor Involvement in Cannabinoid-induced Tetrad Effects in Mice

University of Virginia (Virginia)

Preceptors: Dr. Guo-Hua Bi, Dr. Zheng-Xiong Xi

National Institute on Deafness and Other Communication Disorders (NIDCD)

LCH-249 Sarah Allen

Uncovering the Expression Profile of the Bhlhe40 Gene during Inner Ear Development

Colgate University (New York)

Preceptors: Dr. Braulio Peguero, Dr. Matthew Kelley

LCH-250 Brynae Harrod

Using Zebrafish to Understand How Presynaptic Function Contributes to Neomycin-induced Hair Cell Death

Capital City Public Charter School (District of Columbia)

Preceptors: Ms. Daria Lukasz, Ms. Hiu Wong, Dr. Katie Kindt

LCH-251 Cecilia Lacey

Amikacin Ototoxicity: Risk Factors and Sensitivity of Grading Scales

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Carmen Brewer, Dr. Chris Zalewski

LCH-252 Sandy Reynolds

Analysis of BMP7 through CRISPR technology

Prairie View A&M University (Texas)

Preceptor: Dr. Matt Kelly

LCH-253 Riya Singh

Quantification and Intensity Analysis of Multichannel smFISH Signal in Mammalian Stria Vascularis

Cornell University (New York)

Preceptors: Dr. Michael Hoa, Mr. Ian Taukulis, Dr. Rafal Olszewski

National Institute of Dental and Craniofacial Research (NIDCR)

LCH-254 Madeleine Daily

Metabolic Profiling of Mucosal and Exocrine Tissues in Oral Chronic Graft-versus-Host Disease

Columbia University College of Dental Medicine (New York)

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

LCH-255 Jonathan Gunasti

Smad7 Is Differentially Expressed in CD4+ and CD8+ Regulatory T Cells

Pomona College (California)

Preceptors: Dr. Liliana Patino-Molano, Dr. Wanjun Chen

LCH-256 Bakey Kouanda

Optimization Of Immunohistochemistry Markers and Quantum Dots for Clinical Investigations

University of Connecticut (Connecticut)

Preceptors: Dr. Jacqueline Mays, Dr. Ana Costa da Silva, Mr. Joshua Dodge

LCH-257 Ellie Spector

Calcified Enteses Are a Feature of FGF23-mediated Hypophosphatemia due to Tumor-induced Osteomalacia

Colby College (Maine)

Preceptor: Dr. Rachel Gafni

National Institute of Environmental Health Sciences (NIEHS)

LCH-258 Mythri Ambatipudi

Peripheral Blood Transcriptomic Analysis of Dermatomyositis and Systemic Lupus Erythematosus

Harvard University (Massachusetts)

Preceptors: Dr. Lisa Rider, Dr. James Ward

LCH-259 Jonathan Chen

Stress Is a Potential Risk Factor for the Development of Myositis and a Subset of Its Clinical Phenotypes

Case Western Reserve University (Ohio)

Preceptors: Dr. Adam Schiffenbauer, Dr. Frederick Miller

LCH-260 Kevin Liu

The Upstream Regulators of GLIS3 in Kidney Development

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Chitragda Srivastava, Dr. Anton Jetten, Dr. Hong Soon Kang

LCH-261 Alexandra Martinez Lopez, Emma Garval

Why Happy Hour Isn't So Happy: Alcohol Consumption Related to Faster Aging

Wellesley College (Massachusetts), Scripps College (California)

Preceptors: Dr. Jacob Kresovich, Dr. Jack Taylor

LCH-262 Andy Mendoza

Identification of Interferent Chemicals by Technology and Assay Platform Using the Tox21 Data

Appalachian State University (North Carolina)

Preceptors: Dr. Alexandre Borrel, Dr. Nicole Kleinstreuer

National Institute of Mental Health (NIMH)

LCH-263 Boluwatife Aladesuru

The Importance of Cultural Competency in Human Subjects Research: Diction, Dress, and Diagnosis

Princeton University (New Jersey)

Preceptors: Dr. Francis McMahon, Dr. Layla Kassem, Ms. Emily Besancon, Ms. Laura Sheridan

LCH-264 Bryan Alvarez-Carcamo

The Effect of Stress on the Expression of the Opioid Peptide Dynorphin in the Nucleus Accumbens

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Huikun Wang, Dr. Hugo Tejeda

LCH-265 Abraham Arzola

Attempt to identify neural Substrates of Eclosion

University of Texas at El Paso (Texas)

Preceptors: Dr. Benjamin White, Dr. Haojiang Luan

LCH-266 Vishal Bhaia

Modeling Population Receptive Fields across the Visual Cortex

University of California, Davis (California)

Preceptors: Dr. Chris Baker, Dr. Edward Silson, Dr. Susan Wardle

LCH-267 Bess Bloomer

Does Memory Recency Modulate Anterior and Posterior Hippocampal Contributions to Autobiographical Retrieval?

University of Maryland, College Park (Maryland)

Preceptors: Dr. Alex Martin, Dr. Adrian Gilmore

LCH-268 Andrea D'Souza

Heart Rate Variability as an Index of Parasympathetic Activation during Sleep in Children with ASD

University of Maryland, College Park (Maryland)

Preceptors: Dr. Emma Condy, Dr. Audrey Thurm, Dr. Ashura Buckley

LCH-269 Noah Daniel, Teddy Daniel

Who Gets Better? Factors Affecting Patient Outcome in a Schizophrenia Research Subject Population

Dartmouth College (New Hampshire), Brown University (Rhode Island)

Preceptors: Dr. Daniel Eisenberg, Dr. Karen Berman

LCH-270 Teddy Daniel, Noah Daniel

Predicting the Past: Hypothesized Schizophrenia Cognitive Trajectory Subgroups Based on Adult Test Data Show Expected Differences in Developmental History

Brown University (Rhode Island), Dartmouth College (New Hampshire)

Preceptors: Dr. Dwight Dickinson, Ms. Amy Lieberman, Dr. Karen Berman

LCH-271 Hannah Davidson

Depression during Perimenopause: Relationship to Life Events

Hampshire College (Massachusetts)

Preceptors: Dr. Ella Hong, Dr. Pedro Martinez, Dr. Peter Schmidt

LCH-272 Allison DePuyt

Innate Immunity at the Blood-Brain Barrier following Chronic Stress

Colgate University (New York)

Preceptors: Dr. Stacey Kigar, Dr. Miles Herkenham

LCH-273 Apoorva Dhanala

The Effects of Stress on Information Processing in Brain Reward Circuitry during Motivational Behavior

University of Georgia (Georgia)

Preceptors: Dr. Victor Correa, Dr. Hugo Tejeda

LCH-274 Peter Ehmann

Canonical Correlation Analysis of Reward and Inhibitory Brain Activation in Adolescents

Rutgers University (New Jersey)

Preceptors: Dr. Katharina Kircanski, Dr. Daniel Pine, Dr. Anderson Winkler

LCH-275 Zakariya Gordon

Prior Attack Experience Influences Future Attack Behavior through Potentiation of Medial Amygdala Circuits

Montgomery Blair High School (Maryland)

Preceptors: Dr. Jacob Nordman, Dr. Zheng Li

LCH-276 Hilarie Hannigan

Self-reported Sleep and Suicide Risk: Interim Results from the Neurobiology of Suicide Study

Heritage University (Washington)

Preceptors: Dr. Elizabeth Ballard, Dr. Carlos Zarate

LCH-277 Ananya Jambhale

MIR137 Host Gene Expression and the Effects of Schizophrenia Risk-associated SNPs in Postmortem Human Brains

Cornell University (New York)

Preceptors: Dr. Barbara Lipska, Dr. Stefano Marenco, Dr. Ningping Feng

LCH-278 Shawn Kamboj

Modeling Pathology of Smith-Magenis Syndrome (SMS) Using iPSC-derived Neural Progenitor Cells

University of California, Davis (California)

Preceptors: Dr. Francis McMahon, Dr. Sevilla Detera-Wadleigh, Dr. Francis Gordovez, Mr. Bryce England

LCH-279 Sara Kirmani

Assessment of Audiogenic Seizure Susceptibility in Tuberous Sclerosis and Fragile X Syndrome Double Knockout Mice

University of Virginia (Virginia)

Preceptors: Dr. Rachel Sare, Dr. Carolyn Smith

LCH-280 Stephen Lyons

Compliance Training in Marmosets

University of Maryland, College Park (Maryland)
Preceptors: Mr. Ryan McCarragher, Dr. James Pickel

LCH-281 Mary Ashley Mckay

Is Fibrinogen a Causal Link between Inflammation and Chronic Stress Susceptibility?

Illinois State University (Illinois)

Preceptors: Dr. Michael Lehmann, Dr. Miles Herkenham

LCH-282 Matthew Miller

Behavioral Changes in Septal Lesioned Male and Female Rats

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Gurueswar Nagarajan, Dr. Yogita Chudasama

LCH-283 Briana Murray

The Challenges of Diagnosing Autism Spectrum Disorder in Children with Smith-Lemli-Opitz Syndrome

Salisbury University (Maryland)

Preceptors: Dr. Audrey Thurm, Dr. Cristan Farmer

LCH-284 Anna Pearson

Morphometric Analysis of Cortical Neurons in Subcortically Lesioned Male and Female Rats

DePauw University (Indiana)

Preceptors: Dr. Gurueswar Nagarajan, Dr. Yogita Chudasama

LCH-285 Emily Ray

Targeting Area-dependent Presynaptic Ensembles of Cortical Pyramidal Neurons in the Primary Sensory Cortex

Washington University in St. Louis (Missouri)

Preceptors: Dr. Soohyun Lee, Dr. Jia Qi

LCH-286 Peter Riley

Implementation of Data Pipeline That Automates Whole-brain Images Cell Count

George Washington University (District of Columbia)

Preceptors: Dr. Sarah Williams Avram, Dr. Ted Usdin

LCH-287 Victoria Rooke

Inhibitory Control as a Potential Target for the Treatment of Irritability

University of Maryland, College Park (Maryland)

Preceptors: Dr. Melissa Brotman, Dr. Elise Cardinale

LCH-288 Nikhil Sahni

Changes in Cortical Responses Caused by Learning Novel Optogenetic Stimuli

University of Maryland, College Park (Maryland)

Preceptors: Mr. Paul LaFosse, Dr. Mark Histed

LCH-289 Leslie Schneider

Brain Morphometry in Language Delayed Toddlers

Yale University (Connecticut)

Preceptors: Dr. Courtney Filippi, Dr. Daniel Pine

LCH-290 Roshan Shet

An Analysis of Objective Sleep Measures in Pediatric Neurodevelopmental Cohorts

University of Maryland, College Park (Maryland)

