

NIH SUMMER RESEARCH PROGRAM POSTER DAY - AUGUST 10, 2017

MORNING SESSION	AM	9:00 AM - 11:00 AM
LUNCH SESSION	LCH	11:00 AM - 1:00 PM
AFTERNOON SESSION	PM	1:00 PM - 3:00 PM
HISTEP SESSION	HS	3:30 PM - 4:30 PM

SESSION	INSTITUTE OR CENTER	POSTER NUMBER
AM	National Cancer Institute (NCI)	1 - 238
AM	National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG)	239 - 260
AM	National Eye Institute (NEI)	261 - 287
AM	National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)	288 - 303
AM	National Institute of Dental and Craniofacial Research (NIDCR)	304 - 317
AM	National Library of Medicine (NLM)	318 - 332
LCH	Clinical Center (CC)	1 - 50
LCH	National Center for Advancing Translational Sciences (NCATS)	51 - 69
LCH	National Center for Complementary and Integrative Health (NCCIH)	70 - 76
LCH	National Heart, Lung, and Blood Institute (NHLBI)	77 - 128
LCH	National Institute on Aging (NIA)	129 - 174
LCH	National Institute on Alcohol Abuse and Alcoholism (NIAAA)	175 - 189
LCH	National Institute of Allergy and Infectious Diseases (NIAID)	190 - 247
LCH	National Institute of Biomedical Imaging and Bioengineering (NIBIB)	248 - 265
LCH	National Institute on Drug Abuse (NIDA)	266 - 305
LCH	National Institute on Deafness and Other Communication Disorders (NIDCD)	306 - 316
LCH	National Institute on Minority Health and Health Disparities (NIMHD)	317 - 321
LCH	National Institute of Nursing Research (NINR)	322 - 332
PM	Center for Information Technology (CIT)	1 - 8
PM	National Human Genome Research Institute (NHGRI)	9 - 49
PM	Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)	50 - 106
PM	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	107 - 183
PM	National Institute of Environmental Health Sciences (NIEHS)	184 - 189
PM	National Institute of Mental Health (NIMH)	190 - 236
PM	National Institute of Neurological Disorders and Stroke (NINDS)	237 - 329
PM	Office of the Director (OD)	330
HS	OD High School Scientific Training and Enrichment Program (HiSTEP)	303 - 327

NOTE: the complete program for Summer Poster Day 2017, including poster titles, can be found at https://www.training.nih.gov/assets/2017_Summer_Poster_Day_Program.pdf.

NIH SUMMER INTERNSHIP PROGRAM – POSTER DAY 2017

National Cancer Center (NCI)

AM-001. Nicholas Aboreden

Using CRISPR interference to determine the significance of candidate regulatory elements in Fusion Positive Rhabdomyosarcoma

Liberty University (Virginia)

Preceptors: Dr. Berkley Gryder, Dr. Javed Khan

AM-002. Beimnet Abraha

Determine the Role of the Enzyme Endothelial Nitric Oxide Synthase in the Protection from Lung Metastasis Induced by Beta-Mannosylceramide

Montgomery College (Maryland)

Preceptor: Dr. Anja Bloom

AM-003. Max Ackerman

Assessment of Oral Health Literacy Among African Americans in Washington, D.C.

University of Illinois at Chicago (Illinois)

Preceptor: Dr. Nancy Emenaker

AM-004. Deepti Agnihotri

Modelling the Synergy of IFN-gamma and IL-6 in the Tumor-Macrophage Microenvironment

Duke University (North Carolina)

Preceptors: Dr. Grégoire Altan-Bonnet, Dr. Andrew Belmonte

AM-005. Sylvana Aho

Evaluating the ability of short human centrioles to form appendages

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jadranka Loncarek, Dr. Dong Kong

AM-006. Jonathan Alexander, Sean Alexander, Chana Levine

Database Construction and Usage for Patient Demographic Analysis

East Coweta High School (Georgia), East Coweta High School (Georgia), Lander College for Women, Touro (New York)

Preceptors: Dr. Alice Chen, Dr. Geraldine O'Sullivan, Dr. Naoko Takebe

AM-007. Sean Alexander, Seroh Chang

Biomarkers That Predict for Entry in Early Clinical Trials

East Coweta High School (Georgia), Rutgers University (New Jersey)

Preceptors: Dr. Alice Chen, Dr. Geraldine O'Sullivan, Dr. Naoko Takebe

AM-008. Ibrahim Alsomairy

Novel Therapies Targeting Androgen Receptor Variants in an in vitro Model of Castrate Resistant Prostate Cancer

Osborn Park Senior High School (Virginia)

Preceptors: Dr. Michael Moses, Dr. Len Neckers

AM-009. Naveen Ambati

Investigating the Cytoplasmic Role of RBM10 as a Translational Regulator in Lung Cancer

University of Virginia (Virginia)

Preceptors: Dr. Murali Palangat, Dr. Daniel Larson

AM-010. Klara Ambaye

The Effects of Fixation Time on the Quality of Masson Trichrome and Reticulin Staining

University of Maryland, College Park (Maryland)

Preceptors: Mr. Michael Newford, Dr. Mohammad Mahboob

AM-011. Meghan Anderman

Inhibitors of the SRC oncoprotein have greater antitumor activity in DLC1-positive tumors than in DLC1-negative tumors.

Northern Michigan University (Michigan)

Preceptors: Dr. Brajendra Tripathi, Dr. Douglas Lowy

AM-012. Megan Andres

Identification of SOX11 as a novel oncogene in Neuroblastoma

University of North Georgia (Georgia)

Preceptors: Dr. Carol Thiele, Dr. Deblina Banerjee

AM-013. Bhargav Arimilli

High Resolution 1H-NMR Spectroscopy Reveals Altered Metabolism in Aggressive, Patient-Derived Fumarate Hydratase-Deficient Kidney Cancer Cells

University of Texas at Dallas (Texas)

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

AM-014. Danielle Arons

Assessing the Effects of Mesothelin on Intraperitoneal Metastasis of Pancreatic Cancer

University of Maryland, College Park (Maryland)

Preceptor: Dr. Christine Alewine

AM-015. Rayann Atway

It's no Gim-MYC: Genetic Effects of MYC in Prostate Cancer Cells

Youngstown State University (Ohio)

Preceptors: Dr. Nichelle Whitlock, Dr. Adam Sowalsky

AM-016. Ognenka Avramovska

Kinetochore Dynamics Throughout the Cell Cycle

Emory University (Georgia)

Preceptors: Dr. Daniël Melters, Dr. Yamini Dalal

AM-017. Duha Awad

N-MYC splicing; a novel mechanism of TSP1-CD47 signaling in acute T cell leukemia

Baltimore City Community College (Maryland)

Preceptors: Dr. Sukhbir Kaur, Dr. David Roberts

AM-018. Asma Azam

Understanding the Role of RNA Localization on Protein Distribution and Function

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Stavroula Mili, Dr. Tianhong Wang

AM-019. Nithin Bagal

Targeting Mouse CD47 with CRISPR-Cas9

Thomas Jefferson High School For Science and Technology (Virginia)

Preceptors: Dr. Pulak Nath, Dr. David Roberts

AM-020. Erol Bahadiroglu

Information Theoretic Method for Robust Automatic Compensation of Flow Cytometry Data

University of Florida (Florida)

Preceptors: Dr. Gregoire Altan-Bonnet, Dr. Amir Erez

AM-021. Tsige Bahta

Unraveling the Role of ABC Transporter, P-glycoprotein, in Multidrug Resistance of Cancer Cells

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Suresh Ambudkar, Dr. Shahrooz Vahedi

AM-022. Julia Balmaceda

The Dbf4-Cdc7 kinase complex regulates Psh1-mediated proteolysis of centromeric histone H3 variant to prevent chromosomal instability (CIN)

University of Kansas (Kansas)

Preceptors: Dr. Munira Basrai, Dr. Jessica Eisenstatt, Dr. Wei-Chun Au

AM-023. Simona Bazelon

Using Adeno-Associated Viral Gene Therapy as Treatment for Hemophilia B

Bais Yaakov Eva Weiner High School (Maryland)

Preceptors: Ms. Jessica Schneller, Dr. Daniel Edelman

AM-024. Nicole Bedanova

Developing the next generation of iPSC cell-based immunotherapies

Thomas Wootton High School (Maryland)

Preceptors: Dr. Nicholas Restifo, Dr. Raul Vizcardo

AM-025. Titas Bera

New shark single domain antibody-based immunotoxins targeting CD22 for cancer therapy

The College of Wooster (Ohio)

Preceptors: Dr. Hejiao Bian, Dr. Mitchell Ho

AM-026. Jessica Bernstein

Challenges in Evaluation of Plexiform Neurofibromas in Patients with NF1 on Clinical Trials

Walter Johnson High School (Maryland)

Preceptors: Ms. Trish Whitcomb, Dr. Andrea Gross, Dr. Brigitte, Widemann, Ms. Amanda Carbonell

AM-027. Rachel Bernstein

Novel cytogenetic and molecular genetic findings in Acute Erythroid Leukemia can define prognostic groups.

Atara Girls High School (Ohio)

Preceptors: Dr. Jaira Ferreira de Vasconcellos, Dr. Daniel Edelman

AM-028. Gabriela Beug

Evaluation of combination therapy in medullary thyroid cancer

German School Washington, D.C. (Maryland)

Preceptors: Dr. Leonard Neckers, Mrs. Kristin Beebe

AM-029. Michelle Boettler

Exploring the mechanism for Pomalidomide-induced upregulation of cell surface markers in KSHV-infected cells

Ohio State University (Ohio)

Preceptors: Dr. David Davis, Dr. Robert Yarchoan

AM-030. Carlo Bosques

Probing the role of tissue mechanics in diverse extracellular matrix environments

University of Puerto Rico, Mayagüez Campus (Puerto Rico)

Preceptors: Dr. Colin Paul, Dr. Kandice Tanner, Dr. Jack Staunton

AM-031. Philip Brauer

Intratumor Heterogeneity Impacts Treatment Response in Rectal Carcinoma

Colgate University (New York)

Preceptors: Dr. Rudiger Meyer, Dr. Darawalee Wangsa, Dr. Thomas Ried

AM-032. Elizabeth Brauneis

Genomic instability and aneuploidy of hepatocellular carcinomas (HCC) in patients with metabolic risk factors

Oberlin College (Ohio)

Preceptors: Ms. Irianna Torres, Dr. Kerstin Heselmeyer-Haddad, Dr. Thomas, Ried, Ms. Juliane Friemel

AM-033. Jacob Broome

NIH Chronic Graft Versus Host Disease Consensus Criteria: Comparison of Old and New

Virginia Polytechnic Institute and State University (Virginia)

Preceptor: Dr. Steven Pavletic

AM-034. Patricia Bunda

Role of GNAQ Mutations in Cutaneous Melanoma

University of California, Los Angeles (California)

Preceptors: Dr. Helen Michael, Dr. Antonella Sassano, Dr. Glenn Merlino

AM-035. Alvin Cao

Assessment of the Rapid Evolving Residues of Interferon Induced Transmembrane Protein 3 (IFITM3) During Virus-Host Interplay

Chantilly Highschool (Virginia)

Preceptors: Dr. Scarlett Shi, Dr. Alex Compton

AM-036. Rachel Carter

Interactions of Ferroptosis Inducers with ATP-Binding Cassette Transporters

George Mason University (Virginia)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

AM-037. Samuel Casellas

Understanding Top2-induced DNA Breaks Through Protein Interaction Studies

Walter Johnson High School (Maryland)

Preceptor: Dr. Andre Nussenzweig

AM-038. Alexis Catalano

Flotillin 2 Interacts with the EGF Receptor and Regulates its Activity and Degradation

University of Virginia (Virginia)

Preceptors: Dr. Stanley Lipkowitz, Dr. Mariya Liyasova

AM-039. Geetha Mariah Cawthon

Investigation of Nicotinamide Phosphoribosyltransferase (NAMPT) Inhibition in Bladder Cancer

George Washington University (District of Columbia)

Preceptors: Dr. Piyush Agarwal, Dr. Mamatha Garige

AM-040. Shin Mei Chan

Can human-specific and mouse-specific p53 isoforms rescue replicative senescence?

Stanford University (California)

Preceptors: Dr. Izumi Horikawa, Dr. Curtis Harris

AM-041. Seroh Chang

Comparison of Responders in Singlet vs. Doublet Phase 1 Trials

Rutgers University (New Jersey)

Preceptors: Dr. Geraldine O'Sullivan Coyne, Dr. Alice Chen, Dr. Naoko Takebe

AM-042. Jocelyn Chen

Elucidating Circadian Rhythm Gene Bmal1 as a Metastasis Modifier

Northwest High School (Maryland)

Preceptors: Dr. Ngoc-Han Ha, Dr. Kent Hunter

AM-043. Jamie Cheng

Building a Cell Based System to Study Aneuploidy by Using CRISPR/Cas 9 Mediated Genome Editing

Winston Churchill High School (Maryland)

Preceptors: Dr. Wei-dong Chen, Dr. Thomas Ried

AM-044. Jeffrey Chu

Identifying transcription factors on mTOR promoter

Emory University (Georgia)

Preceptors: Dr. Beverly Mock, Dr. Shuling Zhang, Mr. Daniel Connors

AM-045. Hyunsoo Chung

An unexpected requirement for the cytokine IL-7 in the survival and homeostasis of NKT cells in peripheral tissues

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

Preceptor: Dr. J. Hyun Park

AM-046. Shalva Cohen

Evaluation of PD-L1 Expression in the Spectrum of Renal Cell Carcinoma and it's Role in Diagnosis and Treatment

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. W. Marston Linehan, Dr. Maria J. Merino

AM-047. Cedric Cole

The Abscopal Effect – A Quantitative Analysis of Tumor Nodule Volumes of an Adult T-Cell Leukemia / Lymphoma Patient

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Jennifer Jones, Mr. Peter Guion

AM-048. Cameron Crouch, Vincent Allen, Catherine Liu

Clinical Informatics with an intelligent cloud-based voice service and Serverless Computing
Harding University (Arkansas), University of Maryland College Park (Maryland), University of Michigan Ann Arbor (Michigan)

Preceptors: Mr. Waleed Osman, Mr. Brent Coffey, Mr. Tony Fu

AM-049. Madeleine Curtis

Describing the rationale to bring pediatric Diffuse Intrinsic Pontine Glioma (DIPG) drugs to trial
Oakton High School (Virginia)

Preceptor: Dr. Kathy Warren

AM-050. Marshall Darby

Spicy - Natural Product Isolation from Sichuan Pepper
Middletown High School (Maryland)

Preceptors: Dr. John Beutler, Dr. Dongdong Wang, Dr. Sarah Long

AM-051. Noelle Dayal

Second generation DNA Seq to demonstrate conservation of Mt DNA in a clonal mammary epithelial population

Georgetown University (District of Columbia)

Preceptors: Dr. Jabril Johnson, Dr. Lauren Ragle, Dr. Corinne, Boulanger, Dr. Gilbert Smith

AM-052. Jayson de Guzman

Role of ABC Transporter P-glycoprotein in Cancer Chemoresistance
University of California, San Francisco (California)

Preceptors: Dr. Andaleeb Sajid, Dr. Suresh Ambudkar

AM-053. Julianie de la Cruz

The Role of YAP in Endothelial Cell Proliferation and Migration
University of Puerto Rico (Puerto Rico)

Preceptors: Dr. Giovanna Tosato, Dr. Lisa Ritchey

AM-054. Sean Deleon

Construction of Nucleosomal Arrays with Alternative Structure
George Mason University (Virginia)

Preceptors: Dr. Bing-Rui Zhou, Dr. Yawen Bai

AM-055. Ella Drach

Using CRISPR/Cas9 as Gene Therapy Treatment for Cystic Fibrosis
Prospect Park Yeshiva (New York)

Preceptors: Ms. Laura Marler, Dr. Daniel Edelman

AM-056. Matthew Driban

T Cell Receptor Beta rearrangements determine the clonality of genetically engineered leukemia

Pennsylvania State University (Pennsylvania)

Preceptor: Dr. Peter Aplan

AM-057. Anna Duemler

Mechanistic insights into the formation of in vitro derived neoplasms

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Christina Annunziata, Dr. Daniel Green

AM-058. Noah Earland

Functional Evaluation of Interferon Lambda 4 Protein using Bioinformatic Analysis and Site-Directed Mutagenesis

Southern Methodist University (Texas)

Preceptors: Dr. Ludmila Prokunina-Olsson, Dr. Olusegun Onabajo

AM-059. Danielle Ebelle

Understanding Proteasome for Novel Cancer Therapeutics

Virginia Union University (Virginia)

Preceptors: Dr. Vinidhra Sridharan, Dr. Kylie Walters

AM-060. Emily Ehlerding

Nanotechnology in cancer: Limitless possibilities

University of Wisconsin - Madison (Wisconsin)

Preceptors: Dr. Piotr Grodzinski, Dr. Christina Liu

AM-061. Michelle Fang

Inflammatory Disease and C-Reactive Protein in Relation to Therapeutic Ionizing Radiation exposure in the US Radiologic Technologists

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Dr. Mark Little, Dr. Alina Brenner

AM-062. Sivia Feinstein

Mechanism of Therapeutic Efficacy of Arsenic in Acute Promyelocytic Leukemia

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Sarah Clatterbuck Soper, Dr. Daniel Edelman

AM-063. Amber Feng

Development of an inhibitor of YAP1 transcriptional activity

Emory University (Georgia)

Preceptors: Dr. Ramiro Iglesias-Bartolome, Ms. Jeannie Park, Dr. Pilar Pedro

AM-064. Michaela Flipping

Validation of Clinical FISH Tests for Detection of c-MET gene Amplification and ROS1 gene rearrangement in Lung Cancer

Benjamin Banneker Academic High School (District of Columbia)

Preceptor: Dr. Svetlana Pack

AM-065. Anyen Fon

Molecular Characterization of Immune Infiltration in Mouse Melanoma Tumors in Response to Immune Checkpoint Blockade

Prince George's Community College (Maryland)

Preceptors: Dr. Eva Perez Guijarro, Dr. Glenn Merlino

AM-066. Meir Friedenber

Formal Computational Modelling of Cancer Metabolism

University of Maryland, College Park (Maryland)

Preceptor: Dr. Orieta Celiku

AM-067. Sai Abhishek Gangineni

Whole Exome Sequencing Analysis Workflows on Cancer Genomics Cloud

Poolesville High School (Maryland)

Preceptors: Dr. KanakaDurga Addepalli, Dr. Sean Davis, Dr. Steve Tsang

AM-068. Caleb Getahun

Inflammasome Signal Activation in Mouse Bone Marrow-Derived Macrophage

Poolesville High School (Maryland)

Preceptors: Dr. Zheng-gang Liu, Dr. Swati Choksi, Dr. Hyung Joon Kwon

AM-069. Mitchell Gillard

The Effect of CHK1 Inhibition on CCNE1 Expression and DNA Repair Proteins in Ovarian Cancer

Stony Brook University School of Medicine (New York)

Preceptors: Dr. Jayakumar Nair, Dr. Jung-Min Lee

AM-070. Abhigya Giri

Antitumor activity of SRC Kinase Inhibitors in Type I Papillary Renal Cell Carcinoma

University of Maryland, College Park (Maryland)

Preceptors: Dr. Roma Pahwa, Dr. Carole Sourbier, Dr. Ramaprasad Srinivasan

AM-071. Haley Golding

Expression of sphingosine-1-phosphate receptor 1 in B cell lymphoma

Howard University (District of Columbia)

Preceptors: Dr. Stefania Pittaluga, Dr. Elaine Jaffe

AM-072. Christian Gonsalves

Single Genome Sequencing to Determine The Effect of Immune Reconstitution Inflammatory Syndrome on Clonal Expansion of HIV Infected Cells

University of the West Indies (Non-U.S.)

Preceptors: Dr. Camille Lange, Dr. Frank Maldarelli

AM-073. Reet Goraya, Amina Siddiqui

P-16 expression in low and high grade squamous intraepithelial lesions in cervical/vaginal samples

Richard Montgomery High School (Maryland), West Springfield High School (Virginia)

Preceptors: Dr. Armando Filie, Mrs. Patricia Fetsch

AM-074. Michael Gouzoulis

Combination treatment of Ewing sarcoma cell lines using Wee1 inhibitor MK-1775 and HDAC inhibitor Panobinostat

University of Maryland, College Park (Maryland)

Preceptors: Mr. Choh Yeung, Ms. Anna Gibson, Dr. Christine Heske

AM-075. Monica Gouzoulis

Effects of Atorvastatin on HIV Populations

University of Maryland, College Park (Maryland)

Preceptors: Ms. Elizabeth Anderson, Dr. Frank Maldarelli

AM-076. Nikhil Gowda

Developing a computational pipeline for the analysis of Single-cell RNA-Seq data

St. Bonaventure University (New York)

Preceptors: Dr. Maggie Cam, Dr. Vishal Kopadre, Mr. Parthav Jailwala

AM-077. Nikhil Goyal

Semi-automated Digital Data Management in Oncology Clinical Trials, Utilizing ENABLE 2.0 (Exportable Notation and Bookmark List Engine)

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andrea Apolo, Dr. Les Folio

AM-078. Megha Guggari

Targeting the Survival of TFE3-fusion Kidney Cancer Cells

University of Maryland, College Park (Maryland)

Preceptor: Dr. Carole Sourbier

AM-079. Daniel Gulko

Mechanisms of Non-Bulky, Oxidative DNA Damage-Mediated Transcriptional Mutagenesis

Stevens Institute of Technology (New Jersey)

Preceptors: Dr. Mikhail Kashlev, Dr. Lucy Petrova

AM-080. Nikita Gupta

Targeting Ataxia-Telangiectasia Mutated to Enhance the Radiation Response of Glioblastoma
Holton-Arms School (Maryland)

Preceptors: Dr. Jennifer Lee, Dr. Kevin Camphausen

AM-081. Anna Gurney

Evaluating epigenetic markers in diffuse midline gliomas using multitissue arrays
Emory University (Georgia)

Preceptors: Dr. Martha Quezado, Dr. Astin Powers

AM-082. Nana Gyabaah-Kessie

Proteasome Inhibition Resistance in Multiple Myeloma
Eleanor Roosevelt High Schhol (Maryland)

Preceptors: Dr. Snehal Gaikwad, Dr. Beverly Mock

AM-083. Chenchen Handler

Evaluation of Stability and Reproducibility of CD4 Quantitation in Beckman-Coulter CytotrolTM Control Cells

Thomas A Edison (Virginia)

Preceptors: Dr. Linda Weaver, Dr. MaryAlice Stetler-Stevenson, Dr. Lili Wang

AM-084. Catherine Harvey

The Cas9/sgRNA Complex as a Restriction Enzyme
College of William and Mary (Virginia)

Preceptors: Dr. Michael Lichten, Dr. Jasvinder Ahuja

AM-085. Marwan Hawari

Exploring the Contribution of the Nucleocapsid Domain of HIV-1 Gag to RNA Binding Specificity
University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Alan Rein, Dr. Mauricio Comas Garcia, Ms. Demetria Harvin

AM-086. Audrey Heffner

Identifying Conserved Residues in Yeast Hsp70 for Interaction with J-Proteins and Hsp90
University of Maryland, College Park (Maryland)

Preceptor: Dr. Sue Wickner

AM-087. Paul Higgins

Attracting Immune Cells to the Tumor Microenvironment
Montgomery College (Maryland)

Preceptors: Dr. Mark Gilbert, Dr. Amber Giles, Ms. Heather Sonnemann

AM-088. Jessica Ho

TERT Promoter Mutations in Primary CNS Tumors

University of Georgia (Georgia)

Preceptors: Dr. Hye-Jung Chung, Dr. Liqiang Xi, Dr. Mark, Gilbert, Dr. Mark Raffeld

AM-089. Pui Yan Ho

miR-142-3p targets CLIC4 and regulates its expression in multiple cell types

University of California, Davis (California)

Preceptors: Dr. Brandi Carofino, Dr. Stuart Yuspa

AM-090. Sandra Hong

Understanding the Success and Sustainability of the NCCCP/Community Network Program Partnership

Johns Hopkins University (Maryland)

Preceptors: Ms. Brenda Adjei, Ms. Mary Anne Bright

AM-091. Alex Hruska

Engineering the in vivo tissue microenvironment

Northeastern University (Massachusetts)

Preceptors: Dr. Colin Paul, Dr. Jack Staunton, Dr. Kandice Tanner

AM-092. Allan Huang

Visualization of Splenic Germinal Centers in ThPOK-deficient Mice

Columbia University, College of Physicians and Surgeons (New York)

Preceptors: Dr. Remy Bosselut, Dr. Melanie Vacchio

AM-093. Becky Huang

Low-dose Radiation Therapy for Local Control in Adult T-cell lymphoma/leukemia

University of Maryland, College Park (Maryland)

Preceptor: Dr. Jennifer Jones

AM-094. Rebecca Hutman

Cortical Spreading Depolarization Contributes to Neuronal Death in the Ischemic Penumbra

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Christina Ross, Dr. Daniel Edelman

AM-095. Robert Hwang

The role of TRAF-binding domains in CD40-mediated Ig class switching

Sioux City North High School (Iowa)

Preceptors: Dr. Richard Hodes, Dr. Ying Lu, Dr. Jeffrey Chiang

AM-096. Deborah Jack

Kaposi Sarcoma Herpesvirus (KSHV) Shedding in Saliva of Patients with KSHV-Associated Malignancies

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Thomas Uldrick

AM-097. Miranda Jackson

Automating data extraction from published literature with specific focus on rare variants and diseases

Saint Vincent College (Pennsylvania)

Preceptors: Mrs. Uma Mudunuri, Mrs. Hue Reardon

AM-098. Anusha Jailwala

Defining the Role of Loss-of-Function Mutations in the Oncogene SRC in Ovarian and Endometrial Cancers

Northwest High School (Maryland)

Preceptors: Dr. John Brognard, Dr. Christina Young, Mrs. Katherine Nyswaner

AM-099. Katrina Jang

Farnesoid X Receptor (FXR) Activation Regulates Intestinal Ceramide Synthesis

University of California, Los Angeles (California)

Preceptor: Dr. Chad Brocker

AM-100. Joy Jiang

How Specific is Hu3S193, an Anti-Lewis Y Antibody in Phase II Clinical Trials?

Brown University (Rhode Island)

Preceptors: Dr. Jeffrey Gildersleeve, Ms. Natalie Flanagan

AM-101. Joy Johnson

Phage Resistance Mechanisms of Multidrug Resistant Klebsiella pneumoniae

University of California, San Diego (California)

Preceptors: Dr. Shayla Hesse, Dr. Manoj Rajaure, Dr. Sankar Adhya

AM-102. Catherine Jones

Detection of Amplification and Rearrangement of the PD-L1 Gene in different types of B-cell Lymphomas

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Svetlana Pack, Dr. Elaine Jaffe, Ms. Shannon, Skarshaug, Dr. Zied Abdullaev

AM-103. Nicholas Kalinowski

Inhibition of Nf-kb by Tumor Initiating Cell Targeting Drugs

McLean School (Virginia)

Preceptors: Dr. Christina Annunziata, Ms. Michelle Ozaki, Mr. Franklin Ning

AM-104. Anusha Kambala

Impact of Inhibiting Glutamine Metabolism with DON Prodrugs on Tumor Growth in Canine Glioma: A Comparative Approach to Brain Tumor Research

University of Maryland, College Park (Maryland)

Preceptors: Dr. Amy LeBlanc, Ms. Christina Mazcko, Dr. Ling Ren

AM-105. Eli Kane

Relationship of Cytokines to Neurotoxicity Following CAR-T Cell Therapy in Patients with Relapsed/Refractory ALL

University of Maryland, College Park (Maryland)

Preceptor: Dr. Nirali Shah

AM-106. Julia Kepley

Development of a High-Dimensional Extracellular Vesicle (EV) Profile Pipeline for Clinical Samples

Towson University (Maryland)

Preceptor: Dr. Jennifer Jones

AM-107. Jee Hun Kim

Molecular mechanisms that prevent mislocalization of centromeric histone H3 variant CENP-A and chromosomal instability (CIN) in human cells

Colgate University (New York)

Preceptors: Dr. Munira Basrai, Dr. Roshan Shrestha, Ms. Grace Ahn

AM-108. Madeline Kim

Basal and Induced Expression of Endogenous Retroviruses in Malignant Pleural Mesothelioma

University of Chicago (Illinois)

Preceptors: Ms. Julie Hong, Dr. David Schrupp

AM-109. Margot Kim

Schweinfurthin Toxicity on Malignant Peripheral Nerve Sheath Tumor Cells

Vanderbilt University (Tennessee)

Preceptors: Dr. Karlyne Reilly, Mr. Robert Tuskan

AM-110. Timothy King

Regulation of IL-8 expression by Lysyl Oxidase in Anaplastic Thyroid Cancer

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Myriem Boufraquech, Dr. Electron Kebebew

AM-111. Jessica Kline

The CSF-1R inhibitor, Pexidartinib, alters the immune microenvironment in embryonal rhabdomyosarcoma

Washington University in St. Louis (Missouri)

Preceptors: Dr. Daniel Beury, Dr. Meera Murgai, Dr. Sabina, Kaczanowska, Dr. Rosandra Kaplan

AM-112. Melissa Kolick, Laura Trilling

The Relationship between p-AKT and p-mTOR Expression in Pancreatic Cancer and Clinical Outcomes

Salisbury University (Maryland), Winthrop University (South Carolina)

Preceptor: Dr. Astin Powers

AM-113. Sai Aparna Konde

Molecular Subtypes of Hepatocellular Carcinoma Linked to Plk1 Signaling

Baylor University (Texas)

Preceptors: Dr. Xin Wang, Dr. Jinping Liu

AM-114. Laurie Kostecka

Conditional expression of endogenous HRASG12D and KRASG12D alleles in primary keratinocytes reveals a dose dependent requirement for tumor formation

University of Tampa (Florida)

Preceptors: Ms. Alicia Mizes, Dr. Christophe Cataisson, Dr. Stuart Yuspa

AM-115. Bella Kotlyar

Exploring the Association between Coffee Consumption and Leukocyte Telomere Length

Yale University (Connecticut)

Preceptors: Dr. Erikka Lofffield, Dr. Neal Freedman, Dr. Rashmi Sinha

AM-116. Uma Krishnan

Identification and Characterization of Microbes using the Cancer Genomics Cloud

Poolesville High School (Maryland)

Preceptors: Dr. Steve Tsang, Dr. KanakaDurga Addepalli, Dr. Sean Davis

AM-117. Randolph Larsen

Constructing an Improved Blood-Brain Barrier Model Using Endothelial Cells Derived from Induced Pluripotent Stem Cells

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Lin Xiao, Dr. Anurag Paranjape, Dr. Patricia Steeg

AM-118. Sarah Baila Lazar

Uncovering dormant replication origins in human cells

Ateres Bnos Yerushalayim (Non-U.S.)

Preceptors: Dr. Cristophe Redon, Dr. Mirit Aladjem

AM-119. Quynh Le

Evaluating Novel Drug Combinations Targeting Pediatric Sarcoma Cellular Metabolism

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Sameer Issaq, Dr. Lee Helman

AM-120. Alycia Lee

Identification of Regulatory Elements Directing the Expression of Foxn1 in Thymic Epithelial Cells and Keratinocytes

Wissahickon High School (Pennsylvania)

Preceptors: Dr. Avinash Bhandoola, Dr. Brian Larsen

AM-121. Katharyn Lee

Mechanistic Investigation of the Role of DRD1 in Lung Cancer

Indiana University (Indiana)

Preceptors: Dr. Leila Toulabi, Dr. Brid Ryan

AM-122. Rebecca Lee

Roles of Tumor Suppressors in Breast Cancer Metastasis

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Zhiguang Xiao, Dr. Li Yang

AM-123. Nicole Leggiero

Life Can Change in an Instant

Towson University (Maryland)

Preceptors: Dr. Terri Armstrong, Dr. Mark Gilbert, Ms. Elizabeth Vera

AM-124. Hiwot Lema

Effects of MAP Kinase inhibition in RAS Mutated Neuroblastoma

University of Maryland, College Park (Maryland)

Preceptor: Dr. Marielle Yohe

AM-125. Chana Devora Levine

Comparison of Various Outside Molecular Assays to Internal Assays for Patients on MATCH and MPACT trials

Lander College for Women, Touro College (New York)

Preceptors: Dr. Alice Chen, Dr. Naoko Takebe, Dr. Geraldine Helen O'Sullivan Coyne

AM-126. Audrey Ling

Novel epidermal growth factor receptor (EGFR) mutation in advanced thymic carcinoma

Dickinson College (Pennsylvania)

Preceptors: Dr. Arun Rajan, Dr. Udayan Guha, Dr. Mark Raffeld, Dr. Liqiang Xi

AM-127. Cameron Lingenfelter

Investigating the Interaction of Circadian Rhythm Protein BMAL1 and Metastasis Modifier Protein BRD4SF

College of William and Mary (Virginia)

Preceptors: Dr. Ngoc-Han Ha, Dr. Kent Hunter

AM-128. Avery Liou

Impact of Stromal Cell Phenotypic Switching on Immune Cells

Montgomery Blair High School (Maryland)

Preceptors: Dr. Sabina Kaczanowska, Dr. Rosandra Kaplan

AM-129. Jacob Lissoos

Screening for hepatotoxicity of HTS hits

Tufts University (Massachusetts)

Preceptors: Dr. Girma Woldemichael, Dr. Emad Darvishi

AM-130. William Liu

Investigating the Mechanisms Underlying SOX9-Mediated Survival of p53 Defective Osteosarcoma Cells

Richard Montgomery High School (Maryland)

Preceptors: Dr. Jing Huang, Dr. Hualong Yan

AM-131. Sydney Loria

Identification of Novel N-Myc Protein Co-Factor Implicated in High-Risk Neuroblastoma

Colgate University (New York)

Preceptors: Dr. Zhihui Liu, Dr. Carol Thiele

AM-132. Jana Lu

Dietary intake of nutrients associated with one carbon metabolism and endometrial cancer risk: an analysis in the NIH-AARP Diet and Health cohort study

Duke University (North Carolina)

Preceptors: Dr. Britton Trabert, Dr. Kara Michels

AM-133. Nelson Madera

Oncogenic Activation of AGO2 in Hepatocellular Carcinoma

University of Maryland, College Park (Maryland)

Preceptors: Dr. Hien Dang, Dr. Xin Wang

AM-134. Rebekah Madrid

Activity of CDK and NAMPT inhibitors used in combination in Ewing sarcoma cell lines

Montclair State University (New Jersey)

Preceptors: Ms. Anna Gibson, Dr. Christine Heske

AM-135. Reyneir J. Magee

Regulation of NFAT 1 Signaling in T-Cells by Phosphorylation of Serine 79

Howard University (District of Columbia)

Preceptors: Dr. Muhammad S. Alam, Dr. Jonathan D. Ashwell

AM-136. Ruchika Mahapatra

Analyzing the role of AUF1 and MCPIP-1 in Dicer-1 protein regulation in Kaposi's sarcoma-associated herpesvirus

Mission San Jose High School (California)

Preceptors: Dr. Joseph Ziegelbauer, Dr. Insun Kook, Dr. Anna Serquina

AM-137. Esther Maidoh

The Organization and Role of Non-Muscle Myosin II Isoforms in Secretory Granule Integration in vivo.

