

NIH SUMMER RESEARCH PROGRAM POSTER DAY - JULY 29, 2016

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|-------------------|-----|------------------|
| 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 |

| SESSION | INSTITUTE OR CENTER | POSTER NUMBER |
|---------|--|---------------|
| AM | Clinical Center (CC) | 1-49 |
| AM | National Center for Advancing Translational Sciences (NCATS) | 50-62 |
| AM | National Institute of Allergy and Infectious Diseases (NIAID) | 63-137 |
| AM | National Institute of Dental and Craniofacial Research (NIDCR) | 138-159 |
| AM | National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) | 160-231 |
| AM | National Institute of Neurological Disorders and Stroke (NINDS) | 232-314 |
| LCH | Center for Information Technology (CIT) | 1-3 |
| LCH | National Center for Complementary and Integrative Health (NCCIH) | 4-10 |
| LCH | National Eye Institute (NEI) | 11-40 |
| LCH | National Human Genome Research Institute (NHGRI) | 41-81 |
| LCH | National Heart, Lung, and Blood Institute (NHLBI) | 82-134 |
| LCH | National Institute on Aging (NIA) | 135-151 |
| LCH | National Institute of Biomedical Imaging and Bioengineering (NIBIB) | 152-165 |
| LCH | <i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development (NICHD) | 166-223 |
| LCH | National Institute on Drug Abuse (NIDA) | 224-242 |
| LCH | National Institute on Deafness and Other Communication Disorders (NIDCD) | 243-253 |
| LCH | National Institute of Mental Health (NIMH) | 254-300 |
| LCH | National Institute on Minority Health and Health Disparities (NIMHD) | 301-302 |
| LCH | National Institute of Nursing Research (NINR) | 303-313 |
| PM | National Cancer Institute (NCI) | 1-241 |
| PM | National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG) | 242-268 |
| PM | National Institute on Alcohol Abuse and Alcoholism (NIAAA) | 269-283 |
| PM | National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) | 284-298 |
| PM | National Institute of Environmental Health Sciences (NIEHS) | 299 |
| PM | National Library of Medicine (NLM) | 300-312 |
| PM | Office of the Director (OD) | 313-314 |

NOTE: the complete program for Summer Poster Day 2016, including poster titles, can be found at https://www.training.nih.gov/assets/2016_Summer_Poster_Day_Program.pdf.

NIH Summer Internship Program – Poster Day 2016

Cinical Center (CC)

AM-001. Natalia Alexandridi

Improved Accuracy of Automatic Patellofemoral Segmentation from 3D Magnetic Resonance Images Using Guided Recursive Ray Tracing

State University of New York at Buffalo (New York)

Preceptors: Dr. Frances Gavelli, Dr. Ruida Cheng

AM-002. Shaina Alvarez

Prescription Assistance Program: Ensuring Access to Affordable Medication

University of Maryland, Baltimore School of Social Work (Maryland)

Preceptors: Ms. Lynn Hardesty LCSW-C, BCD, Ms. Kathy Baxley MHA, MBA, LICSW, LCSW

AM-003. Daniel Amchin

Drug-Dose Distribution in Liver Following Chemoembolization with Image-Able Beads

University of Southern California (California)

Preceptors: Dr. Andrew Mikhail, Dr. Bradford Wood

AM-004. Vanisha Amin, Skyler Bordeaux

Validation of OPAL against GAITrite to assess gait parameters in typically developing children

University of Michigan - Ann Arbor (Michigan), Fort Lewis College (Colorado)

Preceptor: Dr. Minal Jain

AM-005. Dhanya Asokumar

Assessment of Novel TRPV1 Capsaicinoid Analogs

University of Chicago Laboratory Schools (Illinois)

Preceptors: Dr. Michael Iadarola, Ms. Danielle Lapaglia, Dr. Andrew Mannes

AM-006. Christina Badaracco

Location of food preparation and dietary composition among African immigrant, African American, and White American women

University of California, Berkeley (California)

Preceptors: Dr. Amber Courville, Ms. Shanna Bernstein

AM-007. Priscilla Badu

Role of Ebolavirus Proteins in Viral Mediated Lymphocyte Apoptosis

Harvard University (Massachusetts)

Preceptors: Dr. Daniel Chertow, Mr. Jason Kindrachuk

AM-008. Dalton Bermudez

The Quality of CT-based Attenuation Correction in SPECT/CT Clinical Images

City College of New York - Grove School of Engineering (New York)

Preceptors: Dr. Ali Civelek, Dr. Roberto Maass-Moreno

AM-009. Cornell Brooks

Analysis of the Relative Expression of FLT3 and FLT3LG in Cell Lines Transfected with microRNA and GATA2

Amherst College (Massachusetts)

Preceptors: Dr. Katherine Calvo, Dr. Weixin Wang, Mr. Eri Anastas

AM-010. Brian Cone

Determining the relationship between muscle synergies and kinematic-based complexity measures during gait

University of North Carolina (North Carolina)

Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

AM-011. Derick Ekekwe

Conditions that may impair cognitive development in pediatric sickle cell patients

Towson University (Maryland)

Preceptors: Mrs. Mary Myers, Dr. Paul Wong, Mrs. Diane Lawrence

AM-012. Laura Felix

Effects of ionizing radiation on genomic variance in metastatic prostate cancer cells (DU 145)

Thomas More College (Kentucky)

Preceptors: Dr. Igor Panyutin, Dr. Irina Panyutin, Mr. Ian Powell-Castilla, Dr. Ronald Neumann

AM-013. Julia Fink

Expression and Characterization of the Pneumocystis murina a Factor Pheromone Receptor

University of Southern California (California)

Preceptors: Ms. Lisa Bishop, Dr. Joseph Kovacs

AM-014. Sarah Fortna

Role of Neurosteroids in Mood Disorders Associated with Menopause

Cornell University (New York)

Preceptors: Dr. Steven Soldin, Mr. Brian Stolze

AM-015. Nikhil Goyal

First NIH Clinical Center Experience Replacing Handwritten RECIST Forms with Digital Data Management - a Technical Approach to an Antiquated Practice

University of Maryland, College Park (Maryland)

Preceptor: Dr. Les Folio

AM-016. Spencer Grissom

Car Surface Density Analysis on T Cells and Correlation with Clinical Outcome in Patients with B-ALL

Clarksburg High School (Maryland)

Preceptors: Dr. Steven Highfill, Dr. David Stroncek

AM-017. Sabrina Guedes, Ju Yeon Lee

The Development and Analysis of Haloperidol Capsules for Neuropsychiatric Patients

Richard Montgomery High School (Maryland), Korean Minjok Leadership Academy (Non-U.S.)

Preceptors: Mr. Ram Agarwal, Dr. Peng Yuan, Mrs. Deborah Sperling

AM-018. Uyen Hoang

Computer Aided Kidney Tumor Characterization using Multi-Spectrum MRI and Machine Learning.

San Diego State University (California)

Preceptor: Dr. Jack Yao

AM-019. Jon Hochstein

Development of a Portable Robotic Exoskeleton Control System for Cerebral Palsy Patients Presenting Crouch Gait

Johns Hopkins University (Maryland)

Preceptors: Dr. Diane Damiano, Dr. Thomas Bulea, Dr. Zachary Lerner, Dr. Robert Lutz

AM-020. ChaKaria Hunter

Sensor-less Trans-perineal Fusion Guided Prostate Biopsy Device Using a Phase Changing Continuum Manipulator

University of Georgia (Georgia)

Preceptors: Dr. Reza Seifabadi, Dr. Brad Wood

AM-021. Patrick Jensen

Material Decomposition in Photon Counting Computed Tomography

University of Chicago (Illinois)

Preceptors: Dr. Amir Pourmorteza, Mr. Tyler Cork, Dr. Manu Lakshmanan, Dr. David Bluemke

AM-022. Claire Kaiser

Comparison of Novel CAD System, Reader-based Study, and Histopathology, for Volumetric Analysis of Prostate Cancer Lesions in High Risk Populations

University of Rochester (New York)

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

AM-023. Lei (Linda) Kang

Increasing Understanding of Postictal Psychosis

University of Pennsylvania (Pennsylvania)

Preceptors: Ms. Diane Lawrence, Dr. Paul Wong, Ms. Mary Myers

AM-024. Nicole Leggiro

Comparison of Quantitative Muscle Analysis (QMA) Testing Techniques for Hip Extension
Towson University (Maryland)
Preceptor: Mr. Joe Shrader

AM-025. Hillary Liu

Effect of ionizing radiation on the proliferation of hESCs and their competition with non-irradiated cells
University of Virginia (Virginia)
Preceptors: Dr. Irina Panyutin, Dr. Igor Panyutin, Dr. Ronald Neumann

AM-026. Jacob Martin

Understanding Depression in Patients Diagnosed with Cushing's Disease
Clemson University (South Carolina)
Preceptors: Dr. Paul Wong, Mrs. Mary Myers, Mrs. Diane Lawrence

AM-027. Danielle Martinez-McCormack

Using Business Intelligence to Enhance Total Quality Management
Wharton School of University of Pennsylvania (Pennsylvania)
Preceptors: Mrs. Norma Street, Dr. Andrew Mannes

AM-028. Latonia Miller

Dysregulated JNK signaling contributes to the anti-apoptotic phenotype of BMP2-silenced endothelial cells
Howard University College of Medicine (District of Columbia)
Preceptors: Dr. Keytam Awad, Dr. Robert Danner

AM-029. Erin Mistretta

Spirituality in women with HIV: A look at the HEALS questionnaire
Catholic University of America (District of Columbia)
Preceptors: Dr. Danetta Sloan, Dr. Ann Berger

AM-030. Chase Morgan

Characterization of CRISPR/Cas9-mediated IQGAP1 knockout human cell lines
Columbia University (New York)
Preceptors: Dr. Andrew Hedman, Dr. David Sacks

AM-031. Megan Morley

The Effects of Granulocyte Donation in Healthy Volunteers on Bone Mineral Density and Renal Function
Clemson University (South Carolina)
Preceptors: Dr. Cathy Cantilena, Dr. Kamille West, Ms. Yu Ying Yau, Ms. Sarah Pogue

AM-032. Trileena Myles

Providing Visa Extension Services for Non-Immigrant Clinical Center Patients and Patient Support

West Virginia University (West Virginia)

Preceptors: Ms. Lynn Hardesty, Ms. Kathy Baxley

AM-033. Chisomam Osuji

The Utility of Information in Clinical Research Protocols in Constructing Likelihoods of Clinical Problems Found in the Electronic Health Record

Columbia University (New York)

Preceptor: Dr. David Herion

AM-034. Mallory Perper

Patient Tray Accuracy Can Be Increased Through Strategic Process Improvement Efforts

University of Georgia (Georgia)

Preceptors: Mr. John Palino, Mr. David Folio, Mrs. Laura Cramp, Mrs. Anita Bailey

AM-035. Benjamin Pesante

Quantification of Delayed Hand Relaxation Time in Patients with Muscular Dystrophy

The Catholic University of America (District of Columbia)

Preceptors: Mr. Andrew Gravunder, Dr. Thomas Bulea

AM-036. Hope Peterson

Concurrent Validity of the Rey Tangled Line Test in TBI

Wake Forest University (North Carolina)

Preceptors: Ms. Shannon McNally, Dr. John Dsurney, Dr. Leighton Chan

AM-037. Kristin Peterson, Jennifer Tan

Zika, Dengue and Chikungunya Virus Assays: RT-PCR and Multi-Pathogen Chip Validation in a Study of Blood Transfusion-Transmission Risk Among Travelers (16-CC-0124)

Sidney Kimmel Medical College at Thomas Jefferson University (Pennsylvania), University of California, Berkeley (California)

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

AM-038. Christian Quiros

Where's the B.E.A.F.: The Development of the NIH Clinical Center's Budget Execution and Formulation Database

University of Pittsburgh (Pennsylvania)

Preceptor: Mr. Juris Mohseni

AM-039. Thomas Risoleo, Andie Weiser-Schlesinger

Development of an Isolated Lung Perfusion System and Model of Lung Injury

Maret School (District of Columbia), Livingston Senior High School (New Jersey)
Preceptors: Dr. Steve Solomon, D. Cui Xizhong, Ms. Victoria Xu

AM-040. Amil Sahai

Application of Diffusion Weighted Imaging in Characterization of Hereditary Renal Cell Cancers
University of Maryland, College Park (Maryland)
Preceptor: Dr. Ashkan Malayeri

AM-041. Ashley Santamarina

Mathematical modeling of 18Fluorodeoxyglucose uptake for improved clinical risk stratification: Tracer kinetics vs spatial resolution
Catholic University of America (District of Columbia)
Preceptors: Dr. Mark Ahlman, Dr. Roberto Maass-Moreno

AM-042. Sachein A R Sharma

IL-6 Receptor Expression in Bone Marrow Myeloid and Lymphoid Cell Lineages
University of Texas Health Science Center McGovern Medical School (Texas)
Preceptors: Dr. Irina Maric, Mrs. Jamie Hahn-Ellis

AM-043. Ethan Smith, Dhanya Asokumar, Noah van Ekdorn

Transcriptomic profiling after selective ablation of TRPV1+ neurons in human and veterinary clinical trials for pain control.
University of Toronto (Non-U.S.), University of Chicago Laboratory Schools (Illinois), Colorado College (Colorado)
Preceptors: Dr. Matthew Sapio, Dr. Michael Iadarola, Dr. Andrew Mannes

AM-044. Charlotte Story

Preliminary Assessment of Urinary Free Thyroid Metabolites in Select Clinical Scenarios
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Steven Soldin, Mr. Brian Stolze

AM-045. Xiangliang Sui

Clinical Center Service Center and Clinical Center Desktop Support Metrics of the Department of Clinical Research Informatics
Winston Churchill High School (Maryland)
Preceptor: Mr. Bertram Brown

AM-046. Kirsten Turnbull

Evaluating the Effectiveness of E-Strategies in Research Volunteer Enrollment
Boston University (Massachusetts)
Preceptors: Ms. Dinora Dominguez, Ms. Ingrid Frey

AM-047. Noah van Ekdorn

Transcriptomic Profiling of Halogenated Anesthesia and Electroconvulsive Shock in Rat Frontal Lobe and Hippocampus