Preceptor: Dr. Ashura Buckley

LCH-291 Katie Shrout

Visualizing Neural Characteristics of Response Inhibition Using Magnetoencephalography

University of Maryland College Park (Maryland)

Preceptors: Dr. Allison Nugent, Ms. Linnea Sepe-Forrest, Dr. Fredrick Carver, Dr. Tom Holroyd

LCH-292 William Snyder

Implementation of Automated Large-scale Calcium Imaging Analysis Using Caiman

Bucknell University (Pennsylvania)

Preceptors: Dr. Soohyun Lee, Dr. Ana Lourenco Inacio, Mr. Jonathan Krynitsky

LCH-293 Pooja Varma

Behavioral Characterization of a Conditional Oxytocin Receptor Knockout Mouse

Nova Southeastern University (Florida)

Preceptors: Dr. Scott Young, Dr. Adi Cymerblit-Sabba

LCH-294 Queenie Wang

Characterization of the Projection of Medial Prefrontal Cortex Dynorphin-expressing Cells and Their Expression of Dopamine Receptors

Tulane University (Louisiana)

Preceptors: Dr. Huikun Wang, Dr. Hugo Tejeda

LCH-295 Elizabeth Wat

Using Nonconventional Methods to Understand What Everyone Else Is Thinking: An fMRI Study

University of Virginia (Virginia)

Preceptors: Dr. Peter Molfese, Dr. Emily Finn, Dr. Peter Bandettini

LCH-296 Katy Werwath

Finding the Optimal Euler Number Threshold to Classify the Quality of Cortical Surface Reconstructions

Maggie Walker Governor's School (Virginia)

Preceptors: Dr. Anderson Winkler, Dr. Daniel Pine

LCH-297 Jiali Zhang

Comparing fMRI and MEG Brain Activity Recordings to Activations of Deep Neural Networks Trained on Variations of ImageNet

Johns Hopkins University (Maryland)

Preceptors: Dr. Martin Hebart, Dr. Christopher Baker

Clinical Center (CC)

PM-1 Vatsal Agarwal

Weakly-supervised Lesion Segmentation Using Co-segmentation and Adversarial Learning

University of Maryland, College Park (Maryland)

Preceptors: Dr. Youbao Tang, Dr. Ronald Summers

PM-2 Arjun Ashok

Uncertainty in Radionuclide Therapy

University of Rochester (New York)

Preceptor: Dr. Roberto Maass-Moreno

PM-3 Francesca Bonetta-Misteli

Modeling Cryoablation Isotherms and Predictors in a Bench Model

University of Washington in St. Louis (Missouri)

Preceptors: Dr. Quirina De Rooter, Dr. Brad Wood

PM-4 Monica Bonilla

Comparison of Automated vs. Manual Bone Age Assessments in a Cohort of Patients with Classic Congenital Adrenal Hyperplasia

College of William and Mary (Virginia)

Preceptors: Dr. Ashwini Mallappa, Dr. Deborah Merke

PM-5 Camella Carlson

Development and Characterization of Immune-modulating Drug-eluting Beads for Transarterial Tumor Embolization

Texas A&M University (Texas)

Preceptors: Dr. Ayele Negussie, Dr. Andrew Mikhail, Dr. Brad Wood

PM-6 Anna Christou

Characterization of Radiofrequency-induced Thermal Changes via Conductive Devices in a Thermochromic Phantom

Columbia University (New York)

Preceptors: Dr. John Karanian, Dr. Brad Wood

PM-7 Lucas Folio

Self-paced Treadmill Control Using a Commercially Available Motion Tracking System

Walt Whitman High School (Maryland)
Preceptor: Mr. Andrew Gravunder

PM-8 Divya Gandla

Prediction of Known and Novel Blood Antigen Variants Using Whole Genome Sequencing in Sickle Cell Disease Patients

Columbia University (New York)

Preceptors: Dr. Celina Montemayor-Garcia, Dr. Harvey Klein

PM-9 William Giovanini

ITC Poster Office Management and User Documentation with Database Programming

University of Maryland, College Park (Maryland)

Preceptor: Ms. Sharon McDowney

PM-10 Anna Goff

Hospital-based Survey of Patients' and Families' Experiences with Ethical Questions: Preliminary Results

Case Western Reserve University (Ohio)

Preceptors: Dr. Marion Danis, Dr. Christine Grady

PM-11 Julie Goldberg

Assessment of Communication in Traumatic Brain Injury (TBI): Sex-related Differences in Conversation

George Washington University (District of Columbia)

Preceptor: Mr. Adam Politis

PM-12 Smita Gopalakrishnan

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

Arizona State University (Arizona)

Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

PM-13 Nikhil Goyal

Secure Digital Data Management Interface for Cancer Trials: ENABLE 3.0

University of Maryland, College Park (Maryland)

Preceptors: Dr. Les Folio, Dr. Huy Do

PM-14 Jonthan Ham

Behavioral Analysis of an Upper Limb Task in Children With and Without Bilateral Cerebral Palsy

Northern Virginia Community College (Virginia)

Preceptors: Dr. Diane Damiano, Dr. Thomas Bulea

PM-15 Kimia Heydari

Challenges Faced by Community Research Workers: Scoping Review

Columbia University (New York)
Preceptor: Dr. Annette Rid

PM-16 Gazi Inkiyad

Doxorubicin Distribution in Woodchuck Liver Tumors following Transarterial Chemoembolization with Radiopaque Drug-eluting Beads

City College of New York (New York)
Preceptors: Dr. Andrew Mikhail, Dr. Bradford Wood

PM-17 Ethan Kallenberger

Does Blood Warming for Transfusion Increase Hemolysis in Red Blood Cell Concentrate?

Kansas State University (Kansas)
Preceptors: Dr. Kathleen Conry-Cantilena, Dr. Kamille West

PM-18 Charity Lackey

Psychological and Inflammatory Measures of Stress in Adolescent and Emerging Adult Black Females: A Scoping Review

University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Gwen Wallen, Dr. Cheryl Giscombe, Dr. Nicole Farmer, Dr. Alyssa Brooks

PM-19 Bo Lan

The Analysis of ACKR1 Genetic Variation and Haplotype Diversity Provided by the 1000 Genomes Project

Tufts University (Massachusetts)
Preceptors: Dr. Kshitij Srivastava, Dr. Willy Flegel

PM-20 Katherine Li

Mass Spectrometric Analysis of 3,5-Diiodothyronine in Serum

Purdue University (Indiana)
Preceptors: Dr. Steven Soldin, Mr. Brian Stolze

PM-21 Jia Liang

Improved Pneumonia Detection Using Machine Learning Based Bone Suppression in Chest Radiographs

University of Tennessee at Knoxville (Tennessee)
Preceptors: Dr. Yuxing Tang, Dr. Ronald Summers, Dr. Ronald Summers

PM-22 Margaret McGurn

Regulation of TNF-alpha-induced Inflammatory Responses in Human Pulmonary Microvascular Endothelial Cells by Resolvin D1

University of Notre Dame (Indiana)
Preceptors: Dr. Anthony Suffredini, Dr. Salina Gairhe

PM-23 Isabella Nelson

Predictors of Weight Loss during a Ketogenic vs Control Diet Intervention for Alcohol Withdrawal

University of Pittsburgh (Pennsylvania)

Preceptors: Mrs. Shanna Yang, Dr. Amber Courville, Mrs. Sara Turner

PM-24 Andy Nguyen

Improving Radiologists' Engagement within RADIS by Aligning Work Assignments with Staff Career Goals

George Washington University School of Medicine (District of Columbia)

Preceptor: Dr. Jamie Marko

PM-25 Christine Nguyen

Nursing Considerations for Patients with Chronic Granulomatous Disease Post Stem Cell Transplant

George Mason University (Virginia)

Preceptors: Ms. Mary Myers, Mr. Paul Wong

PM-26 Rose Pagano

MRI Energy Deposition (SAR) in Patients' Post Deep Brain Stimulation Implantation

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Nadia Biassou, Dr. Mohammad Bagheri, Dr. Sunder Rajan

PM-27 Carolyn Rasmussen

Comparison of Electrocortical Activity during Different Treadmill Walking Conditions in Children With and Without Unilateral Cerebral Palsy

Indiana University (Indiana)

Preceptors: Dr. Diane Damiano, Dr. Thomas Bulea, Mr. Matthew Short

PM-28 Thomas Risoleo

Can Granulocyte Therapy Improve Survival in a Canine Model of Sepsis

Tufts University (Massachusetts)

Preceptors: Dr. Steve Solomon, Ms. Jing Feng, Dr. Charles Natanson

PM-29 Victor Riveiro

Comparison of Two Inpatient Functional Assessments

University of Maryland, College Park (Maryland)

Preceptor: Dr. Minal Jain

PM-30 Victor Rong

Vector Integration Site Analysis of Chimeric Antigen Receptor (CAR) T Cells

Virginia Commonwealth University (Virginia)

Preceptors: Dr. David Stroncek, Dr. Ping Jin

PM-31 Deepak Salem

Somatic Mutation Analysis of Bone Marrow Disease Progression in GATA2 Deficiency Using FFPE Samples

Lake Erie College of Osteopathic Medicine (Pennsylvania)

Preceptors: Dr. Weixin Wang, Dr. Katherine Calvo

PM-32 Aarushi Shah

Ethical Challenges in Clinical Trials During the 2014-2016 Ebola Epidemic: Humanitarian Perspectives

Harvard College (Massachusetts)

Preceptor: Dr. Annette Rid

PM-33 Vaani Shah

Comparative Efficacy of WBC Differentials on an Automated Cell Counter vs. a Flow Cytometer

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jin Ping, Dr. Sandhya Panch

PM-34 Victoria Shen

Comparison of Volumetric Measurement versus RECIST 1.1 Measurement in Chordoma

Northeastern University (Massachusetts)

Preceptor: Dr. Mohammad Bagheri

PM-35 Brianna Smith

Why Are Teens Crowding Emergency Rooms? Cannabis Induced Psychosis

Stevenson University (Maryland)

Preceptor: Ms. Diane Lawrence

PM-36 Sai Aditya Sriram

Pancreas Aegmentation on CT Scans for Prediction of Clinical Outcomes

Rice University (Texas)

Preceptors: Dr. Yingying Zhu, Dr. Ronald Summers

PM-37 Yohan Sumathipala

Semi-automated RECIST Measurements Show Improved Consistency and Speed

University of Wisconsin School of Medicine and Public Health (Wisconsin)

Preceptors: Dr. Youbao Tang, Dr. Ronald M. Summers

PM-38 Hannah Tandon

Botulinum Toxin to Treat Endometriosis-associated Chronic Pelvic Pain: A Double-masked, Placebo-controlled Study

University of Nebraska Medical Center College of Medicine (Nebraska)

Preceptors: Dr. Pamela Stratton, Dr. Jay Shah, Dr. Barbara Karp

PM-39 Amy Tran

Do Cultures from Clinical Center International Patients or U.S. Patients Have More Antibiotic Resistance?