University of Maryland, College Park (Maryland)

Preceptors: Dr. Seham Ebrahim, Dr. Roberto Weigert

AM-138. Zanaib Malik

Regulation of galactose promoters P1 & P2 by GalR HU, and cAMP-CRP complex

University of Maryland, Baltimore (Maryland)

Preceptors: Dr. Dale Lewis, Dr. Sankar Andya

AM-139. Karra Manier

Don't Ask, Don't Tell: Incidence and Impact of Altered Body Image in Head and Neck Cancer and Brain Tumor Patients

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Terri Armstrong, Dr. Lindsay Rowe, Dr. Mark, Gilbert, Ms. Judy Welsh

AM-140. Erin Markle

Assessing the Roles of Sphingomyelin in Retroviral Production and Infectivity via N-SMase Inhibition

Colorado State University (Colorado)

Preceptors: Dr. Alex Compton, Dr. Saliha Majdoul

AM-141. Jessica Martin

Thrombospondin-1 regulate histones H3K4 and H3K27 modification in Jurkat T cells

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Sukhbir Kaur, Dr. David Roberts

AM-142. Monica Masterson

Therapeutic strategies for targeting malignant peripheral nerve sheath tumors

University of Rochester (New York)

Preceptor: Dr. Jack Shern

AM-143. Sarah Mathew

Inhibition of Lactate Dehydrogenase in Cancer: A Promising Target for Enhanced Radiosensitivity

Princeton University (New Jersey)

Preceptors: Dr. James B. Mitchell, Dr. Sarwat Naz

AM-144. Rebecca Matthews

Combinatorial Cloning with Gateway Technology™ Yields Recombinant DNA for Multiple Hosts

University of Maryland, College Park (Maryland)

Preceptors: Mrs. Carissa Grose, Dr. Dominic Esposito

AM-145. Isabella Meerzaman

Breast Cancer: Risk, Carcinogenesis, and Prevention

Thomas Alva Edison High School (Virginia)

Preceptor: Dr. Barbra Dunn

AM-146. Somil Mehta

Investigating the Interaction between Tissue Inhibitor of Metalloprotease-2 (TIMP-2) and Integrin Alpha 3 Beta1 Ectodomain

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ananda Chowdhury, Dr. William Stetler-Stevenson

AM-147. Sheindel Meister

The Efficacy of the Pharmacological Chaperone Pyrimethamine in the Treatment of Tay-Sachs Disease

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Mrs. Meg Goswami, Dr. Daniel Edelman

AM-148. Shoshana Menken

The use of cancer vaccines to target the cancer testis antigen NY-ESO-1 in melanoma patients

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Ms. Emily King, Dr. Daniel Edelman

AM-149. Elizabeth Messineo, Arjun Guthal

Expression of Bile Acid Receptors in Liver Sinusoidal Endothelial Cells: A Proposed Mechanism for Anti-Tumor Immunity in Mouse Livers

Vanderbilt University (Tennessee), Thomas Wootton High School (Maryland)

Preceptors: Dr. Tim Greten, Dr. Chi Ma, Dr. Qiong Fu

AM-150. Charlotte Anne Miller

The Effect of DNA-pk Inhibition on the Radioresponse of Glioblastoma

Holton-Arms School (Maryland)

Preceptors: Dr. Jennifer Lee, Dr. Kevin Camphausen

AM-151. Hope Miller

Using CRISPR to Knock Out Interferon-gamma Receptor One on Tumor Cells

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Ken-ichi Hanada, Mr. Nick Zhao

AM-152. Nooshin Mirza Nasiri

Changes In Expression Of Drug Resistance-Associated Genes After Chronic Drug Treatment In A Model Of Kaposi Sarcoma

University of North Texas (Texas)

Preceptors: Dr. Fatima Ali-Rahmani, Dr. Rebert Robey, Dr. Michael Gottesman

AM-153. Wardah Mohammed

Optimizing lentiviral CRISPR delivery systems

Catholic university of America (District of Columbia)

Preceptor: Dr. Berkley Gryder

AM-154. Caroline Moon

Development of A New and Rapid Fixation/Sterilization Protocol for High-Risk Infected Tissue

Virginia-Maryland College of Veterinary Medicine (Virginia)

Preceptors: Dr. Joon Chung, Dr. Stephen Hewitt

AM-155. Sriya Movva

The link between sphingolipid metabolism and the increased survival of IDH1 mutated glioma patients

Vanderbilt University (Tennessee)

Preceptors: Dr. Mioara Larion, Mr. Tyrone Dowdy, Ms. Alejandra, Cavazos Saldana, Dr. Victor Ruiz Rodado

AM-156. Diego Munoz

Validation of a zebrafish xenograft model system for gene expression analysis of human cancer

University of Maryland, College Park (Maryland)

Preceptors: Ms. Alexis Devine, Ms. Chaunte Lewis, Dr. Kandice Tanner

AM-157. Tanzeem Naqvi

NO-mediated Kynurenine/AHR Signaling Enhances Disease Progression in Pancreatic Cancer

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Perwez Hussain, Dr. Limin Wang, Dr. Peijun He, Dr. Shouhui Yang

AM-158. Shivani Nellore

Some cancer associated K-Ras mutants can have gain of function even when bound to GDP

North Oldham High School (Kentucky)

Preceptors: Dr. Xiaolan Qian, Dr. Alex Papageorge, Dr. Dunrui, Wang, Dr. Doug Lowy

AM-159. Dalena Nguyen

Use of Health Behavior Theory and Conceptual Models in Funded Team-based Cancer Care Delivery Grants

Columbia University Mailman School of Public Health (New York)

Preceptors: Dr. Sallie Weaver, Ms. Veronica Chollette

AM-160. Eric Nguyen

The Effect of Oncogenic KRAS Expression on TRAIL Sensitivity in Breast Cancer Cell Lines

University of Maryland, College Park (Maryland)

Preceptors: Dr. Stanley Lipkowitz, Mr. Samuel Gilbert, Dr. Yoshimi, Greer, Ms. Donna Voeller

AM-161. Taivan Odzorig

The Biochemical and Structural Study of AAA+ p97 inhibitors

University of Maryland, College Park (Maryland)

Preceptors: Dr. Wai-Kwan Tang, Dr. Di Xia

AM-162. Foyinsola Olaloye

The Contribution of Bacterial Response Genes in Skin Tumorigenesis in Ikkalpha Conditional Knockouts Using Genetically Engineered Modified Mice.

Frostburg State University (Maryland)

Preceptors: Dr. Yinling Hu, Mrs. Jami Willette Brown

AM-163. Maria Magdalena Ortiz

Detection and Enumeration of Circulating Tumor Cells in blood using Flow Cytometry protocol

San Francisco State University (California)

Preceptors: Dr. Maria Olga Hernandez, Dr. Xin Wei Wang

AM-164. Albert Owusu-Ansah

The Regulation of TNFR by TREM2 in Bone Marrow Macrophages.

University of Maryland, Eastern Shore (Maryland)

Preceptors: Dr. Marieli Gonzalez-Cotto, Dr. Daniel Mcvicar

AM-165. Teresa Ozga

CD47 morpholino antisense may target miRNA to make cells radioresistant through exosome influx

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Sukhbir Kaur, Dr. David Roberts

AM-166. Bhuvana Pandalai

Thymus-derived glucocorticoids in T cell development

Poolesville High School (Maryland)

Preceptors: Dr. Matthew Taves, Dr. Johnathan Ashwell

AM-167. Adam Park

T-cells targeting mutated self-antigens can be more effective than those targeting non-mutated self-antigens in adoptive immunotherapy of B16 melanoma.

Bethesda-Chevy Chase High School (Maryland)

Preceptors: Dr. Zhiya Yu, Dr. Ken-ichi Hanada, Dr. Nicholas Restifo

AM-168. Nathaniel Patel

Analysis of Hair Proteins in Patients with Trichothiodystrophy

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Kenneth Kraemer, Dr. John DiGiovanna, Dr. Lisa Jenkins

AM-169. Joseph Paul

Xeroderma pigmentosum patient from Morocco with XPC founder mutation

Howard University (District of Columbia)

Preceptors: Dr. Kenneth Kraemer, Dr. Sikandar Khan

AM-170. Madeline Perez

Impact of Cognitive Symptoms on Health and Function in Primary Brain Tumor Patients

Columbia University (New York)

Preceptors: Dr. Terri Armstrong, Ms. Elizabeth Vera, Dr. Mark Gilbert

AM-171. Alejandro Perez-Albela

Elucidating the Role of BAP1 in the Tumorigenesis of Clear Cell Renal Cell Carcinoma

Montgomery College (Maryland)

Preceptors: Dr. Marston Linehan, Dr. David Wei, Dr. Christopher, Ricketts, Dr. Ming-Hui Wei

AM-172. Nancy Qin

Radiation Induced Non-Coding RNAs after Whole Body Irradiation in Mice

Cornell University (New York)

Preceptors: Dr. Moly Aryankalayil, Mr. Joel Levin

AM-173. Apurva Raghu, Erik Paletzki

Differential Transcription Factor Binding to Complementary DNA Sequences

Poolesville High School (Maryland), Washington-Lee High School (Virginia)

Preceptor: Dr. Charles Vinson

AM-174. Robin Raley

Evaluating the role of CCAAT/enhancer binding protein delta in the endoplasmic reticulum stress response of breast cancer cells

University of Arkansas (Arkansas)

Preceptors: Dr. Esta Sterneck, Dr. Namratha Sheshadri

AM-175. Yuval Raviv

Evaluating TGF-beta Effect on Breast Cancer Stem Cells by the Single-Cell Western System

University of Maryland, College Park (Maryland)

Preceptors: Dr. Binwu Tang, Dr. Jin-Qiu Chen, Dr. Lalage Wakefield

AM-176. Peter Raymond-Smiedy

When Mutant Chaperones Attack: Mutations of RNA Chaperone Hfq that are Worse than No Hfq

Onondaga Community College (New York)

Preceptors: Dr. Susan Gottesman, Dr. Kumari Kavita

AM-177. Emily Reagle

Isostichopin: Initial Studies on a Potent Cytotoxic Protein from the Cookie Dough Sea Cucumber

Isosticopus badionotus

Oakdale High School (Maryland)

Preceptors: Dr. Carter Mitchell, Dr. Barry O'Keefe

AM-178. Bianca Reginauld

To investigate the effect of therapeutic SIRPFc on breast cancer stem cells via next generation RNA sequencing

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sukhbir Kaur, Dr. David Roberts

AM-179. Alexander Restifo, Kennedy Salamat, Akrit Sinha, Shriienidhie Ganesh, Rosemary Bliss

Improved workflows for cryo-EM structure determination

Bethesda-Chevy Chase High School (Maryland), Montgomery Blair High School (Maryland),

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

School for Science and Technology (Virginia), Seneca Valley High School (Maryland)

Preceptors: Dr. Oleg Kuybeda, Ms. Tai Wei Guo, Dr. Lesley, Earl, Dr. Sriram Subramaniam

AM-180. Christopher Richard

Assessing the effects of ECM components on TIMP2 function.

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. David Peeney, Dr. William Stetler-Stevenson

AM-181. Maria Rincon

Trends in Disparities of Health-Related Quality of Life in Medicare Advantage Beneficiaries (1998-2014)

Yale School of Public Health (Connecticut)

Preceptor: Dr. Erin Kent

AM-182. James Rogers

Evaluation of Small Nucleotide and Structural Variants in Rare CNS Tumors

Tulane University (Louisiana)

Preceptors: Dr. Terri Armstrong, Dr. Mark Glibert

AM-183. Mia Rosenfeld

Investigating epigenetic biomarkers of lung cancer

University of North Carolina Wilmington (North Carolina)

Preceptors: Dr. Ana Robles, Dr. Delphine Lissa, Dr. Curtis Harris

AM-184. Tetyana Rudenko

3D-Printing Physical Phantoms for the Radiation Exposure Assessment of Overweight and Obese Patients

Montgomery College (Maryland)

Preceptors: Dr. Matthew Mille, Dr. Choonsik Lee

AM-185. Sahil Sahni

The Regulation of ETS Transcription Factor Expression

Wheaton High School (Maryland)

Preceptors: Dr. Natasha Caplen, Dr. Nirmalya Sen, Dr. Allison Cross

AM-186. David Jose Salas

On the roles of signal relay in neutrophil rolling, adhesion and extravasation

California State University, Dominguez Hills (California)

Preceptors: Dr. Bhagawat Subramanian, Dr. Carole Parent

AM-187. Rodrigo Sandon

TIMP2 Inhibits Tumor Growth in the Mouse Model of Lewis Lung Carcinoma

Watkins Mill High School (Maryland)

Preceptors: Dr. William Stetler-Stevenson, Dr. Sarvesh Kumar

AM-188. Aviva Schwartz

The effects of targeted therapy drug, Sacituzumab Govitecan, on patients with pretreated metastatic triple negative breast cancer

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Ritu Chaudhary, Dr. Daniel Edelman

AM-189. Amanda Sciorillo

Protein Partners of Allelic Variants in the mTOR HEAT Domains

Marymount University (Virginia)

Preceptors: Dr. Patty Wiley, Mr. Zaw Phyoo, Dr. Shuling, Zhang, Dr. Beverly Mock

AM-190. Ematu Sesay

A comparison of copy number variations at the 1p36.3 region between African Americans and European Americans with non-small cell lung cancer

High Point High School (Maryland)

Preceptors: Dr. Khadijah Mitchell, Dr. Elise Bowman, Dr. Brid Ryan

AM-191. Taresh Sethi

ARID1A as a regulator of the DNA damage response and implications for drug sensitivity: A Clinical and Translational Study

Stanford University (California)

Preceptors: Dr. Anish Thomas, Dr. Yves Pommier

AM-192. Thiagarajan Sezhian

Development of a HIF2Alpha Inhibitor to Modulate Hypoxia Signaling in Tumor Cells

SUNY Downstate School of Medicine (New York)

Preceptors: Dr. Zhengping Zhuang, Dr. Herui Wang, Ms. Qi Song

AM-193. Hamzah Shah

New antibody-drug conjugates targeting glypican-3 for liver cancer therapy

Wootton High School (Maryland)

Preceptors: Dr. Ying Fu, Dr. Bryan Fleming, Dr. Mitchell Ho

AM-194. Myeshia Shelby

The effects of LMP 744 treatment on protein localization

Howard University (District of Columbia)

Preceptors: Dr. Peter Cheney, Dr. Keli Agama

AM-195. Victoria Shen

A Novel Volumetric Analysis of Chordomas Improves Tumor Size Estimation

River Hill High School (Maryland)

Preceptors: Dr. Deric Park, Dr. Mohammadhadi Bagheri

AM-196. Brandon Shim

FIB-SEM imaging and 3D reconstructions reveal DNA packaging intermediates during B. subtilis sporulation

Cornell University (New York)

Preceptors: Dr. Kedar Narayan, Dr. Sriram Subramaniam

AM-197. Twan Sia

Clonal Expansion of HIV Infected Cells In Vivo

Swarthmore College (Pennsylvania)

Preceptor: Dr. Stephen Hughes

AM-198. Gurbani Singh

Medication Adherence in Pediatric Patients with Neurofibromatosis Type 1 on a Phase II Clinical Trial

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Andrea Gross, Dr. Brigitte Widemann

AM-199. Jonathan Smisson

Subcellular localization of Metadherin in Malignant Pleural Mesothelioma (MPM)

George Washington University (District of Columbia)

Preceptors: Dr. Chuong Hoang, Dr. Nathanael Pruett

AM-200. William Smith

Primary to Metastatic Tumor Relationships based on Specific DNA Methylation and Gene Expression

Yale University (Connecticut)

Preceptors: Dr. Maxwell Lee, Dr. Howard Yang, Mrs. Chin-Hsien Tai

AM-201. Eshaan Soman

Preparation and Characterization of Lipid Nanoparticles Containing Photodynamic Therapy Drugs

Hillsborough High School (New Jersey)

Preceptors: Dr. Anu Puri, Dr. Mathias Viard

AM-202. Kevin Spiekermann

Functional Divergence amongst Activated T Cells is Enforced through Cytokine Competition

University of California, San Diego (California)

Preceptors: Dr. Ratnadeep Mukherjee, Dr. Grégoire Altan-Bonnet

AM-203. Meredith Srou

Using Protease Reporters to Track Apoptosis in Murine Carcinomas

Dartmouth College (New Hampshire)

Preceptor: Dr. Duane Hamilton

AM-204. Brittany Stewart

Identifying Novel Viral Genomes from Genetic Dark Matter

Tarleton State University (Texas)

Preceptors: Dr. Christopher Buck, Mr. Michael Tisza, Dr. Alberto Peretti, Ms. Nicole Welch

AM-205. Carolyn Subramaniam

Coupling the Fate and Function of T cells with Mitochondrial Uncoupling Protein 2

Montgomery Blair High School (Maryland)

Preceptors: Dr. Madhusudhanan Sukumar, Dr. Nicholas Restifo

AM-206. Eric Sun

Single cell analysis on the role of macroH2A1.2 on DNA replication stress response

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Philipp Oberdoerffer, Dr. Andy Tran

AM-207. Abigail Svoisky

Approaches to Locating the BRD4 Kinase Domain

Charles E. Smith Jewish Day School (Maryland)

Preceptors: Ms. Jocelyn Weissman, Dr. Dinah Singer

AM-208. Amin Tafti

Examination of the Arf GAP ARAP2 Binding to the Adaptor Protein APPL1

Temple University (Pennsylvania)

Preceptors: Dr. Ruibai Luo, Dr. Paul Randazzo

AM-209. Julia Tager

Implementing Palliative Care Standards in the Pediatric Oncology Setting: Challenges and Opportunities

University of Massachusetts, Amherst (Massachusetts)

Preceptor: Dr. Lori Wiener

AM-210. Christopher Tao

Is Water Pipe Smoking Safer Than Cigarette Smoking? A Comparison of Cytokines Released After Exposure in In Vitro and In Vivo

River Hill High School (Maryland)

Preceptors: Dr. Ying Xiong, Dr. Jason Foley, Dr. David, Schrump, Dr. Haobin Chen

AM-211. Bethelihem Tebase

Development of a bioluminescence assay system for detection of ABCB1 and ABCG2 inhibition

Northwestern High School (Maryland)

Preceptors: Dr. Michael Gottesman, Ms. Andrea Robinson, Dr. Robert Robey

AM-212. Aishat Tepede

The Connection between Calcium Intake and Prostate Cancer

University of Illinois at Urbana-Champaign (Illinois)

Preceptor: Dr. Tanya Agurs-Collins

AM-213. Pranaya Terse

Downstream Effector Mechanisms of the Synthetic Immune Defense Regulatory Peptide RP-182 in Macrophages

University of Maryland, College Park (Maryland)

Preceptors: Dr. Udo Rudloff, Dr. Rushikesh Sable

AM-214. Garrett Tisdale

Unsupervised Clustering of Transcriptional Bursting Data Reveals General Principles of Gene Expression Heterogeneity

Boise State University (Idaho)

Preceptors: Dr. Daniel Larson, Dr. Yihan Wan

AM-215. Leann To

Genetic screen for factors involved in sRNA regulation in E. coli

University of Oklahoma (Oklahoma)

Preceptors: Dr. Jiandong Chen, Dr. Susan Gottesman

AM-216. Jack Tsintolas

MYF6 Expression In Hairy Cell Leukemia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Evgeny Arons, Mr. Mark Sokolsky

AM-217. Julian Urbina

Dissecting the interactions of Arf1 GTPase with Arf GTPase-activating proteins using chemical cross-linking

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Dr. Neeladri Roy, Dr. Paul Randazzo

AM-218. Nicholas Verdini

Development of an IL7R CAR T-cell therapy for pediatric T-cell acute lymphoblastic leukemia

Emmanuel College (Massachusetts)

Preceptors: Dr. Terry Fry, Dr. Haiying Qin

AM-219. Sara Verschleisser

Epstein-Barr Virus Dereglulation of MYC and BCL2L11 in B Cells Contributes to the Genesis of Burkitt's Lymphoma

Yeshiva of Greater Washington (Maryland)

Preceptors: Ms. Andrea Kennard, Dr. Daniel Edelman

AM-220. Preet Walia

Immune Microenvironment of Pediatric Diffuse Intrinsic Pontine Gliomas

University of Toronto (Non-U.S.)

Preceptors: Dr. Kathy Warren, Dr. Martha Quezado, Ms. Anna, Gurney, Dr. Astin Powers

AM-221. Katharine Walker-Bawa

Characterization of the Histological and Molecular Properties Conferred by the Addition of Guanidine Thiocyanate to a Buffered Alcohol-Based Fixative

George Washington University (District of Columbia)

Preceptors: Dr. Stephen Hewitt, Dr. Joon-Yong Chung

AM-222. Chaoyang Wang

Niclosamide Exerts Anti-Cancer Stemness Activity in Preclinical Models of Pancreatic Cancer: A Role in the Adjuvant Setting

University of Maryland, College Park (Maryland)

Preceptors: Dr. Yansong Bian, Dr. Udo Rudloff, Dr. Dandan Li

AM-223. Hannah Warshawsky

The Effects of Truncated APC Fragments on Colorectal Cancer

University of Maryland, College Park (Maryland)

Preceptor: Mr. Markus Brown

AM-224. Perel Wein

Comparing Attention Deficit Hyperactivity Disorder Medications, Methylphenidate and Dexamphetamine, in Treatment of Obesity

Hebrew Theological College (Illinois)

Preceptors: Ms. Sarah Deasy, Dr. Daniel Edelman

AM-225. Timothy Westlake

Polo-like kinase Cdc5 mediated phosphorylation of Cse4 regulates faithful chromosome segregation

Cornell University (New York)

Preceptors: Dr. Prashant K. Mishra, Dr. Munira A. Basrai

AM-226. Lea Widemann

Overcoming resistance to BET-bromodomain inhibition via small-molecule recruitment of protein degradation machinery

University of Maryland, College Park (Maryland)

Preceptors: Dr. Berkley Gryder, Dr. Javed Khan

AM-227. Michael Williams

Financial Burden on Cancer Patients

University of Michigan (Michigan)

Preceptors: Dr. Michelle Mollica, Dr. Ann Geiger

AM-228. Anna Word

Improved method of single-cell epigenome analysis

Vanderbilt University (Tennessee)

Preceptor: Dr. Giovanna Tosato

AM-229. Daniel Wu

Resource Oversupply in Carcinogenesis: Modelling a Common Theme in Diverse Risk Factors

Timber Creek High School (Florida)

Preceptor: Dr. John Pepper

AM-230. Jessica Wu

Quantifying Endogenous Downstream Targets of p53 using Single Molecule RNA FISH

Johns Hopkins University (Maryland)

Preceptors: Dr. Eric Batchelor, Dr. Marie Harton

AM-231. Maggie Wu

Assessing HPV Vaccination Coverage in States with and without School-Entry Federal Mandates

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Nancy Emenaker

AM-232. Qixin Wu

Targeting Nrf2 Mediated Antioxidative Pathway to Suppress IDH1 Mutated Glioma

Johns Hopkins University (Maryland)

Preceptors: Dr. Chunzhang Yang, Dr. Yang Liu, Dr. Yanxin Lu

AM-233. Clarissa Xia

A Functional Comparison of Rex-Orf1 in Different Subtypes of HTLV-1

Richard Montgomery High School (Maryland)

Preceptors: Dr. Genoveffa Franchini, Dr. Dai Fujikawa

AM-234. Jane Xie

Investigating the role of Smurf2 phosphorylation on DNA damage response

University of Maryland, College Park (Maryland)

Preceptors: Dr. Liu-Ya Tang, Dr. Ying Zhang

AM-235. Avanish Yendluri

Characterizing APOBEC3G Mutants and Their Ability to Block HIV-1 Retroviral Replication

Poolesville High School (Maryland)

Preceptors: Dr. Vinay Pathak, Dr. Krista Frankenberry

AM-236. Ornela Yossa Nganpe

Cell death mechanism of a G-quadruplex stabilizing drug

James Hubert Blake High School (Maryland)

Preceptors: Mr. Zaw Phy, Mr. Daniel Connors, Ms. Sayeh, Gorjifard, Dr. Beverly Mock

AM-237. Helen Zhang

PERK Signaling Mediates the Resistance to BRAF Inhibitors in Melanoma with Impaired PTEN

Walt Whitman High School (Maryland)

Preceptors: Dr. Yanlin Yu, Dr. Glenn Merlino

AM-238. Amy Zhong

Structural investigation of TMEM205, an integral membrane protein involved in cisplatin resistance

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Dr. Di Xia, Dr. Xiaoyun Bai

National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG)

AM-239. Colin Adler

Usual adult occupation and risk of prostate cancer in West African men: The Ghana Prostate Case Control Study

Emory University (Georgia)

Preceptor: Dr. Stella Koutros

AM-240. Ngozi Alia

Analysis of Racial Cancer Disparities in Breast Cancer, Colorectal Cancer, and Prostate Cancer with a focus on Prostate Cancer and Vitamin D

Frostburg State University (Maryland)

Preceptors: Dr. Tracy Layne, Dr. Demetrius Albanes

AM-241. Riyadh Atrah

Exploring the effect of mir-577 and mir-3130-5p in pancreatic cancer

University of Nevada, Las Vegas (Nevada)

Preceptors: Dr. Ashley Jermusyk, Dr. Laufey Amundadottir

AM-242. Andrea Ayers

Oophorectomy and risk of primary liver cancer and fatty liver disease among women in the UK Clinical Practice Research Datalink

George Washington University (District of Columbia)

Preceptors: Dr. Jessica Petrick, Dr. Katherine McGlynn

AM-243. Arash Delavar

Prospective study of ultraviolet radiation exposure and risk of cataracts in the United States

Washington University in St. Louis (Missouri)

Preceptor: Dr. Elizabeth Cahoon

AM-244. Sarah Groover

Risk factors for hepatitis delta virus infection in The Gambia

Oklahoma State University (Oklahoma)

Preceptors: Dr. Thomas O'Brien, Dr. Parag Mahale

AM-245. Summer Harvey

Association of Life Course Obesity and Endometrial Cancer Risk: A Systematic Review and Meta-Analysis

University of Virginia (Virginia)

Preceptors: Dr. Megan Clarke, Dr. Nicolas Wentzensen

AM-246. Jessica Islam

Cancers Averted Among HIV-Infected Adults during the Modern ART Era

University of North Carolina at Chapel Hill, Gillings School of Global Public Health (North Carolina)

Preceptor: Dr. Meredith Shiels

AM-247. Emahlea Jackson

Long Term Stability of Oral Microbiome Samples

Seattle Pacific University (Washington)

Preceptors: Dr. Emily Vogtmann, Dr. Christian C. Abnet

AM-248. Victoria Kennerley

Colorectal Cancer Incidence Patterns in United States Counties and States, 2000-2014

University of Florida (Florida)

Preceptors: Dr. Philip Rosenberg, Dr. Pavel Chernyavskiy

AM-249. Sarah Kim

Comparison of normal tissue dose for prone and supine setups for breast radiotherapy

Clarksburg High School (Maryland)

Preceptor: Dr. Choonsik Lee

AM-250. Soyun Kim

Multi-locus analysis of HPV16 genome reveals new loci associated with cervical cancer

Georgetown University (District of Columbia)

Preceptor: Dr. Kai Yu

AM-251. Hela Koka

Characteristics of Chinese women stratified by breast cancer subtypes

University of Maryland, College Park (Maryland)

Preceptor: Dr. Rose Yang

AM-252. Daniel Muldoon

Androgen Therapy Modulates Lipid Particle Numbers in Dyskeratosis Congenita

School of Public Health, University of Minnesota (Minnesota)

Preceptor: Dr. Payal Khincha

AM-253. Ashley Pantaleao

It's just in the cards that you're dealt: Lessons on living with LFS from adolescent/young adult children and their parents

University of Maryland, College Park (Maryland)

Preceptors: Dr. Mark Greene, Ms. Jennifer Young, Dr. Allison, Werner-Lin, Dr. Maria Isabel Achatz

AM-254. Jessica Rothman

Immunoglobulin-related profiles and outcomes in relatives of familial Waldenström macroglobulinemia cases

American University (District of Columbia)

Preceptors: Dr. Ruth Pfeiffer, Dr. Mary McMaster

AM-255. Gabriella Schito

Functional Characterization of a Putative Novel Gene in Relation to Bladder Cancer

Howard Community College (Maryland)

Preceptors: Dr. Rouf Banday, Dr. Ludmila Prokunina-Olsson

AM-256. Atara Siegel

Rate of prophylactic mastectomy in germline Tp53 mutation carriers

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

Preceptors: Ms. Renee Bremer, Dr. Payal Khincha, Dr. Maria, Achatz, Dr. Jennifer Loud

AM-257. Sophie Smith

Do Androgen Receptor Inhibitors Promote Progression of Prostate Cancer to Therapy-Resistant Stage?

Middlebury College (Vermont)

Preceptor: Dr. Kalpit Shah

AM-258. Kelsey Stidd

Young Onset Melanoma in Melanoma-Prone Families

University of South Florida (Florida)

Preceptor: Dr. Alisa Goldstein

AM-259. Joselin Vargas

Evaluation of functional impact of natural protein-changing polymorphisms of IFNL4 in relation to infection and cancer

Stony Brook University (New York)

Preceptors: Dr. Lumila Prokunina-Olsson, Mrs. Adeola Obajemu

AM-260. Ishmael Williams

Addressing Pancreatic Malignancy: International Rates of Pancreatic Cancer

Howard University (District of Columbia)

Preceptors: Dr. Rachael Stolzenberg-Solomon, Dr. Vanessa Gordon-Dseagu

National Eye Institute (NEI)

AM-261. Samuel Bennett

Stem Cell-Derived Exosomes as a Potential Glaucoma Treatment

Brown University (Rhode Island)

Preceptors: Dr. Ben Mead, Dr. Stanislav Tomarev

AM-262. Kaifa Boyce

Temporal Characterization of Exosomes Isolated From Differentiated Human Retinal Pigment Epithelial Cells

University of Maryland (Maryland)

Preceptors: Mr. Todd Duncan, Mr. William Samuel, Mr. T. Michael Redmond

AM-263. Julia Chertkof, Anne Warburton

In Vivo Approaches to Increase Pigmentation and In Vitro Tools for Drug Screening for Albinism

Bethesda Chevy Chase High School (Maryland), Stone Ridge School (Maryland)

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

AM-264. Tony Duckworth

Comparison of apically or basolaterally secreted exosomes secreted by human retinal pigment epithelial cells

Mississippi College (Mississippi)

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

AM-265. Nikhil Etikela

Enhanced Neural Network Analysis of Morphometrics in Stem Cell Derived Retinal Pigment Epithelial Cells

Hopkins School (Connecticut)

Preceptors: Dr. Nathan Hotaling, Dr. Kapil Bharti

AM-266. Fatima Gomez

Post-translation modification of RPE65 by palmitoylation: Identification of modified cysteines using Acyl-RAC assay

White Swan High School (Washington)

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

AM-267. Rohini Kallianpur

Gene Expression in Embryonic Mouse and Zebrafish Eyes

R.L. Turner High School (Texas)

Preceptor: Dr. Vijay Kalaskar

AM-268. Esther Kim

A Histology Comparison of Wild Type and Degenerative Retina Models Through Development

Johns Hopkins University (Maryland)

Preceptors: Mr. Thad Whitaker, Dr. Anand Swaroop

AM-269. June Hee Kim

The eye of the beholder: Individual differences in color preferences

Wellesley College (Massachusetts)

Preceptors: Dr. Bevil Conway, Dr. Jeremy Wilmer

AM-270. Brandon Klein

Segmentation and Quantitative Analysis of Choroidal Vasculature in Eyes with Age-Related Macular Degeneration

Loyola Marymount University (California)

Preceptors: Dr. Wai Wong, Dr. Catherine Cukras, Dr. Tiarnan Keenan

AM-271. Hima Konduru

Aryl Hydrocarbon Receptor (AhR) Signaling Enhances Effector Function of gamma delta T cells

Walter Johnson High School (Maryland)

Preceptors: Dr. Anthony St Leger, Dr. Rachel Caspi

AM-272. Adam Lazere

Neuron-Microglia Interactions Underlying Microglial Homeostasis

Oberlin College (Ohio)

Preceptors: Dr. Yikui Zhang, Dr. Wai Wong

AM-273. Choyhee Lin

Improving Training of Artificial Intelligence Based Texture and Intensity Analysis of Induced Pluripotent Stem Cell Derived Retinal Epithelial Cells

Sidwell Friends School (District of Columbia)

Preceptors: Dr. Nathan Hotaling, Dr. Kapil Bharti

AM-274. Anagha Lokhande

Alternative splicing of USH1C in the human retina and its role in Usher syndrome

Brown University (Rhode Island)

Preceptors: Mr. Benjamin Fadl, Dr. Anand Swaroop

AM-275. Daniel Lulli

Characterization of Pigment Epithelium-derived Factor Variants

Bowdoin College (Maine)

Preceptor: Dr. Patricia Becerra

AM-276. Alejandra Maiz

SLCO1B1 & ABCG2 Genes, Statin Use and Age-Related Cataract

University of Illinois at Chicago (Illinois)

Preceptors: Dr. Emily Chew, Ms. Elvira Agron, Dr. Tiarnan Keenan

AM-277. Karina Navarro

Bedside to Bench: Linking Novel Human Syndromes to Loss of Function Alleles with CRISPR/Cas9

Boston University (Massachusetts)

Preceptor: Dr. Robert Hufnagel

AM-278. Tamir Odzorig

Visualization of Bioprinted Ocular Tissue Using Immunostaining

Walter Johnson High School (Maryland)

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

AM-279. Nicole Pannullo

Protein-Protein Interactions of RPE65

Rochester Institute of Technology (New York)

Preceptors: Dr. Eugenia Poliakov, Dr. Michael Redmond

AM-280. Natalia Santiago

Characterization of Recombinant Human and Mouse Pigment Epithelium-derived Factor Receptor generated by Different Expression Systems.