Colorado College (Colorado)

Preceptors: Dr. Andrew Mannes, Dr. Michael Iadarola, Dr. Matthew Sapio

AM-048. Amanda Weerasooriya

An fMRI investigation of cortical activation during imagined walking in adults with traumatic brain injury

University of Maryland, College Park (Maryland)

Preceptors: Dr. Diane Damiano, Dr. Silvina Horovitz

AM-049. Robert Weinstein

Suitability of MR-HIFU for treatment of liver tumors: A retrospective study

Vanderbilt University (Tennessee)

Preceptor: Dr. Navid Farr

National Center for Advancing Translational Sciences (NCATS)

AM-050. Rohith Battina

Identifying Differentiating Compounds in Melanoma

University of Maryland, College Park (Maryland)

Preceptors: Mr. Christopher Dextras, Dr. Marc Ferrer

AM-051. Carina Danchik

Characterizing Small Molecule Inhibitors of ALDH1A1 by Establishing High Throughput Cell-based Assays

Franciscan University of Steubenville (Ohio)

Preceptor: Dr. Natalia Martinez

AM-052. David Greenblott

The Total Synthesis of Stable DHA Analogs for the Treatment of Neurodegenerative Diseases

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Mr. Raul Calvo, Dr. Juan Marugan, Dr. Madhu Lal

AM-053. Jessica Hall

Development of an AlphaLISA proximity assay to identify small molecule inhibitors of the ASAP1-Arf1 interaction from high-throughput screens

Wake Forest University (North Carolina)

Preceptors: Dr. Matthew Hall, Dr. Paul Randazzo, Dr. Nathan Coussens

AM-054. William Kuenstner

Miniaturization and Optimization of a Fluorescence Polarization Assay to Interrogate a Protein-Peptide Interaction

Wake Forest University (North Carolina)
Preceptors: Mr. Adam Yasgar, Dr. Bolormaa Baljinnyam

AM-055. Allen Kuncheria

Development of QSAR Models to Predict the Promising Compounds Against Different Cancer Cell Lines

Adlai E. Stevenson High School (Illinois)
Preceptors: Mr. Dac-Trung Nguyen, Dr. Alexey Zakharov

AM-056. Delaney Lehmann

Identification of Novel Small Molecule Inhibitors of PMP22 for the Treatment of CMT1A

Hillsdale College (Michigan)
Preceptors: Ms. Diane Luci, Dr. David Maloney

AM-057. Christopher Look

Text Mining and Protein Sequence Analysis for Protein-Protein Interaction Prediction

Pooesville High School (Maryland)
Preceptors: Mr. Dac-Trung Nguyen, Dr. Alexey Zakharov, Dr. Rajarshi Guha

AM-058. Michael Lu

Evaluation of pharmacological effect of different cyclodextrins on cholesterol reduction in NPC1 cells

University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Sheng Dai, Dr. Wei Zheng

AM-059. Jacob Roth

Optimizing the Cellular Thermal Shift Assay to Validate Target Engagement in Cancer Drug Development

Goshen College (Indiana)
Preceptors: Mr. Tobie Lee, Dr. Ken Cheng, Dr. Matthew Hall

AM-060. Samuel Solomon

The Development of a High Throughput Assay for Acetylcholinesterase

Charles E. Smith Jewish Day School (Maryland)
Preceptors: Dr. Shuaizhang Li, Dr. Ruili Huang, Dr. Menghang Xia

AM-061. Maxime Usdin

Molecular Modeling in Drug Development: From Dual Inhibitors to Stabilized Helical Peptides

Northwestern University (Illinois)
Preceptors: Dr. Ashish Thakur, Dr. Germit Grewal, Dr. Greg Tawa

AM-062. Brooke Whitehill

Utilizing CRISPR-Cas9 Technology to Regulate alpha-Synuclein Expression in SH-SY5Y Cells.

Franciscan University of Steubenville (Ohio)
Preceptors: Dr. Mark Henderson, Ms. Elizabeth Cunningham

National Institute of Allergy and Infectious Diseases (NIAID)

AM-063. Rachel Alexander, Ashlyn Thomas

Reproductive Fitness of Phlebotomine Sand Flies Maintained at Different Temperatures
Thomas Jefferson High School for Science and Technology (Virginia), Chantilly High School (Virginia)

Preceptors: Dr. Kashinath Ghosh, Dr. David Sacks

AM-064. Shira Anton

Role of T cell receptor C beta domain in allosteric signaling
Florida international university (Florida)

Preceptors: Dr. David Margulies, Dr. Kannan Natarajan

AM-065. Assanatou Bamogo

Assessment of the functionality and stability of Prefusion RSV F (DSCAV1) glycoprotein variants

University of Central Florida (Florida)

Preceptors: Dr. Barney Graham, Dr. Azad Kumar, Dr. Syed Moin, Ms. Joan Ngwuta

AM-066. Alyson Barnes

Sequence Analysis of Anti-Ebola B-Cell Receptors

University of Virginia (Virginia)

Preceptors: Dr. Nancy Sullivan, Dr. John Misasi, Dr. Kendra Leigh

AM-067. Sawyer Bawek

Development of a control replication-deficient adenoviral vector vaccine for future pre-clinical evaluation of malaria vaccine candidates

Upper Iowa University (Iowa)

Preceptors: Mrs. Holly Torano, Dr. Shaji Daniel, Mr. Munir Buhaya, Dr. Patrick Duffy

AM-068. Brittany Brookner

Detection and Analysis of the Binding of Fluorescence-Tagged Norovirus VLPs to Human Cell Lines

Carleton College (Minnesota)

Preceptors: Dr. Eric Levenson, Dr. Stanislav Sosnovtsev, Dr. Kim Green

AM-069. Victoria Brooks

Differential responses of STAT3-deficient human keratinocytes to external stimuli

Howard University (District of Columbia)

Preceptors: Dr. Inka Sastalla, Dr. Sandip Datta

AM-070. Ben Cabrera

Evaluating MERS Coronavirus Full-length Spike protein Vaccination in Mice

James Hubert Blake High School (Maryland)

Preceptors: Dr. Kizzmekia Corbett, Dr. Barney Graham

AM-071. Binh Cao

Effect of IFIT1 Entry into Nucleus in Toll-like Receptor Activated Gene Expression

West Valley - Mission College (California)

Preceptors: Dr. Iain Fraser, Dr. Sinu John

AM-072. Julia Casazza

Quantification of Mycobacterium bovis BCG Using Real-time PCR (rtPCR)

Princeton University (New Jersey)

Preceptors: Dr. Tricia Darrah, Dr. Robert Seder

AM-073. Christian Chapman

Cellular Evaluation of B Cell Proliferation of Non-CTLA4 Deficient Human Subjects

Northern Virginia Community College (Virginia)

Preceptors: Dr. Steven Holland, Dr. Su Hua, Dr. Gulbu Ouzel, Mr. Anuj Kashyup

AM-074. Elizabeth Chen

Inhibitory Receptors on Peripheral Blood Eosinophils: Expression and Regulation of Siglec-7 and Siglec-8

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Fanny Legrand, Dr. Amy Klion

AM-075. Justin Cheung

Structural Optimization of Small Molecule Immunostimulants that Mediate Clearance of Established Tumors

Stony Brook University (New York)

Preceptors: Dr. Geoffrey Lynn, Dr. Neeha Zaidi, Dr. Robert Seder

AM-076. Elim Cho

Transplantation of human skin microbiota in models of atopic dermatitis

Williams College (Massachusetts)

Preceptors: Dr. Ian Myles, Dr. Sandip Datta

AM-077. Charlotte Costello

Analysis of Differential Glycosylation of Anti-Ebola Antibody KZ52

University of Maryland, College Park (Maryland)

Preceptors: Dr. Nancy Sullivan, Dr. John Misasi, Dr. Kendra Leigh

AM-078. Kevin Crosby

Transcriptional modification and its role in autophagic control of Cryptococcus neoformans viability

Prince George's Community College (Maryland)

Preceptors: Dr. Guowu Hu, Dr. Peter Williamson

AM-079. Jack crow

Elucidating Salivary Protein Function in Disease-carrying Arthropods

Kenyon College (Ohio)

Preceptors: Dr. Eric Calvo, Dr. Ines Martin-Martin, Dr. Jose Ribeiro

AM-080. Jianne De Raya

Recombinant Production, Refolding, Purification, and Biophysical Characterization of the G3/L5 Subunit from the Vaccinia Virus Entry-Fusion Complex

Mount St. Mary's University (Maryland)

Preceptor: Dr. Ulrike Diesterbeck

AM-081. Duyhoang Dinh

High Throughput Measurement of Antibodies Against Various Infectious Agents in HIV-Infected Ugandans

University of Maryland, College Park (Maryland)

Preceptors: Dr. Krystelle Nganou-Makamdop, Dr. Daniel Douek

AM-082. Nathaniel Dwyer

Functional Characterization of New STAT1 Gain-of-Function Mutations

Walt Whitman High School (Maryland)

Preceptors: Dr. Elizabeth Sampaio, Dr. Li Ding, Dr. Steven Holland, Dr. Steven Holland

AM-083. Alexander Feistritzer

Comparison of Quantification Tools in Label-Free Proteomics

University of Chicago (Illinois)

Preceptor: Dr. Lisa Olano

AM-084. Emilie Fisher

Contribution of PMT, a toxin exporter, to Staphylococcal pathogenesis

Scripps College (California)

Preceptors: Mr. Joshua McCausland, Dr. Gordon Cheung, Dr. Michael Otto

AM-085. Meheret Gebreegziabher

Relationship between expression of glucocorticoid receptor isoforms and glucocorticoid resistance in HES

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Kindra Stokes, Dr. Amy Klion, Dr. Paneez Khoury, Ms. Priscilla Yoon

AM-086. Stephanie Golub

Understanding the Unfolded Protein Response in Recombinant CHO Cell Lines

Johns Hopkins University (Maryland)

Preceptors: Dr. Althaf Hussain, Dr. Venkata Mangalampalli, Dr. Hussain Dahodwala, Dr. Richard Schwartz

AM-087. Adam Goodwin

Using bacterial infections to control Leishmaniasis

California Baptist University, College of Engineering (California)

Preceptors: Dr. Luiz Oliveira, Dr. Jesus Valenzuela

AM-088. Kira Griswold

Host Factors for Respiratory Syncytial Virus

University of Maryland, College Park (Maryland)

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

AM-089. Sarah Harrison

Investigating the Association Between Non-Pathogenic and Pathogenic Intestinal Protozoa in a Heavily Parasitized Burmese Refugee Population

University of Notre Dame (Indiana)

Preceptor: Dr. Elise O'Connell

AM-090. Travis Henke

Elucidating synergistic and antagonistic effects between B cell receptors and various toll-like receptors

Portland State University (Oregon)

Preceptors: Dr. Munir Akkaya, Dr. Susan Pierce

AM-091. Francisco Hernandez

Identification of Genomic and Nutrient Transporter Mechanisms Involved in Heightened Virulence of Fungal Infection

Charter School of Wilmington (Delaware)

Preceptor: Dr. Sarah Davis

AM-092. Isabel Hsu

N-Terminal Sulfation Switches Binding Profile Between Ccr1 and Ccr1L1

Princeton University (New Jersey)

Preceptors: Dr. Sergio Pontejo, Dr. Philip Murphy

AM-093. Lutfi Huq

Using IgA-seq, IgG-seq and 16s rRNA Amplification to Identify HIV-Associated Immunostimulatory Gut Bacteria.

Cornell University (New York)

Preceptors: Dr. Yasmine Belkaid, Dr. Ivan Vujkovic-Cvijin

AM-094. Christopher Isaac

Comparing Different CD4 Positive T Cell Purification Techniques for Induced Treg (iTreg) Differentiation Efficiencies and Suppression Abilities

Montgomery Blair High School (Maryland)

Preceptors: Dr. Billur Akkaya, Dr. Ethan Shevach

AM-095. Bobby Jones

ClonePix seeding optimization for generation of clonal CHO cell lines for vaccine development

Meharry Medical College (Tennessee)

Preceptors: Dr. Elizabeth Scheideman, Dr. Althaf Hussain, Dr. Richard Schwartz

AM-096. Barbora Kabatova

Genetic Stability of Packaged and Pre-fusion Stabilized Respiratory Syncytial Virus Fusion Glycoprotein in a Bivalent Live Attenuated Parainfluenza Type 3 Vectored Vaccine

University of Maryland School of Pharmacy (Maryland)

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

AM-097. Emily Kaplan

Phase I Challenge Study of Healthy Adult Volunteers with Respiratory Syncytial Virus

Yale University (Connecticut)

Preceptor: Dr. Lesia Dropulic

AM-098. Jay Khurana

Using the Placental Malaria Variant Antigen Gene VAR2CSA as a Model for Assembling Polyclonal Sequences

Brown University (Rhode Island)

Preceptors: Dr. Patrick Duffy, Mr. Bob Morrison

AM-099. Jonathan Kim

Cryptococcal Meningitis: A Novel Phenotype Discovered with an X-linked Mutation Affecting the NF- κ B Essential Modulator (NEMO)

Davidson College (North Carolina)

Preceptor: Dr. Anil Panackal

AM-100. David Le

Development of Absolute Protein Quantification Assays for Poly(ADP-ribose) Polymerases and Glycohydrolases

Baylor University (Texas)

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

AM-101. Haoran Li

C2GAP2 Mediates Ras Signaling and is Essential for Chemotaxis in Dictyostelium discoideum
Winston Churchill High School (Maryland)
Preceptors: Dr. Xuehua Xu, Dr. Xi Wen, Dr. Tian Jin

AM-102. Laren Lofchy

Characterization of High Concentration Monoclonal Antibody Formulations Using Diffusion Interaction Parameter
University of Michigan (Michigan)
Preceptors: Dr. Sashikanth Banappagari, Dr. Lisa Kuelczo

AM-103. Gina LoMastro

Exploration of Norovirus virus-like particles as a platform for a placental malaria vaccine.
Cornell University (New York)
Preceptors: Dr. Nicholas MacDonald, Dr. David Narum, Mr. Vu Nguyen, Mr. Raul Herrera