University of Maryland, College Park (Maryland)

Preceptor: Dr. Tara Palmore

PM-40 Luke Tucker

A User Interface for a Pediatric Knee Exoskeleton

North Carolina State University (North Carolina)

Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

PM-41 Sofia Vega

Analysis of Medication History Accuracy

University of Florida (Florida)

Preceptors: Dr. Jose Galvez, Ms. Andrea Beri

PM-42 Caroline Wang

SMURF1 and AKT Regulation of AIP1 Expression in a PHD2-silenced Microvascular Endothelial Cell Model of Pseudohypoxia

Clark University (Massachusetts)

Preceptors: Dr. Shuibang Wang, Dr. Robert Danner

PM-43 Katherine Wei

Host Alveolar Macrophage Response to Pneumocystis Murina Surface Proteins MSG and Beta-1,3 Glucan

University of California, Berkeley (California)

Preceptors: Dr. Shelly Samet, Dr. Joseph Kovacs

PM-44 Michael Wilson

Modeling Pharmacokinetic FDG Changes in Clinical Trials: Does the Treatment Change Background or Inflammation?

Florida State University (Florida)

Preceptor: Dr. Mark Ahlman

PM-45 Ting Yang

Epilepsy and Motherhood: What the Patient Needs to Know

Oregon Health & Science University (Oregon)

Preceptors: Dr. Eugena Bergvall, Dr. Sara Inati, Mr. Mauricio Campillay

PM-46 Joshua Zarb

IT Asset Lifecycle

Montgomery College (Maryland)

Preceptors: Mr. William Hernandez, Mrs. Theresa Eng

PM-47 Kiet Zhou

Optimization of a High Throughput Genetic Test for Ehlers-Danlos Syndrome in Patients with Congenital Adrenal Hyperplasia

New York Medical College (New York)

Preceptors: Dr. Qizong Lao, Dr. Deborah Merke

National Center for Complementary and Integrative Health (NCCIH)

PM-48 Akiri Brown

The Effect of Self-reported Stress and Discrimination on Responses to Acute Pain in a Diverse Sample

E.L. Haynes Public Charter School (District of Columbia)

Preceptors: Mr. Troy Dildine, Dr. Lauren Atlas

PM-49 Uriah Contreras

Expression and Distribution of Genetically Distinct Neurons Involved in Pain Modulation in the Subnuclei of the Central Amygdala

Fort Lewis College (Colorado)

Preceptors: Ms. Torri Wilson, Dr. Spring Valdivia, Dr. Yarimar Carrasquillo

National Cancer Institute (NCI)

PM-50 Anna Abraham

Biochemical Characterization of Tyrosyl-DNA-Phosphodiesterase 2 (TDP2) and its Inhibitors

Thomas S. Wootton High School (Maryland)

Preceptor: Dr. Evgeny Kiselev

PM-51 Sana Ahmad

Effect of Glucose and Fructose on Tumor Cell Growth and Radiation Response

Kennesaw State University (Georgia)

Preceptors: Ms. Olivia Preston, Dr. Sarwat Naz, Dr. James Mitchell

PM-52 Ahnaf Khan

Identifying Novel Immune Cell Subsets in 4T1 Tumor Model through Computational Analysis of scRNA-seq Data

University of Virginia (Virginia)

Preceptors: Dr. Christine Hollander, Dr. Li Yang

PM-53 Sahana Aiyer

Investigating the Inhibitory Role of Ac4C in Nuclease-mediated Degradation

Case Western Reserve University (Ohio)
Preceptors: Dr. Shalini Oberdoerffer, Dr. Masaki Hosogane

PM-54 Jaylene Alvarez

A Novel Procedure for the Quantitative Recovery of Small Intestine Intraepithelial Lymphocytes
University of Puerto Rico, Medical Sciences Campus (Puerto Rico)
Preceptors: Dr. Jung-Hyun Park, Dr. Praveen Prakhhar

PM-55 Patrick Aquino

Pseudo Labels Yield Better Mitochondrial Segmentation from FIB-SEM Datasets
Mount St. Mary's University (Maryland)
Preceptor: Dr. Kedar Narayan

PM-56 Kaval Aurora

Exploring Social Determinants of Health (SDOH) in State Comprehensive Cancer Control Plans
Boston University (Massachusetts)
Preceptor: Dr. Brenda Adjei

PM-57 Pegah Avazpour

Generation of a Drug Resistant TNIK Mutant to Assess Specificity of Inhibitors in LSCC
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Pedro Torres-Ayuso

PM-58 Justin Azmoodeh

Enhancing CD8 T Cell Antitumor Efficacy by Modification of Expression of Retinoblastoma Binding Protein 7
University of Maryland, College Park (Maryland)
Preceptors: Dr. Luca Gattinoni, Dr. Jessica Fioravanti, Mr. Patrick Grandinetti

PM-59 Anav Babbar

Drug Sensitivity in RepID Depleted Small Cell Lung Cancer Cell Lines
University of Maryland, College Park (Maryland)
Preceptors: Dr. Mirit Aladjem, Dr. Sang-min Jang

PM-60 Ascharya Balaji

Role of Dietary Interventions in the Efficacy of Anti-Pd1 Therapy and the Modification of Tumor Microenvironment
Mary Baldwin University (Virginia)
Preceptors: Dr. Marie Vetizou, Dr. Giorgio Trinchieri

PM-61 Victoria Bergstein

Development and Validation of Assays for Sleeping Beauty Transposon System in TCR Gene Therapy
Dartmouth College (New Hampshire)

Preceptors: Dr. Rachel Beyer, Dr. Adrian Cuenca

PM-62 Avigail Berkovic

Restoring Vision by Using Optogenetic Gene Therapy to Induce Photosensitivity in Bipolar Cells

Dawson College (Non-U.S.)

Preceptors: Ms. Emily Isko, Dr. Daniel Edelman

PM-63 Lynn Bi, Brandon Wang

Prolonged ex vivo Animation of Tumor-bearing Liver as the Ideal Tumor Model System

Columbia University (New York), University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Jonathan Hernandez, Dr. Tom Pohida, Mr. John Kakareka, Dr. Nicole Morgan

PM-64 Hassan Bokhari

Analysis of a Risk-associated SNP within the ORF of a Putative lncRNA in Colorectal Cancer Cells

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Ashish Lal, Ms. Sarah Lazar

PM-65 Noela Botaka

Evaluating Binding Profiles of Human Antibodies to Carbohydrates

University of Louisville (Kentucky)

Preceptors: Dr. Sebastian Temme, Dr. Jeff Gildersleeve

PM-66 Stefanie Brizuela

Mutation in Splicing Factor U2AF1 Governs RNA Processing

University of California, Santa Cruz (California)

Preceptors: Dr. Daniel Larson, Dr. Gloria Garcia

PM-67 Anna Brogan

Mutations in a Scaffolding Protein Attenuate Sporulation in Bacillus subtilis

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Brandon Anjuwon-Foster, Dr. Kumaran Ramamurthi

PM-68 Sravani Buddhavarapu, Arnav Sinha, Veda Nagubandi

Detecting Early Response to Immune Checkpoint Inhibitor Therapy Using Metabolic Magnetic Resonance Imaging

University of Minnesota (Minnesota), University of Maryland, College Park (Maryland), Georgetown University (District of Columbia)

Preceptors: Dr. Yu Saida, Dr. Rajani Choudhuri, Dr. John Cook, Dr. Murali Cherukuri

PM-69 Taylor Burnett

Understanding the Role of P-glycoprotein in Cancer Drug Resistance

Hampton University (Virginia)

Preceptors: Dr. Suresh Ambudkar, Dr. Andaleeb Sajid, Dr. Biebele Abel

PM-70 Natasha Burse

National Institute of Health Funded Multi-level Studies of Adherence to Treatment and Prevention across Various Chronic Conditions

Pennsylvania State College of Medicine (Pennsylvania)

Preceptors: Dr. Janet de Moor, Dr. Erica Breslau, Dr. David Clarke, Dr. Karen Lee

PM-71 Sabrina Cai

Determining Drug-specific Synthetic Lethality of Combination Cancer Therapies

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Yang Liu, Dr. Chunzhang Yang

PM-72 Nikki Cannon

Investigation of the Production of and Resistance to Antibiotics in Human Gut Microbiotas of Diverse Populations by Shotgun Metagenomic Analysis

Potomac State College (West Virginia)

Preceptors: Dr. John McCulloch, Dr. Giorgio Trinchieri

PM-73 Michael Cardone

Analysis of the Effect of Depletion of SBNO2 on EWS-FLI1 Transcriptional Activity

Florida Atlantic University (Florida)

Preceptors: Dr. Natasha Caplen, Dr. Allison Cross, Mr. Nicholas Aborenden

PM-74 Stephany Carrasco

Akt Inhibition Promotes foxo1 Activity and the Dark Zone State in Germinal Center B Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jagan Muppidi, Ms. Anne Albright

PM-75 Ann Chen

The Metabolic Rewiring of Drug-resistant Melanoma with Therapeutic Potential

Langley High School (Virginia)

Preceptor: Dr. Yanlin Yu

PM-76 Brian Chen

Evaluating the Impacts of Medicaid Expansion on Use and Costs of anti-HER2 Breast Cancer Therapies

University of California, Berkeley (California)

Preceptor: Dr. Michael Halpern

PM-77 Chaitali Chitnis

Deficiency of Mitochondrial Topoisomerase I (TOP1MT) Alters Fat Metabolism Promoting Non-alcoholic Steatohepatitis (NASH)

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andrea Baechler, Dr. Valentina Factor, Dr. Yves Pommier

PM-78 Krystal Christopher

Metabolic Syndrome and Stage of Breast Cancer at Diagnosis

University of Houston (Texas)

Preceptors: Dr. Paige Green, Dr. Jennifer Guida

PM-79 Lily Christou

Investigating the Interplay of CFBF-RUNX1 and Notch Signaling in Breast Cancer

National Cathedral School (District of Columbia)

Preceptors: Dr. Navdeep Malik, Dr. Jing Huang

PM-80 Sasha Coates-Park

The Inhibition of Smad 1/5 Phosphorylation by TGF-Beta

University of Maryland, College Park (Maryland)

Preceptors: Dr. Christina Stuelten, Dr. Ying Zhang

PM-81 Rachel Cohen

Developing a Cell Based System to Study Whole Chromosomal Aneuploidy by Using CRISPR/Cas9 Mediated Genome Editing

Touro College and University System (New York)

Preceptors: Dr. Darawalee Zong, Dr. Wei-Dong Chen, Dr. Thomas Ried

PM-82 Alex Coleman

Determining How HU Regulates Genes in Escherichia coli

Northern Virginia Community College (Virginia)