Inter American University of Puerto Rico (Puerto Rico)

Preceptors: Ms. Jeanee Bullock, Dr. Preeti Subramanian, Dr. Patricia Becerra

AM-281. Jayram Sastry, Adriana Grewe

Vessel Pericyte Dropout: An Initial Event in the Development of Age-Related Macular Degeneration (AMD)

Saint Albans School (District of Columbia), Walter Johnson High School (Maryland)

Preceptors: Dr. Mones Abu-Asab, Ms. Heba Mohammed

AM-282. Esika Savsani

Characterization of Ganglion Cell Markers in the Mouse Retina

Richard Montgomery High School (Maryland)

Preceptors: Dr. Tudor Badea, Dr. Manvi Goel

AM-283. Devrat Shah

Flow Cytometry Analysis of Immune Cells During Treatment of Uveitis with Ustekinumab

University of California, Los Angeles (California)

Preceptor: Dr. Lotta Utriainen

AM-284. Bindu Srinivasa

Modulation of Gut Microbiome by Antibiotic Treatment

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Yingyos Jittayasothorn, Dr. Ryan Salvador, Dr. Rachel Caspi

AM-285. Peter Stewart

Using Machine Learning and Visomic Data Analysis to Predict and Understand Retinal Diseases

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Kapil Bharti, Dr. Nathan Hotaling

AM-286. Emile Vieta Ferrer

Expression of Zinc Finger Protein 503 (Zfp503/Nlz2) in Mouse Eye

San Juan Bautista School of Medicine (Puerto Rico)

Preceptors: Dr. Brian Brooks, Dr. Elangovan Boobalan

AM-287. Jennifer Zhu

Cone-Specific Gene Expression in the Mammalian Retina

Winston Churchill High School (Maryland)

Preceptors: Mr. Vincent Kunze, Dr. Wei Li

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

AM-288. Briana Cervantes

Identification of NEMO lysine mutants resistant to TNF-induced A20-dependent proteasomal degradation

Florida International University (Florida)

Preceptors: Dr. Eric Hanson, Dr. Younglang Lee

AM-289. Navid Chowdhury

Epigenesis: A Tool to Bridge the Bench and the Computational Analysis for Massive Parallel Sequencing

University of Maryland, College Park (Maryland)

Preceptors: Dr. Vittorio Sartorelli, Dr. Kyung Dae Ko, Dr. Stefania Dell'Orso

AM-290. Daria Coffield

Longitudinal study of disease expression in patients with Ankylosing Spondylitis

Howard University (District of Columbia)

Preceptor: Dr. Michael Ward

AM-291. Naomi Colton

Genetic deletion of Interferon-alpha receptor restores normal Interferon-gamma responses in T-bet-deficient CD4 T cells

Norfolk State University (Virginia)

Preceptors: Dr. Yohei Mikami, Dr. John O'Shea

AM-292. Katie Fairhurst

Regulation of Circadian Immune Response in the Sepsis Model

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Richard Siegel, Dr. Sarah Geiger, Ms. Taylor, Farley, Ms. Francoise Meylan

AM-293. Keyanna Franklin

X-ray Crystal Structure of HIV-1 Rev with an RNA Inhibitor of RRE Binding

University of Maryland, College Park (Maryland)

Preceptors: Dr. Altaira Dearborn, Dr. Elif Eren, Dr. Paul, Wingfield, - Dearborn , Altaira (NIH/NIAMS) [F]

AM-294. Jazz Jacobs

The effect of time-restricted feeding on metabolic and inflammatory pathways

Stevenson University (Maryland)

Preceptors: Dr. Sarah Geiger, Dr. Richard Siegel

AM-295. Somin Kim

Disease mechanisms in monogenic autoinflammatory syndromes caused by defects in mRNA splicing

Emory University (Georgia)

Preceptors: Dr. Eric Hanson, Dr. Richard Siegel

AM-296. Kathleen Marinelli

Characterization of True versus Pseudo Stenoses within the Subclavian and Axillary Arteries in Large Vessel Vasculitis

Creighton University (Nebraska)

Preceptor: Dr. Peter Grayson

AM-297. Victoria Mischley

Chemical Chaperones Down Regulate Endoplasmic Reticulum Stress In Vitro in a Rat Model of Spondyloarthritis

University of South Florida (Florida)

Preceptors: Dr. Elham Navid, Dr. Robert Colbert

AM-298. Tiffani Najadifar

Clinical Spectrum of a Rare Primary Immunodeficiency Syndrome

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Heidi Kong

AM-299. Rachel Patterson

Examination of PLCG2 in human immune dysregulation

Saint Louis University (Missouri)

Preceptor: Dr. Michael Ombrello

AM-300. Mary Rostom

Identification of Possible RNA Targets of HLX

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Markus Hafner, Dr. Dimitrios Anastasakis

AM-301. Talia Solomon

In Vivo Identification of FUBP Interactions with DNA

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Markus Hafner, Dr. Dimitrios Anastasakis

AM-302. Mitchell Wong

Defining Transcription Factor Networks in Mammalian Immune Cells

Herricks High School (New York)

Preceptors: Mr. Evan Stevens, Dr. Rafael Casellas, Dr. Kyong-Rim Kieffer-Kwon

AM-303. Tiffany Ybarra

Optimization of Multi-Color Cytometry for Comprehensive Immunophenotyping to Assess Immune System Alterations

California State University, Los Angeles (California)

Preceptor: Dr. Massimo Gadina

National Institute of Dental and Craniofacial Research (NIDCR)

AM-304. Kendra Clark

Characterization of Keratin 5 and Keratin 14 in adult mice salivary glands

The University of Mississippi Medical Center (Mississippi)

Preceptors: Dr. Belinda Hauser, Dr. Matthew Hoffman

AM-305. Eric Coy

Protective factors against oral health decline in alcohol use disorder patients

Towson University (Maryland)

Preceptors: Dr. Robert Range, Dr. Nancy Diazgranados, Dr. Janice Lee

AM-306. Michael Cruciger

Anti-Angiogenesis Medication-Related Osteonecrosis of the Jaw: A Review of 55 Cases and Summary of the Literature

Columbia University (New York)

Preceptor: Dr. Bob Range

AM-307. Tarek Ellis

The Function of Neurotrophins and Their Receptors In Progenitors In the Developing Salivary Gland

Georgia State University (Georgia)
Preceptors: Dr. Alejandro Chibly, Dr. Matthew Hoffman

AM-308. Ross Giglio

Comparison of Serum-Free and Xeno-Free Media to FBS-Media for Bone Marrow Stromal Cell Culture

University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Vamsee Myneni, Dr. Eva Mezey

AM-309. Shaimar Gonzalez

Characterizing branching morphogenesis of mouse embryonic salivary gland and lung

University of Texas Health Science Center at San Antonio (Texas)
Preceptors: Dr. Kenneth Yamada, Dr. Shaohe Wang

AM-310. Nicholas Hong

The Role of Bone Marrow Stromal Cell (BMSC) Derived Heparin on Hematopoietic Stem Cells (HSCs)

George Walton Comprehensive High School (Georgia)
Preceptors: Dr. Vamsee Myneni, Dr. Eva Mezey

AM-311. Paula Muñoz

Role of Fibrin in Spontaneous Periodontitis in Mice

Columbia University College of Dental Medicine (New York)
Preceptors: Dr. Lakmali Silva, Dr. Niki Moutsopoulos, Dr. Thomas Bugge

AM-312. Mansoor Safder

Biology of AAV Transduction

University of Missouri, Kansas City School of Dentistry (Missouri)
Preceptor: Dr. Jay Chiorini

AM-313. Ryoko Takeuchi

The G protein-coupled receptor Gpr115 regulates tooth mineralization process

Niigata university (Non-U.S.)
Preceptors: Dr. Yoshi Yamada, Dr. Yuta Chiba, Dr. Tomoko Ikeuchi

AM-314. Jessica Yin

Transforming Growth Factor Beta for innate lymphoid cell survival

University of Maryland, College Park (Maryland)
Preceptors: Dr. Xia Yang, Dr. Cheryl Chia, Dr. Wanjun Chen

AM-315. Qingcong Zeng

Profile of Immunological Markers in Chronic Graft-versus-host Disease Induced Murine Parotid Salivary Glands

Columbia University College of Dental Medicine (New York)
Preceptors: Dr. Marit Aure, Dr. Ana Costa da Silva, Dr. Jacqueline Mays

AM-316. Jack Zhao, Isabel Eisendrath

Characterizations of Highly Expressed Genes in Pancreatic Islets
Winston Churchill High School (Maryland), Walter Johnson High School (Maryland)
Preceptors: Dr. Tao Cai, Dr. Paul Liu, Dr. Richard Leapman

AM-317. Sophia Zic

Microscopic Analysis of Chronic Graft-Versus-Host Disease Therapeutic Response in Oral Buccal Mucosa to 0.05% Clobetasol Oral Rinse Treatment
Poolesville High School (Maryland)
Preceptor: Dr. Jacqueline Mays

National Library of Medicine (NLM)

AM-318. Shriya Beesam

Discovering Mechanistic Explanations for Mutational Signatures
Plano East Senior High School (Texas)
Preceptors: Dr. Teresa Przytycka, Dr. Yoo-Ah Kim, Dr. Damian Wojtowicz

AM-319. Tiffany Callahan

Community Detection in Tri-Partite Pediatric Networks
University of Colorado Denver Anschutz Medical Campus (Colorado)
Preceptor: Dr. Olivier Bodenreider

AM-320. Katherine Du

Understanding the Diversity of Acetyltransferases
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. L. Aravind, Dr. Lakshminarayan Iyer, Dr. A Max, Burroughs, Dr. Gurmeet Kaur

AM-321. Jerry Gu

Establishing tissue surface characteristics to render digitized anatomical structures for an open-source imaging-based 3D structure library
University of Toronto (Non-U.S.)
Preceptor: Ms. Anne Altemus

AM-322. Soyoung Hong

Bibliographic Information Extraction from Biomedical Journal Articles Using the Deep Learning Algorithm
Montgomery Blair High School (Maryland)
Preceptors: Dr. Jongwoo Kim, Mr. Michael Gill, Dr. George Thoma

AM-323. Swan Htun

Integrated Analysis of Cancer Mutations and Drug-Gene Interactions for Targeted Therapy

Santa Fe College (Florida)

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

AM-324. Vanessa Martinez

Developing Short Names for laboratory tests that are short and attractive to clinicians

University of Massachusetts, Amherst (Massachusetts)

Preceptor: Dr. Clement McDonald

AM-325. Golnaz Moallem

Detecting and Segmenting White Blood Cells in Microscopy Images of Thin Blood Smears

Texas Tech University (Texas)

Preceptors: Dr. Stefan Jaeger, Dr. Sameer Antani, Dr. George Thoma, Dr. Mahdiah Poostchi

AM-326. Max Rosen

Semi Probabilistic Sequence Alignment with a Compositional Adjustment

McGill University (Non-U.S.)

Preceptor: Dr. Yi-Kuo Yu

AM-327. Alex Rubio

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

Virginia Tech (Virginia)

Preceptor: Dr. Gelio Alves

AM-328. Nikhil Sardana

Deep Learning for Alzheimer's Data Classification

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Mr. Rodney Long

AM-329. Daniel Schaffer

What are the Protein Domains in Wolframin, an Endoplasmic Reticulum Protein Mutated in a Monogenic Form of Diabetes?

Montgomery Blair High School (Maryland)

Preceptors: Dr. Max Burroughs, Dr. Laks Iyer, Dr. Aravind Iyer

AM-330. Priscilla Seah

Engaging the Public: Experimentation of Multimodal Visual Media to Communicate Antimicrobial Resistance

University of Maryland, College Park (Maryland)

Preceptors: Ms. Anne Altemus, Dr. Jeff Day

AM-331. Chandler Watson

CRISPR protospacer islands in viral genomes

Stanford University (California)

Preceptors: Dr. Yuri Wolf, Mr. Sergey Shmakov

AM-332. Annie Zhao

Mutational signatures in potential non-B DNA structures within breast cancer

Montgomery Blair High School (Maryland)

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

Clinical Center (CC)

LCH-001. David Alfon

Computer-Based Training for Performance Improvement: A Total Quality Management solution in the Department of Perioperative Medicine

Duke University School of Nursing (North Carolina)

Preceptor: Ms. Norma Street

LCH-002. Sarah Ayvazov

The Effect of Ionizing Radiation on hESCs and Their Competition with Non-Irradiated Cells

New York University (New York)

Preceptors: Ms. Irina Panyutin, Dr. Igor Panyutin, Dr. Ron Neumann

LCH-003. Courtney Battles

Carney Complex: Genetics, Case Study, and the Nursing Role in Disease Management

Duquesne University (Pennsylvania)

Preceptors: Dr. Paul A. Wong, Mrs. Mary Myers

LCH-004. Rachel Bellisle

Neurological Effects of Robotic Knee Extension Assistance During Walking in Children with Cerebral Palsy

University of Rhode Island (Rhode Island)

Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

LCH-005. Isabel Canfield

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

Oberlin College (Ohio)

Preceptor: Dr. Marion Danis

LCH-006. Hannah Clark

Correlating Motion Analysis with Upper Extremity Functional Tasks in Children with Giant Axonal Neuropathy

University of Evansville (Indiana)

Preceptors: Dr. Mina Jain, Dr. Cristiane Zampieri-Gallagher

LCH-007. Sara Constand

Retrolective Analysis of Bone Mineral Density on Computed Tomography
Duke University (North Carolina)
Preceptor: Ms. Lauren Kim

LCH-008. Brian DeLaurentis

Piloting a Social Work Psychosocial Acuity Scale in the Clinical Center
Manhattan College (New York)
Preceptor: Ms. Jeasmine Aizvera

LCH-009. Marcia Des Jardin

Correlating C4 complement component gene variations to clinical manifestations in a large congenital adrenal hyperplasia cohort
Upstate Medical University (New York)
Preceptors: Dr. Qizong Lao, Dr. Ashwini Mallappa, Dr. Deborah Merke

LCH-010. Abhiksha Desai

Differentiation of Clear Cell Renal Cell Carcinoma from Oncocytoma by Whole Lesion Volumetric Analysis of Multiparametric MRI
University of Maryland, College Park (Maryland)
Preceptors: Dr. Ashkan Malayeri, Ms. Uyen Hoang, Mr. Faraz, Farhadi, Dr. Moozhan Nikpanah

LCH-011. Nisha Dhebaria

Dash Board
University of Maryland, College Park (Maryland)
Preceptor: Mr. Robert Mekelburg

LCH-012. Nathaniel Edisis

Optimization of Thermochromic Paint Formulation for Exact Measurement of Temperature for Therapeutic Ultrasound Exposures for Bone Cancer Therapy
Georgetown Day School (District of Columbia)
Preceptors: Dr. Ayele Negussie, Dr. Bradford Wood

LCH-013. Quentin Eustace

Testicular Adrenal Rest Tumors: Sonographic detection and characterization
University of Tennessee, Knoxville (Tennessee)
Preceptor: Dr. Jamie Marko

LCH-014. Shannon Exley

Social, motor, and ADL abilities and caregiver assist across the lifespan of Smith-Magenis Syndrome
American University (District of Columbia)

Preceptors: Ms. Hanna Hildenbrand, Ms. Michaela Smith, Ms. Ann Smith

LCH-015. Kendal Ezell

Loading and Characterization of Drug-eluting Radiopaque Beads for Transarterial Chemoembolization of Liver Tumors

Texas A&M University (Texas)

Preceptors: Dr. Andrew Mikhail, Dr. Bradford Wood

LCH-016. Jessica Fentress

Associations between Variety of Dietary Intake at a Buffet Meal and Energy, Macronutrient Intake, and Body Composition

Tennessee Technological University (Tennessee)

Preceptors: Ms. Shanna Bernstein, Dr. Amber Courville

LCH-017. Meheret Gebreegziabher

The Oral and Gut Microbiomes of Patients Undergoing Treatment for Severe Alcohol Use Disorder and Inflammatory Skin Conditions.

University of Maryland, Baltimore County(UMBC) (Maryland)

Preceptors: Ms. Sarah Mudra, Dr. Nancy Ames

LCH-018. Leah Gober

Assessment and thermodynamic modulation of A-delta and C fiber thermonociception and pharmacologic modulation

Mercer University School of Medicine (Georgia)

Preceptors: Dr. Michael Iadarola, Dr. Andrew Mannes, Dr. Matt, Sapio, Mr. Stephen Raithek

LCH-019. Jillian Granados

How to make Writing Problem-Oriented Clinical Notes in CRIS Fun and Easier by having a Problems List just a Click Away.

Montgomery College (Maryland)

Preceptors: Dr. David Herion, Mr. Bertram Brown, Dr. G Tom Brown

LCH-020. Spencer Grissom

Validation of a New Bioinformatics Pipeline to Predict an Extended Red Blood Cell Phenotype from Next Generation Sequencing Data

University of Maryland, College Park (Maryland)

Preceptors: Dr. David Stroncek, Dr. Celina Montemayor Garcia

LCH-021. Oscar Guillama

Assessing Differences in Eligibility of 177- Lu-DOTATATE Treatment in Patients with Neuroendocrine Tumors Based on Comparison of In-111-OctreoScan and Ga-68-DOTATATE PET/CT Findings.

San Juan Bautista School of Medicine (Puerto Rico)

Preceptor: Dr. Corina Millo

LCH-022. Devon Gulley

What's new in CRIS? NoteCetera: A tool that makes finding lab results a click away!

Highland View Academy (Maryland)

Preceptor: Dr. David Herion

LCH-023. Megan Haymond

Implications of Neonatal Abstinence Syndrome (NAS) on child development to neonates born to mothers with Opioid Use Disorder (OUD)

Cedarville University (Ohio)

Preceptors: Ms. Diane Lawrence, Ms. Anne Fejka, Mr. Frank Rodriguez

LCH-024. Natalie Hong

New Doxorubicin Loading Method for PMMA Bone Cement

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Ayele Negussie, Dr. Venkatesh Krishnasamy, Dr. Bradford Wood

LCH-025. Katherine Irimata

Estimation of correlation coefficient in data with repeated measures

Arizona State University (Arizona)

Preceptors: Dr. Xiaobai Li, Dr. Paul Wakim

LCH-026. Courtney Johnson

Developing Effective Strategies for Recruitment & Registration of Healthy Children in Research

Arizona State University (Arizona)

Preceptor: Mrs. Melanie Webb

LCH-027. Emily Jung

Pregnant Women's Views about the Ethics of Prenatal Whole Genome Sequencing

Harvard University (Massachusetts)

Preceptor: Mr. Benjamin Berkman

LCH-028. Jessica Kain

CD25 Expression on Mast Cells in Hypereosinophilic Syndrome Patients

University of Virginia (Virginia)

Preceptors: Dr. Irina Maric, Dr. Xiaoping Sun, Mrs. Jamie Hahn

LCH-029. Juna Khang, Jennifer Strong

The Effects of an ACTH Stimulation Test on TSH and Thyroid Hormones

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

Preceptor: Dr. Steven Soldin

LCH-030. Yeo Eun Kim

Comprehensive Mass Spectrometry Based Peptidomics in Maternal Circulation

Cornell University (New York)

Preceptor: Dr. Zhen Zhao

LCH-031. David Kulp

Characterization of an adrenal adenoma in a patient with congenital adrenal hyperplasia

Emory University (Georgia)

Preceptors: Dr. Vipula Kolli, Dr. Deborah Merke

LCH-032. Hillary Liu

Nucleotide substitutions in 5.7 kb of the ACKR1 gene among African American individuals with benign ethnic neutropenia: a case-control study

University of Virginia (Virginia)

Preceptors: Dr. Kshitij Srivastava, Dr. Bill Flegel

LCH-033. Josephine Makanjuola

Understanding the Nigeria Implementation Science Alliance: The Path Towards Eliminating Mother-to-Child Transmission of HIV

University of Maryland, Baltimore (Maryland)

Preceptors: Ms. Cecelia Henry, Dr. Paul Wong, Ms. Mary Myers

LCH-034. Andrew McManus, Nasha Elavia

Effect of Cryopreservation on Chimeric Antigen Receptor (CAR) T-Cell Phenotype and Function.

University of Miami (Florida), Ziauddin Medical College (Non-U.S.)

Preceptors: Dr. Sandhya Panch, Dr. David Stroncek

LCH-035. Kathryn Middleton

Concordance between MRI findings and Neuropsychological Test Performance

Wake Forest University (North Carolina)

Preceptors: Ms. Katelyn Garcia, Mr. Brian Moore, Dr. John, Dsurney, Dr. Leighton Chan

LCH-036. Chase Morgan

IQGAP3 and Ras: An investigation of isoform specificity in signaling

Columbia University (New York)

Preceptors: Dr. Andrew Hedman, Dr. David Sacks

LCH-037. Luis Perez Valencia

Screening an Ebola Virus Glycoprotein Peptide Library for Induction of Lymphocyte Apoptosis

Connecticut College (Connecticut)

Preceptors: Dr. Daniel Chertow, Dr. Jason Kindrachuk, Ms. Eliana Jacobson

LCH-038. Benjamin Pesante

Feasibility of Functional Electrical Stimulation of Knee Extensor Muscles during Walking in Children with Cerebral Palsy.

Catholic University of America (District of Columbia)

Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

LCH-039. Kathryn Peterson

Familial Gastrointestinal Carcinoid Tumor: Disease Process and Nursing Implications

Towson University (Maryland)

Preceptors: Mr. Paul Wong, Mrs. Mary Myers

LCH-040. Robert Pourier

Prevalence and correlates of craving and relapse following inpatient treatment for severe alcohol use disorder

Yale University (Connecticut)

Preceptors: Dr. Alyssa Brooks, Dr. Gwenyth Wallen

LCH-041. Samuel Remedios

Machine Learning Applications for Magnetic Resonance Brain Imaging

Middle Tennessee State University (Tennessee)

Preceptors: Dr. John Butman, Dr. Dzung Pham, Dr. Snehashis Roy

LCH-042. Bonita Salmeron

Analysis of trends in Social Work discharge data at the NIH Clinical Center: A two year comparison

College of Wooster (Ohio)

Preceptor: Mrs. Jeasmine Aizvera

LCH-043. William Schultheis

Estimating a Scanner Transfer Function by Optimized Simulations Matching the Image of a Line Source

Princeton University (New Jersey)

Preceptor: Dr. Roberto Maass-Moreno

LCH-044. Brian Stocksdale

Correlation of neuroradiologic findings in patients with cardiac myxomas

Drexel University College of Medicine (Pennsylvania)

Preceptor: Dr. Nadia Biassou

LCH-045. Jennifer Strong, Juna Khang

After ACTH Stimulation 11-deoxycortisol Appears to Be Superior to Cortisol for the Diagnosis of Adrenal Disease

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

Preceptor: Dr. Steven Soldin

LCH-046. Jennifer Tan

Evaluating the Risk of Blood Transfusion-Transmitted Zika, Dengue and Chikungunya Viruses in a Vulnerable Patient Population

University of California, Berkeley (California)

Preceptors: Dr. Valeria De Giorgi, Dr. Robert Allison

LCH-047. Sabrina Thapar

Identification of Pneumocystis Species in Different Mammalian Hosts

Winston Churchill High School (Maryland)

Preceptors: Dr. Joseph Kovacs, Dr. Liang Ma, Dr. Ousmane Cisse

LCH-048. Andie Weiser-Schlesinger

Hydrocortisone Improved Survival and Hemodynamics in Rats Challenged with Anthrax Cell Wall Peptidoglycan

Livingston Senior High School (New Jersey)

Preceptors: Dr. Cui Xizhong, Dr. Steven Solomon

LCH-049. Ray Weng

Anthrax Lethal Toxin and Edema Toxin Have Different Effects on Lungs in an Isolated Rat Lung Perfusion Model

Montgomery Blair High School (Maryland)

Preceptor: Dr. Xizhong Cui

LCH-050. Autumn Weyant

Spirolactone-induced Degradation of the TFIIH Core Complex XPB Subunit Suppresses Inflammation in Human Pulmonary Artery Endothelial Cells

Princeton University (New Jersey)

Preceptors: Dr. Li-Yuan Chen, Dr. Edward Dougherty, Dr. Robert, Danner, Dr. Jason Elinoff

National Center for Advancing Translational Sciences (NCATS)

LCH-051. Shelley Austin

High-throughput profiling and discovery of small molecule inhibitors of NanoLuciferase

Elon University (North Carolina)

Preceptors: Dr. Matthew D. Hall, Ms. Dorian Cheff, Dr. Min Shen

LCH-052. Rohith Battina

Metarrestin, a compound that reduces perinucleolar compartments (PNC) and increases autophagy in a metastatic prostate cancer model

University of Maryland, College Park (Maryland)

Preceptors: Mr. Chris Dextras, Dr. Marc Ferrer

LCH-053. Claire Chen

Laplacian Spectra of Molecular Graphs

Thomas S. Wootton High School (Maryland)

Preceptor: Mr. Dac-Trung Nguyen

LCH-054. Carina Danchik

Repurposing Drugs for ADPKD: Assay Development and High-throughput Screening

Franciscan University of Steubenville (Ohio)

Preceptor: Dr. Natalia Martinez

LCH-055. Emmett George

Improving the Potency and Drug-Like Properties of Lead Compound ML-372, A Novel Survival Motor Neuron (SMN) Modulator for Treating Spinal Muscular Atrophy

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Kenneth Wilson, Dr. Juan Marugan

LCH-056. Robert Huang

RNAi knockdown of nuclear receptor co-repressor 1 genes in malignant breast cancer cell lines affects cell invasion

Poolesville High School (Maryland)

Preceptors: Dr. Jiaqi Fu, Dr. Madhu Lal

LCH-057. Timothy Jackson

Design of a New Micro-Volume Dispenser Workstation

Franciscan University of Steubenville (Ohio)

Preceptors: Dr. Bolormaa Baljinnyam, Mr. Eric Wallgren

LCH-058. Inci Kadribegic

Improving Self-Renewal of Human Pluripotent Stem Cells by Replacing Recombinant Proteins with Small Molecules

Trakya University Faculty Of Medicine (Non-U.S.)

Preceptors: Dr. Ilyas Singec, Ms. Pinar Ormanoglu

LCH-059. Sarita Lee

Do Drug Combinations that Show Similar Activities also Show Similar Synergies?

University of California, Los Angeles (California)

Preceptors: Dr. Rajarshi Guha, Dr. Lu Chen

LCH-060. Joyce Ma, Abigail Chen

Identification of Compounds that Induced Apoptosis

Poolesville High School (Maryland), French International School (Maryland)

Preceptors: Dr. Menghang Xia, Mrs. Srilatha Sakamuru, Dr. Ruili Huang

LCH-061. Valerie Nguyen

QSAR Modeling to Predict ADME Properties of Chemical Compounds

Centreville High School (Virginia)

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

LCH-062. Davi Pettinato

Identification of antibacterial compounds

Franciscan University of Steubenville (Ohio)

Preceptor: Dr. Dorjbal Dorjsuren

LCH-063. Peter Rainwater

Design and Synthesis of Chemical Tools for Elucidation of Mechanism of Action and Binding

Site: PNC and Huntington Projects

Franciscan University (Ohio)

Preceptors: Dr. Jason Rohde, Dr. Samarjit Patnaik

LCH-064. Samuel Solomon

The Development and Validation of a High throughput Cell-Based Acetylcholinesterase Assay Using Mouse N2A

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Menghang Xia, Dr. Shuaizhang Li

LCH-065. Justin Szajek

MOLVEC : Molecular Optical Line Vectorization of Extracted Chemicals

Our Lady of Good Counsel (Maryland)

Preceptors: Mr. Dac-Trung Nguyen, Mr. Tyler Peryea

LCH-066. Benjamin Tran

QSAR Modeling for Tox21 Assay Outcomes

Our Lady of Good Counsel High School (Maryland)

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

LCH-067. Dean Walters

High-throughput screening of drug libraries to identify novel inhibitors of cytosine methylation

Bluffton University (Ohio)

Preceptors: Dr. Bolormaa Baljinnyam, Mr. Michael Ronzetti

LCH-068. Brooke Whitehill

Generation of stable cell lines expressing cas9 for CRISPR high-throughput screening

Franciscan University of Steubenville (Ohio)

Preceptors: Dr. Madhu Lal, Dr. Krystyna Mazan-Mamczarz

LCH-069. Scott Woodgate, Victor Novichkov, Nathan Miller

Follow-Up Order Tracking System: The Amazon of NCATS
James Madison University (Virginia), Thomas Wotton High School (Maryland), Virginia Tech (Virginia)
Preceptor: Mr. Tim Mierzwa

National Center for Complementary and Integrative Health (NCCIH)

LCH-070. Marilyn Frank

Visualization of Peptidergic Neurons in Intact Tissue
Red Cloud High School (South Dakota)
Preceptors: Dr. Alexander Chesler, Dr. Arnab Barik, Mr. James Thompson

LCH-071. Shara Grant

Relations of State and Trait Anxiety to Physiological and Self-Report Responses During a Pain Cue Reversal Task
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Elizabeth Necka, Dr. Lauren Atlas

LCH-072. Sara Hong

Spontaneous Nociceptive Responses and Changes in Affective Behavior in a Mouse Model of Neuropathic Pain
Poolesville High School (Maryland)
Preceptors: Ms. Torri Wilson, Dr. Helena Ahn, Dr. Yarimar Carrasquillo

LCH-073. Daniel H. McDermott, Karl A. Neumann

The Role of Uncertainty: Racial Differences in Acute Pain
University of Arizona (Arizona), McGill University (Non-U.S.)
Preceptors: Dr. Elizabeth Necka, Mr. Troy Dildine, Dr. Lauren Y. Atlas

LCH-074. Carlos Melendez

How Expectations Affect Perception Across Sensory Domains: Pain and Taste
University of Maryland, College Park (Maryland)
Preceptors: Dr. Dominik Mischkowski, Ms. Esther Palacios-Barrios, Dr. John, Ingeholm, Dr. Lauren Atlas

LCH-075. Karl A. Neumann, Daniel McDermott

Autonomic Nervous System Activation in Placebo Analgesia
McGill University (Non-U.S.), University of Arizona (Arizona)
Preceptors: Dr. Elizabeth Necka, Ms. Shara Grant, Dr. Lauren Y. Atlas

LCH-076. Daniela Velasquez

Efferent projections of "Pain-ON" and "Pain-OFF" cells in the Central Amygdala
Towson University (Maryland)
Preceptor: Dr. Yarimar Carrasquillo

National Heart, Lung, and Blood Institute (NHLBI)

LCH-077. Ashlee Abrantes

Applying CRISPR/cas9 to assess genetic and transcriptional correlates of sleep in Drosophila
SUNY at Fredonia (New York)

Preceptors: Dr. Susan Harbison, Ms. Yazmin Serrano Negrón

LCH-078. Tyler Amos

Characterization of Cytoskeletal Proteins and Motility Rates in Human Metastatic Melanoma Cell Lines

Chantilly High School (Virginia)

Preceptors: Dr. Ana Pasapera, Ms. Michelle Baird, Dr. Clare Waterman

LCH-079. Carlos Aponte

DENND5B is a Novel Genetic Regulator of Lipoprotein Metabolism

Northern Virginia Community College (Virginia)

Preceptors: Dr. Scott Gordon, Dr. Alan Remaley

LCH-080. Tolulope Awosika

Exploring Innate Immune Response to Distinct Pathogens throughout Development from Pluripotent Cells to Differentiated Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Yakey Yaffe, Dr. Ying-Han Chen, Dr. Marianita, Santiana, Dr. Nihal Altan-Bonnet

LCH-081. Avantika Banerjee

Sex differences in cardiac outcomes in response to fenofibrate therapy in the ACCORD trial
Texas Tech University Health Sciences Center School of Medicine (Texas)

Preceptor: Dr. Ahmed Hasan

LCH-082. Rachel Bang

Characterization of a Fluorescence Lifetime Probe for Oxygen Sensing in Cells

Johns Hopkins University (Maryland)

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

LCH-083. Charles Bond

Effects of Physiological ADP Concentrations on Myosin VI Mechanics and Kinetics

University of Maryland, College Park (Maryland)

Preceptors: Dr. James Sellers, Dr. Yasuharu Takagi, Dr. Neil Billington

LCH-084. Marielle Borom, Emilia Alina Barbu

Quantifying early NETosis in healthy human neutrophils with image stream flow cytometry

Ohio University Heritage College of Osteopathic Medicine (Ohio), ()

Preceptors: Dr. Emilia Alina Barbu, Dr. Swee Lay Thein, Ms. Laurel Mendelsohn

LCH-085. Tiffany Cao

Knockout Mice Phenotyping Program (KOMP2): Identifying Novel Genes Associated with Cardiovascular Phenotypes

University of Maryland, College Park (Maryland)

Preceptor: Dr. Young Suk Oh

LCH-086. Carlos Carhuas

Characterizing Locus Specific Expression of Alpha Globin in Murine Vasculature

University of Maryland, College Park (Maryland)

Preceptors: Dr. Hans Ackerman, Dr. Steven Brooks, Dr. Dongying Ma

LCH-087. Juan Cespedes

Retinal ganglia cell axonal Regeneration with ARSB treatment after optic nerve crush

Morehouse School Of Medicine (Georgia)

Preceptors: Dr. Herbert Geller, Mr. Craig Pearson, Dr. Caitlin Mencio

LCH-088. Alisha Desai

Single cell: Ultra-sensitive cytokine detection in primary cells using Single Molecule Array

Winston Churchill High School (Maryland)

Preceptors: Dr. J. Philip McCoy, Dr. Ankit Saxena

LCH-089. Lilly Ding

Erythropoiesis of mouse progenitor cells in vitro

Walt Whitman High School (Maryland)

Preceptors: Dr. Jianqiong Zhu, Dr. Wenli Liu, Dr. Griffin Rodgers

LCH-090. Andrew Dodge

Prediction of Cardiovascular Events in Long-Term Observational Studies by Machine Learning

Georgetown University (District of Columbia)

Preceptor: Dr. Colin Wu

LCH-091. Matthew Donnelly

Characterization of a novel Li-Fraumeni syndrome mouse model

Cornell University (New York)

Preceptors: Dr. Ju-Gyeong Kang, Dr. Paul Hwang

LCH-092. Zerick Dunbar

Functional Characterization of Bone Marrow-derived Mesenchymal Stromal Cell-derived Exosomes to Develop Cellular-Free Acute Graft-Versus-Host Disease Therapies

Tulane University (Louisiana)

Preceptors: Ms. Reema Panjwani, Dr. A. John Barrett, Dr. Sawa Ito

LCH-093. Jacob Enders

Direct imaging of supercoiled DNA for studying the effects of mismatch size on topology

Ohio State University (Ohio)

Preceptors: Dr. Keir Neuman, Dr. Yeonee Seol, Dr. Andrew, Dittmore, Ms. Lynda Bradley

LCH-094. Laura Espinoza

Meta-analysis of the diagnostic accuracy of SPECT myocardial perfusion imaging: A critical comparison of guideline summaries versus the published literature

Montgomery Blair High School (Maryland)

Preceptors: Dr. Andrew Arai, Dr. Minjie Lu

LCH-095. Helene Prisca Fanba

Microtubule-stabilizing drugs alter the distribution of microtubules in affected cells

Dr. Henry A Wise, Junior, High School (Maryland)

Preceptors: Dr. Christian Combs, Dr. Dan Sackett

LCH-096. Nashwan Farooque

Differences in Cardiovascular Outcomes and Mortality with Intensive vs. Standard Glycemic and Blood Pressure Control in the ACCORD Trial

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Ahmed Hasan

LCH-097. Enoc Granados Centeno

Dynamic Imaging of Proteins in Clathrin-Coated Pits during Receptor-Mediated Endocytosis

High Point High School (Maryland)

Preceptors: Ms. Regina Ahn, Dr. Justin Taraska

LCH-098. Frances Hamilton

How I'm Learning About a Rare Lung Disease

Yorktown High School (Virginia)

Preceptors: Dr. Joel Moss, Mrs. Patricia Julien-Williams, Mrs. Amanda Jones

LCH-099. Su-Yun Han

Portfolio Analysis Using RCDC Classifiers: A Data-Driven Approach

Walt Whitman High School (Maryland)

Preceptors: Dr. Dong-Yun Kim, Dr. Catherine M. Stoney

LCH-100. Natalie Hawken

Fabrication and Atomic Force Microscopy of PDMS Softgels for Neurite Outgrowth

Vanderbilt University (Tennessee)

Preceptors: Dr. Herbert Geller, Dr. Sharada Tilve, Dr. Eleni, Degaga, Dr. Emilios Dimitriadis

LCH-101. Sheida Hayati

Development of a Targeted RNA-seq Assay for the Detection of Minimal Residual Disease in Acute Myeloid Leukemia

Rutgers University (New Jersey)

Preceptors: Dr. Christopher Hourigan, Dr. Laura Dillon

LCH-102. Brian Ho

Virus hunting: Screening for novel and existing human enteric viruses hiding in Phosphatidylserine (PS) Vesicles

Florida International University (Florida)

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

LCH-103. Travis Hyams

Portfolio analysis of the National Heart, Lung, and Blood Institute's funded nutrition projects (2008-2016)

University of Maryland, College Park (Maryland)

Preceptor: Dr. Charlotte Pratt

LCH-104. Promotto Islam

Role of fluid phase endocytosis in IL-10 induced LDL and HDL uptake in macrophages as a possible mechanism for "Disappearing HDL Syndrome"

Eastside High School (Florida)

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

LCH-105. Dahye Kang

Recombinant Protein Expression Using Mammalian Cell Culture System

Poolesville High School (Maryland)

Preceptor: Ms. Yi He

LCH-106. Ibrahim Kargbo

Differentiation of Rhesus Blood Progenitors into Red Blood Cells in an Optimized Feeder-Free Environment

George Mason University (Virginia)

Preceptors: Dr. John Tisdale, Dr. Selami Demirci

LCH-107. Yisrael Katz

The Relationship Between Thyroid Function and Cardiovascular Disease

Yeshiva of Greater Washington (Maryland)

Preceptor: Dr. Lawton Cooper

LCH-108. Christopher Kyriacou

Advancing Nutrition Training and Research for Medical Students, Residents, Fellows, Attending Physicians and other Clinicians

George Mason University (Virginia)

Preceptors: Dr. Charlotte Pratt, Dr. Nicole Redmond

LCH-109. Oscar Levine

Predictive value of hs-CRP as a Biomarker for Coronary Atherosclerosis in Asymptomatic Patients Referred for Coronary CT Angiography

Washington University in St. Louis (Missouri)

Preceptors: Dr. Sujata Shanbhag, Dr. Marcus Chen

LCH-110. Ashley Lin

Transcriptional Adaptation of Vascular Endothelial and Smooth Muscle Cells in Mono-culture vs. Co-culture

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Manfred Boehm, Dr. Elisa Ferrante

LCH-111. Hanley Ma

A potential role for cyclophilin D phosphorylation in mediating mitochondrial permeability transition pore opening

Brown University (Rhode Island)

Preceptors: Dr. Randi Parks, Dr. Elizabeth Murphy

LCH-112. Zahra Mansur, Philip Kloner

Cardiac CT and MRI Insights into the Area at Risk in Acute Myocardial Infarction

Howard University (District of Columbia), University of Maryland, College Park (Maryland)

Preceptor: Dr. Andrew Arai

LCH-113. Mikaela Mohardt

Localizing essential mitochondrial protein TMEM65 in skeletal muscle using peroxidase APEX2

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Brian Glancy, Dr. Yingfan Zhang

LCH-114. Michael Murphy

Software for the analysis of multiple components in Fluorescence Lifetime Microscopy Images

Johns Hopkins University (Maryland)

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

LCH-115. Brooke Perlstein

The Regulation of Alternative Splicing of Non-Muscle Myosin Heavy Chain II-B pre-mRNA by RNA Binding Proteins: Rbfox, CELF, and PSF

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sachiyo Kawamoto, Dr. Robert Adelstein

LCH-116. Vignesh Rajasekaran

Investigating the Pathogenesis of Rotavirus in Vesicles vs. Free Virus

University of Virginia (Virginia)

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

LCH-117. Irena Roy

Analysis of a Functional Element for Regulating Fetal Hemoglobin Gene Expression by CRISPR Gene Editing

University of California, Los Angeles (California)

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

LCH-118. Hadassah Schwartz

Screening for Atrial Fibrillation to Prevent Stroke

Darchei Binah Women's Institute (Non-U.S.)