AM-104. Matthew Marino

Exploring the Phosphorylation Sites of MARCKS in the LPS Induced Toll-Like Receptor 4 Signaling in Macrophages.
Jonathan Law High School (Connecticut)
Preceptors: Dr. Aleksandra Nita-Lazar, Mr. Sebastian Montalvo

AM-105. Sean McNeely

An Immunofluorescence Microscopy Assay for Granulibacter bethesdensis in Fixed Tissue Samples
Bethesda - Chevy Chase High School (Maryland)
Preceptors: Dr. Kol Zarembek, Dr. John Gallin

AM-106. Kaela Mohardt

*Identifying the DNA binding motif of essential two-component system *prxAB* in Mycobacterium tuberculosis*
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Gareth Prosser, Dr. Helena Boshoff, Dr. Clifton Barry

AM-107. Matthew Myers

Agent-based Modeling of Damage Propagation in Traumatic Brain Injury
University of Maryland, College Park (Maryland)
Preceptors: Dr. Martin Meier-Schellersheim, Dr. Dorian McGavern, Dr. Bastian Angermann

AM-108. Sky Myers

Immunogenicity of Group 2 hemagglutinin stabilized-stem nanoparticles
Spelman College (Georgia)
Preceptors: Dr. Syed Moin, Dr. Barney Graham

AM-109. Bergeline Nguemwo Tentokam

Impact of viral antigen on half-time of Anti Ebola Virus antibody

Georgia State University (Georgia)

Preceptors: Dr. Nancy Sullivan, Mr. Carr Derrick, Dr. Aurelie Ploquin, Dr. Olivier Mbaya

AM-110. Quang Nguyen

HIV RNA Alternative Splicing: The Effect of CD4 Down-Regulation during Early Acute HIV-1 Infection

Duke University (North Carolina)

Preceptors: Dr. Joseph Casazza, Dr. Richard Koup

AM-111. Kyra Nicholson

Identification of Quaternary-Specific Influenza Hemagglutinin Stem Antibodies

Southern Illinois University School of Medicine (Illinois)

Preceptors: Dr. Barney Graham, Dr. Masaru Kanekiyo, Dr. Rebecca Gillespie, Dr. Sarah Andrews

AM-112. Lauren Norris

Charting the Life Cycle of Artemisinin-resistant Plasmodium falciparum

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Ms. Kimberly Faldetta, Dr. Amanda Hott, Dr. Rick Fairhurst

AM-113. Cynthia Okoye

Assessing Cross-Resistance of Malaria Parasites to Electron Transport Chain Inhibitors

Williams College (Massachusetts)

Preceptors: Dr. Kristin Lane, Dr. Thomas Wellems

AM-114. Bryan Peacker

Characterization of Murine Monocyte Response to Toxoplasma gondii

Harvard University (Massachusetts)

Preceptors: Dr. Dragana Jankovic, Dr. Alan Sher

AM-115. Natalia Perez

Use of Luciferase Immunoprecipitation Systems (LIPS) Assay to Detect Allergen-specific IgE

Georgetown University (District of Columbia)

Preceptors: Dr. Adora Lin, Dr. Thomas Nutman

AM-116. Ian Peters

Use of Diagnostics in Malaria Clinical Trials

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sara Healy, Dr. Agnes Mwakingwe, Mrs. Jacquelyn Lane

AM-117. Elisheva Prero

T-Cell Receptor-induced ASCT2 Expression in Atopic Dermatitis

Bros Yisroel of Baltimore (Maryland)

Preceptor: Dr. Joshua Milner

AM-118. Bowen Ren

The Impact of a V3 loop Deletion on the Antigenicity of the V1/V2 Domain of a Subtype E HIV gp120 Glycoprotein

Richard Montgomery High School (Maryland)

Preceptor: Dr. Jim Arthos

AM-119. Yvette Robbins

Optimizing Plasmodium chabaudi chabaudi AS (Pcc AS) Sporozoite production using C57BL/6 as host and A. stephensi as vector

North Carolina Agricultural and Technical State University (North Carolina)

Preceptors: Dr. Patrick Duffy, Mr. Solomon Conteh

AM-120. Launick Saint-Fort

Developing a multi-locus, multiplex typing scheme for detecting population genetics in cryptosporidium.

Pennsylvania State University - Berks Campus (Pennsylvania)

Preceptors: Dr. Asis Khan, Dr. Michael Grigg

AM-121. Erick Salvador Rocha

Searching for Markers of Exposure to Assess the Efficacy of Vector Control Interventions

Miami Dade College (Florida)

Preceptors: Dr. Maha Abdeladhim, Dr. Jesus Valenzuela

AM-122. Emily Schneider

Towards a Cure for WHIM Syndrome: Preferential Engraftment of CXCR4 Haploinsufficient Hematopoietic Stem Cells

Princeton University (New Jersey)

Preceptors: Dr. Philip Murphy, Dr. Ji-Liang Gao, Ms. Erin Yim

AM-123. Samhita Sengupta

Evaluating the Binding of Broadly Neutralizing anti-HIV-1 Antibodies to Human and Rhesus Neonatal Fc Receptors

University of Maryland, College Park (Maryland)

Preceptor: Dr. Amarendra Pegu

AM-124. Kush Shanker

Using Nucleic Acid Amplification Tests (NAAT) to Determine the Relative Risk of Tuberculosis Transmission

Monta Vista High School (California)

Preceptors: Dr. Lori Dodd, Dr. Yingda Xie

AM-125. Julia Sheehan

Persistent Aminotransferase Elevations following HCV Clearance in Adults with and without HIV

Northeastern University (Massachusetts)

Preceptors: Dr. Colleen Hadigan, Ms. Louisa Howard

AM-126. Sonia Shenoi

Validation of Liver Proteomics through Western Blot Analysis

Scripps College (California)

Preceptors: Dr. Michal Fried, Dr. Brittany Pease

AM-127. Harsh Singh

Computational approaches in determining the epitopes of Malarial proteins

Landon School (Maryland)

Preceptor: Dr. Michael Dolan

AM-128. Kritika Singh

The expression of gametocyte regulatory genes in in vivo malaria infections in the wet and dry seasons in Kenioroba, Mali

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Carole Long, Dr. Yaw Adomako-Ankomah

AM-129. Sonali Srivastava

Cytoadherence Inhibitory Activity of IgG Depleted Plasma in Placental Malaria

Cornell University (New York)

Preceptors: Dr. Justin Y. A. Doritchamou, Dr. Patrick Duffy

AM-130. Karthikeyan Sundar

Evaluation of the viral quasispecies in mononuclear cells isolated from the brains of SIV infected rhesus macaques

University of Maryland, College Park (Maryland)

Preceptors: Dr. Cheri Lee, Dr. Vanessa Hirsch

AM-131. Chantal Uwiringiyimana

The Evaluation of Transmission Blocking Vaccines

Arizona State University (Arizona)

Preceptors: Dr. Patric Duffy, Dr. Camila Coelho

AM-132. Tina Vaziri

Post-transcriptional Regulation of IL1beta by Colonic Macrophages

Johns Hopkins University (Maryland)

Preceptors: Dr. Brian Kelsall, Dr. Byunghyun Kang

AM-133. Shavonn Whiten

Putative Adult Female Aedes aegypti Midgut Peritrophic Matrix Proteins: Expression, Purification, and Gene Expression Profiling

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Eric Calvo, Dr. Jose Ribeiro

AM-134. Ellen Wu

Analysis of HIV Envelope Expression in CEM.NKR cells

Washington University in Saint Louis (Missouri)

Preceptor: Dr. Kristin Boswell

AM-135. Bolong Xu

Preparation of Modified PLGA Nanoparticles for use as a Vaccine-Carrier Candidate

Brown University (Rhode Island)

Preceptors: Dr. Puthuppampal Scaria, Mr. Christopher Rowe, Dr. Sojung An, Ms. Beth Chen

AM-136. Derek Zhang

Cloning and Characterization of M. tuberculosis 1-Deoxy-D-Xylulose 5-Phosphate Synthase (DXS), an Essential Enzyme in Isoprenoid Synthesis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Andaleeb Sajid, Dr. Helena Boshoff, Dr. Clifton Barry

AM-137. ChengYan Zheng

The Effects of pH on the Binding and Elution of a Malaria Vaccine Candidate, Pvs25M, Using Anion Exchange Chromatography

Gaithersburg High School (Maryland)

Preceptors: Dr. David Narum, Mr. Richard Shimp

National Institute of Dental and Craniofacial Research (NIDCR)

AM-138. Siavash Aarabi

Effects of Eukaryotic translation factor (eIF5A) depletion on mammalian cells

Howard Community College (Maryland)

Preceptors: Dr. Swati Dadhich, Dr. Myung Hee Park, Dr. Ajeet Mandal, Dr. Erika Barr

AM-139. Sarah Anvery

The Role of Mucin-type O-Glycosylation in Packaging and Secretion of O-Glycosylated Proteins

Howard University College of Dentistry (District of Columbia)

Preceptors: Dr. Zulfeqhar Syed, Dr. Leslie Revoredo, Dr. Kelly Ten Hagen

AM-140. Blake Bandeff

Skeletal Characterization of CD146 Deficient Mice

University of Connecticut School of Dental Medicine (Connecticut)

Preceptors: Dr. Pamela Robey, Dr. Luis Fernandez de Castro Diaz

AM-141. Sean Burke

Establishment of polarized acinar-like structures as an in vitro model for salivary gland dysfunction

University of Connecticut School of Dental Medicine (Connecticut)

Preceptor: Mr. Mayank Tandon

AM-142. Cara Chao

Neuropilin-1: A Thymus Derived Regulatory T Cell Marker?

American University (District of Columbia)

Preceptors: Dr. Dunfang Zhang, Dr. Wanjun Chen

AM-143. Ethan Chen

Creating Extracellular Matrix Stiffness Gradients to Study 3D Cell Migration

Montgomery Blair High School (Maryland)

Preceptors: Dr. Kenneth Yamada, Dr. Andrew Doyle, Dr. Emilios Dimitriadis

AM-144. Susan Chow

Examining the CFTR Gene Mutation Landscape in the DNA of Patients with Sjogren's Syndrome

New York University (New York)

Preceptors: Dr. Ilias Alevizos, Dr. Leyla Teos

AM-145. Anthony Contratto

3D Cephalometric Analysis of Variation in Class II and Class III Skeletal Development

University of Missouri - Kansas City School of Dentistry (Missouri)

Preceptors: Dr. Payal Verma, Dr. Denise Liberton, Dr. Janice Lee

AM-146. Eric Coy

Identification of mandibular prognathism related secondary variants in ClinSeq exomes

Towson University (Maryland)

Preceptors: Dr. Rashmi Mishra, Dr. Murat Sincan, Dr. Janice Lee, Dr. Leslie Biesecker

AM-147. Tarek Ellis

Role of Myb Transcription Factor in Salivary Gland Differentiation

Georgia State University (Georgia)

Preceptors: Dr. Jennifer Symonds, Dr. Matthew Hoffman

AM-148. Lucas Harrison

Studies on the Contribution of the Neural Crest to Hematopoietic Organ Development
Ohio University (Ohio)

Preceptors: Dr. Károly Markó, Dr. Éva Mezey

AM-149. Tiffany Hu

Quality of life in patients with hypoparathyroidism on PTH 1-34 replacement therapy
University of Maryland, College Park (Maryland)

Preceptor: Dr. Rachel Gafni

AM-150. Asia Jones

Investigation of PGANT(GalNAc-T) localization and mucin-type O-glycosylation in Drosophila S2R+ cell

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Dr. Sue Na Ji, Dr. Kelly Ten Hagen

AM-151. Jack knudson

Role of Osteocytes In Hematopoietic Lineage Differentiation

Robbinsdale Cooper High School (Minnesota)

Preceptors: Dr. Lynn Cross, Dr. Vamsee Myneni, Dr. Eva Mezey

AM-152. Hiba Mohiuddin

Identification of Upregulated miRNA in Sjögren's Syndrome Patients Using Digital PCR
University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Ilias Alevizos, Dr. Shyh-ing Jang, Mr. Mayank Tandon, Mr. Mohammad Hadavand

AM-153. Larry Nguyen

Elucidating the Mechanism of Polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2) Mediated Catalysis Using X-ray Crystallography

University of Florida (Florida)

Preceptors: Dr. Nadine Samara, Dr. Lawrence Tabak

AM-154. Varun Pemmaraju

Characterization and Purification of polyclonal SARAF antibody

University of Maryland, College Park (Maryland)

Preceptors: Dr. Aran Son, Dr. Shmuel Muallem

AM-155. Isaiah Rogers

Role of Btbd7 in cancer cell invasion

St. Thomas University (Florida)

Preceptors: Dr. Kenneth Yamada, Dr. William Daley, Mr. Joshua Collins

AM-156. Brittany Spivey

Epfm and Tbx1 regulate dental epithelial stem cell fate to the ameloblast lineage

Northern Virginia Community College (Virginia)

Preceptors: Mr. Yuta Chiba, Dr. Yoshihiko Yamada

AM-157. Christine Straka

Characterization of domains required for GalNAc-T Golgi localization

Case Western Reserve University (Ohio)

Preceptors: Dr. Larry Tabak, Dr. Duy Tran

AM-158. Doga Tasdemir

Analysis of Bone Regeneration in Young and Old Mice Post-Rib Resection Surgery

Thomas Sprigg Wootton High School (Maryland)

Preceptors: Dr. Janice Lee, Ms. Kate Malchester

AM-159. Fahd Yazdanie

Pharmacokinetic and Endocrine Analysis of Clinical Trial Data during Clobetasol Oral Rinse Use

Downstate College of Medicine (New York)

Preceptor: Dr. Jacqueline Mays

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

AM-160. Jessica Allen

TSH Does Not Induce Proliferation of Human Thyroid Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sarah Morgan, Dr. Marvin Gershengorn

AM-161. Esti Anflick

Activation of Human BAT by a β 3-AR Agonist Demonstrates a Dose-Dependent Response

Women's Institute of Torah Seminary (Maryland)

Preceptors: Dr. Aaron Cypess, Dr. Kong Chen

AM-162. Martin Arreola

Investigating the role of Double Stranded Breaks in Long-term Potentiation

University of California, San Diego (California)

Preceptor: Dr. Rafael Daniel Camerini-Otero

AM-163. Brittany Begaye

Ethnic Variations of Vitamin D in Women and Its Relationship to Insulin Resistance and Bone Health

Northern Arizona University (Arizona)

Preceptor: Dr. Stephanie Chung

AM-164. Tiffany Bellomo

A Furosemide Excretion Stress Test Predicts Mortality in a Mouse Model of Sepsis
Oakland University (Michigan)

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

AM-165. Harout Boujakjian

Modeling single cell gene expression in developing Caenorhabditis elegans
George Mason University (Virginia)

Preceptor: Dr. Vipul Periwal

AM-166. Joseph Lance Casila

Genetic Variation Associated with Diabetic Nephropathy in American Indians - Replication Assessment in Families with Kidney Failure from Guam and Saipan

University of Guam (Guam)

Preceptors: Dr. Ivica Masindova, Mr. Darin Mahkee, Dr. Leslie Baier

AM-167. Grace Cheung

How Bacteria Use Self-Organized Patterns to Position Cell Division...And How to Stop It! (BAF edition)

Richard Montgomery High School (Maryland)

Preceptors: Dr. Kiyoshi Mizuuchi, Dr. Anthony Vecchiarelli, Dr. Min Li

AM-168. Andre C. Christie

Understanding Functional Distinction of HSP-70s That Underlies their Different Effects on Amyloid In-vitro.