Preceptors: Dr. Subhash Verma, Dr. Sankar Adhya

PM-83 Frank Colon Matos

Childhood Leukemia Mortality Trends in the USA and Selected Latin American Countries: 2000 to 2015

Inter American University of Puerto Rico-San German (Puerto Rico)

Preceptor: Dr. Diana Withrow

PM-84 Eve Crompton

The Significance of p53-Regulated lncRNAs in the Context of Colorectal Cancer

Sherwood High School (Maryland)

Preceptors: Ms. Sarah Lazar, Dr. Daniel Edelman

PM-85 Michelle Degin

Immune Infiltration of Osteosarcoma and Associated Lung Metastasis

Oregon State University; Carlson College of Veterinary Medicine (Oregon)

Preceptors: Dr. Yu-Chou Tseng, Dr. Jing Huang

PM-86 Neehar Desai

Analysis and Interpretation of the Health Information National Trends Survey (HINTS) Cancer Data

Jesuit High School (Louisiana)

Preceptor: Dr. Richard Moser

PM-87 Selena Ding

Identification and Functional Characterization of Residues Critical to Antiviral Function of IFITM3

University of California, Berkeley (California)

Preceptors: Dr. Alex Compton, Dr. Kazi Rahman

PM-88 Catherine Domingo

Generation of p27 and p21 Knockout Mouse Embryonic Stem Cell Lines by CRISPR/Cas9 Targeting

Chapman University (California)

Preceptors: Dr. Sergio Ruiz Macias, Dr. Teresa Olbrich, Ms. Maria Vega, Ms. Nancy Lee

PM-89 Caleb Eickmann

Characterization of a Novel Phage Growth Inhibitor Present in Carbapenemase-resistant Klebsiella pneumoniae

Brown University (Rhode Island)

Preceptors: Dr. Manoj Rajaure, Dr. Sankar Adhya

PM-90 Sarah Eng

Human Proteomic Datasets Enable Global Analysis of Protein Phosphorylations Associated with CDK1 Activity in Cancer

University of Southern California (California)

Preceptors: Dr. Dunrui Wang, Dr. Douglas Lowy

PM-91 Zachary Farley

Correlates of Sunburn Experiences in CDC's SummerStyles 2018

University of Tennessee at Chattanooga (Tennessee)

Preceptor: Dr. Frank Perna

PM-92 Rivka Farrell

Effects of TNF- α on the Extracellular Matrix of Aggressive Thyroid Cancer Microenvironment and Drug Delivery

Bais Yaakov of Passaic High School (New Jersey)

Preceptors: Dr. Naris Nilubol, Dr. Myriem Boufraquech, Dr. Dipranjan Laha

PM-93 Michael Fei

Inferring Phylogenetic Tree Based on Single Cell Sequencing

Duke University (North Carolina)

Preceptors: Dr. Jianxin Shi, Dr. Xing Hua

PM-94 Sivia Feinstein

Elucidating the Synergistic Mechanism between Cereblon Modulation and MEK Inhibition in Neuroblastoma

Darchei Binah (Non-U.S.)

Preceptors: Dr. Marielle Yohe, Dr. Craig Thomas

PM-95 Lia Finch

Examining Neural Diseases through Mini Brain Organoid with Electron Microscopy

Walkersville High School (Maryland)

Preceptors: Ms. Ferri Soheilian, Dr. Wei Zheng, Dr. Natalia de Val Alda

PM-96 Cara Fliegel

Protection from Autoimmunity by Neutralizing the Biological Function of Interleukin 27

Oakdale High School (Maryland)

Preceptors: Dr. Julio Valencia, Dr. Howard Young

PM-97 Anyen Fon

Modulating the Response to Immune Checkpoint Blockade through the Regulation of Melanoma Differentiation

University of Maryland, Baltimore (Maryland)

Preceptors: Dr. Eva Perez-Guijarro, Dr. Glenn Merlino, Dr. Chi-Ping Day

PM-98 Krystal Franco

Investigating the Impact of DNA-PK Inhibitor NU7441 on CD8+ T Cells

University of Puerto Rico - Mayagüez (Puerto Rico)

Preceptor: Dr. Amanda Henning

PM-99 Leah Franklin

Peripheral Blood Immune Cells as a Surrogate for Antitumor Immune Response in Oncology Trials

University of Maryland, Baltimore County (Maryland)

Preceptors: Mrs. Jane Trepel, Dr. Sunmin Lee, Dr. Min-Jung Lee, Dr. Akira Yuno

PM-100 Elana Friedman

The Anti-differentiation Noncoding RNA (ANCR) Regulates Breast Cancer Transformation and Metastasis

Touro College (New York)

Preceptors: Ms. Meghali Goswami, Dr. Daniel Edelman

PM-101 Alexis Fritts

A Genome-wide Enhancer/Suppressor Screen for Arf1 Interacting Genes in Drosophila melanogaster

Shepherd University (West Virginia)

Preceptors: Dr. Chunmei Shi, Dr. Shree Ram Singh, Dr. Steven Hou

PM-102 Madison Fuller

Characterization of the Effect of NAMPT Inhibition on Cellular Metabolism in Pediatric Rhabdomyosarcoma

New Mexico State University (New Mexico)

Preceptors: Dr. Sameer Issaq, Mr. Choh Yeung, Dr. Christine Heske

PM-103 Austin Gable

Structure-Function Determinants of Antiadaptor, IraM, Mediated Regulation of General Bacterial Stress Activator

University of Cincinnati (Ohio)

Preceptors: Dr. Susan Gottesman, Dr. Arti Tripathi, Ms. Kylie Borden

PM-104 Lavanya Garnepudi

Repurposing and Characterization of HDAC and Proteasomal Inhibitors to Circumvent EGFR TKI Resistance in Lung Adenocarcinoma

University of Maryland School of Medicine (Maryland)

Preceptors: Dr. Tapan Maity, Dr. Udayan Guha

PM-105 Vineeth Garnepudi

DNA Damage-induced Necroptosis in Tumors

Centennial High School (Maryland)

Preceptors: Dr. Zheng-gang Liu, Dr. Chamila Kadigamuwa

PM-106 Tatiana Garrison

Xeroderma Pigmentosum and Trichothiodystrophy: A Diagnostic Odyssey

Howard University (District of Columbia)

Preceptors: Dr. Kenneth Kraemer, Dr. John Digiovanna, Mrs. Deborah Tamura, Dr. Sikandar Khan

PM-107 Laura Gayowski, Josephine Kievsky

Using Mathematical Modeling to Predict Incidence of Rare Disease

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

Preceptors: Dr. Randall Johnson, Dr. Brian Luke

PM-108 Heelah Gholian

Viral Exposure Signatures in Liver Cancer

Towson University (Maryland)

Preceptors: Dr. Xin W. Wang, Dr. Limin Wang

PM-109 Shoham Ghosh

A Novel miR-331-3p/ADAMTSL3 Axis Enhances Disease Aggressiveness in Resected Pancreatic Cancer Patients

University of Maryland, College Park (Maryland)

Preceptors: Dr. Shouhui Yang, Dr. Perwez Hussain, Dr. Perwez Hussain

PM-110 Calvin Godfrey

Specificity and Performance of Antibodies for CODEX, a New Technology for Multiplex Tissue Imaging

University of Maryland, College Park (Maryland)

Preceptors: Dr. Noemi Kedei, Dr. Jessie Chen

PM-111 Michael Gouzoulis

Mechanisms of NAMPT Inhibitor-induced Apoptosis in Ewing Sarcoma

University of Maryland, College Park (Maryland)

Preceptors: Mr. Choh Yeung, Dr. Christine Heske

PM-112 Archita Goyal

The Impact of a Child's Neurofibromatosis Type 1 (NF1) on the Parents' Relationship

Johns Hopkins University (Maryland)

Preceptors: Dr. Lori Wiener, Ms. Haven Battles, Dr. Brigitte Widemann, Dr. Lori Wiener

PM-113 Benjamin Grove

Unraveling Lineage-specific Transcription Factors That Drive Self-renewal and Differentiation in Neuroblastoma

Franklin and Marshall College (Pennsylvania)

Preceptors: Dr. Carol Thiele, Dr. Man Xu, Ms. Sukriti Bagchi, Ms. Sakereh Carter

PM-114 Rohini Guin

Evaluating the Effect of Drug Combinations in Proteasome Inhibitor-resistant Multiple Myeloma

Emory University (Georgia)

Preceptors: Dr. Snehal Gaiwad, Ms. Anaisa Quintanilla-Arteaga, Dr. Adriana Zingone, Dr. Beverly Mock

PM-115 Nikita Gupta

The Effect of KPT330 and Temozolomide on Radiation Therapy in Glioblastoma

Georgetown University (District of Columbia)

Preceptors: Dr. Jennifer Lee, Dr. Kevin Camphausen

PM-116 William Hajjar

Study of Thymocyte Development and Differentiation into $\alpha\beta$ T cells

James Madison University (Virginia)

Preceptors: Dr. Marco Craveiro, Dr. Alfred Singer

PM-117 Nicole Haynes, Lynn Bi

Investigation of XPO7 as a Therapeutic Target in Cholangiocarcinoma and Ovarian Cancer

University of Mary Washington (Virginia), Columbia University (New York)

Preceptor: Dr. Jonathan Hernandez

PM-118 Emily He

The Binding Mechanism of Centromere-binding factor 3 (CBF3) to the Yeast Nucleosome

Harvard College (Massachusetts)

Preceptors: Dr. Ruifang Guan, Dr. Yawen Bai

PM-119 Bryce Hendren-Santiago

The Role of Isoleucine 353 of ASAP1 in Linking Phosphoinositide Binding to GAP Activity

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Jian Xiaoying, Dr. Paul Randazzo

PM-120 Alyssa Henriquez

Investigating the Cell Surface Signaling of Interferon Lambda 4 and its Possible Role in Liver Cancer

Andrews University (Michigan)

Preceptors: Dr. Ludmila Prokunina-Olsson, Dr. Olusegun Onabajo, Ms. Joselin Vargas

PM-121 Chaz Hinzman

Characterization of Extracellular Vesicles Derived from Pancreatic Cancer Cells Treated with Transforming Growth Factor-Beta and Radiation Therapy

Georgetown University Medical Center (District of Columbia)

Preceptors: Mr. Bryce Killingsworth, Dr. Joshua Welsh, Dr. Amrita Cheema, Dr. Jennifer Jones

PM-122 Joseph Holden

Using CRISPR-Cas9 Genome Editing to Knock Out EPAC1/2 Proteins

University of Alabama (Alabama)