Preceptor: Dr. Lawton Cooper

LCH-119. Ronit Schwartz

Regulatory Proteins in Clathrin-Independent Endocytosis

Johns Hopkins University (Maryland)

Preceptors: Dr. Julie Donaldson, Dr. Dipannita Dutta, Dr. Jessica Wayt

LCH-120. Ethan Shi

A Novel Lucifer's-complementation-assay Based Method for Investigating Protein-DNA Interaction

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Keji Zhao, Dr. Qingsong Tang, Dr. Shuai liu

LCH-121. Elizabeth Staskal

Making Blood Stem Cells: In-Vitro Mesoderm Patterning

Seneca Valley High School (Maryland)

Preceptors: Mr. Juan Pablo, Dr. Andre Larochele

LCH-122. Michelle Tai

Olfactomedin 4 Protein Suppresses Proliferation of Metastatic Prostate Cancer Cells

Winston Churchill High School (Maryland)

Preceptors: Dr. Hongzhen Li, Dr. Griffin Rodgers, Ms. Christine Kim

LCH-123. Michal Tyrlik

The Effect of Object Location and Other Factors on Novel Object Discrimination in the Novel Object Test

University of Maryland, College Park (Maryland)

Preceptors: Dr. Danielle Springer, Mrs. Michele Allen, Mr. Morteza, Peiravi, Mrs. Audrey Noguchi

LCH-124. Lauren Vostal

Structure-Based Drug Design of a HIV-1 Budding Inhibitor Using NMR Spectroscopy

Williams College (Massachusetts)

Preceptors: Dr. Madeleine Strickland, Dr. Nico Tjandra

LCH-125. Eric Wang

Replica exchange simulations of the hemagglutinin fusion peptide and the effect of cholesterol

University of Maryland, College Park (Maryland)

Preceptors: Dr. Richard Pastor, Mr. Richard Venable

LCH-126. Hwi Yeo

Expressing Recombinant Proteins via Baculovirus-Infected Cells

Walt Whitman High School (Maryland)

Preceptors: Dr. Jay Chung, Dr. Hyeog Kang, Dr. Antoine Smith

LCH-127. Chenyu Zhang

High Poliovirus Multiplicity of Infection Results in the Innate Immune Response Suppression of RIG-I and MDA-5 Pathways in Cells

Lafayette College (Pennsylvania)

Preceptors: Dr. Ying-Han Chen, Dr. Nihal Altan-Bonnet

LCH-128. Alice Zhu

Knocking out genes in mammalian cells using the CRISPR/Cas 9 technology

Winston Churchill High School (Maryland)

Preceptors: Dr. Chengyu Liu, Dr. Fan Zhang

National Institute on Aging (NIA)

LCH-129. David Agyen Darko

MRI and NMR: "Evaluation of Body Composition in SLAM mice by MRI and NMR"

Bowie State University (Maryland)

Preceptor: Dr. Rafael de Cabo

LCH-130. Joycemary Amponsem

The Effect of Rab29 Phosphorylation in Cells

Howard University (District of Columbia)

Preceptors: Dr. Aleksandra Beylina, Dr. Mark Cookson

LCH-131. Ifeoma Azinge

STIM1, but not STIM2, is the calcium sensor critical for sweat secretion

University of Maryland, Baltimore County (Maryland)
Preceptor: Mr. Chang-Yi Cui

LCH-132. Morgan Biggs

Effect of Cannabinoid Receptor Modulators and Food Preference Task on the Autonomic Nervous System using Heart Rate Variability Analysis
University of Maryland, College Park (Maryland)
Preceptors: Dr. Roger Mullins, Dr. Dimitrios Kapogiannis

LCH-133. Skyler Bordeaux

C9orf72 repeat expansion screening in cerebellar ataxia patients
Fort Lewis College (Colorado)
Preceptors: Dr. Monia Hammer, Dr. Andrew Singleton

LCH-134. Nicole Butera

Estimation of Age-Sex-Adjusted Distributions of Physical Activity Measures Among U.S. Adults
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Eric Shiroma, Dr. Tamara Harris

LCH-135. Shane Chambers

The Effects of Overexpressing Adenylate Cyclase 8 on In-Vivo Cardiac Parameters and Transcription of Coupled-Clock Proteins
James Madison University (Virginia)
Preceptors: Dr. Edward Lakatta, Dr. Ismayil Ahmet, Ms. Jessie Axsom

LCH-136. James Chen

Development of Olfactory Tests and Application to mice deficient in DNA binding protein TDRD3
Michigan State University (Michigan)
Preceptors: Dr. Kathy Perdue, Dr. Ross McDevitt, Dr. Weidong, Wang, Dr. Yuyoung Joo

LCH-137. Vivian Chen

LMO3, characterizing a novel molecular marker in a subset of dopaminergic neurons
Duke University (North Carolina)
Preceptors: Dr. Sara Saez-Atienzar, Dr. Huaibin Cai

LCH-138. Zachary Cook

Assessment of CDK2-mediated Phosphorylation on WRN Recruitment to Double Strand DNA Breaks
University of Rochester (New York)
Preceptors: Dr. Tomasz Kulikowicz, Dr. Raghavendra Shamanna, Dr. Vilhelm Bohr

LCH-139. Himanshu Dashora

NF-kappaB Signaling Dynamics in Innate Immune Systems

Johns Hopkins University (Maryland)
Preceptors: Dr. Erik Martin, Dr. Mia Sung

LCH-140. Lauren DeLong

Hyperactive Brain Type Adenylyl Cyclase Blocks The Autonomous Surveillance of Heart Cells
Salisbury University (Maryland)

Preceptors: Dr. Yelena Tarasova, Mr. Max Beyman, Dr. Khalid, Chakir, Dr. Edward Lakatta

LCH-141. Kayla Gilley

Effect of 0.5% Metformin and Exercise in One Year Old Male Mice

Liberty University (Virginia)

Preceptors: Dr. Rafael de Cabo, Dr. Irene Alfaras

LCH-142. Selena Gonzalez

Establishing the Role of Rab7L1 in Regulating the Retrograde Transport Pathway

University of California, Los Angeles (California)

Preceptors: Dr. Mark Cookson, Dr. Luis Bonet-Ponce

LCH-143. Kaysi Gray

Different modes of growth hormone administration influence human physiology

Howard University (District of Columbia)

Preceptors: Dr. Chee Chia, Dr. Kenneth Fishbein

LCH-144. Janet Guo

Effects of intermittent energy restriction on amyloid pathology, neuroinflammation, and cognition in a novel Alzheimer's disease mouse model

Emory University (Georgia)

Preceptors: Dr. Yuki Kishimoto, Dr. Mark Mattson, Dr. Yong Liu

LCH-145. Quanshay Henderson

Racial Differences in Muscle Quality in the Baltimore Longitudinal Study of Aging

University of Michigan (Michigan)

Preceptors: Dr. Nancy Chiles, Dr. Stephanie Studenski

LCH-146. Amirah Hewitt

Understanding the Relationship of microRNA-1253 and WAVE2 in Hypertensive Women

Hammond High School (Maryland)

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

LCH-147. Sharmin Hossain

Vitamin D Receptor and Megalin Gene Polymorphisms and Their Association with Obesity, Central Obesity, and the Metabolic Syndrome among African-American Urban Adults

University of Massachusetts, Amherst (Massachusetts)

Preceptors: Dr. Alan Zonderman, Dr. May Baydoun

LCH-148. Cyril Ikeh

Evaluation of Senescence in Human Aging

Community College of Baltimore County (Maryland)

Preceptors: Dr. Kotb Abdelmohsen, Mrs. Rachel Munk

LCH-149. Lauren Johnson

The Heart's Pacemaker Cells Beat to Their Own Drum

Xavier University of Louisiana (Louisiana)

Preceptors: Dr. Edward Lakatta, Dr. Kenta Tsutsui, Ms. Mary Kim

LCH-150. Jonathan Legier

Gait: Age effect in gait: a cross-sectional study in mice

Howard University (District of Columbia)

Preceptors: Dr. Rafael deCabo, Dr. Irene Alfaras Cardenal, Ms. Kelsey Bullock

LCH-151. Alexander Maltsev

Computer Algorithms for Automatic Detection of Mitochondria in FIB-SEM Muscle Images

University of California, Los Angeles (California)

Preceptors: Dr. Luigi Ferrucci, Dr. Brian Caffrey

LCH-152. Minna McFarland

The Effect of Demographic Variables on Extracellular Vesicle Characteristics

College of William and Mary (Virginia)

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

LCH-153. Amy Monasterio

Effect of histone deacetylase inhibitor treatment on hippocampal Arc expression in young and aged rats

Johns Hopkins University (Maryland)

Preceptors: Dr. Craig Myrum, Dr. Peter Rapp

LCH-154. Nkatha Mwenda

Screening Tobacco Smoke Condensates for New Nicotinic Receptor Ligands

Kalamazoo College (Michigan)

Preceptors: Dr. Lukasz Ciesla, Dr. Ruin Moaddel

LCH-155. Ornella Ngameni

Biochemical Analysis of DNA Replication & Repair Helices for their Ability to Resolve G4-Quadruplex DNA Structures that Threaten Genomic Stability

McDaniel College (Maryland)

Preceptors: Dr. Robert Brosh, Dr. Sanket Awate, Mr. Joshua Somers

LCH-156. Chevonne Parker

Germinal Center B Cells, Antibodies, and Atherosclerosis

Yale University (Connecticut)

Preceptors: Dr. Mark Hutchinson, Dr. Robert Maul, Dr. Patricia Gearhart

LCH-157. Olivia Petrusky

Isolation of Neuronal Dopamine Transporter Positive Extracellular Vesicles from Peripheral Blood

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Dimitrios Kapogiannis, Dr. Seema Gulyani

LCH-158. Joshua Preston

The Role of NQO1 in mTORC2/Akt Signaling

University of Kentucky (Kentucky)

Preceptors: Dr. Andrea Di Francesco, Dr. Rafael de Cabo

LCH-159. Raúl Ramos Sánchez

SIRT3 regulates mitochondrial DNA repair by LIG3 deacetylation

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

Preceptors: Dr. Vilhelm Bohr, Dr. Hyundong Song

LCH-160. Atrine Samadnejad

Repurposing a Test of Anxiety for in vivo Calcium Imaging in Mice

Anne Arundel Community College (Maryland)

Preceptor: Dr. Sarah Hawes

LCH-161. Stephanie Sanchez

Rab8, a substrate of the Parkinson's disease kinase LRRK2, is mobilized under cellular metabolic stress

Agnes Scott College/Georgia Institute of Technology (Georgia)

Preceptors: Dr. Adamantios Mamais, Dr. Mark Cookson

LCH-162. Getahun Seyoum

The Epigenetic Clock, Inflammation Markers and Accelerated Biological Aging in the Healthy Aging in Neighborhoods of Diversity across the Life Span study

University of Maryland, College Park (Maryland)

Preceptors: Dr. Michele Evans, Dr. Salman Tajuddin

LCH-163. Kavisha Shroff

TMS-Induced Gene Expression Changes in the Rat Brain

Towson University (Maryland)

Preceptor: Dr. Kevin Becker

LCH-164. Faith Simon

Targeting of Activation-Induced Deaminase (AID) to Variable Regions by Transcription

University of Texas at Austin (Texas)

Preceptors: Dr. Justin Heltzel, Dr. Robert Maul, Dr. Patricia Gearhart

LCH-165. Tara Srinivas

Detection of Autophagy in Human CD4+ T Cells

Brown University (Rhode Island)

Preceptors: Dr. Luigi Ferrucci, Dr. Arsun Bektas

LCH-166. Jill Taylor

Predictors and correlates of cerebral tau measured by AV-1451 PET imaging in non-demented adults

Towson University (Maryland)

Preceptors: Dr. Murat Bilgel, Dr. Susan Resnick

LCH-167. Gia Thinh Truong

LC-MS/MS based method development for the NAD metabolome

University of Maryland, College Park (Maryland)

Preceptor: Dr. Ruin Moaddel

LCH-168. Sabrina Wang

Alzheimer's Disease 2xTg Mouse Model: Early Stage Structural Brain Differences Detected by MRI

University of Wisconsin - Madison (Wisconsin)

Preceptors: Dr. Olga Fedorova, Dr. Rebecca McPherson

LCH-169. Kali Weiss

Is hippocampal interneuron activation disrupted in aged rats with memory impairment?

St. Olaf College (Minnesota)

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

LCH-170. William Wen

An Investigation of Olfactory Function in Topoisomerase III Beta Knockout Models

Johns Hopkins University (Maryland)

Preceptors: Dr. Weidong Wang, Dr. Yuyoung Joo, Dr. Ross McDevitt

LCH-171. Richard Wu

The Mutagenic and Clinically Relevant Monoribonucleotide Lesion Inhibits DNA Unwinding by Human Repair Helicases

University of Texas at Dallas (Texas)

Preceptors: Dr. Robert Brosh, Dr. Sanket Awate, Mr. Joshua Sommers

LCH-172. Demarrius Young

Longitudinal Behavioral Characterization of Haploid GLUT9 Deficient Mice
Hampton University (Virginia)

LCH-173. Henry Zhang

Mapping the Projection of ALDH1A1-Positive Nigrostriatal Dopaminergic Neurons in Mouse Dorsal Striatum

Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Junbing Wu, Mr. Justin Kung, Dr. Huaibin Cai

LCH-174. Megan Zhang

RNA Topoisomerase Complex is Required for Embryogenesis and Genome Stability

Dulaney High School (Maryland)

Preceptors: Dr. Seung Kyu Lee, Dr. Weidong Wang

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

LCH-175. Carolyn Bowering

Striatal mu opioid receptors contribute to cocaine sensitization and reward.

Montgomery College (Maryland)

Preceptors: Dr. Lauren Dobbs, Dr. Veronica Alvarez

LCH-176. Sofia Carozza

Stress in Action: Mapping and Manipulating a Central Amygdala Projection to the Substantia Nigra

University of Notre Dame (Indiana)

Preceptors: Dr. David Kupferschmidt, Dr. David Lovinger

LCH-177. Meredith Crenca

Caffeine's effect on body weight, appetite, and locomotion in mice

University of Rochester (New York)

Preceptors: Dr. Miriam Bocarsly, Dr. Veronica Alvarez

LCH-178. Elaine Han

Tissue-specific alcohol metabolism in mice

Richard Montgomery High School (Maryland)

Preceptors: Dr. Adrien Guillot, Dr. Bin Gao

LCH-179. David Holovac

Does the Macrophage-Expressed Cannabinoid-1 Receptor (CB1R) Play a Role in the Control of Alcohol Preference in Mice?

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Tony Jourdan, Dr. Grzegorz Godlewski, Dr. George Kunos

LCH-180. Shaila Isham

Behavioral Effects of Ethanol on Lhx6 BK-Channel Knockout Mice

Montgomery College (Maryland)

Preceptor: Dr. Karina Abrahao

LCH-181. Adam Mehal

Alcohol Binge Exacerbated Oxidative Stress and Inflammation in Aging Rats

Boston College (Massachusetts)

Preceptors: Dr. Partha Mukhopadhyay, Dr. Pal Pacher

LCH-182. Ryan Nordheimer

New Technique for Cell Type Isolation from Human Postmortem Brain Tissue for Whole Transcriptome Analysis

Washington University in St. Louis (Missouri)

Preceptor: Dr. Lucia Guerri

LCH-183. Khem Plata

HRV in Non-Dependent Drinkers in Response to IV Alcohol Self-Administration

Fisk University (Tennessee)

Preceptor: Dr. Bethany Stangl

LCH-184. Mariana Rocha

The Role of Mu Opioid Receptors in Alcohol Drinking

Yale University (California)

Preceptor: Dr. Aya Matsui

LCH-185. Ellie Sapiro

New Technique for Cell Type Isolation from Mouse Brain for Whole Transcriptome Analysis

Georgetown Day School (District of Columbia)

Preceptor: Dr. Lucia Guerri

LCH-186. Sannidhi Shashikiran

Role of Striatal Dopamine D2 Receptors in Regulating Mouse Body Weight

Walter Johnson High School (Maryland)

Preceptors: Dr. Miriam Bocarsly, Dr. Veronica Alvarez

LCH-187. Pearl Sun

An Experimental Steatotic Cell Model to Study the Role of Endocannabinoids in Metabolic Disorders

Walt Whitman High School (Maryland)

Preceptors: Dr. Jie Liu, Dr. George Kunos

LCH-188. Hawa Toumbou

Evaluation of non-canonical dopamine signaling in striatum-dependent behaviors

Benjamin Banneker (District of Columbia)

Preceptor: Dr. Kari Johnson

LCH-189. Andrew Yi

Effects of baclofen on stress- and feeding-related hormones in alcohol-dependent individuals:

Results from a human laboratory study

Richard Montgomery High School (Maryland)

Preceptors: Dr. Lorenzo Leggio, Dr. Mehdi Farokhnia, Dr. Sofia Bouhla

National Institute of Allergy and Infectious Diseases (NIAID)

LCH-190. Rachel Alexander, Ashlyn Thomas

The Effect of Diet on Sand Fly Gut Microbiota

Thomas Jefferson High School for Science and Technology (Virginia), Chantilly High School (Virginia)

Preceptors: Dr. Kashinath Ghosh, Dr. David Sacks

LCH-191. Rebecca Arteaga

Host Factors for Human Respiratory Syncytial Virus Infection

Columbia University (New York)

Preceptors: Dr. Ursula Buchholz, Dr. Peter Collins, Dr. Masfique Mehedi

LCH-192. Stephanie Asdell

Influenza Group 2 HA stem-only nanoparticles induce heterotypic immune response

Duke University (North Carolina)

Preceptors: Dr. Syed Moin, Dr. Barney Graham

LCH-193. Samantha Becotte

Cloning of a candidate placental malaria vaccine antigen into the Ad5 adenoviral vector

University of Rhode Island (Rhode Island)

Preceptors: Mrs. Holly Torano, Dr. Patrick Duffy

LCH-194. Adhya Beesam

Optimizing germline antibody elicitation through the WITO HIV-1 gp120 trimer using molecular dynamics

Plano East Senior High School (Texas)

Preceptors: Dr. Michael Dolan, Dr. Paolo Lusso, Dr. Peng Zhang

LCH-195. Jacob Berrigan

Studies to Investigate the Possible Direct Inhibition of APOBEC3G Deaminase Activity by Virus-Associated HIV-1 Vif In Vivo

University of Washington (Washington)

Preceptors: Dr. Eri Miyagi, Dr. Klaus Strebel

LCH-196. Sarah Bien

Generation and selection of high expressing CHO cells by methotrexate amplification of dihydrofolate reductase selection marker

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Nadia Amharref, Dr. Elizabeth Scheideman, Dr. Frank Arnold

LCH-197. Jonathan Cao

Assessment of Precision and Accuracy of Proteomic Analysis Quantification

Rutgers University (New Jersey)

Preceptor: Dr. L. Renee Olano

LCH-198. Carlos Castrodad-Rodríguez

Norovirus Pathogenesis: Elucidation of Cell Death-associated Molecular Pathways

University of Puerto Rico School of Medicine (Puerto Rico)

Preceptors: Dr. Eric Levenson, Dr. Kim Green

LCH-199. Nicole Cavett

Optimization of B cell culture for isolating antibodies

University of Maryland, College Park (Maryland)

Preceptors: Dr. Mario Roederer, Dr. Rosemarie Mason, Mr. Leonard Nettey

LCH-200. Lauren Chang

Structure-guided design of epitope-specific T cell receptor/co-engagement heteromultimers

University of California, San Diego (California)

Preceptors: Ms. Rebecca Gillespie, Ms. Emily Phung, Dr. Masaru, Kanekiyo, Dr. Barney Graham

LCH-201. Justin Choi

Contribution of PMT, a toxin exporter, to Staphylococcal pathogenesis

Cornell University (New York)

Preceptors: Dr. Gordon Cheung, Ms. Emilie Fisher, Dr. Michael Otto

LCH-202. Elien Comhaire

Creating a database of annotated computational models of key signaling pathways. Integration of multiple models into a single pathway.

Hood College (Maryland)

Preceptors: Dr. Martin Meier-Schellersheim, Dr. Fengkai Zhang

LCH-203. Daniela Coronado

Towards an understanding of the roles of the NF-kappaB transcription factor RelB in innate immune responses

Princeton University (New Jersey)

Preceptors: Dr. Ulrich Siebenlist, Dr. Estefania Claudio

LCH-204. Christian Cullen

Glucocorticoid effects in whole-blood models of human inflammation

University of Georgia (Georgia)

Preceptor: Dr. Luis Franco

LCH-205. Isabel Dame

Generation of episomal plasmids for recombinant protein production in Pichia pastoris

Wheaton High School (Maryland)

Preceptor: Dr. Nicholas MacDonald

LCH-206. Neel Daugherty-Shrivastava

Human Microbiome and Alzheimer's Disease

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Mariam Quinones, Dr. Nick Weber

LCH-207. Colin Fields

Recombinant Human Parainfluenza Virus Type 3 (HPIV3) Expressing Green Fluorescent Protein: An Initial Evaluation of HPIV3 as a Vector for Expressing a Heterologous Protein for Vaccine Development

University of Maryland, College Park (Maryland)

Preceptors: Ms. Sonja Gallo, Dr. Xueqiao Liu, Dr. Peter, Collins, Dr. Shirin Munir

LCH-208. Heven Haile

Evaluating a Novel SARS Coronavirus Vaccine Platform

Columbia University (New York)

Preceptors: Dr. Barney Graham, Ms. Kizzmekia Corbett

LCH-209. Brooke Horowitz, Anna Chen

Key Features of the Interaction between the HIV Envelope Protein gp120 and the Integrin alpha4beta7

Williams College (Massachusetts), Richard Montgomery High School (Maryland)

Preceptor: Dr. James Arthos

LCH-210. Cindy Huang, Robert Yang

LymDB: Collection and Integration of Lymphoma Somatic Mutations from 57 NGS Studies

Thomas S. Wootton High School (Maryland), Montgomery Blair High School (Maryland)

Preceptor: Dr. Calvin Johnson

LCH-211. Jesse Huang

Fluorescence Anisotropy Analysis of anti-HIV Vaccine Candidates

University of Maryland, College Park (Maryland)

Preceptors: Dr. Attila Nagy, Dr. Adam Charlton

LCH-212. Baqar Husain

Structural Study of Interactions Between CD4 Binding Site Antibodies and the Secondary Binding Site of HIV-1 Envelope Protein

University of Georgia (Georgia)

Preceptor: Dr. Yen-Ting Lai

LCH-213. Kevin Johnson

ADP-ribosylation in the innate immune response.

Washington University In Saint Louis (Missouri)

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

LCH-214. Barbora Kabatova

Evaluating the Genetic Stability of Pre-fusion Stabilized Respiratory Syncytial Virus Fusion Protein Expressed by a Parainfluenza Virus Type 3 Vector

University of Maryland School of Pharmacy (Maryland)

Preceptors: Dr. Bo Liang, Dr. Shirin Munir, Dr. Peter Collins

LCH-215. Rahul Kamdar

Tetracysteine Tagged OVA (323-339) Peptide as a Novel Tool for Tracking Peptide-MHCII Complexes in Primary Mouse Cells

Paint Branch High School (Maryland)

Preceptor: Dr. Billur Akkaya

LCH-216. Alexander Kim

Structural Studies of Small Molecule HIV-1 Inhibitors and Env Trimer Complex

University of Virginia (Virginia)

Preceptors: Dr. Peter Kwong, Dr. Young Kwon

LCH-217. Joseph Kim

Developing a microfluidic device for diffusion driven chemotaxis experiments

University of Maryland, College Park (Maryland)

Preceptors: Dr. Javier Manzella-Laperia, Dr. Joseph Brzostowski, Dr. Nicole Morgan

LCH-218. Nathan Ko

Moderna mRNA-Based HIV-1 Vaccines in Guinea Pigs

Wesleyan University (Connecticut)

Preceptors: Dr. Cheng Cheng, Mr. Alexander Jafari

LCH-219. Minna Kuriakose

Decoding immune signaling cascades through systems proteomics

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Aleksandra Nita-Lazar, Mr. Mohsin Khan

LCH-220. Megan Le

Comparison of Unfolded Protein Response in Various CHO-DG44-mAb Expressing Clones to Identify Molecular Determinants of Higher Producers

University of Maryland, College Park (Maryland)

Preceptors: Dr. Hussain Dahodwala, Dr. Elizabeth Scheideman, Dr. Frank Arnold

LCH-221. John Lee

The Role of Cationic Amino Acid Transporter-2 on Inflammasome NLRP3 Activity

Yale University (Connecticut)

Preceptors: Dr. Rafael Prado, Dr. Thomas Wynn

LCH-222. Shanna Leventhal

The Effect of the Endosomal Sorting Complex Required for Transport on Human Cytomegalovirus Entry and Egress

Johns Hopkins University (Maryland)

Preceptors: Dr. Qingxue Li, Dr. Jeffrey Cohen

LCH-223. Samara Levin

Impact of Food Allergy on the Growth of Children with Moderate-Severe Atopic Dermatitis

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

Preceptors: Dr. Pamela Guerrero, Ms. Marjohn Rasooly

LCH-224. Andrew Li

Human IgG internalization on HMVEC

RiverHill High School (Maryland)

Preceptor: Mrs. ZhiHui Xie

LCH-225. Riancy Li

Designing Simmune as a More User-Friendly Modeling Tool

Columbia University (New York)

Preceptors: Dr. Fengkai Zhang, Dr. Martin Meier-Schellersheim

LCH-226. Crystal Lipsey

Small molecule modulators as tools to study TLR pathway activation in differentiated human macrophage cells

Morehouse School of Medicine (Georgia)

Preceptors: Dr. Sinu John, Dr. Iain Fraser

LCH-227. Matthew Marino

Analysis of Phosphorylation of MARCKS in Macrophages

Jonathan Law High School (Connecticut)

Preceptors: Dr. Aleksandra Nita-Lazar, Mr. Arthur Nuccio

LCH-228. George Mwinnyaa

HIV Incidence Estimation of East London, South Africa on Samples From Emergency Room Visits

Johns Hopkins University (Maryland)

Preceptors: Ms. Anna Eisenberg, Mr. Reinaldo Fernandez, Dr. Oliver, Laeyendecker, Dr. Thomas Quinn

LCH-229. Sofia Nakuchima

Limited characterization of human antibodies generated against an investigational malaria transmission blocking vaccine

Gaithersburg High School (Maryland)

Preceptors: Dr. David Narum, Mr. Raul Herrera

LCH-230. Regina O'Brien

Early Transcriptional Changes in Eosinophils Post-glucocorticoid Challenge in Hypereosinophilic Syndrome

Northern Virginia Community College (Virginia)

Preceptors: Dr. Amy Klion, Dr. Kindra Stokes

LCH-231. Nicole Oppenheim

Single-cell gene expression analysis of human CCR6+ memory CD4 T cells

Washington University in St. Louis (Missouri)

Preceptors: Dr. Satya Singh, Dr. Joshua Farber

LCH-232. Carson Peters

The Expression of PfEMP1 Proteins as a platform for Malaria Vaccine Target

Grinnell College (Iowa)

Preceptors: Dr. Brittany Pease, Dr. Michal Fried

LCH-233. Daven Pillai

Use of 3D Printing and Visualization in Tuberculosis Imaging

George Mason University (Virginia)

Preceptors: Dr. Meghan McCarthy, Mr. James Tyrwhitt-Drake, Dr. Phil Cruz

LCH-234. Pranav Rekapalli

Analysis of the MCK-2-dependent macrophage infection by mouse cytomegalovirus

Princeton University (New Jersey)
Preceptors: Dr. Sergio M. Pontejo, Dr. Philip Murphy

LCH-235. Andy Renteria

Evaluating IL-22-dependent immune factors during mucosal Candida infections
Emporia State University (Kansas)
Preceptors: Dr. Timothy Break, Dr. Michail Lionakis

LCH-236. Arhum Saleem

Autosomal-dominant Hyper IgE Impairs Keratinocyte Migration
Columbia University (New York)
Preceptors: Mr. Erik Anderson, Dr. Ian Myles

LCH-237. Aidan Sandman-Long

Allergic Sensitization Coincident with Helminth Infection Drives a Hyperreactive Immune Response that Limits Parasite Burden
Walter Johnson High School (Maryland)
Preceptors: Dr. Pedro Gazzinelli Guimaraes, Dr. Thomas Nutman

LCH-238. Kayla Szymanik

The Effect of Media Additives on Cell Growth and HIV Monoclonal Antibody Production in CHO Cell Culture
University of Maryland, Baltimore County (Maryland)
Preceptors: Mrs. Stephanie Barclay, Dr. Bobby Boonyaratanakornkit, Dr. Joe, Horwitz, Dr. Frank Arnold

LCH-239. Yeabsera Tadesse

Analysis of the interplay between Toll-like receptor (TLR) signaling pathways in B lymphocytes.
Montgomery College (Maryland)
Preceptors: Dr. Susan Pierce, Dr. Munir Akkaya, Mr. Brandon Theall

LCH-240. William Terrell

The response of human monocytes to microfilaria of Brugia malayi
State University of New York - Binghamton University (New York)
Preceptors: Dr. Roshanak Semnani, Ms. Sameha Tariq

LCH-241. Miles Tyner

Characterizing the Prevalence of Wolbachia pipientis and Plasmodium falciparum in a Natural Population of Anopheline Mosquitoes from Mali
Middlebury College (Vermont)
Preceptors: Dr. Fabio Mendonca-Gomes, Dr. Carolina Barillas-Mury

LCH-242. Pavan Vemulakonda

Development of antigen-specific B cell tetramers to assess immune response to malaria vaccines.

University of Maryland, College Park (Maryland)

Preceptors: Dr. Camila Coelho, Dr. Patrick Duffy

LCH-243. Alicia Wang

Silencing Mutated Cxcr4 in Mouse Hematopoietic Stem Cells as a Genetic Cure Strategy Obviating Bone Marrow Conditioning in WHIM Syndrome

Princeton University (New Jersey)

Preceptors: Mr. Ari Azani, Dr. Jiliang Gao, Dr. Philip Murphy

LCH-244. Leah Wolfish

Cellular imaging of the MHC-I chaperone TAPBPR

Bnos Yisroel (Maryland)

Preceptors: Dr. Nathan May, Dr. David Margulies

LCH-245. Jahyun Yang

Useful Human T-cell Line Model for CD40L Mutation using CRISPR-Cas9 Gene Editing Method

Quince Orchard High School (Maryland)

Preceptor: Dr. Uimook Choi

LCH-246. Aolin Zhang

Characterization of Virulence Factors and Epigenetic Regulation of Meningoencephalitis vs. Pulmonary Origin Cryptococcus neoformans Strains

Brown University (Rhode Island)

Preceptors: Dr. Sarah Davis, Dr. Peter Williamson

LCH-247. Isabelle Zhou

Genetic stability of a Respiratory Syncytial Virus encoding codon-pair deoptimized F and G genes

Richard Montgomery High School (Maryland)

Preceptors: Dr. Peter Collins, Dr. Cyril Le Nouen, Dr. Lijuan Yang

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

LCH-248. Zejun Bao

Comparison of DTI Tractography and Neuronal Tracers in the Mouse Brain

University of California, San Diego (California)

Preceptors: Dr. Elizabeth Hutchinson, Dr. Carlo Pierpaoli

LCH-249. Tyler Burden

Effects of Ultraviolet Irradiation on HeLa Cells

Towson University (Maryland)

Preceptors: Dr. Heather Kalish, Mr. Matthew Davisson

LCH-250. Alexander Chan

X-ray Activatable Drug Release of Hybrid Gold Polymersomes for Cancer Chemoradiotherapy
Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Zijian Zhou, Dr. Xiaoyuan Chen

LCH-251. Venkatesh Deshpande

Tyrosine Phosphoproteomics of Rat Inner Medullary Collecting Duct Cells in Response to Vasopressin

Rutgers University (New Jersey)

Preceptors: Dr. Chung-Lin Chou, Dr. Mark Knepper

LCH-252. Zeyad Emam, Adam Anderson

Developing Deep Neural Networks for Automated 3D Electron Micrograph Segmentation

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

Preceptors: Dr. Richard Leapman, Dr. Matthew Guay

LCH-253. Elyssa Feuer

Defining Molecular Targets in Bladder Cancer

Hamilton College (New York)

Preceptors: Dr. Alexander Gorbach, Dr. Svetlana Pack, Dr. Zied, Abdullaev, Dr. Piyush Agarwal

LCH-254. Michael Gerber

Automated Image Quality Assessment in Prostate MRI

CUNY The City College of New York (New York)

Preceptors: Dr. Nathan Lay, Dr. Ronald Summers, Dr. Ismail Baris Turkbey

LCH-255. Saurin Kantesaria

Recapitulating in vivo Spatial Oxygen Distribution in 3D Cancer Spheroid Culture

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Nicole Morgan, Dr. Michael Gottesman

LCH-256. Brian Liang

Polymeric Neoantigen Nanovaccines for Cancer Immunotherapy

Montgomery Blair High School (Maryland)

Preceptors: Dr. Guizhi Zhu, Dr. Shawn Chen

LCH-257. Arthur Liao

Design and Development of Nanoscopic Delivery of Camptothecin and Paclitaxel for Combination Therapy

Oakton High School (Virginia)

Preceptors: Dr. Fuwu Zhang, Dr. Shawn Chen

LCH-258. Andrew Liu

Combining QCM-D and AFM for Interactions between Lipid Bilayers and Amyloid Beta Plaques
Oakton High School (Virginia)

Preceptor: Dr. Albert Jin

LCH-259. Matthew Short

Optimizing Parameters of a Center of Pressure Modification Task during Unstable Sitting
Temple University (Pennsylvania)

Preceptor: Dr. Bradford Hendershot

LCH-260. Justin Song

SERS-Active Gold Nanoparticle Dimer for Cu²⁺ Detection
Richard Montgomery High School (Maryland)

Preceptors: Dr. Jibin Song, Dr. Shawn Chen

LCH-261. Taylor Sullivan

Characterizing 3D cell growth in a bioreactor with controlled oxygen delivery
University of Maryland, College Park (Maryland)

Preceptors: Dr. Nicole Morgan, Mr. William Wulfange

LCH-262. Louis Wang, James Xu

Using mobile phones to monitor nailfold capillary density in humans
Cornell University (New York), Trinity School (New York)

Preceptors: Dr. Alexander Gorbach, Dr. Aleksandr Smirnov

LCH-263. Timothy Wood

A comprehensive processing and analysis framework for Diffusion MRI: Application to Moebius Syndrome

University of Maryland, College Park (Maryland)

Preceptors: Dr. Neda Sadeghi, Dr. Carlo Pierpaoli

LCH-264. Amy Xiao

A Streamlined Metabolomics Workflow to Identify Putative Biomarkers of P. falciparum Infected Plasma

Johns Hopkins University (Maryland)

Preceptors: Dr. Michal Fried, Dr. Patricia Gonzales Hurtado (NIAID)

LCH-265. Ariel Zhang

ES-MIONs with Precisely Controlled Size for High Resolution T1-Weighted MR Imaging and Precise Delivery of Doxorubicin

Montgomery Blair High School (Maryland)

Preceptor: Mr. Zheyu Shen

National Institute on Drug Abuse (NIDA)

LCH-266. Joseph Acqui

The Effects of METH Self-Administration on the mRNA Expression of Neurotrophic Factors in the Hippocampus

Stevenson University (Maryland)

Preceptors: Dr. Martin Job, Dr. Subramaniam Jayanthi, Mr. Mike, McCoy, Dr. Jean Lud Cadet

LCH-267. Oluwatobi Ariyo

Assessing Fos expression in nucleus accumbens-projecting medial prefrontal cortical neurons.