CUNY Bronx Community College (New York)

Preceptors: Dr. Jyotsna Kumar, Dr. Daniel Masison

AM-169. Michelle Chung

Identification of Hepatitis B Virus Covalently Closed Circular DNA Associated Host Factors
Boston College (Massachusetts)

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

AM-170. Ria Das

Hidden Markov Model of the Organization of Bacterial Genomes
Philips Exeter Academy (New Hampshire)

Preceptor: Dr. Vipul Periwal

AM-171. Samuel Deck

Purification and Characterization of Recombinant Envelope Glycoproteins E1 and E2 of Hepatitis C Virus

University of California, Davis (California)

Preceptors: Dr. Zhensheng Zhang, Dr. T. Jake Liang

AM-172. Alexandra Elchert

Why does Piwi like to be with U?

College of Wooster (Ohio)

Preceptors: Dr. Astrid Haase, Mr. Chad Stein

AM-173. Alejandra Flores

Effect of Different Lipid Source and Caloric Intake on Lipid Storage in Flies

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Brian Oliver, Dr. Maria Jaime

AM-174. Ellen Freebern

Characterizing Lipid Droplets in C.elegans fitm-2 Mutants

Ursinus College (Pennsylvania)

Preceptors: Dr. Andy Golden, Ms. Aditi Chandra

AM-175. Drew Gerber

Effects of an Oxygen Carrier on 293F Cells Growing in Shake Flasks

Duke University (North Carolina)

Preceptors: Dr. Alejandro Negrete, Dr. Joseph Shiloach

AM-176. Janhavi Giribhattanavar

African American Adults Have Greater Pancreatic Beta-Cell Responsivity than Caucasian Adults Despite Similar Insulin Sensitivity

College of William and Mary (Virginia)

Preceptor: Dr. Ranganath Muniyappa

AM-177. Hannah Guan

Systemic microbial translocation and vascular injury in the context of HIV/hepatitis C virus co-infection

University of Maryland School of Medicine (Maryland)

Preceptor: Dr. Theo Heller

AM-178. Kaitlyn Haskie

Investigation of select metabolic and hormonal predictors of weight change

Northern Arizona University (Arizona)

Preceptors: Dr. Karyne Vinales, Dr. Marci Gluck, Dr. Jonathan Krakoff

AM-179. Laura Hernández Díaz

Variability in physiological responses to maximal and submaximal exercise: Correlates to free-living behavior

University of Puerto Rico (Puerto Rico)

Preceptors: Dr. Kong Chen, Mr. Brooks Leitner, Ms. Courtney Duckworth, Dr. Robert Brychta

AM-180. Emily Hernandez-Avila

Poly(I:C) increases plasma levels of APOL1 in BAC/APOL1 transgenic mice: a possible model for APOL1 nephropathy

Cornell University (New York)

Preceptors: Dr. Koji Okamoto, Dr. Shashi Shrivastav, Mrs. Huiyan Lu, Dr. Jeffrey Kopp

AM-181. Bryan Ho

Characterizing Rab GTPases Involved in Misfolding-Associated Protein Secretion

Yale University (Connecticut)

Preceptors: Dr. Jin-Gu Lee, Dr. Yihong Ye

AM-182. Wendy Jiang

Mice under Chronic Thermoneutrality Develop Obesity with Improved Insulin Sensitivity and Reduced Triglycerides

Vestavia Hills High School (Alabama)

Preceptors: Dr. Lee Weinstein, Dr. Yong-Qi Li

AM-183. Alexander Jordan

A common Arg4Ser missense substitution in the signal peptide of gastrin-releasing peptide is associated with BMI in Pima Indians and Caucasians

Bethune-Cookman University (Florida)

Preceptors: Dr. Michael Traurig, Dr. Leslie Baier

AM-184. Brenda Kaczorowski

The C-terminus of SAS-6 is Required for Centriole Duplication

Northeast Wisconsin Technical College (Wisconsin)

Preceptors: Dr. Nicole DeVaul, Dr. Kevin O'Connell

AM-185. Rachel Kester

Domain Mapping of the Nuclear Long Non-Coding RNA Meg3 in Pancreatic Islet Beta-Cells to study Nuclear Localization and Regulatory Regions

Syracuse University (New York)

Preceptors: Dr. Sucharitha Iyer, Dr. Sunita Agarwal

AM-186. Claire Kittock

Prediction of functional impacts of Gnb5 missense mutations through comparative molecular modeling

Colgate University (New York)

Preceptors: Dr. Jianhua Zhang, Dr. Mritunjay Pandey, Dr. Pooni Adikaram, Dr. William Simonds

AM-187. Avantika Krishna

The Effect of Erythropoietin Over-Expression on Learning Behavior in Mice

Mt. Hebron High School (Maryland)

Preceptors: Dr. Soumyadeep Dey, Dr. Constance Noguchi, Ms. Folane Zeleke

AM-188. Pranab Krishnan

Analyzing innate immune associations with autoimmune diabetes through analysis of gene expression changes in diabetes-susceptible mouse strains

Thomas Jefferson Highschool for Science and Technology (Virginia)

Preceptor: Dr. Kristin Tarbell

AM-189. Mitchell Lee

Identification of novel genes required for the secretion of BFT toxin by enterotoxigenic strains of Bacteroides fragilis

Duke University (North Carolina)

Preceptors: Dr. Jessica Pierce, Dr. Harris Bernstein

AM-190. Justine Lottermoser

Determining the Potency of New P2Y14R Antagonists by Flow Cytometry

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Kenneth Jacobson, Dr. Ramachandran Balasubramanian, Dr. Kiran Toti

AM-191. Molly Lutrey

An RNAi Screen for Genes that affect Nuclear Morphology in C.elegans

University of Maryland, College Park (Maryland)

Preceptors: Dr. Mohammad Rahman, Dr. Simona Rosu, Dr. Orna Cohen-Fix

AM-192. Melissa Mai

Characterizing the Role of FOG-1 in Erythroid Gene Expression

Johns Hopkins University (Maryland)

Preceptors: Dr. Ivan Krivega, Dr. Ann Dean

AM-193. Brandon Marshall

Effects of Leptin on Energy Expenditure in Patients with Lipodystrophy

Michigan State University College of Human Medicine (Michigan)

Preceptor: Dr. Rebecca Brown

AM-194. Kaikeline McCarthy

Glucose Metabolism Differences Between FVB and C57BL/6 Mice Fed a High-Fat Diet and Treated with Erythropoietin

Chaminade University of Honolulu (Hawaii)

Preceptors: Mrs. Heather Rogers, Dr. Constance Noguchi

AM-195. Hanna McKown

Rapid Creation and Genotyping of CRISPR/Cas9-Derived Knockout Mice

University of Virginia (Virginia)

Preceptors: Dr. Benjamin Clarke, Dr. Richard Proia

AM-196. Marda Mengesha

Leptin's Diet Independent Effects on Lipid Metabolism in Patients with Lipodystrophy

University of Maryland, College Park (Maryland)

Preceptors: Dr. Rebecca Brown, Mr. Areli Valencia

AM-197. Charlotte Merzbacher

Global searches for small RNA regulators within the genome of the human pathogen B. pertussis using RNA-seq

Brown University (Rhode Island)

Preceptors: Dr. Kyung Moon, Dr. Deborah Hinton

AM-198. Rohith Nagari

GPCR Expression Profile in Skeletal Muscle Cells

Brown University (Rhode Island)

Preceptors: Dr. Jaroslawnna Meister, Dr. Jurgen Wess

AM-199. Siri Neerchal

Correlated Modes in G-Protein Coupled Receptor Sequence Alignments

Centennial High School (Maryland)

Preceptor: Dr. Vipul Periwal

AM-200. Tuyet Nguyen

The Role of Sup35NM Non-Amyloid Oligomers in DnaJB6 Mediated Amyloid Inhibition and Prion Curing

Montgomery Blair High School (Maryland)

Preceptors: Dr. Michael Reidy, Dr. Daniel Masison

AM-201. Joshua Ohde

Nutrient-dependent O-GlcNAc cycling in pituitary development

University of Kentucky (Kentucky)

Preceptors: Dr. Stephanie Olivier-Van Stichelen, Dr. John Hanover

AM-202. Ji Youn Park

Investigation of the Function of Non-Enzymatic Ovastacin in the Post-Fertilization Block to Sperm Penetration

University of Virginia (Virginia)

Preceptors: Dr. Jurrien Dean, Dr. Keizo Tokuhira

AM-203. Evan Pasternak

Optimization of a Nucleic Acid Test for the Detection of HIV using a PNA based Enzyme-Linked Assay

Yale University (Connecticut)

Preceptors: Dr. Elizabeth Rastede, Dr. Daniel Appella

AM-204. Kenneth Pham

TGF-beta Signaling Regulates Brown Adipogenesis and Thermogenesis

Columbia University (New York)

Preceptors: Dr. Young Jae Bahn, Dr. Sushil Rane

AM-205. Abhilash Potluri

Mathematical Modeling of the Effect of Infant Formula on Childhood Growth from Birth

R.C. Clark High School (Texas)

Preceptor: Dr. Kevin Hall

AM-206. Michael Preston

Open Behavior: Accelerating Research through Collaboration and Open-source Sharing

The American University (District of Columbia)

Preceptor: Dr. Alexxai Kravitz

AM-207. Siri Ranganath

Personalized Statin Therapy and Coronary Atherosclerotic Plaque Burden in Asymptomatic Low/Intermediate Risk Individuals

Thomas S. Wootton High School (Maryland)

Preceptor: Dr. Ahmed Gharib

AM-208. Rachel Reed

Phenotypic analysis of mouse model of PCBP1 deficiency

Princeton University (New Jersey)

Preceptors: Dr. Olga Protchenko, Dr. Caroline Philpott

AM-209. Michael Roa

Functional Analysis of Genomic Binding Sites for Thyroid Hormone Receptors in the Pituitary Gland

University of Texas Rio Grande Valley (Texas)

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

AM-210. Jonah Rosenblum

The Effects of Chronic Liver Diseases on Quality of Sleep

Bethesda-Chevy Chase High School (Maryland)

Preceptor: Dr. Christopher Koh

AM-211. Catherine Royston

Pharmacokinetic Fate of Sucralose, a Common Artificial Sweetener, with Focus on its Presence in Saliva

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Kristina Rother

AM-212. Ankita Sahoo

Neurotensin receptor 1 agonist, PD149163, induces hypothermia in C57 mice

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Oksana Gavrilova, Mrs. Shalini Jain

AM-213. Leeza Santiago-Millán

Role of Histone Acetyltransferase CBP and p300 in Adipogenesis

University of Puerto Rico, Humacao (Puerto Rico)

Preceptors: Dr. Kai Ge, Dr. Younghoon Jang

AM-214. Holly Shan

Optimizing Conditions for Assembly of HIV-1 Intasomes

Richard Montgomery High School (Maryland)

Preceptors: Dr. Holly Shan, Dr. Min Li

AM-215. Isabella Sheldon

beta-Arrestin-dependent ERK 1/2 Activation Mediates TSHR-induced Hyaluronan Secretion

German School, Washington D.C. (Maryland)

Preceptors: Dr. Christine Krieger, Dr. Marvin Gershengorn

AM-216. Juncheng Shen

Generation of a Reactivable Bombesin Receptor Subtype 3 Knockout Mouse (Brs3 LoxTB)

Johns Hopkins University (Maryland)

Preceptors: Dr. Marc Reitman, Dr. Cuiying Xiao

AM-217. Jiye Son

Structure Activity Relationships of a Novel Assembly Inhibitor of Hepatitis C Virus

Graduate Center of City University of New York, Advanced Science Research Center, Brooklyn College (New York)

Preceptors: Mr. Adam Rolt, Mr. Derek Le, Dr. Zongyi Hu, Dr. Jake Liang

AM-218. De'Seana Stewart

Differences in cerebral cortical measures after manual rectification of FreeSurfer surfaces

Alabama Agricultural and Mechanical University (Alabama)

Preceptors: Dr. Vipul Periwal, Dr. Deborah Striegel

AM-219. Adaya Sturkey

Factitious Hypoglycemia in Children and Adolescents with Diabetes

Hampton University (Virginia)

Preceptor: Dr. Kristina Rother

AM-220. Rujia Teng

Nitric oxide pathways in rodent skeletal muscle

Vanderbilt University (Tennessee)

Preceptors: Dr. Barbora Piknova, Dr. Alan Schechter, Dr. Constance Noguchi

AM-221. Dawit Teshome

Exploring the Structural Characteristics of Opa1 by Tryptic Limited Proteolysis and Mass Spectrometry

West Potomac High School (Virginia)

Preceptors: Dr. Andrew Kehr, Dr. Jenny Hinshaw

AM-222. Timothy Thoner

The effect of IFN- γ R blocking on type 1 interferon responses in autoimmune NOD mice

Randolph-Macon College (Virginia)