Preceptors: Dr. Ramiro Iglesias-Bartolome, Dr. James Hoy

PM-123 Jason Hong

LIM Domain Binding 1 Cooperates with MYCN to Suppress MYCN Amplified Neuroblastoma Cell Proliferation

Princeton University (New Jersey)

Preceptors: Dr. Zhihui Liu, Dr. Carol Thiele

PM-124 Yasaman Hosseini

A Portfolio Analysis of Technology Use Involving Sleep and Physical Activity in HBRB Funded Grants

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kara Hall, Dr. Pat Boyd

PM-125 John Hsu

Detecting Immunomarkers in Nf1 Mutated Mice

Amherst College (Massachusetts)

Preceptors: Dr. Karlyne Reilly, Dr. Souvik Karmakar

PM-126 Chloe Huelsnitz

Spousal Concordance in Genomic Screening Beliefs and Intentions and Spousal Influence on Individuals' Genomic Screening Intentions

University of Minnesota (Minnesota)

Preceptors: Dr. William Klein, Dr. Jennifer Taber, Dr. Erin Turbitt

PM-127 Julia Huff

Ubiquitination of MHC Class II by the E3 Ligase March-1

Ursinus College (Pennsylvania)

Preceptors: Dr. Paul Roche, Dr. Even Walseng

PM-128 Iris Indig

Targeting Hypoxia Downstream Signaling Protein, CAIX, for CAR-T Cell Therapy against Glioblastoma

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Jing Cui, Dr. Ping Zhuang

PM-129 Alexandra Ipanaque-Guembes

Investigating the Effects of Phosphorylation Mutants of TGF β Receptor I on Cellular Responses Induced by TGF β

Ohio State University (Ohio)

Preceptors: Dr. Ying Zhang, Dr. Birendra Kc

PM-130 Bailey Johnson

Using a Model of Zebrafish Melanoma to Study Brain Metastasis

University of Mary Washington (Virginia)

Preceptor: Dr. Kandice Tanner

PM-131 C. Paige Jones

Functional Validation of Bivalent Genes in MPNST Cells with Epigenetic Approaches

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Jack Shern, Dr. Xiyuan Zhang

PM-132 Ananth Josyula

Cryo-EM Studies of Macromolecular Complexes

Gilman School (Maryland)

Preceptors: Dr. Reinhard Grishammer, Dr. Jana Ognjenovic, Dr. Joseph Darling

PM-133 Michel Kabbash

Examining the Role of Mesothelin in Mouse Lung Adenocarcinoma Development

Oakland University William Beaumont School of Medicine (Michigan)

Preceptors: Dr. Qun Jiang, Dr. Raffit Hassan

PM-134 Melissa Kallarakal

Identification of Regulatory Genes Critical for Thymic Epithelial Cell Development

University of Maryland, College Park (Maryland)

Preceptors: Dr. Avinash Bhandoola, Dr. Jennifer Cowan, Dr. Yongge Zhao

PM-135 Ashwin Kammula

Uncovering the Role of DICER1 in Liver Cancer

University of Maryland, College Park (Maryland)

Preceptors: Dr. Dana Dominguez, Dr. Xin Wang, Dr. Julián Candia

PM-136 Naviya Kapadia

Rapid Identification and Modification of T-Cell Receptors Recognizing Tumor Neoantigens

Harker School (California)

Preceptors: Dr. James Yang, Dr. Kenichi Hanada, Mr. Nick Zhao

PM-137 Megana Kasavaraju

TNF Induces GM-CSF Production through TNF Receptor 2 in CD4 T Cells

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Muhammad Alam

PM-138 Priya Katyal

Genomic Landscape of Patients' Tumor Infiltrating Lymphocytes: Pre, During, and Post Selective TIL Therapy

St. Stephens and St. Agnes School (Virginia)

Preceptor: Dr. Todd Prickett

PM-139 Neal Kewalramani

Computer Simulation of the Micro-dose Calibrator

University of Maryland, College Park (Maryland)

Preceptor: Dr. Stephen Adler

PM-140 Laila Khorasani

The Contribution of Transcription Factor IRF-6 to Sex-based Differences in CD4+ T-Cell Functions

University of California, Los Angeles (California)

Preceptors: Dr. Vanja Lazarevic, Dr. Yuanyuan Gao

PM-141 Caleb Kim

Spatial Mapping of Immune Cells in 4T1 Mouse Tumors Treated with Irradiation and Anti-inflammatories

Winston Churchill High School (Maryland)

Preceptor: Dr. Stephen Lockett

PM-142 Nadia Kirmani

Development of Novel Inhibitors of SETD8 Methyltransferase That Promote p53 Tumor Suppressor Protein Reactivation

Duke University (North Carolina)

Preceptors: Dr. Harichandra Tagad, Dr. Victor Clause, Dr. Ettore Appella

PM-143 Zoey Kline

Chemotherapeutic Drug Screening to Target Stem Cell Induced Ras Tumors in Drosophila Kidney

Fairfield Area High School (Pennsylvania)

Preceptor: Dr. Shree Ram Singh

PM-144 Sruthi Kodali

Analysis of Molecular Differences between Endothelium-specific CD47-Knockout and Wild Type (WT) Mice

College of William and Mary (Virginia)

Preceptors: Dr. David Roberts, Dr. Kun Dong

PM-145 Amitesh Kotwal

Functional Proteogenomic Screens in Multiple Myeloma

Georgetown University (District of Columbia)

Preceptors: Dr. Ryan Young, Dr. Louis Staudt

PM-146 Bradley Krivit

Probing Lamin-Chromatin Interactions by Mutational Analysis in vitro

Georgetown University (District of Columbia)

Preceptors: Dr. Andria Schibler, Dr. Tom Misteli

PM-147 Benjamin Lee

Using Optical Tweezers to Map the Mechanical Properties of Cancer Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Woong So, Dr. Kandice Tanner

PM-148 Hanbin Lee

3D Printing as a Tool to Visualize Cell Biology at the Nanoscale

Urbana High School (Maryland)

Preceptor: Dr. Kedar Narayan

PM-149 Bryan Li

Optimization of ChIP-seq for FFPE Samples

Montgomery Blair High School (Maryland)

Preceptor: Dr. Fan Yang

PM-150 Christina Li

Meta-analysis of Gene Expression Data for Metastatic Breast Cancer

University of Michigan (Michigan)

Preceptor: Dr. Margaret Cam

PM-151 Haoran Li

Differential Effectiveness of Cancer-Targeting Drugs in 3D Culture

University of Maryland, College Park (Maryland)

Preceptors: Dr. Chih-Shia Lee, Dr. Ji Luo

PM-152 Winston Li

Longitudinal Analysis of Renal Preservation in Patients with Hereditary Kidney Cancer

Winston Churchill High School (Maryland)

Preceptor: Dr. Mark Ball

PM-153 Emily Liang

Comparing Strategies of Training Deep Learning Models for Cervical Cancer Screening

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kai Yu, Dr. Mark Schiffman

PM-154 Leah Liebman

Determining Difference in Growth Rate between Parental Cell Line and Vandetanib Resistant Line in Medullary Thyroid Carcinoma

Bnos Yisroel (Maryland)

Preceptors: Dr. John Glod, Mr. Christian Okafor, Dr. Robert Murphy, Ms. Sophia Khan

PM-155 Zhi-Wei Lin

Quantifying Nivolumab and Pembrolizumab Using ELISA

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Cody Peer, Dr. William Figg

PM-156 Lauren Loebach

Assessment of Clinical and Biomarkers of Response to Immune Checkpoint Inhibitor Therapy

Sherwood High School (Maryland)

Preceptor: Dr. Julius Strauss

PM-157 Elliot Lowe

Functional Implications of LRRC15 in Osteosarcoma Cells

Towson University (Maryland)

Preceptors: Dr. Sanjit Mukherjee, Dr. Paul Meltzer

PM-158 Michelle Lu

Dynamic 18F-DCFPyL PET/CT Imaging of Primary Prostate Cancer in Clinically High-risk Patients
University of California, Los Angeles (California)

Preceptors: Dr. Liza Lindenberg, Dr. Esther Mena Gonzalez, Dr. Ilhan Lim

PM-159 Adam Luo

Investigating the Hsp70-ZFX Chaperone-Client Interaction in Castration-resistant Prostate Cancer

River Hill High School (Maryland)

Preceptors: Dr. Frank Echtenkamp, Dr. Leonard Neckers

PM-160 Matthew Lynberg

Depletion of SCAMP3, a Mutant EGFR Target, Accelerates Tumor Proliferation and Increases EGFR-TKI Resistance in Lung Adenocarcinoma

University of California, Santa Barbara (California)

Preceptors: Dr. Abhilash Venugopalan, Dr. Udayan Guha

PM-161 Chelsea Maccow

Regulation of the Actin Cytoskeleton by a BAR Domain-containing Protein, ASAP1

University of North Carolina at Charlotte (North Carolina)

Preceptors: Ms. Anjelika Gasilina, Dr. Paul Randazzo

PM-162 Sanna Madan

Predicting Response to Immune Checkpoint Blockade Therapy with Transfer Learning

University of Maryland, College Park (Maryland)

Preceptor: Dr. Eytan Ruppin

PM-163 Frances Angela Maher

Investigating RNA-Platinum Binding in Cisplatin Resistant Cells

Brandeis University (Massachusetts)

Preceptors: Dr. Michael Gottesman, Dr. Sachi Horibata

PM-164 Amry Majeed

Histone Deacetylase Inhibitor Entinostat Increases PD-L1 Protein Expression in Small Cell Lung Cancer Cells

Sidney Kimmel Medical College at Thomas Jefferson University (Pennsylvania)

Preceptors: Dr. Azam Ghafoor, Dr. Anish Thomas, Dr. Yilun Sun

PM-165 Jessica Malow

Engineering Liver Cancer Targeted GPC3 CAR T-Cell Therapy

University of California, Berkeley (California)

Preceptors: Dr. Mitchell Ho, Dr. Dan Li

PM-166 Nicole Malow

The Role of CD47 in Erythroid Differentiation

University of California, Berkeley (California)

Preceptors: Dr. Rajdeep Banerjee, Dr. David Roberts

PM-167 Maraya Maynor

A Role Of Valosin-containing Protein (Vcp)/p97 in Repair Of Topoisomerase-mediated DNA Damage

Hampton University (Virginia)

Preceptors: Dr. Yilun Sun, Dr. Keli Agama

PM-168 Kayla McDonald

Elucidating the Modification Status of tRNAs in Response to Environmental and Metabolic Stress

Spelman College (Georgia)

Preceptors: Dr. Pedro Batista, Dr. Christina Fitzsimmons, Dr. Mariana Mandler

PM-169 Jason McFadden

Evaluation of IRF4 Gene Translocations in the Differential Diagnosis of Uncommon Hematopoietic Neoplasms

Dartmouth College (New Hampshire)

Preceptors: Dr. Svetlana Pack, Dr. Neval Ozkaya, Dr. Elaine Jaffe

PM-170 Pedro X. Medina

Analyzing Polymicrobial Interactions between Pseudomonas aeruginosa and Staphylococcus aureus

University of Puerto Rico Arecibo (Puerto Rico)

Preceptors: Dr. Anupama Khare, Dr. Tiffany Zarrella

PM-171 Shira Mencer

DNA Re-replication in Cells Overexpressing CDT1

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Mirit Aladjem, Dr. Haiqing Fu, Dr. Christophe Redon

PM-172 Marisa Morakis

Precision Medicine: Integration of DNA Methylation Profiling, FISH, DNA and RNA Sequencing into a Clinical Diagnosis

Bucknell University (Pennsylvania)

Preceptors: Dr. Svetlana Pack, Dr. Zied Abdullaev

PM-173 Jake Munch

Elucidating the Role of Flotillin-2 on the Growth of HER2-Amplified Breast Cancer

University of Texas at Dallas (Texas)

Preceptors: Dr. David Wisniewski, Dr. Stanley Lipkowitz

PM-174 Pujita Munnangi

Characterization of the Metastatic Niche in the Human Liver: Optimizing Sample Preparation for Advanced Imaging Techniques

Rice University (Texas)

Preceptors: Dr. Kirsten Remmert, Dr. Jonathan Hernandez

PM-175 Ryan Murphy

Does Adrenal Venous Sampling Predict a Resolution of Hypertension after Adrenalectomy for Primary Hyperaldosteronism?