Ridge View High School (South Carolina)

Preceptors: Dr. Brandon Warren, Dr. Bruce Hope

LCH-268. Rachael Avidor

XIE2-64, a selective cannabinoid CB2 receptor inverse agonist, inhibits cocaine-administration and cocaine-seeking behavior in rats and mice.

Western High School (Maryland)

Preceptors: Dr. Zheng-Xiong Xi, Dr. Yi He, Dr. Guo-hua Bi

LCH-269. Liam Bourque

Dopamine D1-D3 receptor heteromer-mediated G protein-independent signalling in the nucleus accumbens

University Of Maryland, College Park (Maryland)

Preceptor: Dr. Sergi Ferre

LCH-270. Ian Chambers

Diversity of VTA neurons; Electrophysiological analysis of Glutamatergic and GABAergic neurons

Rhodes College (Tennessee)

Preceptors: Dr. Jorge Miranda Barrientos, Dr. Marisela Morales

LCH-271. Dana Dandeneau

The role of Nucleus Accumbens medium spiny neuron sub-types in modulating aggression reward and relapse.

West Virginia University (West Virginia)

Preceptors: Dr. Sam Golden, Dr. Yavin Shaham

LCH-272. Marisa DeLuca

The Novel Modafinil Analog, JJC8-091, Is Promising for Treatment of Cocaine Addiction

University of Maryland, College Park (Maryland)

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

LCH-273. Apoorva Dhanala

Quantifying behavioral search strategies in rats performing a foraging task

Northview High School (Georgia)

Preceptors: Dr. Andrew Wikenheiser, Dr. Geoffrey Schoenbaum

LCH-274. Katrina Gazo

Preclinical Evaluation of Probenecid on Motor, Anxiety, and Consummatory Behaviors

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Brendan Tunstall, Dr. Leandro Vendruscolo, Dr. George Koob

LCH-275. Amanda Haas

Dissecting the functional network connecting the lateral preoptic area and the ventral tegmental area

Anne Arundel Community College (Maryland)

Preceptor: Dr. David Barker

LCH-276. Nicole Haggerty

Impact of societal trends on drug use in Baltimore City over the past 10 years

University of Maryland, College Park (Maryland)

Preceptors: Dr. Karran Phillips, Ms. Kelli Russell

LCH-277. Timothy Huynh

The Role of the Orbitofrontal Cortex on Economic Choice Behavior

Catonsville High school (Maryland)

Preceptors: Dr. Matthew Gardner, Dr. Geoffrey Schoenbaum

LCH-278. Ryan James

Analysis of KDEL Receptor Function Using CRISPR-Cas9 Mutagenesis

Stevenson University (Maryland)

Preceptors: Dr. Christopher Richie, Dr. Brandon Harvey

LCH-279. Andrew Jiang

Monosynaptic Inputs to Ventral Tegmental Area Glutamate Neurons: Discovering the Potency of the Optimized Rabies Glycoprotein

Drexel University (Pennsylvania)

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

LCH-280. Eliza Judge

Influence of psilocybin on attentional, emotional and executive control in treatment-seeking smokers

Michigan State University (Michigan)

Preceptors: Dr. John Fedota, Dr. Elliot Stein

LCH-281. Sierra Kane

Excitatory inputs from the lateral hypothalamus to the VTA
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Hui-Ling Wang, Dr. Marisela Morales

LCH-282. Jacqueline Magaha

Finding New Designer Drugs for Designer Receptors
Worcester Polytechnic Institute (Massachusetts)
Preceptors: Dr. Mike Michaelides, Dr. Jordi Bonaventura

LCH-283. Yaroslav Markov

A Closer Look Into Retention of ER Resident Proteins: KDELR Isoforms and Their Functions
City University of New York - Hunter College (New York)
Preceptors: Dr. Susanne Back, Dr. Brandon Harvey

LCH-284. Jessica Marquez-Membreno

The highly selective and metabolically stable dopamine D3R antagonist VK4-116 inhibits oxycodone addiction-like behaviors without compromising oxycodone's antinociceptive effects in rats
Baltimore City College High School (Maryland)
Preceptors: Dr. Zhi-Bing You, Dr. Guo-Hua Bi, Dr. Zheng-Xiong Xi

LCH-285. Kaylan Mayo

Social-Based Voluntary Abstinence Prevents the Emergence of Incubation of Drug Craving
University of Maryland, College Park (Maryland)
Preceptors: Dr. Yavin Shaham, Dr. Marco Venniro, Ms. Michelle Zhang

LCH-286. Alan Min

Subtypes within Human Resting-State fMRI Data
Purdue University (Indiana)
Preceptors: Dr. Betty Jo Salmeron, Dr. Yuzheng Hu

LCH-287. Ankit Mishra

Methamphetamine Self-Administration regulates Inward Rectifying K⁺ channel mRNA levels in the Rat hippocampus
University of Maryland, College Park (Maryland)
Preceptors: Dr. Jean Cadet, Dr. Subramaniam Jayanthi

LCH-288. Gardy Nicolas

The effects of oxycodone self-administration on intermediate early genes of the dorsal striatum.
George Washington University (District of Columbia)
Preceptor: Dr. Christopher Blackwood

LCH-289. Alexander Ogilvy

Deconstructing the synaptic connections of lateral preoptic area glutamate and GABA neurons onto neurotransmitter defined cell-types in the ventral tegmental area

New York Medical College (New York)

Preceptors: Dr. Shiliang Zhang, Dr. David Barker

LCH-290. Chelsea Osuji

Characterizing Interferon Response in SH-SY5Y Cells using a HISG54 Nano-Luciferase Reporter

Rutgers University (New Jersey)

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

LCH-291. Aaron Park

Gesicles Mediate Transient Delivery of CRISPR/Cas9 to Deactivate the HIV-1 LTR

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Lee Campbell, Dr. Brandon Harvey, Dr. Christopher Richie

LCH-292. Seo Jung Park

Glutamate corelease from dopamine neurons antagonizes MPTP-induced neurotoxicity and locomotor impairment in mice

Cornell University (New York)

Preceptor: Dr. Hui Shen

LCH-293. Syrus Razavi

Incubation of discriminative stimulus-induced cocaine craving

Winston Churchill High School (Maryland)

Preceptors: Dr. Rajtarun Madangopal, Ms. Lauren Komer, Dr. Bruce Hope

LCH-294. Angelica Romero

Impact of lifetime drug use on white matter in humans

Immaculate Conception Academy (Puerto Rico)

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

LCH-295. Sydney Schmitt

Elucidating Behavioral Subtypes from a Broad Range of Characterization Data

Southern Methodist University (Texas)

Preceptors: Dr. Betty Jo Salmeron, Dr. Thomas Ross, Dr. Yuzheng, Hu, Dr. Elliot Stein

LCH-296. Rachel Shaffer

Beyond Modafinil: Evaluation of R-modafinil and the next generation of analogues using fast-scan cyclic voltammetry

Shippensburg University (Pennsylvania)

Preceptors: Dr. Gianluigi Tanda, Dr. Jacqueline Keighron

LCH-297. Arfa Sheikh

Cell-Type Specific Expression of μ Opioid Receptor in VTA Neurons

Community College of Baltimore County (Maryland)

Preceptors: Dr. Marisela Morales, Dr. David Root

LCH-298. Sabra Sisler

Probing the Identity of TH+ Neurons in the Dorsal Raphe Nucleus

Bethesda Chevy Chase High School (Maryland)

Preceptors: Dr. Stephanie Gantz, Dr. Antonello Bonci

LCH-299. Allison Smith

Septal Stimulation and Reward: An Optogenetic Investigation

Community College of Baltimore County (Maryland)

Preceptors: Mr. Andrew Kesner, Dr. Satoshi Ikemoto

LCH-300. Jerry Song

The Role of Substantia Nigra and Ventral Tegmental Dopamine Neurons in Conditioned Taste Aversion

Johns Hopkins University (Maryland)

Preceptors: Dr. Satoshi Ikemoto, Mr. Andrew Kesner

LCH-301. Shivani Talwar

The dorsal raphe nucleus provides a major glutamatergic input to the lateral hypothalamus

University of Maryland, College Park (Maryland)

Preceptors: Dr. Marisela Morales, Dr. Huiling Wang

LCH-302. Ian Taukulis

Rapid Discovery and Visualization of Clinical Research Data Using R

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Massoud Vahabzadeh, Dr. Jia-Ling Lin, Mr. Mustapha Mezghanni

LCH-303. Alexandra Wynn

Effect of sigma-1 receptor on epigenetic modulation in the dorsal root ganglion as they relate to neuropathic pain

Saint Bonaventure University (New York)

Preceptor: Dr. Hsiang-En Wu

LCH-304. Alina Yasinova

Two Paths to the Door of Our Addiction Clinic: Opioid Initiation with Heroin or Prescription Pills

University of Maryland, Baltimore (Maryland)

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

LCH-305. Kevin Zheng

Dissection of CB1 Receptor Function in Different Phenotypes of Neurons in Cannabis Reward and Aversion

Duke University (North Carolina)

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

National Institute on Deafness and Other Communication Disorders (NIDCD)

LCH-306. Omar Allam

Establishing an In-Vitro Inner-Ear Environment Model for Prolonged Stria Vascularis Vitality

University of Connecticut School of Medicine (Connecticut)

Preceptors: Dr. Michael Hoa, Dr. Rafal Olszewski, Dr. Soumya Korrapati

LCH-307. Alejandro Anaya

Using single-molecule fluorescence in situ hybridization (smFISH) to study mammalian cochlear development

University of California, Santa Cruz (California)

Preceptors: Dr. Matthew Kelley, Dr. Michael Kelly, Dr. Weise, Chang, Dr. Elizabeth Driver

LCH-308. Hailey Bednar

Effects of Polymorphisms of the Melanocortin 3 Receptor on Circadian Rhythm Related Activity and Gene Expression

Clemson University (South Carolina)

Preceptors: Dr. Jack Yanovski, Mr. Andrew Uhlman

LCH-309. Brittney Carter

Auditory Phenotype of Oculocutaneous Albinism

Ohio State University (Ohio)

Preceptor: Dr. Carmen Brewer

LCH-310. Jeffrey Cooper

Normative Oculomotor Data: Unfiltered, Filtered, and Clinician's Eye

Gallaudet University (District of Columbia)

Preceptor: Dr. Christopher Zalewski

LCH-311. Daniel Fong

Effect of Epigenetic Changes on Inner Ear Gene Therapy

Poolesville High School (Maryland)

Preceptors: Dr. Wade Chien, Mr. Kevin Isgrig, Dr. Hong Jun Wang

LCH-312. Mahmoud Khalil

Mapping cell lineage relationships in the developing inner ear using genetic tools and mitotic labeling

Colgate University (New York)

Preceptors: Dr. Matt Kelley, Dr. Michael Kelly, Mr. Joseph, Mays, Dr. Kathryn Ellis

LCH-313. Krista Roberts

Evaluating Candidate Genes for Stuttering

Georgetown University School of Medicine (District of Columbia)

Preceptors: Dr. Dennis Drayna, Mr. Eduardo Sainz, Dr. Carlos Domingues

LCH-314. Lillian Sun

Enhanced Antigen-Positive and TNF-Dependent Bystander Killing of Oral Cancer Cells by Cytotoxic T-Lymphocytes following WEE1 Inhibition

University of Maryland, College Park (Maryland)

Preceptor: Dr. Clint Allen

LCH-315. Christina Takla

Novel recessive genetic variants that lead to hearing loss in Pakistani families

University of Maryland, College Park (Maryland)

Preceptors: Dr. Thomas Friedman, Ms. Rabia Faridi

LCH-316. Charis Williams

Effects of Lovastatin on Cisplatin Induced Hearing Loss

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Lisa Cunningham, Dr. Lisa Cunningham, - Katie, Speilbauer, Dr. Kate Fernandez

National Institute of Minority Health and Health Disparities (NIMHD)

LCH-317. Myriam Alcantar Rama

Allostatic load and health behavior among Latino/Hispanic communities

University of New Mexico (New Mexico)

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

LCH-318. Abel Amare

Systemic Inflammation Score (SIS) as a Predictor for Sagittal Abdominal Diameter (SAD) in Non-Diabetics

George Washington University (District of Columbia)

Preceptor: Dr. Sharon Jackson

LCH-319. Ky-Mani Coutain

Characterization of Repetitive Behaviors in Toddlers with Language Delay

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Audrey Thurm, Mrs. Bethany Sauls

LCH-320. Michael Ramsey

Intersectionality of social determinants of health and smoking behaviors among US Black adults

Jackson State University (Mississippi)

Preceptor: Dr. Kelvin Choi

LCH-321. Catherine Trad

Exploring the distribution of Tobacco-Free policies in a national sample of post-secondary educational institutions

New York University (New York)

Preceptor: Dr. Kelvin Choi

National Institute of Nursing Research (NINR)

LCH-322. Stephanie Becenti

Health disparities in individuals with or without chronic abdominal pain

Heritage University (Washington)

Preceptors: Dr. Wendy Henderson, Ms. Onyinyechi Ozoji, Ms. Hannah, Davidson, Ms. Ana Diallo

LCH-323. Mary Blake

Method development for optimizing primary skeletal muscle cell cultures for downstream application

Loma Linda University School of Medicine (California)

Preceptors: Dr. Joshua Todd, Dr. Katy Meilleur

LCH-324. Emma Butturini

Analysis of exosomal content and protein expression in overweight individuals using Nanosight

Wake Forest University (North Carolina)

Preceptors: Dr. Wendy Henderson, Dr. Paule Joseph, Dr. Ana, Diallo, Mr. Natnael Kenea

LCH-325. Hannah Davidson

Trauma on our genes: The role of traumatic life events on miRNA expression in differential pain profiles

Hampshire College (Massachusetts)

Preceptors: Dr. Paule Joseph, Ms. Christina Boulineaux, Dr. Jeffrey, Robinson, Dr. Wendy Henderson

LCH-326. Ron Jako Domingo

Morphology and Distribution of Neuromuscular Junction in C57 Mice

Seneca Valley High School (Maryland)

Preceptors: Dr. Rebekah Feng, Dr. Leorey Saligan

LCH-327. Ronna Kayla Domingo

The Effects of Androgen Deprivation Therapy on Urinary Function in Men with Prostate Cancer

Seneca Valley High School (Maryland)

Preceptors: Dr. Rebekah Feng, Dr. Leorey Saligan

LCH-328. Joseph Johnson

Investigating the Domains of Fatigue Related to Radiation Therapy

Northwest High School (Maryland)

Preceptors: Dr. Leorey Saligan, Dr. Rebekah Feng

LCH-329. Sara Mithani

Gene Expression in Military Veterans with Sleep Disturbances

University of Illinois at Chicago (Illinois)

Preceptors: Dr. Jessica Gill, Dr. Young-Eun Cho

LCH-330. Farideh Sistani-khanaman

Metabotropic Glutamate Receptor 5 Mediates Post-radiotherapy Chronic Fatigue Development in Cancer Patients

Montgomery College (Maryland)

Preceptors: Dr. Rebekah Feng, Dr. Leorey Saligan

LCH-331. Emma Walter

Individual Differences in Intestinal Permeability: Utility of High Resolution Liquid

Chromatography-Mass Spectrometry (LC-MS)

Walter Johnson High School (Maryland)

Preceptors: Dr. Wendy Henderson, Dr. Ana Diallo

LCH-332. Berwin Yuan

Proteomic Profile of a Radiation-Induced Fatigue Mouse Model

University of Maryland, College Park (Maryland)

Preceptors: Dr. Rebekah Feng, Dr. Leorey Saligan

Center for Information Technology (CIT)

PM-001. Esther Chen

Assistive Technology: Automated Calibration of Kinect-Based Keyboard Engineered for a Wounded Warrior

Cornell University (New York)

Preceptors: Mr. Manish Kondapolu, Mr. Mark Lindholm, Dr. Thomas, Pohida, Mr. Randall Pursley

PM-002. Amisha Dave

mHealth Smartphone Application to Measure Risky Driving Behavior and Predict Crashes

University of Connecticut (Connecticut)

Preceptors: Dr. Raisa Freidlin, Dr. Thomas Pohida, Dr. Johnathon, Ehsani, Dr. Bruce Simons-Morton

PM-003. Manish Kondapolu

Developing a Kinect Assisted Keyboard for an Wounded Warrior

University of California, Berkeley (California)

Preceptors: Mr. Mark Lindholm, Mr. Tom Pohida, Mr. Randall Pursley

PM-004. Aditya Nilacantan, Connor Schultz

Compact video monitoring systems for large-scale rodent ethology

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

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

PM-005. Christopher Roque

Sensor-Based "Smart Cage" System to Advance Rodent Monitoring Capabilities

University of Maryland, College Park (Maryland)

Preceptors: Mr. Marcial Garmendia-Cedillos, Dr. John Dennis, Dr. Alexxai, Kravitz, Mr. Tom Pohida

PM-006. Connor Schultz

Automated Generation of Patient-Specific Prostate Molds for Validating Lesion Localization and Procuring Fresh Tissue Specimens

Catholic University of America (District of Columbia)

Preceptors: Mr. Marcial Garmendia, Dr. Peter Pinto, Mr. Tom, Pohida, Dr. Ismail Turkbey

PM-007. Tony Shu

Next-gen sequencing analysis made easy: A case of running ATAC-seq pipelines on a local Galaxy server

University of Maryland, College Park (Maryland)

Preceptors: Mr. William Lau, Dr. Calvin Johnson

National Human Genome Research Institute (NHGRI)

PM-008. Brandon Wang

Electric Field Effects on Cells - Evaluation as Cancer Therapy

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Mr. Tom Pohida, Dr. Peter Bassler, Mr. Randall, Pursley, Dr. Rea Ravin

PM-009. Anila Afzal

Crispr/Cas9-mediated Mutagenesis for Studying Hair Cell Regeneration in Zebrafish

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Shawn Burgess, Dr. Alberto Rissone, Dr. Jason, Sinclair, Dr. Lisha Xu

PM-010. Faris Aziz

Information Transformation: Annotating Whole Genome VarSifter Files with the Genome Aggregation Database

River Hill High School (Maryland)

Preceptor: Dr. Thomas Markello

PM-011. Ian Brown

Prenatal Whole Exome Sequencing Identifies the Causes of Congenital Heart Disease

Walt Whitman High School (Maryland)

Preceptors: Dr. William Gahl, Dr. May Christine Malicdan, Dr. Joshi, Stephen, Dr. Huda Al-Kouatly

PM-012. Nia Byrd

A Case Study Approach of Coping Styles and Mental Health in Caregivers of Children with Severe Genetic Illnesses

University of Michigan (Michigan)

Preceptor: Dr. Laura Koehly

PM-013. Michael Cardone

Lysosomal storage disease Niemann-Pick Type C1 cells display disease phenotype with various intracellular disease markers.

Florida Atlantic University (Florida)

Preceptors: Dr. Bill Pavan, Ms. Denise Larson

PM-014. Uriah Contreras

Zebrafish as a model to identify genetic factors of tissue regeneration

Fort Lewis College (Colorado)

Preceptors: Dr. Wuhong Pei, Dr. Shawn Burgess

PM-015. Reinatou Coulibaly

Searching for Evidence of Large Deletions in Sequencing Data from Fanconi Anemia Patients

Wheaton High School (Maryland)

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

PM-016. Andrea D'Souza, Reem Mohamed

An Individual Patient's Pathway to Diagnosis of an Elusive Disease via the Undiagnosed Diseases Program

University of Maryland, College Park (Maryland), George Washington University (District of Columbia)

Preceptors: Dr. Audrey Thurm, Ms. Jennifer Murphy, Dr. Cynthia Tift

PM-017. Brandon Davis

Cornelia de Lange Syndrome in Diverse Populations
Washington University in St. Louis (Missouri)
Preceptors: Dr. Maximilian Muenke, Dr. Paul Kruszka

PM-018. Nadine Dogbe

Participants' Perceptions of the Receipt of a Negative Secondary Findings Report from Genome Sequencing
St. Olaf College (Minnesota)
Preceptors: Mr. Kendall Umstead, Dr. Barbara Biesecker

PM-019. Clayton Forman

A Study on Novel Causes of Pigmentation and Vesicular Biology Disorders in an Oculocutaneous Albinism Cohort
St. Albans School (District of Columbia)
Preceptor: Dr. David Adams

PM-020. Tesiya Franklin

Telomere length analysis of Type 2 alveolar cells in Hermansky-Pudlak Syndrome (HPS) Patients
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Bernadette Gochuico, Dr. Heidi Dorward, Dr. William Gahl

PM-021. Eric Joshua Garcia

Exploration of epigenetic modifiers in Gaucher Disease-associated Alpha-Synucleinopathies
University of Maryland, Baltimore County (Maryland)
Preceptors: Mr. Shahzeb Hassan, Dr. Ellen Sidransky, Dr. Nahid Tayebi

PM-022. Duber Gomez-Fonseca

Machine Learning for Variable Selection in GWAS Data
Jackson State University (Mississippi)
Preceptors: Dr. Joan Bailey-Wilson, Dr. Emily Holzinger

PM-023. Sunny Greene

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

PM-024. Emily Gripp

Analysis of Variants in Platelet Derived Growth Factor Receptor Alpha and Associated Human Phenotypes
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Maximilian Muenke, Dr. Paul Kruszka

PM-025. Christian Hernandez

Carrier Results and Genetic Counseling in ClinSeq: Describing Elements of Therapeutic Alliance

George Mason University (Virginia)

Preceptor: Dr. Lori Erby

PM-026. Andrew Hong

Alagille Syndrome in Diverse Populations

United States Naval Academy (Maryland)

Preceptors: Dr. Maximilian Muenke, Dr. Paul Kruszka

PM-027. Frederick Horne

Confirmation of Small Deletions in DBA Patient DNA Identified by Whole-Genome Sequencing

St. Albans School (District of Columbia)

Preceptors: Mr. Jens Lichtenberg, Mrs. G. Jaya Jagadeesh, Dr. David Bodine

PM-028. Randall Hughes

N2A Neuroblastoma Differentiation for a Cell Model of Leigh's Disease

Fort Lewis College (Colorado)

Preceptors: Dr. Peter McGuire, Mr. Russell D'souza

PM-029. Brenda Iriele

Turner Syndrome in Diverse Populations

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

PM-030. Jae Hee Jang

Genetic Screening of Human Holoprosencephaly Enhancers in Zebrafish

University of Maryland, College Park (Maryland)

Preceptor: Dr. Sungkook Hong

PM-031. Anique Jones

Molecular Cytogenetic Studies in cell lines

George Washington University (District of Columbia)

Preceptor: Dr. Amalia Dutra

PM-032. Oliver Kruszka

Noonan Syndrome in Diverse Populations

West Potomac High School (Virginia)

Preceptor: Dr. Suzanne Hart

PM-033. Sofia Kruszka

Genetic Predisposition in Turner Syndrome

Thomas Jefferson High School of Science and Technology (Virginia)

Preceptor: Dr. Suzanne Hart

PM-034. Taylor Lindstrom, Somto Ukwuani

Neuropsychological Profile in Patients with Type 3 Gaucher Disease: a longitudinal analysis

University of Miami (Florida), Emory University (Georgia)

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

PM-035. Amari McDuffie

FGF-21 and GDF-15 as Potential Clinical Markers for Mitochondrial Hepatopathy

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Mr. Maxim Jestin, Dr. Peter McGuire

PM-036. Melissa McGowan

Multi-system Organ Involvement in Hermansky-Pudlak Syndrome

West Virginia University School of Medicine (West Virginia)

Preceptors: Dr. Bernadette Gochuico, Mr. Kevin O'Brien

PM-037. Corey Miller

Investigating Child Feeding in a Virtual Reality Buffet

Kansas State University (Kansas)

Preceptor: Dr. Susan Persky

PM-038. Bernard Ndedi

Fragile X syndrome in diverse populations

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

PM-039. Jonathan Odim

Efficient Data Sharing within and between Groups: A Solution with Opal

Wootton Highschool (Maryland)

Preceptor: Dr. Amadou Gaye

PM-040. Katherine Pardo

Uncovering Uniqueness: Using the Genome Aggregation Database to Filter for Rare Variants in Whole Genome VarSifter Files

University of Virginia (Virginia)

Preceptor: Dr. Thomas Markello

PM-041. Anantha Sriya Reddy

Comparing miRNA Target Prediction Tools: miRanda vs. TargetScan

St. Bonaventure University (New York)

Preceptors: Dr. Christopher Lau, Dr. David Adams, Dr. William Gahl

PM-042. Sofia Rosenzweig

Association between migraines with aura and variations in the CECR1 gene

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Ivona Aksentijevich, Dr. Daniel Kastner, Ms. Natalie, Deutch, Ms. Natalia Sampaio Moura

PM-043. Benjamin Ruben

Quantitative Assessment of Inflammasome Formation: ASC Speck Detection by Flow Cytometry

Rice University (Texas)

Preceptors: Dr. Daniel Kastner, Dr. Ivona Aksentijevich, Dr. Massimo, Gadina, Ms. Natalia Sampaio Moura

PM-044. Alaina Shreves

Clinical Trajectories of Patients with and without Screened Genetic Disorders in the UK

College of William and Mary (Virginia)

Preceptors: Mr. Jeff Lienert, Dr. Christopher Marcum

PM-045. Suprit Singh

Longitudinal Studies of the Clinical and Laboratory Parameters of the NIH Cohort of the mutant Type Methylmalonic Acidemia

University of Central Florida College of Medicine (Florida)

Preceptors: Dr. Oleg Shchelochkov, Dr. Charles Venditti

PM-046. Abigail Stanton

Old Proteins, New Tricks: What Fish Can Teach Us About Vitamin B12 Metabolism

Colgate University (New York)

Preceptor: Dr. Lawrence Brody

PM-047. Kisha Thakur

Identifying agents of change within multigenerational and culturally different Australian households

University of Maryland, College Park (Maryland)

Preceptor: Dr. Laura Koehly

PM-048. Tada Vargas

To B12, or not to B12: Understanding the Impact of Vitamin B12 Deficiency on Gene Expression in the Brains of Genetically Engineered Mice

Oglala Lakota College (South Dakota)

Preceptors: Dr. Larry Brody, Mr. David Bernard

PM-049. Kaylyn Williams

The Association between Physician Uncertainty and Drug Treatment Decision Making: A Quantitative and Qualitative Analysis

Yale University (Connecticut)

Preceptors: Mr. Vence Bonham, Ms. Khadijah Abdallah

PM-050. Reem Al Shabeeb

Optimizing a Protocol to Identify Gustatory Neurons in Drosophila

The George Washington University (District of Columbia)

Preceptors: Dr. Mark Stopfer, Dr. Yu-Shan Hung

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

PM-051. Atieh Bakhtiar

Assessing the Relationship Between Borderline Traits and Executive Function Processes During an Emotional Task: A fNIRS Study

University of Maryland, Baltimore County (Maryland)

Preceptors: Ms. Emma Condy, Dr. Amir Gandjbakhche

PM-052. Lauren Blau

Eating for Two: Women's experience and understanding of food cravings during pregnancy

University at Albany, SUNY (New York)

Preceptors: Dr. Miriam Eisenberg, Dr. Leah Lipsky, Dr. Tonja Nansel

PM-053. Matthew Boden

A Novel LHX4 Mutation Associated with Combined Pituitary Hormone Deficiency

Washington University in St. Louis (Missouri)

Preceptors: Dr. Youn Hee Jee, Dr. Jeffrey Baron

PM-054. Jade Brunicardi

Study of the impact of PKA Catalytic Subunit amplification in Transgenic Mice

University of South Florida (Florida)

Preceptors: Dr. Ludivine Drougat, Dr. Constantine Stratakis

PM-055. Julia Buldo-Licciardi

Secretomic Analysis of Spent Embryo Culture Media

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

Preceptors: Dr. Katherine Green, Dr. Alan DeCherney

PM-056. Sonia Bustos Barocio

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

Los Medanos College (California)

Preceptors: Dr. Gisela Storz, Mr. Joshua M. Mills, Ms. Hira Shabbir

PM-057. Tzipora Caplan

Multivitamin Use and Semen Quality

Hebrew Theological College (Illinois)

Preceptors: Dr. Matthew Connell, Dr. Sunni Mumford, Dr. Enrique, Schisterman, Dr. Alan H. DeCherney

PM-058. Arihant Chadda

Analysis of ErbB4 isoforms in the developing mouse brain

Landon School (Maryland)

Preceptors: Ms. Larissa Erben, Dr. Andres Buonanno

PM-059. Giehae Choi

Polybrominated diphenyl ethers and incident pregnancy loss: The LIFE Study

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Melissa Smarr, Dr. Yu-Bo Wang, Dr. Germaine, Louis, Dr. Rajeshwari Sundaram

PM-060. Sarah Clifford

The Role of the Necroptotic Pathway in Niemann - Pick Disease, Type C1

Washington and Lee University (Virginia)

Preceptor: Dr. Antony Cougnoux

PM-061. Patrick Coyle

Modeling Adolescent Drinking Risk: Joint Maximum Likelihood Estimation with Peer Network

Influence and Informative Cluster Size

Temple University (Pennsylvania)

Preceptor: Dr. Danping Liu

PM-062. Elizabeth Dent, Mira Stone

Food Insecurity, Socioeconomic Status, Race, and Energy Consumed at In-Laboratory Buffet Meals.

James Madison University (Virginia), Walter Johnson High School (Maryland)

Preceptor: Dr. Jack Yanovski

PM-063. Sarah Donnelly

Identifying Novel and Early Risk Factors of Liver Dysfunction: A Prospective Study of Diabetes in Pregnancy and Liver Function 9 to 15 years Postpartum

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Cuilin Zhang, Dr. Stefanie Hinkle

PM-064. Samantha Edgar

Exploring the Role of GPR101 Loss of Function in Individuals with Short Stature
AIM High school (Washington)
Preceptor: Dr. Andrea Gutierrez-Maria

PM-065. Olufisola Famuyiwa

De Novo Lipogenesis in Adipose Tissue of Mice with Obesity due to Hypoactivity of MC3R
Our Lady of Good Counsel High School (Maryland)
Preceptors: Dr. Jack Yanovski, Dr. Joo Yun Jun, Dr. Tusharkumar, Patel, Ms. Robin Roberson

PM-066. Moronkeji Fapohunda

The Influence of Racial Bias on Inhibitory Control: A Go/No-Go Study using Functional Near-Infrared Spectroscopy
(Maryland)
Preceptors: Dr. Amir Gandjbakhche, Ms. Rachel Zaragoza, Ms. Fatima Chowdhry

PM-067. Mia Faulkner

Role of a Germline Defect in Disrupting Cell Cycle Control in the Pathogenesis of Pediatric Cushing's Disease
Walt Whitman High School (Maryland)
Preceptors: Dr. Laura Hernandez-Ramirez, Dr. Giampaolo Trivellin

PM-068. Ellen Francis

Longitudinal Associations of Vitamin D Status During Pregnancy and Neonate Anthropometric Measures
Clemson University (South Carolina)
Preceptors: Dr. Cuilin Zhang, Dr. Stefanie Hinkle

PM-069. Megan Gaines

Association of Decision Making with Adiposity and Energy Intake during a Laboratory Test Meal in Children and Adolescents
University of Maryland, College Park (Maryland)
Preceptor: Dr. Jack Yanovski

PM-070. Carmen-María García

Deletion of a putative synaptogenic protein using the CRISPR-Cas9 methodology
Florida Atlantic University (Florida)
Preceptor: Dr. Mihaela Serpe

PM-071. Monil Ghodasra

Quantifying Sarcomeric Discontinuities in Mouse Muscle
University of Maryland, College Park (Maryland)
Preceptors: Dr. Brad Busse, Dr. Paul Blank, Dr. John, Heuser, Dr. Joshua Zimmerberg

PM-072. Roy Ghosh

Unusual Tubulin Isozyme Expression in Cultured Cells and Tissues
Parkland High School (Pennsylvania)
Preceptor: Dr. Dan Sackett

PM-073. Ashley Greenlee, Rebecca Clem

An RNAi screen to identify new regulators of the GATOR complex
Virginia Commonwealth University (Virginia), Winston Churchill High School (Maryland)
Preceptors: Dr. Mary Lilly, Mr. Kuikwon Kim

PM-074. Rahul Gupta

Elucidating the Link between Signaling Factors and Morphogenesis in the Zebrafish Lateral Line Primordium
Sidwell Friends School (District of Columbia)
Preceptors: Dr. Uma Neelathi, Dr. Ajay Chitnis

PM-075. Kevin Hackbarth

A Mouse Model for Investigating the Interplay of Irf8 and Treg1
Tufts University (Massachusetts)
Preceptors: Dr. Tiyun Wu, Dr. Keiko Ozato

PM-076. Chloe Ham

Effects of environmental stress on retrotransposition in fission yeast
Northern Virginia Community College (Virginia)
Preceptors: Dr. Henry Levin, Mr. Michael Lee, Dr. Caroline Esnault

PM-077. Kimberly Hochstedler

Gestational age at birth and early childhood development: The Upstate KIDS Study
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Edwina Yeung

PM-078. Ashley Jackson

Understanding the role of Prkar2a in liver with the Alb-cre/LoxP Prkar2a mouse
Morgan State University (Maryland)
Preceptors: Dr. Edra London, Dr. Constantine A. Stratakis

PM-079. Ashwin Kalidas

Consequence of Armc5 haplo-insufficiency on Sirt1 function in adrenal tissue
Vandegrift High School (Texas)
Preceptors: Dr. Annabel Berthon, Dr. Constantine Stratakis

PM-080. Anish Karpurapu, Jacob Wagner

QRICH1: A Syndrome of Short Stature, Developmental Delay, and Dysmorphic Facies

Thomas Jefferson High School for Science and Technology (Virginia), Winston Churchill High School (Maryland)

Preceptors: Dr. Jeffrey Baron, Dr. Julian Lui, Dr. Youn Hee Jee

PM-081. Alex Kim

Feature Extraction by an Olfactory System

University of Chicago (Illinois)

Preceptors: Dr. Zane Aldworth, Dr. Mark Stopfer

PM-082. Adrian Lin

The Melanocortin 3 Receptor C17A + G241A Haplotype in Adults: Characterizing the Inflammatory Phenotype

Yale University (Connecticut)

Preceptors: Dr. Jack Yanovski, Dr. Andrew Demidowich, Mr. Viraj Parikh

PM-083. Vincent Ma

Thyroid Hormone Regulation on SKI during frog intestinal metamorphosis.