Preceptors: Dr. Kristin Tarbell, Dr. Jubayer Rahman

AM-223. Kristin Valdez

Identification of hepatitis C virus-host interactions using functional genomics and bioinformatics approaches

University of Texas at El Paso (Texas)

Preceptors: Dr. Jake Liang, Dr. Qisheng Li, Ms. Brianna Lowey, Dr. Fathi Elloumi

AM-224. Rachel Vanjoske

Assessing the Role of O-GlcNAcase as a Histone Acetyltransferase: The Specific Influence of O-GlcNAc and O-GlcNAc Transferase

University of Maryland, College Park (Maryland)

Preceptors: Dr. Katryn Harwood, Dr. John Hanover

AM-225. Ann Marie Weideman

Mathematical Modeling of Pancreatic Islets

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Patrick Fletcher, Dr. Arthur Sherman

AM-226. Alisa Yan

Knockouts of GPCRs in Dictyostelium discoideum

Richard Montgomery High School (Maryland)

Preceptors: Dr. Netra Meena, Dr. Alan Kimmel

AM-227. Banruo Yang

Investigating How a Viral Protein Impairs Host Cell Division

University of Richmond (Virginia)

Preceptors: Dr. Deborah Hinton, Dr. Jennifer West

AM-228. Longfei Yang

STAT5 Binding Across Various Gene Loci

Richard Montgomery High School (Maryland)

Preceptor: Ms. Michaela Willi

AM-229. Stephen Yu

Sex Differences in Physical and Metabolic Activity of Transgenic Mice Overexpressing Erythropoietin

Aragon High School (California)

Preceptors: Dr. YuanYuan Zhang, Dr. Constance Noguchi

AM-230. Sokena Zaidi

Investigation of Adipogenesis in Mll3, Mll4 –SET, and Mll3/Mll4-SET Knockout White Pre-adipocytes

University of California, Davis (California)

Preceptors: Dr. Ji-Eun Lee, Dr. Kai Ge

AM-231. Folane Zeleke

Brain-Specific Human Erythropoietin Over-Expression and Learning Behavior in Mice

Montgomery Blair High School (Maryland)

Preceptors: Dr. Soumyadeep Dey, Dr. Constance Noguchi

National Institute of Neurological Disorders and Stroke (NINDS)

AM-232. Stephanie Anders

Functional analysis of Kv paddle chimera in planar lipid bilayer

Eastern Mennonite University (Virginia)

Preceptors: Dr. Chanhyung Bae, Dr. Gilman Toombes, Dr. Kenton Swartz

AM-233. Jennifer Arai

An Investigation of Context and Content Reinstatement during Paired Associates Memory Task

University of Maryland, College Park (Maryland)

Preceptors: Mr. Robert Yaffe, Dr. Kareem Zaghloul

AM-234. Jacqueline Aredo

Inclusion of Adolescent Girls in Clinical Trials: A Review of Protections for Unanticipated Pregnancies

Georgetown University (District of Columbia)

Preceptor: Dr. Barbara Karp

AM-235. Aakash Basu

Ultrastructural analysis of recovery from APP-induced neurodegeneration in mouse olfactory bulb

Neuqua Valley High School (Illinois)

Preceptors: Dr. Leonardo Belluscio, Dr. Li Bai

AM-236. Hriday Bhambhani, David Castellano

The Effects of Novel Protein Shisa7 on GABAergic Synaptic Transmission and Development

University of Alabama at Birmingham (Alabama), Columbia University (New York)

Preceptors: Dr. Wei Lu, Dr. Jun Li

AM-237. Skyler Bordeaux, Vanisha Amin

Validation of OPAL against GAITrite to assess gait parameters in typically developing children

Fort Lewis College (Colorado), University of Michigan (Michigan)

Preceptors: Mrs. Cris Zampieri, Ms. Minal Jain

AM-238. Claudia Carcamo

Functional characterization of a multidrug transporter from Staphylococcus aureus

Vassar College (New York)

Preceptors: Dr. Christopher Mulligan, Dr. Joseph Mindell

AM-239. Shuvam Chakraborty

Automatic Detection and Quantitative Evaluation of Central Veins in Inflammatory Lesions

Berkshire School (Massachusetts)

Preceptors: Dr. Govind Bhagavatheeshwaran, Dr. Daniel Reich

AM-240. Emily Charlip

Spinal cord atrophy in Multiple sclerosis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Shila Azodi, Dr. Govind Nair, Dr. Joan Ohayon, Dr. Steven Jacobson

AM-241. Kelly Chen

Tomographic Analysis of Mouse Photoreceptor Cells to Determine Light-Induced Changes in Protein Composition

Amador Valley High School (California)

Preceptor: Dr. Xiaobing Chen

AM-242. Yue (Polly) Chen

Rodent cage change frequencies: Is less really more?

University of California, Berkeley (California)

Preceptor: Dr. LaTesa J. Hughes

AM-243. James Chief

Mapping Projections of GABAergic Neurons in Respiratory Regions in Adult Transgenic Rats
Montana State University (Montana)

Preceptors: Dr. Jeffrey Smith, Dr. Shahriar Sheikhabaei

AM-244. Chaitali Chitnis

Comparison of Automatic Segmentation Softwares for Lesion Detection in HIV Patients
Thomas S Wootton High School (Maryland)

Preceptors: Dr. Govind Bhagavatheeshwaran, Ms. Paba Dealwis

AM-245. Michael Clark

Neurophysiological Findings in Subjects with C9ORF72 Hexanucleotide Repeat Expansion
Johns Hopkins University (Maryland)

Preceptor: Dr. Mary Kay Floeter

AM-246. Mara Cohen

The effects of activation of inhibitory DREADD in the substantia nigra pars reticulata on motor cortex activity and dyskinesia in a rodent model of Parkinson's disease
Franklin & Marshall College (Pennsylvania)

Preceptors: Dr. Kristin Dupre, Dr. Judith Walters

AM-247. Jared Collina

3D Reconstruction of Astrocytes Within Rat Brainstem Regions Containing Respiratory Circuits
Haverford College (Pennsylvania)

Preceptors: Dr. Jeffrey Smith, Dr. Shahriar Sheikhabaei

AM-248. JoAnne Compo

Rehabilitation intervention leads to strength and functional improvement in Spinal and Bulbar Muscular Atrophy patient: a single case study
White Swan High School (Washington)

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

AM-249. Uriah Contreras

Hyper phosphorylation of proteins involved in Alzheimer's Disease by Cdk5/p25
Fort Lewis College (Colorado)

Preceptors: Mr. Raymond Fields, Dr. Binukumar Balachandran Krishnamma

AM-250. Cole Dittenthaler

Receptor Biology

White Swan High School (Washington)
Preceptor: Dr. Katherine Roche

AM-251. Katelyn Donaldson

Correlating Serum Biomarkers with Tumor Burden and Growth in Neurofibromatosis Type 2
University of Vermont College of Medicine (Vermont)
Preceptors: Dr. Prashant Chittiboina, Dr. John Heiss

AM-252. Judah Eisenman

Appearance of Proteins Produced Immediately after Pain Stimulation in the Spinal Cord of Mice with Spinal Cord Injury
University of Maryland, College Park (Maryland)
Preceptors: Dr. Ariel Levine, Dr. Anupama Sathyamurthy

AM-253. Francia Fang

Development of an inducible IDH1 R132H mutation cell model for the study of glioma pathogenesis
Duke University (North Carolina)
Preceptors: Dr. Zhengping Zhuang, Dr. Herui Wang

AM-254. Austin Feng

Structural Study of AKAP Membrane Targeting to the Post-synaptic Membrane
University of Maryland, College Park (Maryland)
Preceptors: Dr. Thomas Reese, Dr. Xiaobing Chen, Mrs. Christine Winters

AM-255. Graeme Fenton

Distinct missense mutations at spastin residue 499 produce varied clinical manifestations
University of California, Berkeley (California)
Preceptors: Ms. Houda Boucekkine, Dr. Craig Blackstone

AM-256. Davetrina Gadson, Lanre Oshin

Influence of neurological function domains on disability measured contemporaneously in the sub-acute phase of stroke in humans
University of Georgia (Georgia), Duke University (North Carolina)
Preceptor: Dr. Lawrence Latour

AM-257. David Gao

Potentiation of D1 dopamine receptor signaling pathways using positive allosteric modulators (PAMs)
University of Chicago (Illinois)
Preceptors: Dr. Kathryn Luderman, Dr. David Sibley

AM-258. Aniket Goel

Automated Dynamic Imaging Analysis of Neural Networks Fundamental for Breathing

University of Maryland, College Park (Maryland)

Preceptors: Dr. Shariar Sheikhabaehi, Dr. Jeffrey Smith

AM-259. Selena Gonzalez

Exploring Pain Threshold in the Awake Behaving Rodent Model of Parkinson's Disease Using Neurophysiological Techniques

University of California, Los Angeles (California)

Preceptors: Mr. Alexander Weiss, Dr. Judith Walters

AM-260. Harvey Herman

Characterization of Exosomes from viral infected cells

Creighton University (Nebraska)

Preceptors: Ms. Monique Anderson, Dr. Steven Jacobson

AM-261. Chana Heyman

Does Abnormal Autonomic Cardiovascular Regulation Predict Parkinson's Disease?

Bnos Yisroel of Baltimore (Maryland)

Preceptor: Dr. David Goldstein

AM-262. Randall Hughes

Determining the effect of progranulin mutations on autophagy in genetically-engineered iPSCs

Fort Lewis College (Colorado)

Preceptor: Dr. Michael Ward

AM-263. Catherine Jean

Neural Protective Activity of Statins

Paint Branch High School (Maryland)

Preceptors: Ms. Muzna Bachani, Dr. Nasir Malik, Dr. Joseph Steiner

AM-264. Tibin John

Contribution of Transient Receptor Potential (TRP) Channels to Respiratory Pattern Generation as Analyzed in Mouse Brainstem Circuits by Dynamic Calcium Imaging

Kalamazoo College (Michigan)

Preceptors: Dr. Jeffrey Smith, Dr. Nao Koshiya, Dr. Hidehiko Koizumi

AM-265. Carly Kaplan

Analysis of Intracranial EEG Data during Memory Tasks in Epilepsy Patients

Brown University (Rhode Island)

Preceptors: Dr. Sara Inati, Dr. Kareem Zaghloul

AM-266. Hyong Kim

Lipophorin receptors regulate dendrite morphogenesis in developing Drosophila larval visual circuit

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Quan Yuan, Dr. Jun Yin

AM-267. Natasa Kostic, Zachary Skemp, Alex Fuksenko

Crowd-Sourced System for Labeling of 3D Electron Microscopy Connectome Data: Functionality Upgrade

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

Preceptors: Dr. Kevin Briggman, Mr. Amarendra Yavatkar, Dr. Yang Fann

AM-268. Roey Lazarovits

Analyzing MEP Variability Using Random and Semi-Random TMS Paradigms

Los Angeles Pierce College (California)

Preceptors: Dr. Mark Hallett, Dr. Traian Popa, Dr. Nivethida Thirugnanasambandam, Dr. Qinglu Yang

AM-269. Jane Lee

Resident and Infiltrating Macrophages Repopulate the Meninges and Support Memory T Cell Development after Viral Meningitis

Creighton University School of Medicine (Nebraska)

Preceptors: Dr. Dorian McGavern, Dr. Rejane Rua

AM-270. Miranda Lingenfelter

In vivo Transgenic RNAi Screen for the Impact of Transcription Factors on Dendrite Morphology

Bryn Mawr College (Pennsylvania)

Preceptors: Dr. Quan Yuan, Dr. Jun Yin

AM-271. Mary Maldarelli

Posterior Parietal-Motor Cortex Plasticity in Writer's Cramp

University of Maryland School of Medicine (Maryland)

Preceptors: Dr. Hyun Joo Cho, Dr. Mark Hallett

AM-272. Alexandra Mandel

Influence of the Parietal Cortex on Surround Inhibition

George Washington University (District of Columbia)

Preceptors: Dr. Nivethida Thirugnanasambandam, Dr. Mark Hallett

AM-273. Alex Martinage, Ryan Thompson

Severe TBI: From Coma to Career

Bethesda Chevy Chase High School (Maryland), St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Rita Volochayev, Dr. Ethan Boch, Dr. Leonardo Cohen

AM-274. Ester Masati

Developing a proteomic approach to understanding autophagy and its role in Frontotemporal Dementia

University of Virginia (Virginia)

Preceptors: Mr. Rajan Patel, Dr. Michael Ward

AM-275. Jason Mazique

Overexpression of the Cdk5 inhibitory peptide (CIP) in motor neurons ameliorates neuroinflammation in a mouse model of Amyotrophic lateral sclerosis

Sidwell Friends School (District of Columbia)

Preceptors: Dr. Binukumar Balachandran Krishnamma, Dr. Harish Pant

AM-276. Kira Medish

Can apoptotic vesicles in the cerebrospinal fluid quantify active CNS tissue destruction in neurological diseases?

National Cathedral School (District of Columbia)

Preceptors: Dr. Ruturaj Masvekar, Dr. Bibi Bielekova

AM-277. Kenny Nguyen

Axonal Transport and Presynaptic Capture of Mitochondria Is Mediated by Actin Cytoskeleton

Purdue University (Indiana)

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

AM-278. Lanre Oshin, Davetrina Gadson

Influence of neurological function domains on disability measured contemporaneously in the sub-acute phase of stroke in humans

Duke University (North Carolina), University of Georgia (Georgia)

Preceptor: Dr. Larry Latour

AM-279. Christopher Pacia

Optimizing Touchscreen Buttons for Patients with Movement Disorders

University of California, San Diego (California)

Preceptors: Dr. Omar Ahmad, Dr. Codrin Lungu

AM-280. Bhuvana Pandalai

Longitudinal Spinal Cord Measurements in HTLV-1

Poolesville High School (Maryland)

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

AM-281. Claire Marie Perez

Fluorescently labeled microfabricated particles for efficient in vivo MRI cell tracking

University of Guam (Non-U.S.)