Dickinson College (Pennsylvania)

Preceptors: Dr. Naris Nilubol, Dr. Dana Dominguez

PM-176 Veda Nagubandi, Sravani Buddhavarapu, Arnav Sinha

Ionizing Radiation (X-Rays) Induces Senescence in Cancer Cells

Georgetown University (District of Columbia), University of Minnesota (Minnesota), University of Maryland, College Park (Maryland)

Preceptors: Dr. Chandra Nagineni, Dr. Rajani Choudhuri, Dr. Murali Cherukuri, Dr. James Mitchell

PM-177 Elyse Nguyen

Analysis of the Role of Aminoacyl tRNA Synthetase Genes in Global Protein Synthesis and mRNA Specific Regulation of Translation in Cancer Cells

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Dipak Poria, Dr. Esta Sterneck

PM-178 Jessica Nguyen

Re-programming of Fibroblast into Multipotent Stem Cells Using CD47 Antagonists

James Hubert Blake High School (Maryland)

Preceptors: Dr. Sukhbir Kaur, Mr. Kyle Cicalese, Dr. David Roberts

PM-179 Emmanuel Nyong

Determining the Intracellular Location of Zirconium-89 after Labeling with Zirconium-89 Oxine Cell Tracking Agent for Positron Emission Tomography.

University of Texas at San Antonio (Texas)

Preceptors: Dr. Noriko Sato, Dr. Peter Choyke

PM-180 Deborah Ofosu

A Screen of SCLC Cell Lines for a Drug Combinatory Treatment

Lehman College (New York)

Preceptors: Dr. Haobin Chen, Dr. Anju Kumari, Dr. David Schrupp

PM-181 Daniel Oh

Characterization of Kaposi's Sarcoma Herpesvirus and Human Circular RNAs during Infection

University of Maryland, College Park (Maryland)

Preceptors: Dr. Joseph Ziegelbauer, Dr. Takanobu Tagawa, Dr. Anna Serquiña

PM-182 Christian Okafor

The Effects of MDR1 Inhibitors on the Growth Rate of Medullary Thyroid Cells in Combination with Vandetanib

Towson University (Maryland)

Preceptors: Dr. John Glod, Ms. Sophia Khan, Dr. Alex Pemov

PM-183 Qusay Omran

Identification of Small Molecules Targeting G-quadruplexes in the mTOR and n-MYC Promoter Regions

Yale University (Connecticut)

Preceptors: Dr. Mo Yang, Dr. John Schneekloth

PM-184 Samrat Pathak

Studying Interaction of Arf1 GTPase with Arf GTPase Activating Protein ASAP1

John F. Kennedy High School (Maryland)

Preceptors: Dr. Paul Randazzo, Dr. Neeladri Roy

PM-185 Batsheva Paul

Evaluating Therapeutic Agents for Hereditary Leiomyomatosis and Renal Cell Cancer-associated Renal Cell Carcinoma

University of Connecticut (Connecticut)

Preceptors: Ms. Susana Najera, Dr. Daniel Edelman

PM-186 Havisha Pedamallu

Exploring the Non-canonical Function of Programmed Death-Ligand 1 (PD-L1) in Lung Cancer

Washington University in St. Louis (Missouri)

Preceptors: Dr. Brid Ryan, Mr. Chris Grant

PM-187 Rahul Pemmaraju

Analysis of Amplification Patterns in Fusion-positive Rhabdomyosarcoma

Rutgers University (New Jersey)

Preceptors: Dr. Wenyue Sun, Dr. Frederic Barr

PM-188 Isabel Perera

Differentiation of the Optic Cup Organoid in Humans and Mice by TEM Imaging

Urbana High School (Maryland)

Preceptors: Ms. Christina Burks, Ms. Ziqiu Wang, Ms. Holly Chen, Mr. Anand Swaroop

PM-189 Abbigale Perkins

Novel Regulators of General Stress Responses in Escherichia coli

Howard University (District of Columbia)

Preceptors: Dr. Nadim Majdalani, Dr. Jiandong Chen, Dr. Erin Wall, Dr. Susan Gottesman

PM-190 Kyleigh Petersen

Investigating the Importance of PHB in T-cell Survival and Differentiation

College of Charleston (South Carolina)

Preceptor: Dr. Devikala Gurusamy

PM-191 Annie Pierce

Transition Readiness of Adolescents and Young Adults with Neurofibromatosis Type 1

George Washington University (District of Columbia)

Preceptors: Dr. Kari Struempf, Dr. Staci Martin, Dr. Pamela Wolters, Mrs. Mary Anne Tamula

PM-192 Karthik Pittala

The Functional Role of microRNA-497 in Malignant Pleural Mesothelioma (MPM)

University of Michigan (Michigan)

Preceptors: Dr. Chuong Hoang, Dr. Nathanael Pruett

PM-193 Madison Plaster

Identification of Potent Reactive Oxygen Species-generating Enzymes from Marine Aqueous Extracts

University of Akron (Ohio)

Preceptor: Dr. Carter Mitchell

PM-194 Anjali Poe

The Medical Implications of Continued Tobacco Use after Cancer Diagnosis: An Audiocast for SRNT-U

Williams College (Massachusetts)

Preceptor: Dr. Stephanie Land

PM-195 Christopher Pondoc

Detection of Centers of Mitosis with the U-Net Architecture

Frederick High School (Maryland)

Preceptors: Dr. Yanling Liu, Dr. Christian Suloway

PM-196 Hannah Prenskey

RNA/DNA Hybrid Constructs Targeting Anti-apoptotic Pathways in Epithelial-derived Solid Tumor Carcinomas

Barnard College (New York)

Preceptors: Dr. Lorena Parlea, Dr. Bruce Shapiro

PM-197 Gabrielle Puller

Identifying DnaJ Residues Involved in Substrate Binding and Specificity

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Sue Wickner, Dr. Shannon Doyle

PM-198 Avigayil Rabinowitz

Adeno-associated Viral Gene Therapy to Treat a Mouse Model of Methylmalonic Acidemia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jessica Schneller, Dr. Daniel Edelman

PM-199 Apurva Raghu

Defining Liver Zonation by Organelle Distribution

University of Maryland, College Park (Maryland)

Preceptors: Mr. Timothy Qi, Dr. Daniel Feliciano, Dr. Natalie Porat-Shliom

PM-200 Rashika Rahman

Database Management for Virtual Tissue Repository in SEER program

Northwest High School (Maryland)

Preceptors: Dr. Alison Van Dyke, Dr. Yao Yuan

PM-201 Kristin Recker

Assessing the Effects of Microbiota-derived Metabolites on Tumor Growth

University of Florida (Florida)

Preceptors: Dr. Romina Goldszmid, Mr. Khiem Lam, Dr. Romina Araya, Mrs. Quanyi Chen

PM-202 Lawrence Redmond

Identifying Distinct Malaria Complications, Including Endemic Burkitt Lymphoma, Using Malaria Symptoms and Biomarkers

Emory University (Georgia)

Preceptors: Dr. Sam Mbulaiteye, Dr. Sally Peprah, Dr. Barry Graubard

PM-203 Marisa Reynolds

Establishing and Characterizing a Mouse Prostate Cancer Bone Metastasis Model with Lucap 136 PDX

Michigan State University College of Human Medicine (Michigan)

Preceptors: Dr. Juan Yin, Dr. Kathleen Kelly

PM-204 Nyree Riley

Glutamine Metabolism Is a New Therapeutic Target in Thyroid Cancer

University of Georgia (Georgia)

Preceptors: Dr. Myriem Boufraquech, Dr. Naris Nilubol

PM-205 Howard Rong

The Hop1 Protein Influences Meiotic Recombination

University of Maryland, College Park (Maryland)

Preceptors: Dr. Michael Lichten, Dr. Anura Shodhan

PM-206 Rachel Rutstein

'Can I Live Without My Stomach?': Case Reports of Prophylactic Total Gastrectomy in Families with Hereditary Gastric Cancer Syndromes

Touro College for Women (Non-U.S.)

Preceptors: Dr. Kathleen Calzone, Mrs. Grace-Ann Fasaye, Dr. Jeremy Davis

PM-207 Sahil Sahni

Transcriptomic Analysis of Mesenchymal Stem Cells Undergoing Osteoblastic Differentiation

McGill University (Non-U.S.)

Preceptors: Dr. Paul Meltzer, Dr. Jack Zhu, Dr. Yonghong Wang

PM-208 Pamela Sanchez

Dietary Intake and Biliary Tract Cancer Risk in the U.S. 2003-2006

University of Florida (Florida)

Preceptors: Dr. Kevin Dodd, Dr. Jill Koshiol, Dr. Nancy Emenaker

PM-209 Dana Schaar

Second Malignancies in Patients with Chronic Graft-Versus-Host Disease

Georgetown University (District of Columbia)

Preceptor: Dr. Steven Pavletic

PM-210 Aviva Schwartz

The Effect of LKB1 Knockout on Tight Junction and Mitochondria Morphology in Mouse Hepatocytes.