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Liezhen Fu, Dr. Yun-Bo Shi

PM-084. Stacey Maldonado Ortez

C-terminal deletion of rna14 and msi2 in fission yeast

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

Preceptors: Ms. Oluwadamilola Bankole, Dr. Henry Levin

PM-085. Kate McDaniel

Analysis of neuronal cell biology of the neuregulin sheddases ADAM10 and ADAM17

University of Virginia (Virginia)

Preceptors: Dr. Detlef Vullhorst, Dr. Andres Buonanno

PM-086. Jacob Miller

Sexual Orientation Disparities in Weight-Related Behaviors in a Nationally Representative Sample of US Adolescents

Colorado College (Colorado)

Preceptors: Dr. Jeremy Luk, Dr. Stephen Gilman

PM-087. Oliver Nguyen

Recruitment of Smooth Muscle Cells to Arteries

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Brant Weinstein, Dr. Amber Stratman

PM-088. Tuyet Nguyen

Optimization of CUBIC Clearing Protocol for Whole Mount Adult Transgenic Zebrafish

University of Maryland, College Park (Maryland)

Preceptors: Dr. Marina Venero Galanternik, Dr. Brant M. Weinstein, Mr. Daniel Castranova

PM-089. Christina Nichols

Plasma phospholipid fatty acids in association with premenstrual syndrome and symptoms

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Sunni Mumford, Dr. Keewan Kim, Mr. Dan Kuhr

PM-090. Charles Omoregbee

Prefrontal cortex activation patterns during facial recognition task: A study of functional Near Infrared Spectroscopy

Charles Herbert Flowers High School (Maryland)

Preceptors: Dr. Amir Gandjbakhche, Dr. Fatima Chowdhry, Mr. Riley, Kermanian, Ms. Emma Condy

PM-091. Nancy Ortega

Effects of Gulf War Neurotoxicants on Oligodendrocytes

University of San Francisco (California)

Preceptors: Dr. R. Douglas Fields, Dr. Dipankar Dutta

PM-092. Anna Osofsky

Segmenting Muscle MRI Data

Charles E Smith Jewish Day School (Maryland)

Preceptors: Dr. Jack Yao, Dr. Brad Busse, Dr. Paul, Blank, Dr. Joshua Zimmerberg

PM-093. Linh Pham

Creation of a nanoLuciferase Reporter System for tRNA Biogenesis in S. pombe

Humboldt State University (California)

Preceptors: Ms. Shaina Hasan, Dr. Abdul Khalique, Dr. Richard Maraia

PM-094. Shyneice Porter

Gross, Fine, or Both? Understanding Motor Skills Required for Children's Play

University of Maryland, College Park (Maryland)

Preceptors: Dr. Melissa Richards, Dr. Marc Bornstein, Dr. Diane Putnick

PM-095. Leana Ramos

Investigating the interaction between the AcrZ small protein and the AcrAB-TolC multidrug efflux pump

St. Thomas University (Florida)

Preceptors: Dr. Gisela Storz, Dr. Mona Wu Orr

PM-096. Kushi Ranganath

Pilot Study of Mobile Attention Training in Overweight Female Adolescents

Johns Hopkins University (Maryland)
Preceptor: Dr. Jack Yanovski

PM-097. Akhil Rekulapelli

The Discovery and Analysis of Unexpected Sensitivities to Anti-Mitotic Drugs in Fibrous Yeast
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptor: Dr. Dan Sackett

PM-098. Connor Richards

Synthesis of Fluorescent Epothilone
Red Cloud High School (South Dakota)
Preceptor: Dr. Dan Sackett

PM-099. Kathia Rodarte

Structural Effects that Different Microtubule-Targeting Agents Have on Mitotic Spindle Formation
University of Texas at El Paso (Texas)
Preceptor: Dr. Dan Sackett

PM-100. Angelo San Pablo

Ulipristal Acetate & Its Effects on Fibroid Development
Stony Brook University (New York)
Preceptors: Dr. Terrence Lewis, Dr. William Catherino, Dr. Alan DeCherney

PM-101. Arjun Sethi-Olowin

The Effects of Szechuan Pepper Extract on the Motility of Three Day Old Zebrafish
Sidwell Friends School (District of Columbia)
Preceptors: Dr. Ajay Chitnis, Dr. Greg Palardy, Dr. Eric Horstick

PM-102. Malcolm Smith Fraser

Investigating the Role of N-Linked Glycosylation in Niemann-Pick disease Type C1 Fibroblasts
California Polytechnic State University - San Luis Obispo (California)
Preceptors: Ms. Caitlin Sojka, Dr. Niamh Cawley, Dr. Forbes Porter

PM-103. Nicholas Sun

Two-Sample Comparison of Semicontinuous Outcomes with Application to a Dietary Intervention Study
Columbia University Mailman School of Public Health (New York)
Preceptors: Dr. Aiyi Liu, Dr. Wei Zhang

PM-104. Roxana Taginya

Array Tomography of Human Subcutaneous Adipose Tissue
University of Michigan - Ann Arbor (Michigan)

Preceptors: Dr. Ludmila Bezrukov, Dr. Brad Busse, Dr. Paul, Blank, Dr. Josh Zimmerberg

PM-105. Andrew Tong

Transcriptional activation of Xenopus tropicalis SPAG7 expression by thyroid hormone is mediated by a DNA element in the first intron.

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Liezhen Fu, Dr. Yunbo Shi

PM-106. Ninaz Valisharifabad

H19 Encoded miR675 Contributes to H19 Functioning

Irvine Valley College (California)

Preceptors: Dr. Karl Pfeifer, Dr. Beenish Dhar

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

PM-107. Sooraj Achar

Investigating the role of individual KH domains in interactions between PCBP1 and BoIA2

University of Virginia (Virginia)

Preceptors: Dr. Sarju Patel, Dr. Caroline Philpott

PM-108. Mark Ellie Alonzo

The effect of a FMR1 premutation allele on the transcriptome of mouse embryonic stem cells (mESCs)

California State Polytechnic University, Pomona (California)

Preceptors: Dr. Inbal Gazy, Dr. Karen Usdin

PM-109. Christina Ashby

Structural study of the SLERT long non-coding RNA

Pace University (New York)

Preceptors: Dr. Shuang Li, Dr. Jinwei Zhang

PM-110. Razan Bakarman

Study the Function of

O-GlcNAcylation on OTX2

Catholic University of America (District of Columbia)

Preceptors: Dr. Stephanie Olivier-Van Stichelen, Dr. John Hanover

PM-111. Joon Bang

Analysis of Short-Read Alignment Behaviors

Poolesville High School (Maryland)

Preceptor: Dr. Weiping Chen

PM-112. Rosie Bauer

Modeling cardiac arrhythmias in C. elegans

Lawrence University (Wisconsin)

Preceptor: Dr. Andy Golden

PM-113. Caroline Broadwell

Evaluation of non-invasive biomarkers in identifying liver disease in patients with lipodystrophy

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Christopher Koh

PM-114. Jonathan Chang

Characterization of Translation Activity during the Mouse Maternal-to-Zygotic Transition

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Di Wu, Dr. Jurrien Dean

PM-115. Rohit Chari

Comparison of Candidate Biomarkers from Urine Exosomes to Diagnose and Predict the Severity of Acute Kidney Injury in Mice

Poolesville High School (Maryland)

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

PM-116. Phil Chen

A New Model for Evaluating Oral Glucose Tolerance Tests

University High School (California)

Preceptors: Dr. Arthur Sherman, Dr. Joon Ha

PM-117. Rebecca Chernick

Thyrocytes from Graves' Disease Patients Exhibit TSHR-Specific Deficits in cAMP-based signaling

Brown University (Rhode Island)

Preceptors: Dr. Sarah Morgan, Dr. Marvin Gershengorn

PM-118. Steffen Cornwell

Generative model for single-cell RNA-seq data

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Vipul Periwal

PM-119. Silvano Daniels

Expressing a dominant-negative retinoic acid receptor selectively in glomerular podocytes in transgenic mice to test the role of retinoic acid in protecting against kidney disease

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Jeffrey Kopp, Dr. Jurgen Heymann

PM-120. Anita Danthi

Detection of atherosclerotic plaques using alphavbeta3 integrin targeting probe in hyperlipidemic Watanabe rabbits

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Ahmed Gharib

PM-121. Thomas Davis

Calcium Mediated Enhancement of Chemotaxis and Chemotactic Biochemical Response

University of Connecticut (Connecticut)

Preceptors: Dr. Netra Meena, Dr. Alan Kimmel

PM-122. Meena Deshpande

Application of Split-GFP Technology for Screening of Drugs Against R7bp, the Master Regulator of the Sensation of Itch

Hinsdale South High School (Illinois)

Preceptors: Dr. Jianhua Zhang, Dr. William Simonds

PM-123. Molly Ding

Erythropoietin regulation of high fat diet induced inflammation in mouse hypothalamus

Walt Whitman High School (Maryland)

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

PM-124. Yize Dong

A Pathway Analysis on the Effects of Erythropoietin and Erythropoietin Receptor Signaling on Mice Hypothalamus

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Constance Noguchi, Dr. Shoumo Dey, Dr. Sukanya Suresh

PM-125. Jazmin Escamilla

Modulation of autophagy by HCV entry inhibitor aryl oxazole

Berea College (Kentucky)

Preceptors: Dr. Zongyi Hu, Dr. Jake Liang

PM-126. Paola Escobales Cabrera

Influences of PCBP1, an Iron Chaperone, in Cholesterol Biosynthesis Genes in the Liver

Universidad de Puerto Rico - Recinto de Bayamón (Puerto Rico)

Preceptors: Dr. Caroline Philpott, Dr. Shyamalagauri Jadhav

PM-127. Steven Fang

SNPrimer: A primer design software for SNP genotyping in agriculture, medicine and forensics

Poolesville Highschool (Maryland)

Preceptor: Dr. Weiping Chen

PM-128. Yaeli Fink

Physiological Responses and Adaptation of Brown Adipose Tissue to Chronic Treatment with the β 3-Adrenergic Receptor Agonist Mirabegron

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Aaron Cypess, Dr. Kong Chen

PM-129. Rebecca Freeman, David Wu

Investigating the Role of PPAR γ in Adipocyte Function Using an Inducible Knockout System

Middlebury College (Vermont), Walter Johnson High School (Maryland)

Preceptors: Dr. Younghoon Jang, Mr. Eugene Froimchuk, Dr. Kai Ge

PM-130. Swata Gade

Comparison of Monomer Conformations of Amyloid Beta Mutants using Single Molecule FRET Spectroscopy

Mission San Jose High School (California)

Preceptors: Dr. Hoi Sung Chung, Dr. Fanjie Meng

PM-131. Alison Gaynor

Role of hypothalamic TGF β signaling pathway in metabolic function

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ioannis Papazoglou, Dr. Sushil Rane

PM-132. Allondra Gonzalez

Role of protein quality control factors in disruption of [URE3] prion propagation by mutations outside of Ure2 amyloid-forming region

San Diego Mesa College (California)

Preceptor: Dr. Dan Madison

PM-133. Matthew Guo

Characterizing Galectin-3 Secretion through the Misfolding-Associated Protein Secretion Pathway

Cornell University (New York)

Preceptors: Dr. Yihong Ye, Dr. Yue Xu

PM-134. Emily Hernandez-Avila

Mechanisms of APOL1-induced nephropathy in in vitro and CAG-APOL1-B3 mouse model of FSGS

Cornell University (New York)

Preceptors: Dr. Hila Roshanravan, Dr. Jeffrey Kopp

PM-135. Jada Hislop

Changes in Artificial Sweetener Intake in Participants of Natural History Study of Obesity

University of Southern California (California)

Preceptor: Dr. Kristina Rother

PM-136. Vienna Huso

The Maternal-effect Gene Mater regulates exocytosis through Myosin IIA in mouse eggs.

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Jurrien Dean, Dr. Edgar Vogt

PM-137. Alexander Jordan

Functional characteristic of the CTRB1/2 locus to identify variants that are protective for type 2 diabetes

Bethune-Cookman University (Florida)

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

PM-138. Samuel Juarez-Solis

Precision of Caloric Estimates Given to Research Volunteers

University of Washington, Seattle (Washington)

Preceptors: Dr. Susanne Votruba, Dr. Marci Gluck

PM-139. Jeewoo Kim

Classifying Cognitive Performance with Deep Learning

University of Virginia (Virginia)

Preceptors: Dr. Carson Chow, Dr. Shashaank Vattikuti

PM-140. Katherine Kim

Regional Differences in Brown Adipose Tissue Activation Between Cohorts of Lean Men, Lean Women, and Obese Men

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kong Chen, Dr. Robert Brychta, Dr. Aaron Cypess

PM-141. Shwetha Kunnam

Reproducibility of Oral Glucose Tolerance Test parameters in adolescent girls at risk for type 2 diabetes

Montgomery Blair High School (Maryland)

Preceptors: Dr. Stephanie Chung, Mr. Anthony Onuzuruike

PM-142. Allan Lee, Kosuke Suzuki

Effect of APOL1 Renal Risk Variants on Podocyte Mitochondrial Function In Vitro

Winston Churchill High School (Maryland), Tohoku University (Non-U.S.)

Preceptors: Dr. Jeffrey Kopp, Dr. Shashi Shrivastav, Dr. Koji Okamoto

PM-143. Jaehyun Lee

Analysis of Protein Residues Important for Response Regulator Function in Vibrio cholera and Bordetella pertussis

Carnegie Mellon University (Pennsylvania)

Preceptors: Ms. Meng-Lun Hsieh, Dr. Kyung Moon, Dr. Deborah, Hinton, Mr. David Kim

PM-144. Allison Lemmer

Studying Lipid Metabolic Pathways in Polycystic Kidney Disease Models
Johns Hopkins University (Maryland)

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

PM-145. David Lieberman

Molecular Modeling Investigation of Agonist Binding at the Human Adenosine A3 Receptor
Bethesda-Chevy Chase High School (Maryland)

Preceptors: Dr. Antonella Ciancetta, Dr. Kenneth Jacobson, Dr. Nicholas Restifo

PM-146. Andrew Liu

Development of A Novel Hepatitis B Virus Infection Reporter System
University of Maryland, College Park (Maryland)

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

PM-147. Jackie Liu

Structural Analysis of the Dumbbell Region of Flavivirus Genomic RNA
Urbana High School (Maryland)

Preceptors: Dr. Jinwei Zhang, Dr. Shuang Li

PM-148. Sangavi Manickavel

Where Synapsis Begins on Meiotic Mice Chromosomes
Poolesville High School (Maryland)

Preceptors: Dr. Florencia Pratto, Dr. Daniel Camerini-Otero

PM-149. Matthew Martin

The N-Terminus of Human S-OPA1 Allows for Homotypic Dimerization
Northwood High School (Maryland)

Preceptors: Dr. Andrew Kehr, Dr. Jenny Hinshaw

PM-150. Esther Meisler

Characterizing the Aberrant Expression of Maelstrom
Bais Yaakov High School (Maryland)

Preceptors: Dr. Pavol Genzor, Mr. Sushil Sobti, Dr. Astrid Haase

PM-151. Hermela Mengesha

Opensource Physical Activity Monitoring Device
Montgomery Blair High School (Maryland)

Preceptors: Dr. Alexxai Kravitz, Mr. Mohamed Ali

PM-152. Nadia Miranda

The role of TGF β in brown/beige adipocytes
California State University San Marcos (California)
Preceptors: Dr. Yanling Wang, Dr. Sushil Rane

PM-153. Reed Mszar

Impaired Beta Cell Responsivity in Insulin Resistant, Non-Diabetic South Asians
Bates College (Maine)
Preceptor: Dr. Ranganath Muniyappa

PM-154. Nicholas Munyan

*Comets, Cancer and C:
Evaluating the Role of DNA Damage Induced by Pharmacologic Ascorbic Acid*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Pierre-Christian Violet, Dr. Mark Levine

PM-155. Ericka Nevarez Munoz

Erythropoiesis is regulated by nitric oxide pathway
Fort Hays State University (Kansas)
Preceptors: Dr. Shoumo Dey, Dr. Constance Tom Noguchi

PM-156. Tasha Nez

Identification of Genetic Variants that Influence Human Body Weight with Altered Population Based Frequency Due to Adaptation to Environment
Northern Arizona University College of Engineering, Forestry and Natural Sciences (Arizona)
Preceptors: Dr. Leslie Baier, Dr. Pankaj Kumar, Mr. Darin Mahkee

PM-157. Chi Nguyen

TGF-beta signalling effect on key thermogenic gene expression in preadipocyte cell lines
Colgate University (New York)
Preceptors: Dr. Young Jae Bahn, Dr. Sushil Rane

PM-158. Claythia Nicholas

The Expression and Function of the MCT8 Thyroid Hormone Transporter in the Eye
Medgar Evers College (New York)
Preceptors: Dr. Ye Liu, Dr. Lily Ng, Dr. Douglas Forrest

PM-159. Ujuonu Nwizu

*Postprandial Insulin and Incretin Responses in Premenopausal and Postmenopausal Women:
The Federal Women Study*
Cornell University (New York)
Preceptors: Dr. Stephanie Chung, Dr. Anne Sumner

PM-160. Kavya Parekh

Canalization: The Impact of Environmental Fluctuations on Stability and Evolution

Thomas Jefferson High School for Science & Technology (Virginia)

Preceptor: Dr. Vipul Periwal

PM-161. Benjamin Paskoff

Mapping methylation of the Fmr1 promoter in a mouse model of Fragile X Syndrome

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Xiaonan Zhao, Dr. Karen Usdin

PM-162. Siona Prasad

Expression of EpoR and Glut4 in White Adipose Tissue of delta EpoR Mice

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Ms. Heather Rogers, Dr. Constance Noguchi

PM-163. Ethan Pritikin

Gsa in MC4R Expressing Neurons is Essential for the Regulation of Energy Homeostasis

University of Chicago (Illinois)

Preceptors: Mr. Eric Wilson, Dr. Lee S. Weinstein, Dr. Min Chen

PM-164. Priscila Rubio

Molecular Dynamics Investigation of Human Adenosine A3 Receptor Activation Mechanisms

Montgomery College (Maryland)

Preceptors: Dr. Antonella Ciancetta, Dr. Kenneth Jacobson

PM-165. John Ryan

Assessing Microcirculation with Laser Doppler Flowmetry

University of Virginia (Washington)

Preceptors: Mr. Brooks Leitner, Dr. Kong Chen, Dr. Robert Brychta, Dr. Ranganath Muniyappa

PM-166. Alexander Sabol

Dynamic Control of Food Intake During Intruder Challenge

Emory University (Georgia)

Preceptors: Dr. Michael Krashes, Dr. Chia Li, Mr. CJ Burnett

PM-167. Lisa Scheuing

Differences in Immune Activation Markers in the Splenic Vein, Portal Vein and Periphery of Treated Chronic Hepatitis C Patients

Georgetown University School of Medicine (District of Columbia)

Preceptor: Dr. Theo Heller

PM-168. Corbin Schuster

Impact of Varying Fat Source and Fat Concentration on Reduced Chow Consumption Following Short Access to High Fat Diet

Heritage University (Washington)

Preceptors: Dr. Wambura Fobbs, Dr. Alexxai Kravitz

PM-169. Hina Shah

A pharmacologic screen for epigenetic regulators of adult hemoglobin activation in differentiating mouse erythroleukemia cells

Cornell University (New York)

Preceptors: Dr. Ann Dean, Dr. Benjamin Leadem

PM-170. Sooah Sohn

Characterization of Mouse Osteoblasts with Targeted Deletion of the Erythropoietin Receptor

Richard Montgomery High School (Maryland)

Preceptors: Dr. Sukanya Suresh, Dr. Constance Noguchi

PM-171. Cody Stein

Natural Product Analogs of Blastocidin S as Broad Spectrum Antibiotics

University of Colorado, Colorado Springs (Colorado)

Preceptors: Dr. Sivakoteswara rao Mandadapu, Dr. Gengxiang Zhao, Dr. Carole Bewley

PM-172. Jaena Taitague

The Role of Brd4 in Adipogenesis

University of Guam (Guam)

Preceptors: Dr. Ji-Eun Lee, Dr. Kai Ge

PM-173. Lionelle Tchanga Betnji

Understanding the physiological function of FES1 in Saccharomyces cerevisiae beyond the nucleotide exchange factor for Hsp70.

Springbrook High School (Maryland)

Preceptors: Dr. Shailesh Kumar, Dr. Daniel Masison

PM-174. Rujia Teng

Induction of nNOS expression with C2C12 myoblast differentiation

Vanderbilt University (Tennessee)

Preceptors: Dr. Alan Schechter, Dr. Connie Noguchi, Dr. Barbora Pikhova

PM-175. Parisa Thepmankorn

Determining the Time Window of Histone Exchange in the C.elegans Germline

Brown University (Rhode Island)

Preceptors: Dr. Simona Rosu, Dr. Orna Cohen-Fix

PM-176. Parisorn Thepmankorn

Editing Centriole Duplication Genes in Caenorhabditis elegans using CRISPR/Cas9

College of New Jersey (New Jersey)

Preceptors: Dr. Jyoti Iyer, Dr. Kevin O'Connell

PM-177. Manaswitha Thota

Isolation and Characterization of suppressors of sei1pex30 double mutant

College of William and Mary (Virginia)

Preceptors: Dr. Amit Joshi, Dr. William Prinz

PM-178. Wesley Tung

Role of beta arrestins in regulation of beta adrenergic receptor signaling in adipocytes

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Sai Pydi, Dr. Jurgen Wess

PM-179. Rachel Vanjoske

Examining the effect of O-GlcNAc in Mixed Lineage Leukemia 1 (MLL1) in leukemia cell lines

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ilhan Akan, Dr. John Hanover

PM-180. Jacob Vieira

Improved Visualization and Scalability of R ChIP-seq Quality Control Analysis

University of Massachusetts Amherst (Massachusetts)

Preceptors: Dr. Ryan Dale, Dr. Elissa Lei

PM-181. Edward Will

Synthesis of Allosteric Enhancers of the A1 Adenosine Receptor

Imperial College London (Non-U.S.)

Preceptors: Dr. Kenneth Jacobson, Dr. Rama Ravi

PM-182. Christopher Yin

PNA-based Microfluidic Chip for Isothermal Detection of HIV

University of California, San Diego (California)

Preceptors: Dr. Kaylyn Oshaben, Dr. Daniel Appella, Dr. Nicole, Morgan, Mr. Tom Pohida

PM-183. Derek Zhang

Exploring Long Noncoding RNA Function in GATA2 Gene Expression

University of Maryland, College Park (Maryland)

Preceptors: Dr. Guoyou Liu, Dr. Ann Dean

National Institute of Environmental Health Sciences (NIEHS)

PM-184. Ryan Booth

Profiling the Expression of Progesterone Receptor and Serum Response Factor Pathway Members in Female Reproductive Tract

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Steve Wu, Dr. Xiaqui Wang, Dr. Francesco DeMayo

PM-185. Meghan Chung

Temporal and spatial expression pattern of the EZH2 gene in murine uteri during early pregnancy

Wake Technical Community College (North Carolina)

Preceptors: Dr. Xiaoqiu Wang, Dr. Francesco DeMayo

PM-186. Danielle Duarte

The Effects of Environmental Exposure on the Clinical Phenotype of Idiopathic Inflammatory Myopathies

University of New Mexico (New Mexico)

Preceptors: Dr. Frederick Miller, Dr. Adam Schiffenbauer

PM-187. Lily Ivanov

Sulfite Induced Protein Radical Formation in LPS Challenged Mice: Implication of Protein Radicals in Asthma

Athens Drive High School (North Carolina)

Preceptors: Dr. Ashutosh Kumar, Dr. Ronald Mason

PM-188. Harini Salgado

Whole exome sequencing analysis in 35 patients with juvenile dermatomyositis

Pomona College (California)

Preceptors: Dr. Adriana Almeida de Jesus, Dr. Lisa Rider, Dr. Raphaela Goldbach-Mansky

PM-189. Arnav Subramanya

Biologically-based Bayesian Networks and Application to Chemical Carcinogenesis

University of North Carolina in Chapel Hill (North Carolina)

Preceptor: Dr. Nicole Kleinstreuer

National Institute of Mental Health (NIMH)

PM-190. Thomas Brettschneider

Visualizing Neural Activity in CA2 using GCaMP and Cre Recombinase

Michigan State University (Michigan)

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

PM-191. James Brown

Stimulus Properties Effect Population Receptive Responses Measured using fMRI

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Chris Baker, Dr. Elisha Merriam

PM-192. Justin Buck

Optimization of Histological Methods to Examine Neuromodulatory Projections of the Mouse Brain

University of Maryland, College Park (Maryland)

Preceptor: Dr. Kuan Wang

PM-193. Aviva Caplan

Correlation Between Behavioral Tests of Face/Object Memory and Resting State FMRI Results in Healthy Individuals May Reveal New Thoughts on Prosopagnosia

Community College of Baltimore County (Maryland)

Preceptors: Dr. Michal Ramot, Ms. Catherine Walsh, Dr. Alex Martin

PM-194. Yeshwant Chillakuru

Evaluation of a novel PET radioligand for imaging O-linked-N-acetyl-glucosamine hydrolase (O-GlcNAcase), an enzyme involved in clearance of tau protein from brain

George Washington University (District of Columbia)

Preceptors: Dr. Robert Innis, Dr. Jeh-San Liow, Dr. Soumen Paul

PM-195. Elizabeth Choi

Validation of RNA-Sequencing using Quantitative Real-Time Polymerase Chain Reaction

Dartmouth College (New Hampshire)

Preceptors: Dr. Barbara Lipska, Dr. Ningping Feng, Mr. Robin, Kramer, Ms. Qing Xu

PM-196. Eunice Chung

An analysis of magnetoencephalography and electroconvulsive therapy data

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sarah Lisanby, Dr. Zhi-De Deng

PM-197. Anna Cook

Does Rapamycin Rescue Audiogenic Seizures in Fragile X Mice?

University of South Carolina (South Carolina)

Preceptors: Dr. R. Michelle Saré, Dr. Carolyn Beebe Smith

PM-198. Karis Courey

Optogenetic Stimulation of Vasopressin Neurons

University of Akron (Ohio)

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

PM-199. Riley Davies

Developing PET Imaging Agents to Measure NR2B within NMDA Complexes

Oberlin College (Ohio)

Preceptors: Dr. Lisheng Cai, Dr. Victor Pike

PM-200. Jackie De Melo

Characterization of the efferent projections of phosphodiesterase 1B (PDE1B)-expressing neurons of the paraventricular nucleus of the thalamus using genetically encoded anterograde tracing

Rockville High School (Maryland)

Preceptors: Dr. Mario Penzo, Mr. Omar Koita

PM-201. Rachel Dick, Pradith Santapur

Chemogenetic Manipulation of the Dorsal and Ventral Hippocampus in Spatial Memory

University of Virginia (Virginia), Chantilly High School (Virginia)

Preceptors: Mr. Mike Leventhal, Dr. Gloria Laryea, Dr. Yogita Chudasama

PM-202. Victoria Flagg

Patterns of Motor Activity in Humans and Monkeys

Brown University (Rhode Island)

Preceptors: Dr. Kathleen Merikangas, Dr. Judy Cameron, Dr. Haochang Shou

PM-203. Winni Gao

Potentiation of the Medial Amygdala Circuit Induces Sustained Aggression

Cornell University (New York)

Preceptors: Dr. Zheng Li, Dr. Jacob Nordman

PM-204. Alshaday Gudina

Pathway analysis: comparing different approaches using PGC-ADHD (psychiatric genetic consortium - attention-deficit/hyperactivity disorder)

University of Virginia (Virginia)

Preceptors: Dr. Yin Yao, Dr. Sun Kang, Dr. Wei Guo

PM-205. Sarina Hanfling

Marmoset training: object identification and fixation

Tufts University (Massachusetts)

Preceptors: Dr. Jim Pickel, Ms. Sindhura Kolachana

PM-206. Hannah Hatchell

Complement 4 Haplotyping and Structural Variant Detection within the MHC Region in 445 Brain Whole Genome Sequencing Samples

Georgia Institute of Technology (Georgia)

Preceptors: Mr. Robin Kramer, Dr. Barbara Lipska

PM-207. Chris Higham

Environmental Enrichment as a Prophylactic Against Stress-Induced Neuroinflammation

Colgate University (New York)

Preceptors: Dr. Michael Lehmann, Dr. Miles Herkenham

PM-208. Oliver Hightower

Targeting a FRET Sensor to Monitor CaMKII Activation

Montgomery College (Maryland)

Preceptors: Dr. Susan Amara, Dr. Suzanne Underhill, Ms. Carla Glasser

PM-209. Erika Hinkle

Body Composition in Sex Chromosome Aneuploidies

University of Maryland, College Park (Maryland)

Preceptors: Mrs. Erin Torres, Dr. Armin Raznahan, Dr. Liv, Clasen, Mr. Jonathan Blumenthal

PM-210. Cherella Hughes

Investigating the Potential Link between Inflammation in the Brain and Suicidal Ideation

Fort Lewis College (Colorado)

Preceptors: Dr. Elizabeth Ballard, Dr. Erica Richards, Dr. Carlos Zarate

PM-211. Arman Yashar Khojandi

Assessing the test-retest reliability of resting state fMRI data using metrics from CONN

Functional Connectivity Toolbox

George Mason University (Virginia)

Preceptor: Dr. Karen Berman

PM-212. Margaret Lin

Sex Differences in Motor Activity

Montgomery Blair High School (Maryland)

Preceptors: Dr. Kathleen Merikangas, Mrs. Lihong Cui

PM-213. Saivardhan Mada

Genome Wide Association Study of Antidepressant Efficacy on Major Depressive Disorder using Random Forest Classification Algorithm

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Yin Yao, Dr. Wei Guo

PM-214. Nino Migineishvili

Parsimony and Machine Learning in Neuroimaging

University of California, Los Angeles (California)

Preceptors: Dr. John Rogers-Lee, Dr. Dylan Nielson, Dr. Peter, Bandettini, Dr. Adam Thomas

PM-215. Reem Mohamed

Cognitive Functioning and Adaptive Behavior Based on Seizure History in Pediatric Undiagnosed Disease Program Patients

George Washington University (District of Columbia)

Preceptors: Dr. Audrey Thurm, Dr. Cristan Farmer

PM-216. Darrah Morrison

Using High Throughput Sequencing to Understand the Effects of Steroid Hormones on Human Neuronal (Luhmes) Cell Line

Catholic University of America (District of Columbia)

Preceptors: Dr. Peter Schmidt, Ms. Allison Goff, Ms. Sarah Rudzinkas

PM-217. Michelle Noh

The effect of transcranial magnetic stimulation coil orientation on noise in resting state electroencephalogram recordings

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Sarah Lisanby, Dr. Thomas Radman

PM-218. Christine Oh

Expression of noradrenergic receptors in cortical GABAergic neurons

University of Virginia (Virginia)

Preceptor: Dr. Soohyun Lee

PM-219. Duy Phan

Understanding the architecture of the central pacemaker in the mammalian hypothalamus

Johns Hopkins University (Maryland)

Preceptor: Dr. Samer Hattar

PM-220. Rhea Rakheja

Exploring the Relation between Time-of-Day and Performance in Cognitive Tasks

Poolesville High School (Maryland)

Preceptors: Dr. Chris Baker, Dr. Cibu Thomas, Dr. Wilma Bainbridge

PM-221. Victoria Rooke

Characterizing the Role of the Paraventricular Nucleus of the Thalamus in Mediation of Homeostatic Feeding

Walter Johnson High School (Maryland)

Preceptors: Dr. Mario Penzo, Dr. Sofia Beas

PM-222. Nikhil Sahni

Unlocking the Brain

Wheaton High School (Maryland)

Preceptors: Dr. Mark Histed, Ms. Lauren Ryan, Mr. Samuel, Duffy, Ms. Caitlin Leedy

PM-223. Pradith Santapur, Rachel Dick

Chemogenetic Manipulation of Dorsal and Ventral Hippocampus in Spatial Memory

Chantilly High School (Virginia), University of Virginia (Virginia)

Preceptors: Ms. Madeleine Perkins, Dr. Johann du Hoffmann, Dr. Kevin, Cravedi, Dr. Yogita Chudasama

PM-224. Mina Senthil

The Newsletter: The Importance of Maintaining Communication with Study Participants and Relaying Complex Scientific Concepts in Simple, Understandable Language

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Dr. Francis McMahon, Ms. Emily Besancon, Ms. Lexie Wille

PM-225. Lindsey Shain

Comparing caregiver and child/adolescent self-report measures of the state trait anxiety inventory (STAI) in medically ill patients

Western Kentucky University (Kentucky)

Preceptors: Dr. Lori Wiener, Dr. Lisa Horowitz, Dr. Maryland Pao

PM-226. Susie Shin

Postnatal Development and Distribution of Cells in Psychiatric Disorders

Vanderbilt University (Tennessee)

Preceptors: Dr. Kuan Hong Wang, Dr. Wenyu Zhang

PM-227. Bezawit Sisay

Development of Marmoset Transfer Box

Towson University (Maryland)

Preceptor: Dr. Jim Pickel

PM-228. Madison Stevens

The role of the ventral striatum in appetitive and aversive reinforcement learning

Lake Shore Senior High (New York)

Preceptors: Mr. Craig Taswell, Dr. Bruno Averbeck

PM-229. Ginny Sun

Bioinformatics Analyses of the Adaptive Immune System in Depression

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Stacey Kigar, Dr. Miles Herkenham

PM-230. Zoe Tompkins

Angiotensin II Induces the Axonal Trafficking and Translation of Tyrosine Hydroxylase mRNA

Walt Whitman High School (Maryland)

Preceptors: Ms. Kiana Khosravian, Mr. Anthony Gioio, Dr. Armaz, Aschrafi, Dr. Barry Kaplan

PM-231. Caitlin Van Wicklin

Population Receptive Fields in the Visual Word Form Area are Tuned Ideally for Word Reading
Virginia Tech (Virginia)

Preceptors: Dr. Christopher Baker, Dr. Edward Silson

PM-232. Sameera Vedantam

Axonal Trafficking of Nuclear-Encoded Mitochondrial ATP Synthase mRNA
American Heritage School - Plantation (Florida)

Preceptors: Dr. Barry Kaplan, Dr. Armaz Aschrafi, Mr. Mark Colt

PM-233. Grace Wang

The influence of gonadal steroid hormones on maturation of forebrain dopaminergic anatomy
Meade Senior High School (Maryland)

Preceptors: Dr. Kuan Hong Wang, Mr. Matthew Coon, Mr. Justin Buck

PM-234. Alexander Wong

Machine Learning Applied to Brain Image Segmentation
University of California, San Diego (California)

Preceptor: Dr. Robert Cox

PM-235. Maxwell Wong

Acceleration of voxel searchlight regression models
University of California, Irvine (California)

Preceptor: Dr. Peter Bandettini

PM-236. Kevin Zhu

Gene Expression in Human Induced Pluripotent Stem Cells and their Neural Derivatives: Effects of Donor, Cell type, and Psychotropic Medications

Johns Hopkins University (Maryland)

Preceptors: Dr. Francis McMahon, Dr. Xueying Jiang

National Institute of Neurological Disorders and Stroke (NINDS)

PM-237. Nicholas Adamstein

Defining the Expression of Programmed Death Ligand 1 (PD-L1) in the High-Grade Glioma Microenvironment and its Clinical Implications

Columbia University College of Physicians and Surgeons (New York)

Preceptor: Dr. Edjah Nduom

PM-238. Adam Adelstein

How Tubulin Isoform Composition Influences Microtubule Dynamics

Georgetown Day School (District of Columbia)
Preceptors: Dr. Antonina Roll-Mecak, Ms. Annie Vemu

PM-239. Lydia Albjerg

Fludarabine-induced neurotoxicity
Pacific Northwest University of Health Sciences (Washington)
Preceptors: Dr. Omar Khan, Ms. Julie Albert

PM-240. Mary Alice Allnutt

Chromosomal Integration of Human Herpesvirus 6 (ciHHV6): Detection in Peripheral Blood Lymphocytes by Droplet Digital PCR
Elon University (North Carolina)
Preceptors: Mr. Major Lin, Dr. Steven Jacobson

PM-241. Claire Altany

Examining Connectivity using TMS-EEG
Yale University (Connecticut)
Preceptors: Dr. Eric Wassermann, Dr. Michael Freedberg, Mr. Jack Reeves

PM-242. Simon Arango Baquero

Testing Immunomodulatory Properties of TRAP-MS Clinical Trial Drugs on the Conversion of Astrocytes to a Neurotoxic Phenotype by Inflammatory Stimuli
Poolesville High School (Maryland)
Preceptors: Dr. Raturaj Masvekar, Mr. Joshua Milstein, Dr. Bibiana Bielekova

PM-243. Jefferson Ascencio

Visualization and Digital Recreation of Dopamine Neurons
Gonzaga College High School (District of Columbia)
Preceptors: Dr. Paul Kramer, Dr. Zayd Khaliq

PM-244. Jamal Bailey

Investigating the Viability of Electromagnetic Fields In Vitro for the Treatment of Glioblastoma
Prince George's Community College (Maryland)
Preceptor: Dr. John Heiss

PM-245. Valerie Bakly

Sonication Breaks the Postsynaptic Density into Subcomplexes
Mount Saint Mary's University (Maryland)
Preceptor: Dr. Ayse Dosemeci

PM-246. Marie Baranoski, Aleksandr Fuksenko

Crowd-Sourced System for Labeling of 3D Electron Microscopy Connectome Data: Code Optimization and System Enhancement

Georgia Institute of Technology (Georgia), University of Maryland, College Park (Maryland)
Preceptors: Mr. Srujan Ganta, Mr. Amarendra Yavatkar, Dr. Yang, Fann, Dr. Kevin Briggman

PM-247. Marjo Beltoja

Investigating the role of protrusion mediated cell-cell contact in Notch signaling

Brown University (Rhode Island)

Preceptors: Dr. Ginger Hunter, Dr. Edward Giniger

PM-248. Tzipporah Bergman

Characterization of the Expression of Novel Spinal Neuron Markers Discovered by Single Cell Sequencing

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Ariel Levine, Ms. Li Li

PM-249. Akrita Bhatnagar, Prashant Chittiboina

Enhanced 5-ALA Induced Fluorescence in Pituitary Adenomas

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

Preceptors: Dr. Prashant Chittiboina, Dr. Jie Lu

PM-250. Nechama Biberfeld

Immunofluorescence Microscopy to Assess Vesicular Storage in Catecholaminergic Neurons
Montgomery College (Maryland)

Preceptors: Dr. Risa Isonaka, Dr. Yunden Jinsmaa, Ms. Patricia, Sullivan, Dr. David Goldstein

PM-251. Stacey Bloom, Chidinma Opaigbeogu, Jasmine Akiko Garcia

Feeding into the Problem: Are Certain Formulated Diets Correlated to Overweight Rats?