Preceptors: Dr. Nikorn Pothayee, Dr. Stephen Dodd, Dr. Alan Koretsky

AM-282. Shaniah Pinkham

Risk Factors Associated with Development of Post-dural Puncture Headache in a Cohort of Patients with Neuroimmunological Disease

Yakama Nation Tribal School (Washington)

Preceptor: Mrs. Joan Ohayon

AM-283. Robert Pourier

Non-Invasive Assessment of Renal Sympathetic Innervation by Positron Emission Tomography

Red Cloud High School (South Dakota)

Preceptors: Dr. David Goldstein, Mrs. Courtney Holmes

AM-284. Lauren Price

Cross Sectional Analysis of the Cervical Spine at 3T in First Degree Relatives of Patients with Multiple Sclerosis and Healthy Controls

Purdue University (Indiana)

Preceptors: Dr. Daniel Reich, Ms. Sonya Steele

AM-285. Maidah Raja

Resting state full brain network analysis of focal hand dystonia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Silvina Horovitz, Dr. Mark Hallett

AM-286. Vedika Rajasekaran

Impact of Interferon Beta 1a on CCL2/MCP1 levels in isolated astrocytes

University of Georgia (Georgia)

Preceptors: Dr. Emily Carifi, Dr. Kenneth Fischbeck

AM-287. Sibi Rajendran

A Prospective Evaluation of Swallowing and Speech Deficits in Patients with Neurofibromatosis Type 2

University of Kentucky College of Medicine (Kentucky)

Preceptors: Dr. Prashant Chittiboina, Ms. Beth Solomon

AM-288. Cyrus Rastegar

Mechanisms of Neurotoxicity of HERV-K in ALS

Johns Hopkins University (Maryland)

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

AM-289. James Reede

Optimizing Immunohistochemistry Staining Protocols to Characterize Neural Cell Phenotypes in Developing Rat Brain

Sacramento State University (California)
Preceptors: Dr. Dragan Maric, Mrs. Andrea Sedlock

AM-290. Hassan Saadi

Role of G-Coupled Protein 37 (Gpr37) During Development of the Gonadotropin-Releasing Hormone (GnRH) System

University of Maryland, College Park (Maryland)
Preceptor: Dr. Susan Wray

AM-291. Rajath Salegame

Characterizing the effects of oxidative stress on the chemical profile of the microtubule cytoskeleton

Waubonsie Valley High School (Illinois)
Preceptor: Dr. Antonina Roll-Mecak

AM-292. Sara Samadani

Resting State fMRI Study of Essential Tremor and Dystonic Tremor

Howard Community College (Maryland)
Preceptors: Dr. Oh Panyakaew, Dr. Silvina Horovitz

AM-293. Devin Scott

Does adult hippocampal neurogenesis affect reward preference?

Suitland High School (Maryland)
Preceptors: Dr. Heather Cameron, Dr. Rose-Marie Karlsson

AM-294. Misha Sharma

Tau modulated hyperphosphorylation activity in the human brain and the study of its inhibition by truncated p35 (TP5)

Clarksburg High School (Maryland)
Preceptors: Dr. Niranjana Amin, Dr. Manju Bhaskar

AM-295. Sydney Sharp, James Gao

Development of novel tissue biomarker screening techniques and computational algorithms to characterize neural cells following ischemic brain injury in rats

Montgomery Blair High School (Maryland), Montgomery Blair High School (Maryland)
Preceptors: Dr. Draga Maric, Mrs. Andrea Sedlock

AM-296. Katherine Sizov

CRISPR/Cas9 Gene Editing of Dominant Ullrich Muscular Dystrophy Mutations

University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Veronique Bolduc, Dr. Apurva Sarathy, Dr. Carsten Bonnemann

AM-297. Kathryn Slacin

Detection of Human Herpesvirus in Multiple Sclerosis Populations by Digital Droplet PCR

College of William & Mary (Virginia)

Preceptors: Mr. Major Lin, Ms. Emily Leibovitch, Mrs. Ashley Vellucci, Dr. Steven Jacobson

AM-298. Christopher Stang

Structure-activity analysis of a novel series of D4 dopamine receptor-selective ligands

University of Findlay (Ohio)

Preceptors: Dr. Benjamin Free, Dr. David Sibley

AM-299. John Stubbs IV

A Comparison of Multiple Sclerosis Lesions with Paramagnetic Rim on Phase and QSM Generated MRI

American University (District of Columbia)

Preceptors: Dr. Martina Absinta, Dr. Pascal Sati, Dr. Daniel Reich

AM-300. Lawrence Suh

New Insights into Phenotypic Variations in Parkinson's Disease

Oberlin College (Ohio)

Preceptors: Dr. Codrin Lungu, Dr. Omar Ahmed, Ms. Sana Zahir, Mrs. Mae Brooks

AM-301. Alexander Sukharev

Molecular Basis of the Mechanism of Shaker Kv Channel Inactivation

University of Maryland, College Park (Maryland)

Preceptors: Dr. Miguel Holmgren, Dr. Francisco Palma-Cerda

AM-302. Katherine Sun

Development of a genotype score for prediction of Multiple Sclerosis severity

Saratoga High School (California)

Preceptors: Dr. Peter Kosa, Dr. Bibi Bielekova

AM-303. Mitchell Sun

Characterizing a HIF-2 α Gain-of-Function Mutation Mouse Model

Illinois Mathematics and Science Academy (Illinois)

Preceptors: Dr. Zhengping Zhuang, Dr. Herui Wang

AM-304. Tara Suresh

Functional Consequences of trbeta2 Receptor Over-expression in Zebrafish Retina

Washington University in St. Louis (Missouri)

Preceptors: Dr. Ralph Nelson, Ms. Annika Balraj, Ms. Sara Patterson

AM-305. Mohammad Syed

Identifying A to G RNA editing events in the HERV super and sub families

The University of Texas at Austin (Texas)
Preceptors: Dr. Kory Johnson, Dr. Miguel Holmgren

AM-306. Alan Tang

Viral-induced Changes to Neuroepithelial Structure, Sensory Function, and Barrier Capability
Vanderbilt University (Tennessee)
Preceptors: Dr. Dorian McGavern, Dr. Ashley Moseman

AM-307. Lanson Tang

Organization of Shank at the Post-synaptic Density
Swarthmore College (Pennsylvania)
Preceptor: Dr. Xiaobing Chen

AM-308. Joseph Tharayil

Development of a Clinical Trial Simulator for Epilepsy
Duke University (North Carolina)
Preceptors: Dr. Daniel Goldenholz, Dr. William Theodore

AM-309. Dana Toy

Proteins That Bridge the Postsynaptic Density and Actin Cytoskeleton
Geisel School of Medicine at Dartmouth (New Hampshire)
Preceptors: Dr. Ayse Dosemeci, Dr. Jung-Hwa Tao-Cheng

AM-310. Itzel Trejo

The Phenotypic Spectrum of Parkinson's Disease and Related Conditions at the NIH
George C. Marshall High School (Virginia)
Preceptors: Dr. Codrin Lungu, Ms. Beverly McElroy, Ms. Maidah Raja

AM-311. Kaamya Varagur

Investigating the Role of HERV-K and HERV-W Envelope Proteins in Adhesion and Differentiation of Atypical Teratoid/Rhabdoid Tumors and Medulloblastoma
Princeton University (New Jersey)
Preceptors: Dr. Tara Doucet-O'Hare, Dr. Avindra Nath

AM-312. Kevin White

Visuomotor plasticity of zebrafish prey capture behavior in a closed loop simulation
Howard University (District of Columbia)
Preceptors: Dr. Kevin Briggman, Mr. Matthew Schiel

AM-313. Selina Williams

Developing closed-loop brain stimulation approaches to augment neurorehabilitation
University of Maryland, College Park (Maryland)
Preceptors: Dr. Sara Hussain, Dr. Ethan Buch, Dr. Leonardo Cohen

AM-314. Ashtyn Winchell

The role of the right DLPFC in implicit sequence learning with and without feedback

Junipero Serra Catholic High School (California)

Preceptors: Dr. Eric Wassermann, Dr. Leonora Wilkinson, Mr. Phillip Koshy

Center for Information Technology (CIT)

LCH-001. Bilguunzaya Battogtokh

A Crowd of Machines

Yorktown High School (Virginia)

Preceptors: Dr. James Malley, Dr. Jason Moore, Dr. Randy Olson

LCH-002. Ron Ulric Domingo

Automated Feature Detection and Annotation for the Curation of Plasmids in the OTTC Plasmid Manager

Stanford University (California)

Preceptors: Mr. Giun Sun, Dr. Christopher Richie, Dr. Brandon Harvey, Dr. Calvin Johnson

LCH-003. Joshua Lehman, Ryan Rinker, Sarah Anderson, Connor Schultz

Designing a Large Scale Ethology System with Computer Vision

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

Preceptors: Mr. Ghadi Salem, Mr. Alexxai Kravitz (NIDDK), Mr. George Dold (NIMH), Dr. James Mitchell (NCI)

National Center for Complementary and Integrative Health (NCCIH)

LCH-004. Simon Arango Baquero

Differential Activation of a Molecular Signal in the Brain in Mouse Models of Short and Long Term Pain

Poolesville High School (Maryland)

Preceptor: Dr. Yarimar Carrasquillo

LCH-005. Marilyn Frank

Digital Analysis of Injury-induced Microgliosis in Cleared Spinal Cords

Red Cloud High School (South Dakota)

Preceptors: Dr. Claire Le Pichon, Mrs. Hanna Silberberg, Dr. Alexander Chesler

LCH-006. Sara Hong

Effects of Inhibitory Gi-DREADDs in Pain Processing and Its Relationship with ERK Activation in the Amygdala

Poolesville High School (Maryland)

Preceptor: Dr. Yarimar Carrasquillo

LCH-007. Carlos Melendez

Measuring the Perception of Pleasant and Unpleasant Taste
James Hubert Blake High School (Maryland)
Preceptors: Dr. Dominik Mischkowski, Dr. Lauren Atlas

LCH-008. Mathew Seltzer

Dissecting the Anatomy of Parabrachial Projections Using Cre-dependent Viral Vectors
St. Mary's College of Maryland (Maryland)
Preceptors: Dr. Arnab Barik, Dr. Alexander Chesler

LCH-009. Caitlin Stavish

How Mindful Awareness Affects Pain Perception
Boston University (Massachusetts)
Preceptors: Dr. Lauren Atlas, Dr. Dominik Mischkowski, Mr. Troy Dildine

LCH-010. Daniela Velasquez

Efferent Projections of PKC-delta Expressing Cells in the Central Nucleus of the Amygdala
Towson University (Maryland)
Preceptor: Dr. Yarimar Carrasquillo

National Eye Institute (NEI)

LCH-011. Modupe Adetunji

Axiogenic and Neuroprotective Effects of Mesenchymal Stem Cell-Derived Exosomes in a Rat Optic Nerve Crush Model
Princeton University (New Jersey)
Preceptors: Dr. Ben Mead, Dr. Stanislav Tomarev

LCH-012. Keyla Bordonada Collazo

Human and murine immune cells can recognize and respond to an ocular commensal
Universidad Central del Caribe School of Medicine (Puerto Rico)
Preceptors: Dr. Anthony St Leger, Dr. Rachel Caspi

LCH-013. Elaine Bucknam

Automated Behavioral Assessments: Establishment of Species and Sex Baselines
St. Mary's College of Maryland (Maryland)
Preceptors: Mr. David Mallon, Dr. Arthur Maclarty, Dr. James Raber

LCH-014. Bonnie Douglas

Microbiota-derived stimuli promote spontaneous uveitis by activating retina-specific T cells
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Reiko Yamane, Dr. Ryan Salvador, Dr. Rachel Caspi

LCH-015. Grace Eddy

Longitudinal Follow Up of Patients with X-Linked Retinoschisis
Bethesda Chevy-Chase High School (Maryland)

Preceptors: Dr. Elizabeth Murphy, Dr. Catherine Cukras, Dr. Paul Sieving

LCH-016. Jorge Ferrari Escoto

IDEA: An IPSC Database and Enotebook Application

Northwood High School (Maryland)

Preceptor: Dr. Kapil Bharti

LCH-017. Aarti Hinduja

Natural History of ABCA4 Retinopathy: Growth of Central Atrophy Measured with Multimodal Imaging

University of Maryland, College Park (Maryland)

Preceptors: Dr. Brett Jeffrey, Dr. Laryssa Huryn, Dr. Brian Brooks

LCH-018. Ranganath Kathawate

Role of IL-34 in the pathogenesis of autoimmune uveitis

International Academy High School (Michigan)

Preceptor: Dr. Mary Mattapallil

LCH-019. Hima Konduru

Visual Function Analysis of Transgenic Mouse Lines that Develop Spontaneous Inflammatory Disease in the Eye

Walter Johnson High School (Maryland)

Preceptors: Dr. Yingyos Jittayasothorn, Dr. Reiko Horai

LCH-020. Annapurna Kuppa

Understanding the mutational effects of MYO7A gene in Usher syndrome type 1b

Johns Hopkins University (Maryland)

Preceptor: Dr. Yuri Sergeev

LCH-021. Adam Lazere

Morphology, Dynamic Behavior and Activation Markers of Repopulated Retinal Microglia
Oberlin College (Ohio)

Preceptors: Dr. Wai Wong, Dr. Yikui Zhang

LCH-022. Daniel Lulli

Large-scale Purification of Recombinant Pigment Epithelium-derived Factor (PEDF) Forms
Bowdoin College (Maine)

Preceptor: Dr. S. Patricia Becerra

LCH-023. Rebecca McCoy

Advancing Precision Medicine: Development of a Deep Genotype-Phenotype Database for Heritable Eye Disorders

Morehouse School of Medicine (Georgia)

Preceptors: Dr. Robert Hufnagel, Dr. David McGaughey, Dr. Brian Brooks

LCH-024. Nattacha Munakata

Analysis of posttranscriptional regulation of RPE65 gene in cultured human ARPE-19 cells using in silico and vitro assay

George Mason University (Virginia)

Preceptors: Dr. Eugenia Poliakov, Dr. Olga Postnikova, Dr. Michael Redmond

LCH-025. Anesu Nyawata

Analysis of Exosomes in Ophthalmology Research Using Flow Cytometry

Rhodes College (Tennessee)

Preceptors: Mr. Rafael Villasmil, Dr. Rachel Caspi

LCH-026. Rachel Owusu-Lewis

Genome-wide linkage analysis in a consanguineous Pakistani family with autosomal recessive congenital cataracts