Yeshiva University (New York)

Preceptors: Ms. Megan Stefkovich, Dr. Suehelay Acevedo-Acevedo, Dr. Natalie Porat-Shliom

PM-211 Matthew Seebald

DDB2 Knockdown Induces Radiation Resistance in GBM Cells

University of Chicago (Illinois)

Preceptors: Dr. Julianna DeSousa, Dr. Kevin Camphausen

PM-212 Chrisopher Sesi

Systematic Analysis of CD19 CAR T-cell Related Neurotoxicity in Children and Young Adults with Acute Lymphoblastic Leukemia

Midwestern University (Arizona)

Preceptor: Dr. Nirali Shah

PM-213 Pal Shah

Global Tobacco Cessation Practices in the Context of Cancer Treatment

University of Illinois at Chicago (Illinois)

Preceptor: Dr. Stephanie Land

PM-214 Shruti Shah

Identification of HIV-2 Vif-CBFbeta Interaction Determinants

University of Maryland, College Park (Maryland)

Preceptors: Dr. Krista Delviks-Frankenberry, Dr. Vinay Pathak

PM-215 Aleena Shahab

Effects of Methotrexate on Cytokine Production by Macrophages in the Context of Murine Autoimmunity

Urbana High School (Maryland)

Preceptors: Dr. Howard Young, Ms. Megan Hess

PM-216 Ahjeetha Shankar

Establishment of Patient-derived Mesothelial Cell Lines

Brown University (Rhode Island)

Preceptors: Dr. Nathanael Pruett, Dr. Chuong Hoang

PM-217 Aman Shankardass

Non-coding RNAs as Biomarkers for Radiation Biodosimetry

Case Western Reserve University (Ohio)

Preceptors: Dr. Moly Aryankalayil, Ms. Shannon Martello, Dr. Norman Coleman, Ms. Sunita Chopra

PM-218 Arnav Sinha, Sravani Buddhavarapu, Veda Nagubandi

Imaging Assessment of Physiological Changes in Tumors after Treatment with Hypoxia Activated Prodrug

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

Georgetown University (District of Columbia)

Preceptors: Dr. Shun Kishimoto, Dr. Rajani Choudhuri, Dr. John Cook, Dr. Murali Cherukuri

PM-219 Benjamin Smith

Electron Microscopy Analyzes Macrophages in Mouse Lung Tissue

Walkersville High School (Maryland)

Preceptors: Dr. Kunio Nagashima, Dr. Gongping Shi, Dr. Yinling Hu, Dr. Natalia De Val Alda

PM-220 Hannah Smith

Pediatric Chordoma: Findings of the First NIH Inaugural Chordoma Clinic

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Brigitte Widemann, Dr. Taryn Allen, Dr. Margarita Raygada, Mr. Maran Ilanchezhian

PM-221 Julianna Solomon

Motor Function of Children with Neurofibromatosis Type 1 on a Natural History Study

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andrea Gross, Dr. Scott Paul

PM-222 Rashna Soonavala

When Cancer Patient Experiences and Health Plan Quality Indicators Are Misaligned: A Review of the "Getting Care Quickly" CAHPS® Quality Measure and Emergency Department Use

University of Michigan (Michigan)

Preceptor: Dr. Roxanne Jensen

PM-223 Nadav Sprague

Evaluation of an Environmental and Health Education Program for Minority Youth

Washington University in St. Louis (Missouri)

Preceptor: Dr. David Berrigan

PM-224 Neya Sterling

The Utility of Paired 68Ga-DOTATATE PET/CT or NM Octreoscan and 18FDG PET/CT for Predicting Malignant Potential of Neuroendocrine Tumors in Patients with MEN1

Northeast Ohio Medical University (Ohio)

Preceptors: Dr. Samira Sadowski, Dr. Jenny Blau

PM-225 Ian Stukes

Characterization of Zebrafish Homologs of the Human ABCG2 Gene and Localization to the Blood-Brain Barrier

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey, Ms. Andrea Robinson

PM-226 Emily Stysliger

Role of Human P-glycoprotein in Chemoresistance

Colgate University (New York)

Preceptors: Dr. Sabrina Lusvarghi, Dr. Suresh Ambudkar

PM-227 Amanda Sugrue

Targeting Metabolism as a Potential Therapeutic Strategy in Kidney Cancer

Heidelberg University (Ohio)

Preceptors: Dr. Sameer Issaq, Dr. Ramaprasad Srinivasan

PM-228 William Sullivan

Effect of Mesothelin Expression on the Adherence of Pancreatic Cancer Cells to Peritoneal Membrane

Yale University (Connecticut)

Preceptors: Dr. Christine Alewine, Dr. Leela Avula, Ms. Xianyu Zhang, Ms. Sarah Joseph

PM-229 Abigail Svoisky

What Controls the Unusual Torsional State of Telomeres?

University of Maryland, College Park (Maryland)

Preceptors: Dr. Rahul Thadani, Dr. Julia Cooper

PM-230 Michael Talley

Structural and Kinetic Characterization of Desb, an N-Hydroxylase in Desferrioxamine B Biosynthesis

Towson University (Maryland)

Preceptors: Ms. Danielle Needle, Dr. David Waugh

PM-231 Abhirami Thaivalappil

Medicinal Plant Extracts as Modulators of Multidrug Transporters

University of Maryland, College Park (Maryland)

Preceptors: Dr. Biebele Abel, Dr. Megumi Murakami, Dr. Suresh Ambudkar

PM-232 Michael Timmer

Evaluating Patient Reported Cognitive Symptoms in Participants of the NOB Natural History Study

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Terri Armstrong, Ms. Elizabeth Vera

PM-233 Alexandra Toscano

Prospective Simulated Artificial Intelligence Workflow Improves Report Value in Clinical Trials while Saving Radiologists' Time

University of Maryland, College Park (Maryland)

Preceptors: Dr. James Gulley, Dr. Les Folio, Dr. Huy Do

PM-234 Timmy Tran

Gene Enhancers in Pleural Mesothelioma

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Chuong Hoang, Dr. Nathanael Pruett

PM-235 Tashinga Tsokodayi

Epigenetic Activation of Immune Genes in Small Cell Lung Cancer Using Histone Deacetylase Inhibitor

University of Maryland Eastern Shore (Maryland)

Preceptors: Dr. Azam Ghafoor, Dr. Weixin Wang, Dr. Katherine Calvo

PM-236 Arielle Tycko

Using Genetically-engineered Myeloid Cells (GEMys) in Combination with Other Cancer Therapies Hinders Tumor Growth and Metastasis

Walt Whitman High School (Maryland)

Preceptors: Dr. Daniel Beury, Dr. Sabina Kaczanowska, Dr. Rosandra Kaplan

PM-237 Shreya Vinjamuri

GRP56 Regulates T-cell Differentiation

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Chuan Wu, Dr. Girak Kim

PM-238 Saniya Wadhwa

Identification of RNA Binding Proteins That Direct RNA Localization

University of Maryland, College Park (Maryland)

Preceptors: Dr. Stavroula Mili, Dr. Tianhong Wang

PM-239 Jack Walker

Databasing the Frederick National Lab Partnership Development Office Contacts

Urbana High School (Maryland)

Preceptors: Dr. Maggie Scully, Dr. Vladimir Popov, Ms. Victoria Brun

PM-240 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-241 Alexandra Webster

Making and Testing an Immunotoxin That Kills Myeloma Cells

Tufts University (Massachusetts)

Preceptors: Dr. Tapan Bera, Dr. Ira Pastan F

PM-242 Kevin Webster

Visualizing Heterotypic Cellular Interactions in Thick Tissues Using Expansion Microscopy

McDaniel College (Maryland)

Preceptors: Dr. Maira Alves Constantino, Dr. Kandice Tanner, Dr. Zayd Khaliq

PM-243 Aliza Weiss

Current Landscape of Eribulin in Advanced Soft Tissue Sarcoma: A Systematic Review.

Bais Yaakov of Passaic High School (New Jersey)

Preceptors: Dr. Alice Chen, Dr. Rafeh Naqash

PM-244 Lily Widdup

Assessing APOL1 Risk Allele Status in Nigerians

Wellesley College (Massachusetts)

Preceptors: Dr. Cheryl Winkler, Mrs. Elizabeth Binns-Roemer

PM-245 Haley Wilt

Structural Analysis of the FMN Riboswitch Aptamer Domain in the Absence of Ligand

Washington College (Maryland)

Preceptors: Dr. Jason Stagno, Dr. Yun-Xing Wang

PM-246 Abigail Wittenberg, Camryn Isemann, Isra Tariq

Cationic Lipids and RNAi Therapeutics: Effects of PEGylation on Gene Downregulation

Urbana High School (Maryland), Oakdale High School (Maryland), Hood College (Maryland)
Preceptor: Dr. Anu Puri

PM-247 Fem Woodruff

Development of a Screening Protocol to Generate Reactive Species for Photo-crosslinking Applications

Cornell University (New York)

Preceptors: Dr. Martin Schnermann, Dr. Ek Raj Thapaliya

PM-248 Jennifer Xue

Comparison of Various Osmium Tetroxide-based Staining Techniques and Comparison of Computational Modeling Methods for Characterizing Viral Nanoparticles

University of Maryland, College Park (Maryland)

Preceptors: Dr. Natalia de Val Alda, Mr. Kunio Nagashima, Mr. Htet Khant

PM-249 Bennett Yang

Role of Thyroid Hormone in THP-1 Monocyte to Macrophage Differentiation

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sunmi Park, Dr. Sheue-yann Cheng

PM-250 Lila Yang

Characterization of CAR T-Cell Therapy-related Cytopenias in Children and Young Adults with ALL

New York Institute of Technology College of Osteopathic Medicine (New York)

Preceptor: Dr. Nirali Shah

PM-251 Avanish Yendluri

Characterizing Antiproliferative Activities of GSTP1 Inhibitors on Thymoma and Thymic Carcinoma Tumor Cell Lines

University of Maryland, College Park (Maryland)

Preceptors: Dr. Udayan Guha, Dr. Xu Zhang, Mr. Khoa Nguyen

PM-252 Ornela Yossa Nganpe

High-Throughput Drug Screen Identifies a Drug Combination Which Specifically Targets CDK1/2/5/9 and HDAC1/3

Towson University (Maryland)

Preceptors: Dr. Beverly Mock, Dr. Tyler Peat, Ms. Nana Gyabaah-Kessie

PM-253 Joshua Yudkin

The Impact of the 2010 Patient Protection and Affordable Care Act (ACA) on Colorectal Cancer Screening: A Systematic Literature Review

University of Texas Health Science Center at Houston (Texas)

Preceptor: Dr. Paul Doria-Rose

PM-254 Amy X. Zhang

Biologically-informed Bayesian Modeling of Cancer Cell Line Drug Sensitivity

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Keith Hughitt, Dr. Beverly Mock

PM-255 Amy Zhang

Tuning of NK-specific HLA-C Expression by Alternative mRNA splicing

University of California, Berkeley (California)