University of Maryland, College Park (Maryland), From the Heart Christian School (Maryland),
University of California, San Diego (California)

Preceptors: Dr. LaTesa Hughes, Dr. James O'Malley

PM-252. Kayla Bohlke, Carlton Wicker, Jr.

Optimizing the immunohistochemistry protocol and analysis for correlative serial block-face electron microscopy

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

Preceptors: Ms. Kara Fulton, Dr. Kevin Briggman

PM-253. Kiki Bonetta-Misteli

Core Autophagy Genes are Differentially Required for Pexophagy

Walter Johnson High School (Maryland)

Preceptors: Dr. Chunxin Wang, Dr. Richard Youle

PM-254. Grace Cheung

Structural Study of AKAP and STEP Membrane Targeting to the Post-synaptic Membrane

Yale University (Connecticut)

Preceptors: Dr. Xiaobing Chen, Dr. Thomas Reese

PM-255. James Chief

Mapping Projections of GABAergic Neurons in the Botzinger and Pre-Botzinger Complex

Montana State University (Montana)

Preceptors: Dr. Jeffrey Smith, Dr. Shahriar Sheikhabaehi

PM-256. Supraja Chittari

Cloning and characterization of the squid sodium channel

University of Virginia (Virginia)

Preceptors: Dr. Miguel Holmgren, Dr. Chhavi Mathur, Dr. Pablo Miranda

PM-257. Emilio Chufan-Bordon

Fluorescence Analysis of Glycosylated Proteins in Isolated Axons from Loligo palei

Howard High School (Maryland)

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

PM-258. JoAnne Compo

A quality of life comparison of spinal and bulbar muscular atrophy to other neuromuscular disorders

University of Washington (Washington)

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

PM-259. Aleksandra Dagunts

Identification and Characterization of Novel D4 Dopamine Receptor Antagonists with High Affinity and Selectivity

George Washington University (District of Columbia)

Preceptors: Dr. David Sibley, Dr. Benjamin Free

PM-260. Melanie Delgado

Antibody Detection of Autoantigens (MOG and AQP4) Using an Electrochemiluminescence Assay for Neuromyelitis Optica Spectrum Disorder (NMOSD)

American University (District of Columbia)

Preceptors: Dr. Steve Jacobson, Dr. Shila Azodi, Dr. Chiara Monaco

PM-261. Brianna DiSanza

Activation of a Human Endogenous Retrovirus (HERV) in a Neurodevelopmental Tumor and Modulation by Ouabain

University of Virginia (Virginia)

Preceptors: Dr. Tara Doucet-O'Hare, Dr. Lisa Henderson, Dr. Avi Nath

PM-262. Cole Dittenthaler

Generation of a Homozygous GluN2B Knockin mouse

White Swan High School (Washington)

Preceptors: Dr. Katherine Roche, Dr. John Badger

PM-263. Tsemacha Dubuche

Validating an MRI Measure of Spinal Cord Atrophy using Clinical and Research Scans

Montgomery College (Maryland)

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

PM-264. David Espinoza

Conversion of Human iPS Cells to Sensory Neurons

Johns Hopkins University (Maryland)

Preceptors: Mr. Alec Nickolls, Dr. Carsten Bonnemann

PM-265. Francia Fang

Development of an inducible IDH1 R132H mutation cell model for the study of glioma pathogenesis

Duke University (North Carolina)

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

PM-266. Graeme Fenton

Missense mutations at spastin residue 499 impair endosomal trafficking and result in clinically different neurologic syndromes

University of California, Berkeley (California)

Preceptors: Dr. Lymarie Maldonado-Baez, Dr. Nelson Cole, Dr. Crystal, Lee, Dr. Craig Blackstone

PM-267. Jason Fu, Rachel Rolinski

Does PET Partial Volume Correction Improve Seizure Focus Localization?

Swarthmore College (Pennsylvania), Michigan State University (Michigan)

Preceptor: Dr. William Theodore

PM-268. Noah Fu

Recruiting ER-derived vesicles to late endosomes for transport in axons

Saint Louis University (Missouri)

Preceptors: Dr. Rajat Puri, Dr. Zu-Hang Sheng

PM-269. Jasmine Akiko Garcia, Stacey Bloom, Chidinma Opaigbeogu

Optimizing health through bedding efficiency for laboratory rats

University of California, San Diego (California), University of Maryland, College Park (Maryland),

From the Heart Christian School (Maryland)

Preceptors: Dr. LaTesa Hughes, Dr. James O'Malley

PM-270. Michael Gold

Neural Correlates of EEfRT: A Resting-State fMRI Study

Brown University (Rhode Island)

Preceptors: Dr. Eric Wassermann, Dr. Jeffrey Lewis

PM-271. Andrew Gray

Carney Complex: Neurological sequelae in a Multiple Neoplasm Syndrome

Pacific Northwest University of Health Sciences - College of Osteopathic Medicine (Washington)

Preceptor: Dr. Omar Khan

PM-272. Amelia Hall

P3 Cone Responses of Zebrafish Thyroxin beta-2 Nuclear-Receptor Knockout to Various Light Wavelengths

Haldane High School (New York)

Preceptor: Dr. Ralph Nelson

PM-273. Elyssa Hawk

Generation of clustered regularly interspaced short palindromic repeats (CRISPR) tools to study Parkinson's Disease.

Salish Kootenai College (Montana)

Preceptors: Mr. Gil Kanfer, Mrs. Sarah Pickles, Dr. Richard Youle

PM-274. Hayden Hawk

Comparing the efficiencies of commercially available transfection reagents for optimizing an AAV virus packaging protocol using HEK293 cells.

Hellgate High School (Montana)

Preceptor: Mr. Raymond Fields

PM-275. Natalie Ivanina

Dissecting complex disease: The age of genome sequencing in precision medicine

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sonja Scholz, Ms. Marya Sabir

PM-276. Catherine Jean

Assessing The Neuroprotective Activity of Statins

University of Maryland, College Park (Maryland)

Preceptors: Dr. Joe Steiner, Ms. Muzna Bachani, Dr. Nasir Malik

PM-277. Carly Kaplan

A context-based neural explanation of temporal effects in associative memory performance

Brown University (Rhode Island)

Preceptors: Dr. Vishnu Sreekumar, Dr. Kareem Zaghloul, Dr. Sara Inati

PM-278. Gregory Keating, Grace Armstrong, Jamal Bailey

Combination of Protein phosphatase 2A Inhibition and PD-1 Blockade Synergistically Induces Regression of Murine Intracranial Glioblastoma

Georgetown University School of Medicine (District of Columbia), Barnard College (New York), Prince George's Community College (Maryland)

Preceptors: Dr. Dominic Maggio, Dr. Zhengping Zhuang, Dr. John Heiss

PM-279. Mary Kelley

Mastocytosis and Headaches

Pacific Northwest University of Health Sciences College of Osteopathic Medicine (Washington)

Preceptor: Dr. Omar Khan

PM-280. Alexandra Kilkenny Hansen

The Elusive Physician-Scientist: The Effect of Publication Rates on the Physician-Scientist Workforce

University of California, San Diego (California)

Preceptors: Dr. Omar Khan, Mr. Wyatt Bensken

PM-281. Hyong Kim

Identification of the components of muscarinic receptor signaling in mediating neuronal hyperpolarization in Drosophila larval visual system

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Quan Yuan, Dr. Jun Yin

PM-282. Pavan Krishnan

A Histological Evaluation of a Novel ZASP Mutant Myofibrillar Myopathy Mouse Model Case

Western Reserve University (Ohio)

Preceptors: Dr. Ami Mankodi, Dr. Yotam Blech-Hermoni, Mrs. Kalpana Subedi

PM-283. Lex Lehr

Phosphorylation of Neuroligin 1 and its Implications

Ursinus College (Pennsylvania)

Preceptors: Mr. Thien Nguyen, Dr. Katherine Roche

PM-284. William Levesque

Flow Cytometric Identification of Epstein Barr Virus Specific Memory B Cells in Multiple Sclerosis Patients

Colby College (Maine)

Preceptors: Dr. Steve Jacobson, Ms. Yoshimi Akahata, Dr. Sarah Andrews

PM-285. Tianming Li

Subcellular distribution of GABAA receptor beta subunits in hippocampal neurons

University of Maryland, College Park (Maryland)

Preceptors: Dr. Wei Lu, Dr. Jingjing Duan

PM-286. Xiaoyang Li

Cell Segmentation and Computational Analysis on Rat Brain Tissue

University of Houston (Texas)

Preceptors: Dr. Dragan Maric, Dr. Badri Roysam, Mr. Jahandar, Jahanipour, Mr. Kedar Grama

PM-287. Delores Luttrell

Effect of HERV-K Exposure on Astrocyte Activation/Function: Implications for Neurodegenerative Disease

Osborn High School (Virginia)

Preceptors: Dr. Lisa Henderson, Dr. Avindra Nath

PM-288. Alexandra Mandel

The Effect of Cognitive and Motor Effort in Healthy Volunteers

George Washington University (District of Columbia)

Preceptors: Dr. Traian Popa, Dr. Silvina Horovitz, Dr. Mark Hallett

PM-289. Melika Marani

Assessing CHCHD2/10 Localization Using Split GFP Assay

University of Maryland, College Park (Maryland)

Preceptors: Dr. Derek Narendra, Dr. Xiaoping Huang

PM-290. Jason Mazique

TP53 modulates the dendritic morphology of the cultured rat cortical neurons

Williams College (Massachusetts)

Preceptors: Dr. Sharda Yadav, Dr. Harish Pant

PM-291. ReLiza McGinnis

Viral Dissemination in the Meninges Impedes Reparative Angiogenesis Following Traumatic Brain Injury

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Mr. Matthew Russo, Dr. Dorian McGavern

PM-292. Mazda Moayeri

Automated lesion segmentation in Spinal Cord MRIs of Marmoset EAE

Harvey Mudd College (California)

Preceptors: Ms. Jennifer Lefevre, Dr. Pascal Sati

PM-293. Summer Montileaux

Quantification of RNA in dopamine neuron cell types

Red Cloud Indian School (South Dakota)

Preceptors: Dr. Rebekah Evans, Dr. Zayd Khaliq, Dr. Sherry Zhang

PM-294. Meghana Nadella

Adjusting Protein Levels for Genotype to Improve the Accuracy of Multiple Sclerosis (MS)

Classifiers that Differentiate Progressive from Relapsing-Remitting MS

Allen High School (Texas)

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

PM-295. Matthew Nalls

Screening of Morpholino Antisense Oligos (PMOs) for skipping of pseudoexon inclusion in Collagen 6 Alpha 1 gene

University of Maryland, College Park (Maryland)

Preceptors: Dr. Veronique Bolduc, Dr. Apurva Sarathy, Dr. Carsten Bonnemann

PM-296. Diana Nguyen

Effect of CHCHD2 and CHCHD10 Loss on the Mitochondrial Proteome

Clemson University (South Carolina)

Preceptors: Dr. Derek Narendra, Dr. Xiaoping Huang

PM-297. Arnold Obungu

Investigating the Immunosuppressive Role of Fibroblast Activation Protein-Alpha (FAP-alpha) in the Microenvironment of High Grade Gliomas.

Indiana University School Of Medicine (Indiana)

Preceptor: Dr. Edjah Nduom

PM-298. Tracy Ogata

Dysregulation of TGFbeta signaling pathway in an in vitro model of collagen VI-related muscular dystrophy

University of California, Irvine (California)

Preceptor: Dr. Payam Mohassel

PM-299. Chidinma Opaigbeogu, Jasmine Akiko Garcia, Stacey Bloom

Increasing Cage Change Intervals of Mice Through Different Beddings

From the Heart Christian School (Maryland), University of California, San Diego (California),

University of Maryland, College Park (Maryland)

Preceptors: Dr. LaTesa Hughes, Dr. James O'Malley

PM-300. Maria Ortiz

Exploring the tools of biotechnology: The purification of a fluorescent protein mCherry

White Swan High School (Washington)

Preceptors: Dr. Joseph Mindell, Ms. Alissa Becerril, Ms. Irina Shlosman

PM-301. Parvathy Panakal

Effects of WNT Pathway Activators on Neural Stem Cell (NSC) Proliferation

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Joe Steiner, Dr. Nasir Malik, Ms. Muzna Bachani

PM-302. Jacob Parker

Correlation of Clinical Characteristics and Structural/Functional MRI Abnormalities in Spinocerebellar Ataxia Type 7

New York University (New York)

Preceptors: Dr. Shabbir Merchant, Dr. Silvina Horovitz, Dr. Mark Hallett

PM-303. Claire Marie Perez

Mapping of spatial distribution of the olfactory bulb new neurons at single cell level using iron oxide assisted-MRI

University of Guam (Guam)

Preceptors: Dr. Nikorn Pothayee, Dr. Stephen Dodd

PM-304. Kara Quaid

Using Clinical Data at Discharge to Model Prognosis post Stroke

Case Western Reserve University (Ohio)

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

PM-305. Cyrus Rastegar

Human endogenous retrovirus K is more active in the blood of amyotrophic lateral sclerosis patients and can be targeted by antiretroviral therapy

Johns Hopkins University (Maryland)

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

PM-306. Noah Riley

Homology model of a putative bacterial serotonin transporter

North Carolina State University (North Carolina)

Preceptors: Dr. Lucy Forrest, Dr. Antoniya Aleksandrova

PM-307. Jacob Rosales

Generation of ALS4 patient-derived motor neurons using a transcription factor overexpression system

Red Cloud Indian School (South Dakota)

Preceptors: Dr. Christopher Grunseich, Dr. Kenneth Fischbeck

PM-308. Alexander Ryder

Myoclonus and other neurological manifestation observed in Sialidosis type 1

Pacific Northwest University of Health Sciences - College of Osteopathic Medicine (Washington)

Preceptor: Dr. Omar Khan

PM-309. Devin Scott

The Neuroprotective Activity of Flavonoids

Spelman College (Georgia)

Preceptors: Dr. Joseph Steiner, Ms. Muzna Bachani, Mr. Ferdinand Vilson

PM-310. Misha Sharma

Effect of TFP5 (truncated form of p35) on cancer cell lines

University of Maryland, College Park (Maryland)

Preceptors: Dr. Niru Amin, Dr. Manju Bhaskar

PM-311. Christine Shen

The Effect of Constitutively Active CaMKII on Spine Synapse Structure

University of Maryland, College Park (Maryland)

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

PM-312. Emily Shorb

VEGF and its Receptor in CNS Hemangioblastomas

Poolesville High School (Maryland)

Preceptor: Dr. Marsha Merrill

PM-313. Alexander Silva

Discovery of Two Meningeal Macrophage Populations with Different Roles upon Homeostasis and Inflammation

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Rejane Rua, Dr. Dorian McGavern

PM-314. Kathryn Slacin

Investigating Longitudinal Patterns of Spinal Cord Atrophy in Multiple Sclerosis Using MRI

College of William and Mary (Virginia)

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

PM-315. Opal Stayer-Wilburn

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

Mills College (California)

Preceptors: Dr. Shahriar Sheikhabaei, Dr. Jeffrey Smith

PM-316. Carol Sun

Adjusting Protein Levels for Genotype to Improve the Accuracy of Multiple Sclerosis Diagnostic Tests

Oak Park High School (California)
Preceptors: Mrs. Ann Marie Weideman, Dr. Bibi Bielekova

PM-317. Mitchell Sun

A Novel Treatment of Glioblastoma Using CAR-T
University of Illinois at Chicago (Illinois)
Preceptors: Dr. John Heiss, Dr. Zhengping Zhuang, Dr. Qi Zhang

PM-318. Alan Tang

Osteogenesis and Epithelial Remodeling Following Neuroinvasive Infection
Vanderbilt University (Tennessee)
Preceptors: Dr. Dorian McGavern, Dr. Ashley Moseman

PM-319. Deionna Vigil

Methodology of Botulinum Toxin to Treat Pelvic Pain
Fort Lewis College (Colorado)
Preceptor: Dr. Barbara Karp

PM-320. Tarun Vipra

Quantifying ankle-dorsiflexion myotonia with a portable device in ambulatory individuals with myotonic dystrophy type 1: A 1-year follow up study
University of Virginia (Virginia)
Preceptors: Dr. Ami Mankodi, Ms. Hირity Shimellis

PM-321. Hannah Wang

Using In Vivo MRI to Explore Iron Accumulation in Subcortical Brain Regions of HIV Subjects
Columbia University in the City of New York (New York)
Preceptors: Ms. Paba De Alwis, Dr. Daniel Reich, Dr. Avindra Nath, Dr. Govind Bhagavatheeshwaran

PM-322. Ronald Wang

Assessing predicted off-target effects of CRISPR-Cas9 system during polyglutamine length-specific isogenic engineering of a SBMA hiPSC model
Johns Hopkins University (Maryland)
Preceptors: Dr. Kenneth Fischbeck, Dr. Xia Feng

PM-323. Molly Weiner

Characterization of Cortical Lesions in Marmoset Experimental Autoimmune Encephalomyelitis
University of Chicago (Illinois)
Preceptors: Dr. Erin Beck, Dr. Daniel Reich

PM-324. Conner Whitten

Evolution of Neuroinflammatory Lesions in Human Subjects with CTLA-4 Haploinsufficiency

California State University San Marcos (California)
Preceptors: Dr. Matthew Schindler, Dr. Daniel Reich

PM-325. Beverly Wu

The Role of CHCHD2 and CHCHD10 in Mitochondrial DNA Maintenance

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Derek Narendra

PM-326. Tina Xia, Naomi Jim

The Developmental Profile of GABA-A Receptor Beta Subunits in a Mouse Hippocampus

Walt Whitman High School (Maryland), Yakama Nation Tribal School (Washington)

Preceptors: Dr. Wei Lu, Mr. Qingjun Tian

PM-327. Yiqiu Yang

Looking for Changes in Electrophysiological Biomarkers of Executive Function in the Hemiparkinsonian Rat Model

University of Michigan -- Ann Arbor (Michigan)

Preceptors: Mr. Alexander Weiss, Dr. Judith Walters

PM-328. Angela Yim

Tonic Pain Processing in the Basal Ganglia-Thalamo-Cortical Circuit of Hemiparkinsonian Rats

Washington University in St. Louis (Missouri)

Preceptors: Mr. Alexander Weiss, Dr. Judith Walters

PM-329. Esther Yoon

Two hands are better than one: Exploring the clinical phenomenon of bimanual tremor improvement in essential tremor

Indiana University Bloomington (Indiana)

Preceptors: Dr. Omar Ahmad, Dr. Imran Khan, Dr. Dietrich, Haubenberger, Dr. Mark Hallett

Office of the Director (OD)

PM-330. Alexis Bryant

The Impact of Wet Chemistry Photo Processor Treatment Processes on the Concentration of Silver in the Wastewater

University of Maryland University College (Maryland)

Preceptor: Mr. Mark F. Miller

OD High School Scientific Training and Enrichment Program (HiSTEP)

HS-303. Stephen Agyepong

My Summer Experience in the HiSTEP Program at NIH

Paint Branch High School (Maryland)

Preceptor:

HS-304. Olamide Alabi

*My Summer Experience in the HiSTEP Program at NIH
High Point High School (Maryland)*

HS-305. Pamela Aluvale

*My Summer Experience in the HiSTEP Program at NIH
Wheaton High School (Maryland)*

HS-306. Brooklyn Brown

*My Summer Experience in the HiSTEP Program at NIH
McKinley Technology High School (Maryland)*

HS-307. Stephany Carrasco

*My Summer Experience in the HiSTEP Program at NIH
Montgomery Blair High School (Maryland)*

HS-308. Kavisha Chandrawarakkalage

*My Summer Experience in the HiSTEP Program at NIH
Wheaton High School (Maryland)*

HS-309. Joseph Clark

*My Summer Experience in the HiSTEP Program at NIH
Watkins Mill High School (Maryland)*

HS-310. Kathleen Dang

*My Summer Experience in the HiSTEP Program at NIH
Hayfield Secondary School (Maryland)*

HS-311. Biobebe Davies

*My Summer Experience in the HiSTEP Program at NIH
Academy Of Health Science @ PGCC (Maryland)*

HS-312. Inez Dibonge

*My Summer Experience in the HiSTEP Program at NIH
Clarksburg High School (Maryland)*

HS-313. Noha Elzaree

*My Summer Experience in the HiSTEP Program at NIH
Eleanor Roosevelt High School (Maryland)*

HS-314. Luis Estrada

My Summer Experience in the HiSTEP Program at NIH
Benjamin Banneker Academic High School (Maryland)

HS-315. Saul Flores

My Summer Experience in the HiSTEP Program at NIH
Watkins Mill High School (Maryland)

HS-316. Iliana Gonzalez

My Summer Experience in the HiSTEP Program at NIH
Academy Of Health Science @ PGCC (Maryland)

HS-317. Tooba Malik

My Summer Experience in the HiSTEP Program at NIH
Eleanor Roosevelt High School (Maryland)

HS-318. Stephanie Montes De Oca

My Summer Experience in the HiSTEP Program at NIH
Montgomery Blair High School (Maryland)

HS-319. Richard Nguyen

My Summer Experience in the HiSTEP Program at NIH
James Hubert Blake High School (Maryland)

HS-320. Chigozirim Nwogu

My Summer Experience in the HiSTEP Program at NIH
Benjamin Banneker Academic High School (Maryland)

HS-321. Maureen Onyebuchukwu

My Summer Experience in the HiSTEP Program at NIH
High Point High School (Maryland)

HS-322. Nathan Phillips

My Summer Experience in the HiSTEP Program at NIH
James Hubert Blake High School (Maryland)

HS-323. Mumtahina Tabassum

My Summer Experience in the HiSTEP Program at NIH
Eleanor Roosevelt High School (Maryland)

HS-324. Simon Talusan

My Summer Experience in the HiSTEP Program at NIH
Benjamin Banneker Academic High School (Maryland)

HS-325. Samuel Teshome

My Summer Experience in the HiSTEP Program at NIH
Montgomery Blair High School (Maryland)

HS-326. Vanessa Wong

My Summer Experience in the HiSTEP Program at NIH
James Hubert Blake High School (Maryland)

HS-327. Tsion Yemane

My Summer Experience in the HiSTEP Program at NIH
Albert Einstein High School (Maryland)

MORNING SESSION	AM	9:00 AM-11:00 AM	AFTERNOON SESSION	PM	1:00 PM-3:00 PM
LUNCH SESSION	LCH	11:00 AM-1:00 PM	HISTEP SESSION	HS	3:30 PM-4:30 PM

PARTICIPANTSESSION-POSTER#

Aboreden, NicholasAM-001
 Abraha, BeimnetAM-002
 Abrantes, AshleeLCH-077
 Achar, SoorajPM-107
 Ackerman, MaxAM-003
 Acqui, JosephLCH-266
 Adamstein, NicholasPM-237
 Adelstein, AdamPM-238
 Adler, ColinAM-239
 Afzal, AnilaPM-009
 Agnihotri, DeeptiAM-004
 Agyen Darko, DavidLCH-129
 Agyepong, StephenHS-303
 Aho, SylvanaAM-005
 Al Shabeeb, ReemPM-050
 Alabi, OlamideHS-304
 Albjerg, LydiaPM-239
 Alcantar Rama, MyriamLCH-317
 Alexander, JonathanAM-006
 Alexander, RachelLCH-190
 Alexander, SeanAM-006, AM-007
 Alfon, DavidLCH-001
 Alia, NgoziAM-240
 Allam, OmarLCH-306
 Allen, VincentAM-048
 Allnutt, Mary AlicePM-240
 Alonzo, Mark ElliePM-108
 Alsomairy, IbrahimAM-008
 Altany, ClairePM-241
 Aluvale, PamelaHS-305
 Amare, AbelLCH-318
 Ambati, NaveenAM-009
 Ambaye, KlaraAM-010
 Amos, TylerLCH-078
 Amponsem, JoycemaryLCH-130
 Anaya, AlejandroLCH-307
 Anderman, MeghanAM-011
 Anderson, AdamLCH-252
 Andres, MeganAM-012
 Aponte, CarlosLCH-079
 Arango Baquero, SimonPM-242
 Arimilli, BhargavAM-013
 Ariyo, OluwatobiLCH-267
 Armstrong, GracePM-278
 Arons, DanielleAM-014
 Arteaga, RebeccaLCH-191
 Ascencio, JeffersonPM-243
 Asdell, StephanieLCH-192
 Ashby, ChristinaPM-109
 Atrah, RiyadhAM-241
 Atrway, RayannAM-015
 Austin, ShelleyLCH-051
 Avidor, RachaelLCH-268
 Avramovska, OgnenkaAM-016
 Awad, DuhaAM-017
 Awosika, TolulopeLCH-080
 Ayers, AndreaAM-242
 Ayvazov, SarahLCH-002

Azam, AsmaAM-018
 Azinge, IfeomaLCH-131
 Aziz, FarisPM-010
 Bagal, NithinAM-019
 Bahadiroglu, ErolAM-020
 Bahta, TsiqeAM-021
 Bailey, JamalPM-244, PM-278
 Bakarman, RazanPM-110
 Bakhtiar, AtiehPM-051
 Bakly, ValeriePM-245
 Balmaceda, JuliaAM-022
 Banerjee, AvantikaLCH-081
 Bang, JoonPM-111
 Bang, RachelLCH-082
 Bao, ZejunLCH-248
 Baranoski, MariePM-246
 Barbu, Emilia AlinaLCH-084
 Battina, RohithLCH-052
 Battles, CourtneyLCH-003
 Bauer, RosiePM-112
 Bazelon, SimonaAM-023
 Becenti, StephanieLCH-322
 Becotte, SamanthaLCH-193
 Bedanova, NicoleAM-024
 Bednar, HaileyLCH-308
 Beesam, AdhyaLCH-194
 Beesam, ShriyaAM-318
 Bellisle, RachelLCH-004
 Beltoja, MarjoPM-247
 Bennett, SamuelAM-261
 Bera, TitasAM-025
 Bergman, TzipporahPM-248
 Bernstein, JessicaAM-026
 Bernstein, RachelAM-027
 Berrigan, JacobLCH-195
 Beug, GabrielaAM-028
 Bhatnagar, AkritaPM-249
 Biberfeld, NechamaPM-250
 Bien, SarahLCH-196
 Biggs, MorganLCH-132
 Blake, MaryLCH-323
 Blau, LaurenPM-052
 Bliss, RosemaryAM-179
 Bloom, StaceyPM-251, PM-269, PM-299
 Boden, MatthewPM-053
 Boettler, MichelleAM-029
 Bohlke, KaylaPM-252
 Bond, CharlesLCH-083
 Bonetta-Misteli, KikiPM-253
 Booth, RyanPM-184
 Bordeaux, SkylerLCH-133
 Borom, MarielleLCH-084
 Bosques, CarloAM-030
 Bourque, LiamLCH-269
 Bowering, CarolynLCH-175
 Boyce, KaifaAM-262
 Brauer, PhilipAM-031
 Brauneis, ElizabethAM-032
 Brettschneider, ThomasPM-190

Broadwell, CarolinePM-113
 Broome, JacobAM-033
 Brown, BrooklynHS-306
 Brown, IanPM-011
 Brown, JamesPM-191
 Brunicardi, JadePM-054
 Bryant, AlexisPM-330
 Buck, JustinPM-192
 Buldo-Licciardi, JuliaPM-055
 Bunda, PatriciaAM-034
 Burden, TylerLCH-249
 Bustos Barocio, SoniaPM-056
 Butera, NicoleLCH-134
 Butturini, EmmaLCH-324
 Byrd, NiaPM-012
 Callahan, TiffanyAM-319
 Canfield, IsabelLCH-005
 Cao, AlvinAM-035
 Cao, JonathanLCH-197
 Cao, TiffanyLCH-085
 Caplan, AvivaPM-193
 Caplan, TziporaPM-057
 Cardone, MichaelPM-013
 Carhuas, CarlosLCH-086
 Carozza, SofiaLCH-176
 Carrasco, StephanyHS-307
 Carter, BrittneyLCH-309
 Carter, RachelAM-036
 Casellas, SamuelAM-037
 Castrodad-Rodríguez, CarlosLCH-198
 Catalano, AlexisAM-038
 Cavett, NicoleLCH-199
 Cawthon, Geetha MariahAM-039
 Cervantes, BrianaAM-288
 Cespedes, JuanLCH-087
 Chadda, ArihantPM-058
 Chambers, IanLCH-270
 Chambers, ShaneLCH-135
 Chan, AlexanderLCH-250
 Chan, Shin MeiAM-040
 Chandrarakkalage, KavishaHS-308
 Chang, JonathanPM-114
 Chang, LaurenLCH-200
 Chang, SerohAM-007, AM-041
 Chari, RohitPM-115
 Chen, AbigailLCH-060
 Chen, AnnaLCH-209
 Chen, ClaireLCH-053
 Chen, EstherPM-001
 Chen, JamesLCH-136
 Chen, JocelynAM-042
 Chen, PhilPM-116
 Chen, VivianLCH-137
 Cheng, JamieAM-043
 Chernick, RebeccaPM-117
 Chertkof, JuliaAM-263
 Cheung, GracePM-254
 Chief, JamesPM-255
 Chillakuru, YeshwantPM-194

MORNING SESSION	AM	9:00 AM-11:00 AM	AFTERNOON SESSION	PM	1:00 PM-3:00 PM
LUNCH SESSION	LCH	11:00 AM-1:00 PM	HiSTEP SESSION	HS	3:30 PM-4:30 PM