Philadelphia College of Osteopathic Medicine - Georgia Campus (Georgia)

Preceptors: Dr. Patricia Cabrera, Dr. J. Fielding Hejtmancik

LCH-027. Nadia Parmhans

Combinatorial Genetics of Neurotrophin Receptor cRet and Brn3 Transcription Factors Defines Isolated Populations of Retinal Ganglion Cells

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Szilard Sajgo, Dr. Jingwen Niu, Dr. Tudor Badea, Dr. Wenqin Luo

LCH-028. Kevin Peralta

Rico Mouse: A Novel Mouse Model for Coloboma

E.L. Haynes PCS High School (District of Columbia)

Preceptors: Dr. Ramakrishna Alur, Dr. Brian Brooks

LCH-029. Natalia Santiago

Investigating CGI-58 and GOS2 as regulators of lipase activity for retinal protection

Inter American University of Puerto Rico (Puerto Rico)

Preceptors: Dr. S. Patricia Becerra, Ms. Jeanee Bullock

LCH-030. Jayram Sastry

Ultrastructural Study of the Intracellular Effects of the Anti-Retroviral Treatment Nevirapine

St. Albans School (District of Columbia)

Preceptor: Dr. Mones Abu-Asab

LCH-031. Matt Shumway

Protein Expression in Human Adult Retinal Pigment Epithelial Cells: Four Day versus Four Month

University of Virginia (Virginia)

Preceptors: Dr. Michael Redmond, Dr. Todd Duncan

LCH-032. Hanna Tso

Engineering Biocomposite Scaffolds to Mimic Biomechanical Microenvironment of Outer Retina

Purdue University (Indiana)

Preceptors: Dr. Vasudha Surampudi, Dr. Anand Swaroop

LCH-033. Tareq Uddin

Morphological Characterizations of Retinal Pigment Epithelium to Assess and Correlate Disease Phenotypes with Cell Shape

University of Maryland, College Park (Maryland)

Preceptors: Dr. Nathan Hotaling, Dr. Kapil Bharti, Dr. Nicholas Schaub, Dr. Aman George

LCH-034. Gregory Vernon

Employing Optical Coherence Tomography to Measure Retinal Thickness in Mice Treated with Acetazolamide and in Mouse Models of X-linked Congenital Stationary Night Blindness

University of Tennessee College of Veterinary Medicine (Tennessee)

Preceptor: Dr. Haohua Qian

LCH-035. Kathryn Wall

Different inputs to caudate head and tail for different types of reward values

Union College (New York)

Preceptors: Mr. Whitney Griggs, Dr. Okihide Hikosaka

LCH-036. Tianyi Wang

Identification of Proteins Interacting with Olfactomedin 1 in the AMPAR Receptor Complex

Princeton University (New Jersey)

Preceptors: Dr. Naoki Nakaya, Dr. Stanislav Tomarev

LCH-037. Arthur Wu

C-Fos Signals in Mammalian Retina

Northwest High School (Maryland)

Preceptors: Dr. Wei Li, Mr. Juan Angueyra-Aristizabal, Mr. Vincent Phillip Kunze

LCH-038. Toria Yan

Whole Blood Phospho Flow Cytometry Assay: An Optimization for Clinical Sample Processing

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Lotta Utriainen, Dr. Benjamin Chaigne-Delalande

LCH-039. Yizhen Zhang

Morphological Characterization of Neurons in the Tree Shrew Retina

University of California, Berkeley (California)

Preceptors: Mr. Vincent Kunze, Dr. Wei Li

LCH-040. Helen Zhao

Characterization of Defects in the Retinal Pigmented Epithelium Caused By Targeted Deletion of MicroRNA-204

Richard Montgomery HS (Maryland)

Preceptors: Dr. Connie Zhang, Dr. Nathan Hotaling, Dr. Kapil Bharti, Dr. Sheldon Miller

National Human Genome Research Institute (NHGRI)

LCH-041. Brittany Ajegba

Leg Ulcers in Sickle Cell Patients: A Qualitative Data Analysis

Michigan State University College of Human Medicine (Michigan)

Preceptors: Mr. Vence Bonham, Ms. Nkeiruka Umeh, Ms. Ashley Buscetta

LCH-042. Diane Akakpo

Genetic Epidemiology of Selected Adipokines in West Africans

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Ayo Doumatey

LCH-043. Myriam Alcantar-Rama

Identifying Transcriptional Responses to MEK Inhibition in Melanoma Cells

Creighton University (Nebraska)

Preceptors: Dr. Temesgen Fufa, Dr. William Pavan

LCH-044. Nick Balanda

Integration of miRNA binding prediction tools to predict effects of mutations in potential miRNA binding sites

Davidson College (North Carolina)

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

LCH-045. Charles Barry

Severe Hypertension and Kidney Damage in the MH-GRID Study: Investigation Using Machine Learning Techniques

Brown University (Rhode Island)

Preceptor: Dr. Amadou Gaye

LCH-046. Joseph Brough

Exome Sequencing and Holoprosencephaly

U.S. Naval Academy (Maryland)
Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

LCH-047. Samantha Calabrese, Jasmine Manalel

Intergenerational exchange of health encouragement: Consideration of family risk and culture
Northeastern University (Massachusetts), University of Michigan (Michigan)
Preceptors: Dr. Chris Marcum, Dr. Laura Koehly

LCH-048. Brandon Davis

Variation in Sickle Cell Disease: Methods to Calculate and Categorize Disease Severity
Washington University in St. Louis (Missouri)
Preceptors: Dr. Katherine Blizinsky, Ms. Ashley Buscetta, Ms. Khadijah Abdallah, Mr. Vence Bonham

LCH-049. Lan Doan

Moving Beyond Precision Medicine to Precision Public Health
Oregon State University (Oregon)
Preceptors: Dr. William Riley (OBSSR), Dr. Erica Spotts (OBSSR), Dr. Laura Koehly

LCH-050. Gabrielle Dotson

Exploring Patterns of HPV Integration in DOCK8-Deficient Patients Using Genomics
Stanford University (California)
Preceptors: Dr. Sean Conlan, Dr. Osnat Tirosh, Dr. Heidi Kong, Dr. Julie Segre

LCH-051. Nicolas Fishman

The Creation of a Relational Structure for the Storage and Analysis of Structural Variation
Woodrow Wilson High School (District of Columbia)
Preceptors: Dr. Elaine Ostrander, Dr. Brian Davis

LCH-052. Emily Gripp

Exome Sequencing of a Large Kindred with FG Syndrome
Mount Pleasant High School (Delaware)
Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

LCH-053. Jennifer Guo

Molecular Characterization of a New Coenzyme Q10 Deficiency
Swarthmore College (Pennsylvania)
Preceptors: Dr. May Malicdan, Dr. Thierry Vilboux, Dr. William Gahl

LCH-054. Kevin Hackbarth

Functional Analysis of Variants in microRNA Recognition Elements via in vitro Detection of RISC-mediated mRNA Degradation
Tufts University (Massachusetts)

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

LCH-055. Ermias Hagege

De novo or germline mosaicism mutation in a family with Type 2 Gaucher disease

University of Maryland, College Park (Maryland)

Preceptor: Dr. Nahid Tayebi

LCH-056. Chen Han

Profibrotic Phenotype of Human HPS Fibroblasts

Georgetown University (District of Columbia)

Preceptors: Dr. Bernadette Gochuico, Dr. Tadafumi Yokoyama, Mr. Nate Tolman

LCH-057. Benjamin Heil

Leveraging Linkage Disequilibrium to Determine Identity in Sequence Data

Baylor University (Texas)

Preceptors: Dr. Nancy Hansen, Dr. Jim Mullikin

LCH-058. Charlotte Hepler

Motivations for Participating in a Genome Sequencing Study: Views of African American Participants

Northern Virginia Community College - Alexandria Campus (Virginia)

Preceptors: Dr. Barbara Biesecker, Ms. Alexis Heidlebaugh

LCH-059. Sun-Bin Hwang

Tumor Necrosis Factor alpha (TNF α) modulates mitochondrial respiratory function in the liver: Exploring the immune basis for metabolic decompensation

Walt Whitman High School (Maryland)

Preceptors: Dr. Peter McGuire, Dr. Tatiana Tarasenko, Mr. Maxim Jestin

LCH-060. Chirag Jain

Rethinking Mapping Technique for Single Molecule Sequences

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Adam Phillippy, Dr. Sergey Koren, Dr. Alexander Dilthey

LCH-061. Manuela Jaramillo

Under Control: Assessing the Influence of Child Health Control Beliefs on Parental Feeding Intentions

Denison University (Ohio)

Preceptor: Dr. Susan Persky

LCH-062. Emily Kaperst

The Anonymization of the Undiagnosed Diseases Program Short Course

Walt Whitman High School (Maryland)

Preceptors: Dr. Thomas Markello, Mrs. Kayla Gu

LCH-063. Karl Keat

BuddySuite: A Python toolkit for working with biological data
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Steve Bond, Dr. Andy Baxevanis

LCH-064. Sofia Kruszka

Craniosynostosis in Consanguineous Union
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Karin Weiss, Dr. Maximilian Muenke

LCH-065. Kyle Long

The Effects of Population Stratification on the Quantitative Transmission Disequilibrium Test
University of Texas at El Paso (Texas)
Preceptors: Dr. Joan Bailey-Wilson, Dr. Anthony Musolf

LCH-066. Elsy Lopez

Molecular Cytogenetic Study in Human Cell Lines
Brigham Young University (Idaho)
Preceptors: Dr. Amalia Dutra, Dr. Evgenia Pack

LCH-067. Amanda Loya

Laromustine treatment induces apoptosis in HL60 human leukemia cells
Colby College (Maine)
Preceptors: Dr. Abdel Elkahloun, Ms. Weiwei Wu, Dr. Dave Bodine, Dr. Kevin Rice

LCH-068. Luhe Mian

Cardiomyopathy in sialic acid deficient GNE myopathy
Philadelphia College of Osteopathic Medicine (Pennsylvania)
Preceptors: Dr. May Malicdan, Dr. William Gahl

LCH-069. Miriam Minsk

Effect of Relatedness on Determination of Sample Identity Using Low Coverage Sequence Data
Charles E. Smith Jewish Day School (Maryland)
Preceptors: Dr. Nancy Hansen, Dr. Jim Mullikin

LCH-070. Bilal Moiz

Target Sequencing of a Region in Chromosome 6 with High Susceptibility for Familial Lung Cancer
University of Rochester (New York)
Preceptors: Dr. Anthony Musolf, Dr. Joan Bailey-Wilson

LCH-071. Katherine Pardo

Agenesis of the Corpus Callosum and Craniofacial Anomalies: ZNF462-Associated Syndrome
University of Virginia (Virginia)

Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

LCH-072. Renee Pelletier

Evaluating medical jargon use in Alzheimer's risk disclosure visits

Boston University School of Medicine (Massachusetts)

Preceptor: Dr. Lori Erby

LCH-073. Comrie Rice

Genotyping a SPTAN1 Mutant Mouse

East Tennessee State University (Tennessee)

Preceptors: Dr. Paul Lee, Ms. Valerie Gartner

LCH-074. Benjamin Ruben

Search for Cryptic Second CECR1 Mutations in Families with Deficiency of ADA2 (DADA2)

Thomas S. Wootton High School (Maryland)

Preceptors: Ms. Natalie Deutch, Dr. Qing Zhou, Dr. Ivona Aksentijevich, Dr. Daniel Kastner

LCH-075. Mariam Sannoh

Are Sickle Cell Disease Leg Ulcers Associated with Fetal Hemoglobin?

Dr. Henry A. Wise Jr. High School (Maryland)

Preceptors: Ms. Khadijah Abdallah, Ms. Ashely Buscetta, Mr. Vence Bonham

LCH-076. Anna Sappington

Fast, alignment-free ortholog clustering with Mash

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Adam Phillippy, Dr. Steve Bond

LCH-077. Richard Sawyer

A multi-site study of the cerebellum in Attention Deficit Hyperactivity Disorder

Virginia Tech (Virginia)

Preceptor: Dr. Philip Shaw

LCH-078. Andrew Schroeder

The Effect of Recurrency in r2VIM, a Machine Learning Tool for Variable Selection in Genetic Data

Saint Louis University (Missouri)

Preceptors: Dr. Emily Holzinger, Dr. Joan Bailey-Wilson

LCH-079. Kevin Sun

Characterizing Clonal Evolution of Leukemia in inv(16) Mice

University of California, San Diego (California)

Preceptors: Dr. Tao Zhen, Dr. Paul Liu

LCH-080. Joey Toker

Genotype and phenotype analysis of transgenic mice with mutations in oxygen sensing and iron metabolism genes

St. Albans School (District of Columbia)

Preceptors: Dr. David Bodine, Ms. Jaya Jagadeesh, Mr. Nathan Krump

LCH-081. Angela Xu, Carli Needle

Modeling Human Metabolic Diseases in Zebrafish by Targeted Gene Knockout

Thomas S. Wootton High School (Maryland), Winston Churchill High School (Maryland)

Preceptors: Dr. Shawn Burgess, Dr. Wuhong Pei, Dr. Erin Jimenez, Dr. Gaurav Varshney

National Heart, Lung, and Blood Institute (NHLBI)

LCH-082. Miguel Alcantar

Optimization of Ferumoxytol Concentration for Interventional MRI Applications

University of California, San Diego (California)

Preceptors: Dr. Rajiv Ramasawmy, Dr. Adrienne Campbell, Dr. Robert Lederman, Dr. Anthony Faranesh

LCH-083. Tolulope Awosika

Deciphering Zika Virus Neurotropism to Distinct Neural Progenitor Cells and their Forebrain Progeny

University of Maryland, College Park (Maryland)

Preceptors: Dr. Yakey Yaffe, Dr. Teegan Dellibovi-Ragheb, Dr. Ying-Han Chen, Dr. Nihal Altan-Bonnet

LCH-084. Kelsey Bullock

Precision Medicine in Non-Cancerous Pulmonary Diseases

Western Kentucky University (Kentucky)

Preceptors: Dr. Antonello Punturieri, Dr. Thomas Croxton

LCH-085. Mehtap Cabus

Investigations into Norovirus Release and Transmission

University of Maryland University College (Maryland)