Preceptors: Dr. Stephen Anderson, Dr. Hongchuan Li, Mr. Joseph Goodson-Gregg

PM-256 Isaac Zhao

Integrative Analysis on Environmental Exposures and Tumor Biology Using Epigenetic Biomarkers

Brown University (Rhode Island)

Preceptors: Dr. Brid Ryan, Dr. Emily Rossi

PM-257 Richard Zhu

Inhibition of Adult T-Cell Lymphoma with CDK 4/6 Inhibitors

Austin College (Texas)

Preceptor: Dr. Sarvesh Kumar

National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG)

PM-258 Omar Ahmed

Identifying Clonal Hematopoiesis of Indeterminate Potential in Patients with Severe Aplastic Anemia

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Shahinaz Gadalla, Dr. Bari Ballew

PM-259 Marie Brodsky

Participant-facing Risk Modeling for Cancer Precision Prevention

Montgomery Blair High School (Maryland)

Preceptor: Dr. Jonas Almeida

PM-260 Kelly Butler

Evaluating Viral Etiology of Bladder Cancer through Analysis of Mutations in FGFR3

Columbia University (New York)

Preceptors: Ms. Nina Rao, Dr. Rouf Banday, Dr. Ludmila Prokunina-Olsson

PM-261 Logan Cho

Chronotype, Sleep, and Meal Timing: Findings from the National Health and Nutrition Examination Survey (NHANES), 2015-2016

Brown University (Rhode Island)

Preceptors: Dr. Neil Caporaso, Dr. Barry Graubard

PM-262 Laura De Ravin

Gene Therapy of Adenosine Deaminase 2 in Human CD34+ Cells Using CRISPR-Cas9 Technology

University of Maryland, College Park (Maryland)

Preceptors: Dr. Oskar Schnappauf, Dr. Uimook Choi

PM-263 Courtney Dill

Uncovering the Dark Matter of Pancreatic Cancer by Assessing Non-coding Regulatory Variations

Morehouse School of Medicine (Georgia)

Preceptors: Dr. Laufey Amundadottir, Dr. Jun Zhong

PM-264 Brenna Douthitt

Germline Genetic Variation in Three Multiplex Bladder Cancer Pedigrees

Vassar College (New York)

Preceptors: Dr. Alex Pemov, Dr. Douglas Stewart

PM-265 Catherine Du

Mutational Signature Portal (mSigPortal)

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Tongwu Zhang, Dr. Tere Landi

PM-266 Naomi Eluojierior

Monthly Trends during 2012 in Occupational Dose for Medical Staff Performing/Assisting with FGIPs in the United States

Prince George's Community College (Maryland)

Preceptor: Dr. David Borrego

PM-267 Michelle Fang

The Role of IFNL4 Genotype in Hepatic Inflammation and Fibrosis Due to Chronic Hepatitis C

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sarah Jackson, Dr. Thomas O'Brien

PM-268 James Karabin

A Comparative Analysis of Deaths Due to External Causes of Mortality in OECD Member Countries, 2001-2015

Arizona State University (Arizona)

Preceptors: Dr. Yingxi Chen, Dr. Amy Berrington

PM-269 Delma Mbulaiteye

Identification of Functional Germline Variants in the Bladder Cancer Associated GWAS Locus at 20p12.2

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ludmila Prokunina, Dr. Rouf Banday, Mrs. Adeola Obajemu

PM-270 Alison Nichols

Prophylactic Mastectomies in Women with Li Fraumeni Syndrome

University of Maryland College Park (Maryland)

Preceptor: Dr. Jennifer Loud

PM-271 Anastasia Polkovnichenko

Racial Patterns in Colorectal Cancer Incidence: A Non-parametric Assessment

University of Virginia (Virginia)

Preceptors: Dr. Philip Rosenberg, Dr. Brittany Davis

PM-272 Megan Powell

Application of Digital Pathology for Comparative Studies of Tumor Immune Infiltration in Different Populations

Williams College (Massachusetts)

Preceptors: Dr. Montserrat García-Closas, Dr. Mustapha Abubakar, Dr. Thomas Ahearn

PM-273 Tim Ring

Using CRISPR-dCas9-DNMT3A to Explore the Role of IFNL4 in Epigenetic Reprogramming in Cancer Cells

Georgetown University (District of Columbia)

Preceptors: Dr. Olusegun Onabajo, Dr. Ludmila Prokunina-Olsson

PM-274 Emily Riseberg

Associations between Blood DNA Methylation and Estrogen Metabolism

Tufts University (Massachusetts)

Preceptors: Dr. Gretchen Gierach, Dr. Clara Bodelon

PM-275 Emily Spangler

Exposure to Particulate Matter Air Pollution and Risk of Gastrointestinal Cancers: A Systematic Review

Roanoke College (Virginia)

Preceptors: Ms. Natalie Pritchett, Dr. Sanford Dawsey, Dr. Rena Jones, Ms. Alicia Livinski

PM-276 Maya Spaur

Exposure Assessment of Drinking Water Contaminants among Agricultural Health Study Participants

Johns Hopkins University (Maryland)

Preceptor: Dr. Mary Ward

PM-277 Victor Tran

Functional Analysis of Putative Splice Variants in Dyskeratosis Congenita Patients via Exon Trapping

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Seth Brodie, Mr. Joseph Boland, Dr. Sharon Savage

PM-278 Sarah Van Alsten

The Association between Metabolic Syndrome and Inflammation: A Cross-sectional Analysis of 110 Circulating Biomarkers

Washington University in St. Louis (Missouri)

Preceptors: Dr. Minkyong Song, Dr. Charles Rabkin

PM-279 Emily Wu

Multiple Imputation by Chained Equations with Applications to the Agricultural Health Study

University of Richmond (Virginia)

Preceptors: Dr. Sung Duk Kim, Dr. Laura Beane Freeman, Dr. Paul Albert

PM-280 Corey Young

Potential Health Disparities in Eligibility for Lung Cancer Screening

Morehouse School of Medicine (Georgia)

Preceptors: Dr. Hormuzd Katki, Dr. Rebecca Landy

National Institute on Minority Health and Health Disparities (NIMHD)

PM-281 Alia Alhomsy

Correlates of Self-efficacy for Coping with Breast Cancer Treatment among Low-aculturated Latinas

George Mason University (Virginia)

Preceptor: Dr. Anna Nápoles

PM-282 Kathleen Dang

Trends in Youth Exposure to Tobacco and E-cigarette Advertising: Variations by Social Determinants and Tobacco Use

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Kelvin Choi

PM-283 Azure Erskine

Evidence-based Assessment of Barriers to Breast Cancer Screening among African American Women

Howard University (District of Columbia)

Preceptors: Dr. Faustine Williams, Ms. Bonita Salmeron, Ms. Patricia Timothee

PM-284 Thomas Freitag

Substance Use and Abuse Among Gay, Lesbian, and Bisexual Racial and Ethnic Minorities Experiencing Sexual Orientation Discrimination

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Julia Chen-Sankey, Dr. Kelvin Choi, Mrs. Danielle Duarte

PM-285 Leah Orozco

Young Adult Smokers' Recall of Smoking Cessation Campaigns and Subsequent Cessation: Variation by Race and Ethnicity

College of the Holy Cross (Massachusetts)

Preceptor: Dr. Kelvin Choi

PM-286 Maria Reyes

Associations of Emotional Support and Cultural Factors with Benefit Finding among Spanish Speaking Latina Breast Cancer Survivors

California State University, Monterey Bay (California)

Preceptors: Dr. Anna Napoles, Mr. Cristian Escalera

PM-287 Taylor Robinson

SmokeFreeBody: An Examination of Smoking Cessation Behavioral Change Techniques (BCTs) on Twitter

University of Pittsburgh (Pennsylvania)

Preceptors: Ms. Charmaine Chan, Dr. Kristyn Kamke, Dr. Sherine El-Toukhy

PM-288 Angela Wang

Time to "Digitally" Listen: Characteristics of Smoking Cessation Tweets

Duke University (North Carolina)

Preceptors: Dr. Sherine El-Toukhy, Ms. Charmaine Chan

National Institute on Nursing Research (NINR)

PM-289 Nana Adjo Mensah Afful

Differentiating Human Induced Pluripotent Stem Cells into Myoblasts: A Fast-track Approach

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lawal Tokunbor, Dr. Katy Meilleur

PM-290 Erica Holland

The Effects of Probiotics on the Microbiome and Health of Healthy Children

Fort Valley State University (Georgia)

Preceptors: Ms. Alexis Franks, Dr. Paule Joseph

PM-291 Natalia Iannarino

Biological Mediators of Fat-taste: Implications for Obesity

University of Dayton (Ohio)

Preceptors: Dr. Rosario Jaime-Lara, Dr. Paule Joseph

PM-292 Amanda Jiang

The Effects of Mindfulness-based Interventions on Military Service Members with Trauma-related Symptoms

Smith College (Massachusetts)

Preceptor: Ms. Heather Rusch

PM-293 Devin Ohlson

Development of Virtual Reality Environments for experimentation and Training in Health Care

Case Western Reserve University (Ohio)

Preceptors: Dr. Patti Brennan, Mr. William Kistler, Dr. John Ostuni

PM-294 Kevin Shaffman

Exosomes as Diagnostic and Prognostic Biomarkers in Traumatic Brain Injuries

Monterey Peninsula College (California)

Preceptors: Dr. Vivian Guedes, Mr. Jordan Peyer, Dr. Jessica Gill

PM-295 Vincent Sinfuego

Can Virtual Avatars Enhance Presence in Virtual Reality Enough to Influence Health-related Behavior?

Duke University (North Carolina)

Preceptors: Dr. Patti Brennan, Dr. John Ostuni, Mr. William Kistler

PM-296 Emma Walter

Validation of Electrolyte Reference Standard for Sweat Patch Biomarker Testing

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lichen Xiang, Dr. Wendy Henderson

OD High School Scientific Training and Enrichment Program (HiSTEP)

PM2-157 Joachim Ambaw

My Summer Experience in HiSTEP at NIH

James H. Blake High School (Maryland)

Preceptor: Dr. Kristen Zukosky

PM2-158 Aiden Benyarku

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PM2-159 Jamil Bonilla

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PM2-164 Aniya Green

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PM2-165 Jamir Grier

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PM2-168 Fatmata Jalloh

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PM2-169 Lilian Martinez

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PM2-170 Cynthia Moya

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PM2-171 Lana Nguyen

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PM2-173 Hasset Nurelegne

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PM2-175 Ketsia Pierrelus

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PM2-176 Chris Provideo

How a Summer in HiSTEP at NIH Developed Me

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PM2-177 Jessica Rosales

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PM2-178 Justin Shi

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PM2-179 Blyss Swan

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PM2-180 Trinity White

The HiSTEP Summer Experience at NIH
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PM2-181 Redeit Woldebirhan

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