Chittari, SuprajaPM-256	De Melo, Jackie.PM-200	Fang, Francia.PM-265
Chittiboia, PrashantPM-249	DeLaurentis, BrianLCH-008	Fang, Michelle.AM-061
Choi, ElizabethPM-195	Delavar, ArashAM-243	Fang, StevenPM-127
Choi, GiehaePM-059	Deleon, SeanAM-054	Fapohunda, MoronkejiPM-066
Choi, JustinLCH-201	Delgado, MelaniePM-260	Farooque, NashwanLCH-096
Chowdhury, NavidAM-289	DeLong, LaurenLCH-140	Faulkner, MiaPM-067
Chu, JeffreyAM-044	DeLuca, Marisa.LCH-272	Feinstein, SiviaAM-062
Chufan-Bordon, EmilioPM-257	Dent, ElizabethPM-062	Feng, AmberAM-063
Chung, Eunice.PM-196	Des Jardin, MarciaLCH-009	Fenton, GraemePM-266
Chung, HyunsooAM-045	Desai, AbhikshaLCH-010	Fentress, JessicaLCH-016
Chung, Meghan.PM-185	Desai, AlishaLCH-088	Feuer, Elyssa.LCH-253
Clark, Hannah.LCH-006	Deshpande, Meena.PM-122	Fields, Colin.LCH-207
Clark, JosephHS-309	Deshpande, VenkateshLCH-251	Fink, Yaeli.PM-128
Clark, KendraAM-304	Dhanala, ApoorvaLCH-273	Flagg, VictoriaPM-202
Clem, RebeccaPM-073	Dhebaria, NishaLCH-011	Flipping, MichaelaAM-064
Clifford, Sarah.PM-060	Dibonge, Inez.HS-312	Flores, SaulHS-315
Coffield, DariaAM-290	Dick, RachelPM-201, PM-223	Fon, Anyen.AM-065
Cohen, ShalvaAM-046	Ding, Lilly.LCH-089	Fong, DanielLCH-311
Cole, Cedric.AM-047	Ding, Molly.PM-123	Forman, ClaytonPM-019
Colton, NaomiAM-291	DiSanza, BriannaPM-261	Francis, EllenPM-068
Comhaire, ElienLCH-202	Dittenthaler, ColePM-262	Frank, Marilyn.LCH-070
Compo, JoAnne.PM-258	Dodge, AndrewLCH-090	Franklin, Keyanna.AM-293
Constand, SaraLCH-007	Dogbe, Nadine.PM-018	Franklin, Tesiya.PM-020
Contreras, UriahPM-014	Domingo, Ron JakoLCH-326	Freeman, RebeccaPM-129
Cook, AnnaPM-197	Domingo, Ronna KaylaLCH-327	Friedenberg, Meir.AM-066
Cook, ZacharyLCH-138	Dong, YizePM-124	Fu, JasonPM-267
Cooper, JeffreyLCH-310	Donnelly, MatthewLCH-091	Fu, Noah.PM-268
Cornwell, SteffenPM-118	Donnelly, Sarah.PM-063	Fuksenko, AleksandrPM-246
Coronado, DanielaLCH-203	Drach, EllaAM-055	Gade, Swata.PM-130
Coulibaly, Reinatou.PM-015	Driban, MatthewAM-056	Gaines, MeganPM-069
Courey, Karis.PM-198	Du, KatherineAM-320	Ganesh, ShriienidhieAM-179
Coutain, Ky-ManiLCH-319	Duarte, DaniellePM-186	Gangineni, Sai AbhishekAM-067
Coy, EricAM-305	Dubuche, Tsemacha.PM-263	Gao, WinniPM-203
Coyle, PatrickPM-061	Duckworth, Tony.AM-264	Garcia, Eric JoshuaPM-021
Crenca, MeredithLCH-177	Duemler, AnnaAM-057	Garcia, Jasmine AkikoPM-251, PM-269, PM-299
Crouch, CameronAM-048	Dunbar, ZerickLCH-092	García, Carmen-MaríaPM-070
Cruciger, Michael.AM-306	Earland, NoahAM-058	Gaynor, Alison.PM-131
Cullen, Christian.LCH-204	Ebelle, Danielle.AM-059	Gazo, Katrina.LCH-274
Curtis, MadeleineAM-049	Edgar, SamanthaPM-064	Gebreegziabher, MeheretLCH-017
D'Souza, AndreaPM-016	Edisis, Nathaniel.LCH-012	George, EmmettLCH-055
Dagunts, AleksandraPM-259	Ehlerding, EmilyAM-060	Gerber, MichaelLCH-254
Dame, IsabelLCH-205	Eisendrath, Isabel.AM-316	Getahun, CalebAM-068
Danchik, CarinaLCH-054	Elavia, Nasha.LCH-034	Ghodasra, MonilPM-071
Dandeneau, DanaLCH-271	Ellis, Tarek.AM-307	Ghosh, Roy.PM-072
Dang, KathleenHS-310	Elzaree, NohaHS-313	Giglio, RossAM-308
Daniels, Silvano.PM-119	Emam, ZeyadLCH-252	Gillard, Mitchell.AM-069
Danathi, AnitaPM-120	Enders, JacobLCH-093	Gilley, Kayla.LCH-141
Darby, MarshallAM-050	Escamilla, JazminPM-125	Giri, AbhigyaAM-070
Dashora, HimanshuLCH-139	Escobales Cabrera, PaolaPM-126	Gober, Leah.LCH-018
Daugherty-Shrivastava, NeelLCH-206	Espinoza, David.PM-264	Gold, Michael.PM-270
Dave, AmishaPM-002	Espinoza, LauraLCH-094	Golding, Haley.AM-071
Davidson, Hannah.LCH-325	Estrada, LuisHS-314	Gomez, FatimaAM-266
Davies, BiobeleHS-311	Etikela, NikhilAM-265	Gomez-Fonseca, Duber.PM-022
Davies, RileyPM-199	Eustace, Quentin.LCH-013	Gonsalves, Christian.AM-072
Davis, BrandonPM-017	Exley, ShannonLCH-014	Gonzalez, AllondraPM-132
Davis, Thomas.PM-121	Ezell, KendalLCH-015	Gonzalez, Iliana.HS-316
Dayal, NoelleAM-051	Fairhurst, Katie.AM-292	Gonzalez, Selena.LCH-142
de Guzman, JaysonAM-052	Famuyiwa, Olufisola.PM-065	Gonzalez, ShaimarAM-309
de la Cruz, Julianie.AM-053	Fanba, Helene PriscaLCH-095	

MORNING SESSION	AM	9:00 AM-11:00 AM	AFTERNOON SESSION	PM	1:00 PM-3:00 PM
LUNCH SESSION	LCH	11:00 AM-1:00 PM	HISTEP SESSION	HS	3:30 PM-4:30 PM

Goraya, Reet	AM-073	Ho, Brian	LCH-102	Juarez-Solis, Samuel	PM-138
Gouzoulis, Michael	AM-074	Ho, Jessica	AM-088	Judge, Eliza	LCH-280
Gouzoulis, Monica	AM-075	Ho, Pui Yan	AM-089	Jung, Emily	LCH-027
Gowda, Nikhil	AM-076	Hochstedler, Kimberly	PM-077	Kabatova, Barbora	LCH-214
Goyal, Nikhil	AM-077	Holovac, David	LCH-179	Kadribegic, Inci	LCH-058
Granados, Jillian	LCH-019	Hong, Andrew	PM-026	Kain, Jessica	LCH-028
Granados Centeno, Enoc	LCH-097	Hong, Natalie	LCH-024	Kalidas, Ashwin	PM-079
Grant, Shara	LCH-071	Hong, Nicholas	AM-310	Kalinowski, Nicholas	AM-103
Gray, Andrew	PM-271	Hong, Sandra	AM-090	Kallianpur, Rohini	AM-267
Gray, Kaysi	LCH-143	Hong, Sara	LCH-072	Kambala, Anusha	AM-104
Greene, Sunny	PM-023	Hong, Soyoung	AM-322	Kamdar, Rahul	LCH-215
Greenlee, Ashley	PM-073	Horne, Frederick	PM-027	Kane, Eli	AM-105
Grewe, Adriana	AM-281	Horowitch, Brooke	LCH-209	Kane, Sierra	LCH-281
Gripp, Emily	PM-024	Hossain, Sharmin	LCH-147	Kang, Dahye	LCH-105
Grissom, Spencer	LCH-020	Hruska, Alex	AM-091	Kantesaria, Saurin	LCH-255
Groover, Sarah	AM-244	Htun, Swan	AM-323	Kaplan, Carly	PM-277
Gu, Jerry	AM-321	Huang, Allan	AM-092	Kargbo, Ibrahim	LCH-106
Gudina, Alshaday	PM-204	Huang, Becky	AM-093	Karpurapu, Anish	PM-080
Guggari, Megha	AM-078	Huang, Cindy	LCH-210	Katz, Yisrael	LCH-107
Guillama, Oscar	LCH-021	Huang, Jesse	LCH-211	Keating, Gregory	PM-278
Gulko, Daniel	AM-079	Huang, Robert	LCH-056	Kelley, Mary	PM-279
Gulley, Devon	LCH-022	Hughes, Cherella	PM-210	Kennerley, Victoria	AM-248
Guo, Janet	LCH-144	Hughes, Randall	PM-028	Kepley, Julia	AM-106
Guo, Matthew	PM-133	Husain, Baqar	LCH-212	Khalil, Mahmoud	LCH-312
Gupta, Nikita	AM-080	Huso, Vienna	PM-136	Khang, Juna	LCH-029, LCH-045
Gupta, Rahul	PM-074	Hutman, Rebecca	AM-094	Khojandi, Arman Yashar	PM-211
Gurney, Anna	AM-081	Huynh, Timothy	LCH-277	Kilkenny Hansen, Alexandra	PM-280
Guthal, Arjun	AM-149	Hwang, Robert	AM-095	Kim, Alex	PM-081
Gyabaah-Kessie, Nana	AM-082	Hyams, Travis	LCH-103	Kim, Alexander	LCH-216
Haas, Amanda	LCH-275	Ikeh, Cyril	LCH-148	Kim, Esther	AM-268
Hackbarth, Kevin	PM-075	Irielle, Brenda	PM-029	Kim, Hyong	PM-281
Haggerty, Nicole	LCH-276	Irimata, Katherine	LCH-025	Kim, Jee Hun	AM-107
Haile, Heven	LCH-208	Isham, Shaila	LCH-180	Kim, Jeewoo	PM-139
Hall, Amelia	PM-272	Islam, Jessica	AM-246	Kim, Joseph	LCH-217
Ham, Chloe	PM-076	Islam, Promotto	LCH-104	Kim, June Hee	AM-269
Hamilton, Frances	LCH-098	Ivanina, Natalie	PM-275	Kim, Katherine	PM-140
Han, Elaine	LCH-178	Ivanov, Lily	PM-187	Kim, Madeline	AM-108
Han, Su-Yun	LCH-099	Jack, Deborah	AM-096	Kim, Margot	AM-109
Handler, Chenchen	AM-083	Jackson, Ashley	PM-078	Kim, Sarah	AM-249
Hanfling, Sarina	PM-205	Jackson, Emahlea	AM-247	Kim, Somin	AM-295
Harvey, Catherine	AM-084	Jackson, Miranda	AM-097	Kim, Soyun	AM-250
Harvey, Summer	AM-245	Jackson, Timothy	LCH-057	Kim, Yeo Eun	LCH-030
Hatchell, Hannah	PM-206	Jacobs, Jazz	AM-294	King, Timothy	AM-110
Hawari, Marwan	AM-085	Jailwala, Anusha	AM-098	Klein, Brandon	AM-270
Hawk, Elyssa	PM-273	James, Ryan	LCH-278	Kline, Jessica	AM-111
Hawk, Hayden	PM-274	Jang, Jae Hee	PM-030	Kloner, Philip	LCH-112
Hawken, Natalie	LCH-100	Jang, Katrina	AM-099	Ko, Nathan	LCH-218
Hayati, Sheida	LCH-101	Jean, Catherine	PM-276	Koka, Hela	AM-251
Haymond, Megan	LCH-023	Jiang, Andrew	LCH-279	Kolick, Melissa	AM-112
Heffner, Audrey	AM-086	Jiang, Joy	AM-100	Kondapolu, Manish	PM-003
Henderson, Quanshay	LCH-145	Jim, Naomi	PM-326	Konde, Sai Aparna	AM-113
Hernandez, Christian	PM-025	Johnson, Courtney	LCH-026	Konduru, Hima	AM-271
Hernandez-Avila, Emily	PM-134	Johnson, Joseph	LCH-328	Kostecka, Laurie	AM-114
Hewitt, Amirah	LCH-146	Johnson, Joy	AM-101	Kotlyar, Bella	AM-115
Higgins, Paul	AM-087	Johnson, Kevin	LCH-213	Krishnan, Pavan	PM-282
Higham, Chris	PM-207	Johnson, Lauren	LCH-149	Krishnan, Uma	AM-116
Hightower, Oliver	PM-208	Jones, Anique	PM-031	Kruszka, Oliver	PM-032
Hinkle, Erika	PM-209	Jones, Catherine	AM-102	Kruszka, Sofia	PM-033
Hislop, Jada	PM-135	Jordan, Alexander	PM-137	Kulp, David	LCH-031

MORNING SESSION	AM	9:00 AM-11:00 AM	AFTERNOON SESSION	PM	1:00 PM-3:00 PM
LUNCH SESSION	LCH	11:00 AM-1:00 PM	HiSTEP SESSION	HS	3:30 PM-4:30 PM

Kunnam, Shwetha	PM-141	Magaha, Jacqueline	LCH-282	Moayeri, Mazda	PM-292
Kuriakose, Minna	LCH-219	Magee, Reyneir J.	AM-135	Mohamed, Reem	PM-016, PM-215
Kyriacou, Christopher	LCH-108	Mahapatra, Ruchika	AM-136	Mohammed, Wardah	AM-153
Larsen, Randolph	AM-117	Maidoh, Esther	AM-137	Mohardt, Mikaela	LCH-113
Lazar, Sarah Baila	AM-118	Maiz, Alejandra	AM-276	Monasterio, Amy	LCH-153
Lazere, Adam	AM-272	Makanjuola, Josephine	LCH-033	Montes De Oca, Stephanie	HS-318
Le, Megan	LCH-220	Maldonado Ortez, Stacey	PM-084	Montileaux, Summer	PM-293
Le, Quynh	AM-119	Malik, Tooba	HS-317	Moon, Caroline	AM-154
Lee, Allan	PM-142	Malik, Zanaib	AM-138	Morgan, Chase	LCH-036
Lee, Alycia	AM-120	Maltsev, Alexander	LCH-151	Morrison, Darrah	PM-216
Lee, Jaehyun	PM-143	Mandel, Alexandra	PM-288	Movva, Sriya	AM-155
Lee, John	LCH-221	Manickavel, Sangavi	PM-148	Mszar, Reed	PM-153
Lee, Katharyn	AM-121	Manier, Karra	AM-139	Muldoon, Daniel	AM-252
Lee, Rebecca	AM-122	Mansur, Zahra	LCH-112	Munoz, Diego	AM-156
Lee, Sarita	LCH-059	Marani, Melika	PM-289	Muñoz, Paula	AM-311
Leggiero, Nicole	AM-123	Marinelli, Kathleen	AM-296	Munyan, Nicholas	PM-154
Legier, Jonathan	LCH-150	Marino, Matthew	LCH-227	Murphy, Michael	LCH-114
Lehr, Lex	PM-283	Markle, Erin	AM-140	Mwenda, Nkatha	LCH-154
Lema, Hiwot	AM-124	Markov, Yaroslav	LCH-283	Mwinyaa, George	LCH-228
Lemmer, Allison	PM-144	Marquez-Membreno, Jessica	LCH-284	Nadella, Meghana	PM-294
Leventhal, Shanna	LCH-222	Martin, Jessica	AM-141	Najadifar, Tiffani	AM-298
Levesque, William	PM-284	Martin, Matthew	PM-149	Nakuchima, Sofia	LCH-229
Levin, Samara	LCH-223	Martinez, Vanessa	AM-324	Nalls, Matthew	PM-295
Levine, Chana	AM-006	Masterson, Monica	AM-142	Naqvi, Tanzeem	AM-157
Levine, Chana Devora	AM-125	Mathew, Sarah	AM-143	Navarro, Karina	AM-277
Levine, Oscar	LCH-109	Matthews, Rebecca	AM-144	Ndedi, Bernard	PM-038
Li, Andrew	LCH-224	Mayo, Kaylan	LCH-285	Nellore, Shivani	AM-158
Li, Riancy	LCH-225	Mazique, Jason	PM-290	Neumann, Karl A.	LCH-073, LCH-075
Li, Tianming	PM-285	McDaniel, Kate	PM-085	Nevarez Munoz, Ericka	PM-155
Li, Xiaoyang	PM-286	McDermott, Daniel	LCH-075	Nez, Tasha	PM-156
Liang, Brian	LCH-256	McDermott, Daniel H.	LCH-073	Ngameni, Ornella	LCH-155
Liao, Arthur	LCH-257	McDuffie, Amari	PM-035	Nguyen, Chi	PM-157
Lieberman, David	PM-145	McFarland, Minna	LCH-152	Nguyen, Dalena	AM-159
Lin, Adrian	PM-082	McGinnis, ReLiza	PM-291	Nguyen, Diana	PM-296
Lin, Ashley	LCH-110	McGowan, Melissa	PM-036	Nguyen, Eric	AM-160
Lin, Choyhee	AM-273	McManus, Andrew	LCH-034	Nguyen, Oliver	PM-087
Lin, Margaret	PM-212	Meerzaman, Isabella	AM-145	Nguyen, Richard	HS-319
Lindstrom, Taylor	PM-034	Mehal, Adam	LCH-181	Nguyen, Tuyet	PM-088
Ling, Audrey	AM-126	Mehta, Somil	AM-146	Nguyen, Valerie	LCH-061
Lingenfelter, Cameron	AM-127	Meisler, Esther	PM-150	Nicholas, Claythia	PM-158
Liou, Avery	AM-128	Meister, Sheindel	AM-147	Nichols, Christina	PM-089
Lipsey, Crystal	LCH-226	Melendez, Carlos	LCH-074	Nicolas, Gardy	LCH-288
Lissoos, Jacob	AM-129	Mengesha, Hermela	PM-151	Nilacantan, Aditya	PM-004
Liu, Andrew	LCH-258, PM-146	Menken, Shoshana	AM-148	Noh, Michelle	PM-217
Liu, Catherine	AM-048	Messineo, Elizabeth	AM-149	Nordheimer, Ryan	LCH-182
Liu, Hillary	LCH-032	Middleton, Kathryn	LCH-035	Novichkov, Victor	LCH-069
Liu, Jackie	PM-147	Migineishvili, Nino	PM-214	Nwizu, Ujuonu	PM-159
Liu, William	AM-130	Miller, Charlotte Anne	AM-150	Nwogu, Chigozirim	HS-320
Lokhande, Anagha	AM-274	Miller, Corey	PM-037	O'Brien, Regina	LCH-230
Loria, Sydney	AM-131	Miller, Hope	AM-151	Obungu, Arnold	PM-297
Lu, Jana	AM-132	Miller, Jacob	PM-086	Odim, Jonathan	PM-039
Lulli, Daniel	AM-275	Miller, Nathan	LCH-069	Odzorig, Taivan	AM-161
Luttrell, Delores	PM-287	Min, Alan	LCH-286	Odzorig, Tamir	AM-278
Ma, Hanley	LCH-111	Miranda, Nadia	PM-152	Ogata, Tracy	PM-298
Ma, Joyce	LCH-060	Mirza Nasiri, Nooshin	AM-152	Ogilvy, Alexander	LCH-289
Ma, Vincent	PM-083	Mischley, Victoria	AM-297	Oh, Christine	PM-218
Mada, Saivardhan	PM-213	Mishra, Ankit	LCH-287	Olaloye, Foyinsola	AM-162
Madera, Nelson	AM-133	Mithani, Sara	LCH-329	Omoregbee, Charles	PM-090
Madrid, Rebekah	AM-134	Moallem, Golnaz	AM-325	Onyebuchukwu, Maureen	HS-321

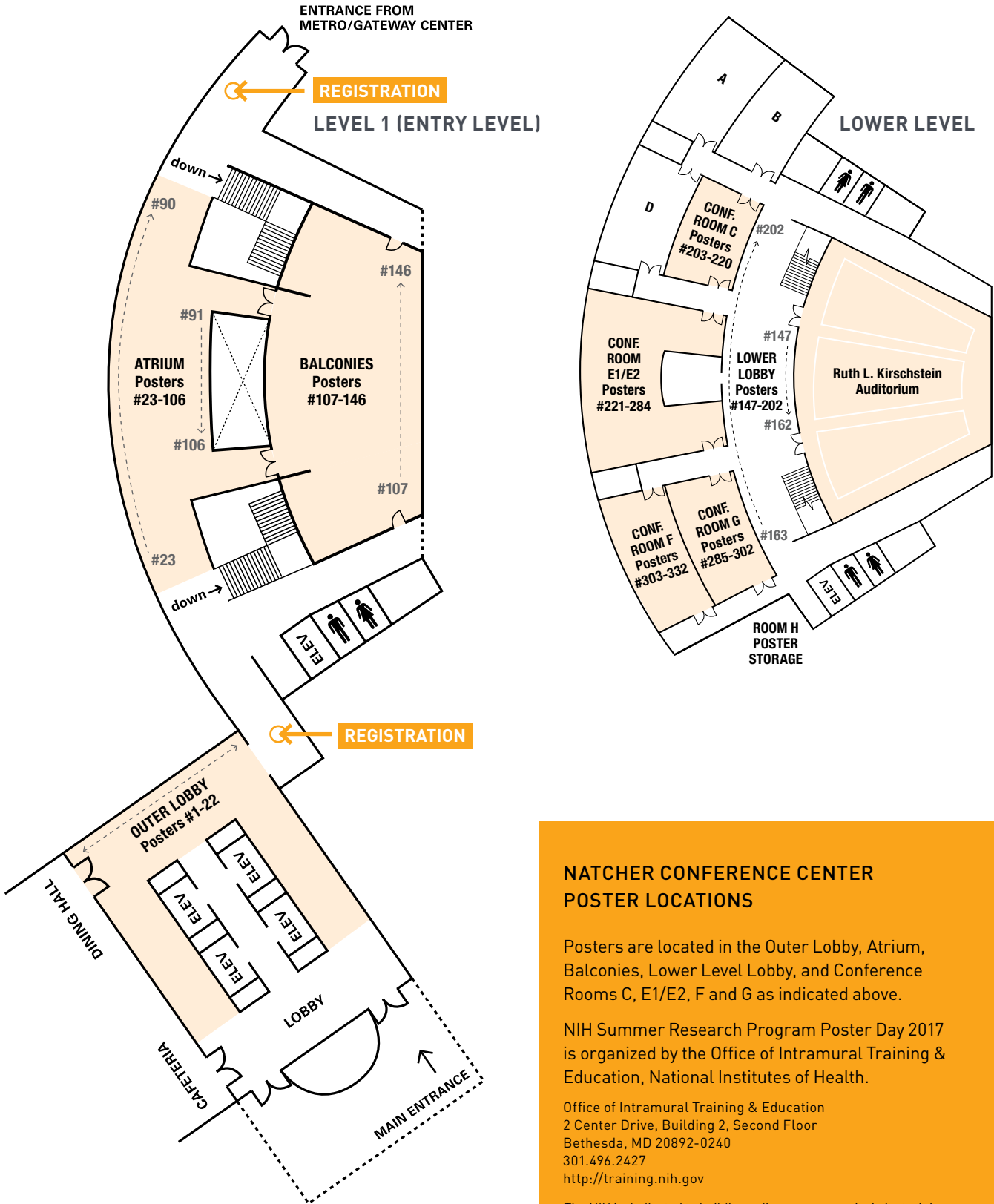
MORNING SESSION	AM	9:00 AM-11:00 AM	AFTERNOON SESSION	PM	1:00 PM-3:00 PM
LUNCH SESSION	LCH	11:00 AM-1:00 PM	HISTEP SESSION	HS	3:30 PM-4:30 PM

Opaiibeogu, Chidinma	PM-251, PM-269, PM-299	Raymond-Smiedy, Peter	AM-176	Schultheis, William	LCH-043
Oppenheim, Nicole	LCH-231	Razavi, Syrus	LCH-293	Schultz, Connor	PM-004, PM-006
Ortega, Nancy	PM-091	Reagle, Emily	AM-177	Schuster, Corbin	PM-168
Ortiz, Maria	PM-300	Reddy, Anantha Sriya	PM-041	Schwartz, Aviva	AM-188
Ortiz, Maria Magdalena	AM-163	Reginauld, Bianca	AM-178	Schwartz, Hadassah	LCH-118
Osofsky, Anna	PM-092	Rekapalli, Pranav	LCH-234	Schwartz, Ronit	LCH-119
Osuji, Chelsea	LCH-290	Rekulapelli, Akhil	PM-097	Sciorillo, Amanda	AM-189
Owusu-Ansah, Albert	AM-164	Remedios, Samuel	LCH-041	Scott, Devin	PM-309
Ozga, Teresa	AM-165	Renteria, Andy	LCH-235	Seah, Priscilla	AM-330
Paletzki, Erik	AM-173	Restifo, Alexander	AM-179	Senthil, Mina	PM-224
Panakal, Parvathy	PM-301	Richard, Christopher	AM-180	Sesay, Ematu	AM-190
Pandalai, Bhuvana	AM-166	Richards, Connor	PM-098	Sethi, Taresh	AM-191
Pannullo, Nicole	AM-279	Riley, Noah	PM-306	Sethi-Olowin, Arjun	PM-101
Pantaleao, Ashley	AM-253	Rincon, Maria	AM-181	Seyoum, Getahun	LCH-162
Pardo, Katherine	PM-040	Roberts, Krista	LCH-313	Sezhian, Thiagarajan	AM-192
Parekh, Kavya	PM-160	Rocha, Mariana	LCH-184	Shaffer, Rachel	LCH-296
Park, Aaron	LCH-291	Rodarte, Kathia	PM-099	Shah, Devrat	AM-283
Park, Adam	AM-167	Rogers, James	AM-182	Shah, Hamzah	AM-193
Park, Seo Jung	LCH-292	Rolinski, Rachel	PM-267	Shah, Hina	PM-169
Parker, Chevonne	LCH-156	Romero, Angelica	LCH-294	Shain, Lindsey	PM-225
Parker, Jacob	PM-302	Rooke, Victoria	PM-221	Sharma, Misha	PM-310
Paskoff, Benjamin	PM-161	Roque, Christopher	PM-005	Shashikiran, Sannidhi	LCH-186
Patel, Nathaniel	AM-168	Rosales, Jacob	PM-307	Sheikh, Arfa	LCH-297
Patterson, Rachel	AM-299	Rosen, Max	AM-326	Shelby, Myeshia	AM-194
Paul, Joseph	AM-169	Rosenfeld, Mia	AM-183	Shen, Christine	PM-311
Perez, Claire Marie	PM-303	Rosenzweig, Sofia	PM-042	Shen, Victoria	AM-195
Perez, Madeline	AM-170	Rostom, Mary	AM-300	Shi, Ethan	LCH-120
Perez Valencia, Luis	LCH-037	Rothman, Jessica	AM-254	Shim, Brandon	AM-196
Perez-Albela, Alejandro	AM-171	Roy, Irena	LCH-117	Shin, Susie	PM-226
Perlstein, Brooke	LCH-115	Ruben, Benjamin	PM-043	Shorb, Emily	PM-312
Pesante, Benjamin	LCH-038	Rubio, Alex	AM-327	Short, Matthew	LCH-259
Peters, Carson	LCH-232	Rubio, Priscila	PM-164	Shreves, Alaina	PM-044
Peterson, Kathryn	LCH-039	Rudenko, Tetyana	AM-184	Shroff, Kavisha	LCH-163
Petrusky, Olivia	LCH-157	Ryan, John	PM-165	Shu, Tony	PM-007
Pettinato, Davi	LCH-062	Ryder, Alexander	PM-308	Sia, Twan	AM-197
Pham, Linh	PM-093	Sabol, Alexander	PM-166	Siddiqui, Amina	AM-073
Phan, Duy	PM-219	Safder, Mansoor	AM-312	Siegel, Atara	AM-256
Phillips, Nathan	HS-322	Sahni, Nikhil	PM-222	Silva, Alexander	PM-313
Pillai, Daven	LCH-233	Sahni, Sahil	AM-185	Simon, Faith	LCH-164
Plata, Khem	LCH-183	Salamat, Kennedy	AM-179	Singh, Gurbani	AM-198
Porter, Shyneice	PM-094	Salas, David Jose	AM-186	Singh, Suprit	PM-045
Pourier, Robert	LCH-040	Saleem, Arhum	LCH-236	Sinha, Akrit	AM-179
Prasad, Siona	PM-162	Salgado, Harini	PM-188	Sisay, Bezawit	PM-227
Preston, Joshua	LCH-158	Salmeron, Bonita	LCH-042	Sisler, Sabra	LCH-298
Pritikin, Ethan	PM-163	Samadnejad, Atrine	LCH-160	Sistani-khanaman, Farideh	LCH-330
Qin, Nancy	AM-172	San Pablo, Angelo	PM-100	Slacin, Kathryn	PM-314
Quaid, Kara	PM-304	Sanchez, Stephanie	LCH-161	Smisson, Jonathan	AM-199
Raghu, Apurva	AM-173	Sandman-Long, Aidan	LCH-237	Smith, Allison	LCH-299
Rainwater, Peter	LCH-063	Sandon, Rodrigo	AM-187	Smith, Sophie	AM-257
Rajasekaran, Vignesh	LCH-116	Santapur, Pradith	PM-201, PM-223	Smith, William	AM-200
Rakheja, Rhea	PM-220	Santiago, Natalia	AM-280	Smith Fraser, Malcolm	PM-102
Raley, Robin	AM-174	Sapiro, Ellie	LCH-185	Sohn, Sooah	PM-170
Ramos, Leana	PM-095	Sardana, Nikhil	AM-328	Solomon, Samuel	LCH-064
Ramos Sánchez, Raúl	LCH-159	Sastry, Jayram	AM-281	Solomon, Talia	AM-301
Ramsey, Michael	LCH-320	Savsani, Esika	AM-282	Soman, Eshaan	AM-201
Ranganath, Kushi	PM-096	Schaffer, Daniel	AM-329	Song, Jerry	LCH-300
Rastegar, Cyrus	PM-305	Scheuing, Lisa	PM-167	Song, Justin	LCH-260
Raviv, Yuval	AM-175	Schito, Gabriella	AM-255	Spiekermann, Kevin	AM-202
		Schmitt, Sydney	LCH-295	Srinivas, Tara	LCH-165

MORNING SESSION	AM	9:00 AM-11:00 AM	AFTERNOON SESSION	PM	1:00 PM-3:00 PM
LUNCH SESSION	LCH	11:00 AM-1:00 PM	HiSTEP SESSION	HS	3:30 PM-4:30 PM

Srinivasa, BinduAM-284	Tong, AndrewPM-105	Williams, KaylynPM-049
Strour, MeredithAM-203	Toumbou, HawaLCH-188	Williams, MichaelAM-227
Stanton, AbigailPM-046	Trad, CatherineLCH-321	Wolfish, LeahLCH-244
Staskal, ElizabethLCH-121	Tran, BenjaminLCH-066	Wong, AlexanderPM-234
Stayer-Wilburn, OpalPM-315	Trilling, LauraAM-112	Wong, MaxwellPM-235
Stein, CodyPM-171	Truong, Gia ThinhLCH-167	Wong, MitchellAM-302
Stevens, MadisonPM-228	Tsintolas, JackAM-216	Wong, VanessaHS-326
Stewart, BrittanyAM-204	Tung, WesleyPM-178	Wood, TimothyLCH-263
Stewart, PeterAM-285	Tyner, MilesLCH-241	Woodgate, ScottLCH-069
Stidd, KelseyAM-258	Tyrluk, MichalLCH-123	Word, AnnaAM-228
Stocksdale, BrianLCH-044	Ukwuani, SomtoPM-034	Wu, BeverlyPM-325
Stone, MiraPM-062	Urbina, JulianAM-217	Wu, DanielAM-229
Strong, JenniferLCH-029, LCH-045	Valisharifabad, NinazPM-106	Wu, DavidPM-129
Subramaniam, CarolynAM-205	Van wicklin, CaitlinPM-231	Wu, JessicaAM-230
Subramanya, ArnavPM-189	Vanjoske, RachelPM-179	Wu, MaggieAM-231
Sullivan, TaylorLCH-261	Vargas, JoselinAM-259	Wu, QixinAM-232
Sun, CarolPM-316	Vargas, TadaPM-048	Wu, RichardLCH-171
Sun, EricAM-206	Vedantam, SameeraPM-232	Wynn, AlexandraLCH-303
Sun, GinnyPM-229	Velasquez, DanielaLCH-076	Xia, ClarissaAM-233
Sun, LillianLCH-314	Vemulakonda, PavanLCH-242	Xia, TinaPM-326
Sun, MitchellPM-317	Verdini, NicholasAM-218	Xiao, AmyLCH-264
Sun, NicholasPM-103	Verschleisser, SaraAM-219	Xie, JaneAM-234
Sun, PearlLCH-187	Vieira, JacobPM-180	Xu, JamesLCH-262
Suzuki, KosukePM-142	Vieta Ferrer, EmileAM-286	Yang, JahyunLCH-245
Svoysky, AbigailAM-207	Vigil, DeionnaPM-319	Yang, RobertLCH-210
Szajek, JustinLCH-065	Vippa, TarunPM-320	Yang, YiqiuPM-327
Szymanik, KaylaLCH-238	Vostal, LaurenLCH-124	Yasinova, AlinaLCH-304
Tabassum, MumtahinaHS-323	Wagner, JacobPM-080	Ybarra, TiffanyAM-303
Tadesse, YeabseraLCH-239	Walia, PreetAM-220	Yemane, TsionHS-327
Tafti, AminAM-208	Walker-Bawa, KatharineAM-221	Yendluri, AvanishAM-235
Tager, JuliaAM-209	Walter, EmmaLCH-331	Yeo, HwiLCH-126
Taginya, RoxanaPM-104	Walters, DeanLCH-067	Yi, AndrewLCH-189
Tai, MichelleLCH-122	Wang, AliciaLCH-243	Yim, AngelaPM-328
Taitague, JaenaPM-172	Wang, BrandonPM-008	Yin, ChristopherPM-182
Takeuchi, RyokoAM-313	Wang, ChaoyangAM-222	Yin, JessicaAM-314
Takla, ChristinaLCH-315	Wang, EricLCH-125	Yoon, EstherPM-329
Talusan, SimonHS-324	Wang, GracePM-233	Yossa Nganpe, OrnelaAM-236
Talwar, ShivaniLCH-301	Wang, HannahPM-321	Young, DemarriusLCH-172
Tan, JenniferLCH-046	Wang, LouisLCH-262	Yuan, BerwinLCH-332
Tang, AlanPM-318	Wang, RonaldPM-322	Zeng, QingcongAM-315
Tao, ChristopherAM-210	Wang, SabrinaLCH-168	Zhang, AolinLCH-246
Taukulis, IanLCH-302	Warburton, AnneAM-263	Zhang, ArielLCH-265
Taylor, JillLCH-166	Warshawsky, HannahAM-223	Zhang, ChenyuLCH-127
Tchanga Betnji, LionellePM-173	Watson, ChandlerAM-331	Zhang, DerekPM-183
Tebase, BethelihemAM-211	Wein, PerelAM-224	Zhang, HelenAM-237
Teng, RujiaPM-174	Weiner, MollyPM-323	Zhang, HenryLCH-173
Tepede, AishatAM-212	Weiser-Schlesinger, AndieLCH-048	Zhang, MeganLCH-174
Terrell, WilliamLCH-240	Weiss, KaliLCH-169	Zhao, AnnieAM-332
Terse, PranayaAM-213	Wen, WilliamLCH-170	Zhao, JackAM-316
Teshome, SamuelHS-325	Weng, RayLCH-049	Zheng, KevinLCH-305
Thakur, KishaPM-047	Westlake, TimothyAM-225	Zhong, AmyAM-238
Thapar, SabrinaLCH-047	Weyant, AutumnLCH-050	Zhou, IsabelleLCH-247
Thepmankorn, ParisaPM-175	Whitehill, BrookeLCH-068	Zhu, AliceLCH-128
Thepmankorn, ParisornPM-176	Whitten, ConnerPM-324	Zhu, JenniferAM-287
Thomas, AshlynLCH-190	Wicker, Jr., CarltonPM-252	Zhu, KevinPM-236
Thota, ManaswithaPM-177	Widemann, LeaAM-226	Zic, SophiaAM-317
Tisdale, GarrettAM-214	Will, EdwardPM-181	
To, LeannAM-215	Williams, CharisLCH-316	
Tompkins, ZoePM-230	Williams, IshmaelAM-260	

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