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

LCH-086. Jessica Chen

Common Gene Expression Profile of Induced Hematopoietic Cells Derived from Human Induced Pluripotent Stem Cells

Massachusetts Institute of Technology (Massachusetts)
Preceptors: Dr. Yangtengyu Liu, Dr. Guibin Chen, Dr. Manfred Boehm

LCH-087. Andrew Davis

Risk Stratification for Early Mortality in Lung Transplantation Using Donor-Derived Cell-free DNA Analysis

Boston College (Massachusetts)

Preceptors: Dr. Sean Agbor-Enoh, Mrs. Sasha Gorham, Dr. Moon Kyoo Jang, Dr. Hannah Valentine

LCH-088. Dalton Delaney

Sex Differences in Energy Regulation and Whether They Influence Progression of Cardiovascular Disease

Oklahoma State University Center for Health Sciences (Oklahoma)

Preceptor: Dr. Robert Balaban

LCH-089. John Deng

How many bonds can be formed in one step?: Tandem Aza-Claisen-Michael Reaction

Duke University (North Carolina)

Preceptors: Dr. Chandra Mushti, Dr. Rolf Swenson

LCH-090. Rajiv Deshpande

Using Bayes' Theorem and Machine Learning to Integrate Multiple Proteomic and Transcriptomic Datasets

Johns Hopkins University (Maryland)

Preceptor: Dr. Mark Knepper

LCH-091. Gishan Dissanayake Bogoda

Analyzing the Functional Role of MYB Protein Domains Using CRISPR Mediated Genome-editing

University of California, Irvine (California)

Preceptors: Dr. Xunde Wang, Mr. Nikos Angelis, Dr. Swee Lay Thein

LCH-092. Michael Drakopoulos

Development of Cellular Therapies for Inherited Blood Disorders

Purdue University (Indiana)

Preceptors: Dr. Andre Larochelle, Dr. Luigi Alvarado, Mr. Ishan Asokan

LCH-093. Adelmut Xiadani Duffing Romero

Gaps and Opportunities in Native American Health Research Surrounding Blood, Lung, Heart and Sleep Disorders

University of Colorado at Boulder (Colorado)

Preceptors: Mrs. Mona Puggal, Dr. Mollie Minear

LCH-094. Ryan Dunlow

Metal Catalyzed Nucleophilic Fluorination of Electron Rich Arenes

Wake Forest University (North Carolina)

Preceptors: Dr. Haitao Wu, Dr. Rolf Swenson

LCH-095. Adilene Esquinca

Analyzing the Role of MYB Protein Domains on Fetal Hemoglobin Expression using CRISPR Mediated Genome-Editing

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Swee Lay Thein, Dr. Xunde Wang, Mr. Nikos Angelis

LCH-096. Anabela Esteves

Characterizing the Effects of CRISPER-Mediated EMRE Deletion on Mitochondrial Calcium Uptake

George Washington University (District of Columbia)

Preceptors: Dr. Julia Liu, Dr. Chengyu Liu, Dr. Toren Finkel

LCH-097. Katherine Estrada

Investigating the beneficial effects of Nicotinamide Riboside on energy metabolism and neuroprotection through Lysine succinylation.

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Dr. Jing Wu, Dr. Michael Sack

LCH-098. Cameron Flower

Discovery of lncRNA-Encoded Peptidome in Mouse Kidney Inner Medulla

University of Connecticut (Connecticut)

Preceptors: Dr. Mark Knepper, Dr. Chin-Rang Yang

LCH-099. Lauren Fowler

Digital Food Records: A Mixed-Methods Study to Evaluate Feasibility and Acceptability for Use in Community-Based Interventions

George Washington University (District of Columbia)

Preceptor: Dr. Tiffany Powell-Wiley

LCH-100. Sheila Gaur

The Effect of the S100 Protein Family on Endothelial Cell Gene Expression

Winston Churchill High School (Maryland)

Preceptors: Dr. Martin Playford, Dr. Nehal Mehta

LCH-101. Ayelet Goodman

The effects and underuse of cardiac rehabilitation

Bnos Israel of Baltimore (Maryland)

Preceptors: Dr. Lawton Cooper, Dr. Daniel Edelman

LCH-102. Adina Heyman

Atrial Fibrillation in The Elderly (>65)

Meohr Bais Yaakov (Non-U.S.)

Preceptors: Dr. Lawton Cooper, Dr. Patrice Desvign-Nickens, Dr. Daniel Edelman

LCH-103. Emily Hillman

The Study of the Mechanisms of Kidney Dysfunction in Mice with Elevated Levels of LpX in Plasma

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Boris Vaisman, Dr. Alan Remaley

LCH-104. Van Hoang, Mona Mirzaeimoghri, Peter Chen

Performance of Nickel Electroplating on Silicon Wafers

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

Preceptor: Dr. Han Wen

LCH-105. Brittany Hodges

Recombinant Endothelial Nitric Oxide Synthase (eNOS) Protein Expression to Study Alpha Globin Function

Brown University (Rhode Island)

Preceptors: Dr. Hans Ackerman, Dr. Dongying Ma

LCH-106. Trey Huff, Amit Singh

Implantable Device for Monitoring Oxygen Concentration in the Body

University of Maryland, College Park (Maryland), Winston Churchill High School (Maryland)

Preceptors: Dr. Burchelle Blackman, Dr. Rolf Swenson, Dr. Murali Cherukuri

LCH-107. Austin Ikechi

Post Pain Symptoms In Transplant Patients With Sickle Cell Disease

Ohio State College of Medicine (Ohio)

Preceptors: Dr. Thein Swee Lay, Dr. Deepika Darbari

LCH-108. Rafique Islam

Studies of Lipid Binding Properties of Apolipoprotein Mimetic Peptides Designed to Increase High Density Cholesterol

George Mason University (Virginia)

Preceptor: Dr. Alan Remaley

LCH-109. Seung Jin Jang

Optimization of NETosis in Sickle Cell Disease by Using Multispectral Flow Cytometry

University of South Florida Morsani College of Medicine (Florida)

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

LCH-110. Mitchell Johnson

Neuron Response to Variable Stiffness Gradient
University of Michigan (Michigan)
Preceptors: Dr. Herbert Geller, Ms. Eleni Degaga

LCH-111. Sebastian Jusuf

Characterization of Fluorescent Nanodiamonds through Flow Cytometry
Cornell University (New York)
Preceptor: Dr. Kier Neuman

LCH-112. Katrina Kao

Characterization of reticulocytes in rhesus macaques
Wellesley College (Massachusetts)
Preceptor: Dr. Robert Donahue

LCH-113. Evan Koretsky

An Algorithm for Correction of Photon Pileup During Time-Correlated Single Photon Fluorescence Lifetime Imaging
University of California, Berkeley (California)
Preceptors: Dr. Christian Combs, Dr. Jay Knutson

LCH-114. Noah Laird

Searching for novel genes involved in HSC self-renewal through expansion in vivo
Grinnell College (Iowa)
Preceptors: Dr. Andre Larochelle, Dr. Heather Huntsman

LCH-115. Jessica Lee

Cardiometabolic Analysis of Li-Fraumeni Syndrome
Cornell University (New York)
Preceptors: Dr. Ju-Gyeong Kang, Dr. Paul Hwang, Dr. Pingyuan Wang

LCH-116. Oscar Levine

Predictive Performance of Pre-test Probability Assessment for the Diagnosis of Coronary Atherosclerosis by Coronary CT Angiography
Walt Whitman High School (Maryland)
Preceptors: Dr. Marcus Chen, Dr. Sujata Shanbhag

LCH-117. Jessica Li

Investigating novel mechanisms of T-cell differentiation
Princeton University (New Jersey)
Preceptors: Dr. Mindy Ren, Dr. Warren Leonard

LCH-118. Michael Lugo

Autistic features and head size predict deletion size in Williams syndrome

Medical University of South Carolina (South Carolina)

Preceptor: Dr. Beth Kozel

LCH-119. Sangavi Manickavel

Host Cell Pathways Hijacked for Coronavirus Transmission

Poolesville High School (Maryland)

Preceptors: Dr. Teegan Dellibovi-Ragheb, Dr. Nihal Altan-Bonnet

LCH-120. Veronica Martinez Vargas

Characterizing the α -Synuclein Corona on Gold Nanoparticles

Salisbury University (Maryland)

Preceptors: Dr. Jessica D. Flynn, Dr. Jennifer C. Lee

LCH-121. Grace Padgett

Identifying and Confirming Genetic Variants from Whole Exome Sequencing of Patients with Pentalogy of Cantrell

Paint Branch High School (Maryland)

Preceptors: Ms. Brittany Mactaggart, Dr. Xuefei Ma, Dr. Michael Bamshad, Dr. Robert Adelstein

LCH-122. Tara Price

Regulatory Proteins in Clathrin Independent Endocytosis

Portland Community College (Oregon)

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

LCH-123. Aasheen Qadri

Impact of Pre-Analytical Variables on Leukemia Biomarker Performance

University of Maryland, College Park (Maryland)

Preceptors: Dr. Christopher Hourigan, Dr. Hong Yuen Wong, Ms. Meg Goswami, Dr. Sheenu Sheela

LCH-124. Shawn Reginauld

Elucidation of Conformational Variability between Actin Nucleotide States using Cryo-EM and Helical Reconstruction

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Greg Alushin, Dr. Pinar Gurel

LCH-125. Lauren Smith

Domain analysis of the microcephaly associated protein Abnormal Spindle in Drosophila melanogaster

Thomas Stone High School (Maryland)

Preceptors: Dr. Todd Schoborg, Dr. Nasser Rusan

LCH-126. Kiran Vaidya

Alternative Splicing of Nonmuscle Myosin Heavy Chain II-B pre-mRNA by Rbfox Protein Family
Cornell University (New York)

Preceptor: Dr. Sachiyo Kawamoto

LCH-127. Catherine Wang

Improving safe-harbor reporter knock-in in monkey iPSCs without drug selection

Princeton University (New Jersey)

Preceptors: Dr. Jizhong Zou, Dr. Yongshun Lin

LCH-128. Jenelle Weaver

Assessing Mutations Conferring Resistance to Ibrutinib in Chronic Lymphocytic Leukemia Patients

Colorado College (Colorado)

Preceptors: Dr. Adrian Wiestner, Dr. Chingiz Underbayev

LCH-129. Katherine Wu

Variation in Sleep Across Days in Drosophila melanogaster

Montgomery Blair High School (Maryland)

Preceptors: Dr. Susan Harbison, Dr. Yanzhu Lin

LCH-130. Kevin Wu

The Role of Tissue Macrophages in the Development of the Immunoprivileged Gonad

Johns Hopkins University (Maryland)

Preceptors: Dr. Chang Liu, Dr. Yosuke Mukoyama

LCH-131. Daisy Xu`

The Characterization of RF-Induced Heating in Commercial Guidewires during Real-Time Magnetic Resonance Imaging

Dartmouth College (New Hampshire)

Preceptors: Dr. Adrienne Campbell, Dr. Rajiv Ramasawmy, Dr. Robert Lederman

LCH-132. Ho-Jung Yang

Expression, Purification, and Characterization of a Red Fluorescent Protein Nanobody

Walter Johnson High School (Maryland)

Preceptors: Dr. Justin Taraska, Dr. Marie-Paule Strub

LCH-133. Cindy Zhou

Is 4-sulfation on proteoglycan important in regulating neuronal growth?

Clayton High School (Missouri)

Preceptors: Dr. Caitlin Mencio, Dr. Herbert Geller

LCH-134. Timothy Zhou

The Power of an Epigenome Browser

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Keji Zhao, Dr. Gangqing Hu

National Institute on Aging (NIA)

LCH-135. Ashley Castillo

Is living in rural vs urban environment associated with cognitive impairment in late-life? The

AGES-Reykjavik Study

City University of New York Lehman College (New York)

Preceptors: Dr. Elisa Marques, Dr. Eric Shiroma

LCH-136. Snigdha Chigurupati

Anti-inflammatories based on Pomalidomide backbone

University of Maryland Baltimore County (Maryland)

Preceptors: Dr. Nigel Greig, Dr. David Tweedie

LCH-137. Riley Driscoll

AUF1 Regulates Circular RNAs

Brigham Young University (Utah)

Preceptors: Dr. Ioannis Grammatikakis, Dr. Kotb Abdelmohsen, Dr. Myriam Gorospe

LCH-138. Bethany Dubick

The Genomics of Amyotrophic Lateral Sclerosis, a Laboratory Based Study

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Bryan Traynor

LCH-139. Noah Fu

The Effect of Voluntary Wheel Running on Metabolic Function and Behavior in Mice

Saint Louis University (Missouri)

Preceptors: Dr. Hyo Youl Moon, Dr. Henriette van Praag

LCH-140. Christina Galiano, Stephanie Roth

Characterization of Neurochemically Identified Basal Forebrain Neurons in Young and Aged Behaviorally Characterized Rhesus Monkeys

University of Virginia (Virginia), Towson University (Maryland)

Preceptors: Dr. Peter Rapp, Dr. Cristina Banuelos

LCH-141. Ellen Harris

Lap time variation, a mobility marker of Mild Cognitive Impairment and Alzheimer's Disease?

University of Chicago (Illinois)

Preceptors: Dr. Qu Tian, Dr. Stephanie Studenski

LCH-142. William Herrera Delcid

Nuclear and cytoplasmic localization of circular RNAs in myoblasts

New York University (New York)

Preceptors: Dr. Amaresh Panda, Dr. Myriam Gorospe

LCH-143. Natalie Ivanina

Age-Dependent Lysosomal Protease Accumulation and Cytoskeletal Alteration in LRRK2 Knockout Kidneys

University of Maryland, College Park (Maryland)

Preceptors: Dr. Mark Cookson, Ms. Laura Pellegrini

LCH-144. Justin Kung

Mapping the Direct Inputs of ALDH1A1+ Midbrain Dopamine Neurons in Mice

Columbia University (New York)

Preceptors: Dr. Huaibin Cai, Dr. Junbing Wu

LCH-145. Jonathan Legier

Functional Characterization of FANCD1 and RECQ1 Helicases by DNA Damage Sensitivity Assays and RNAi Screens Using CRISPR Knock-Out Cell Lines

Howard University (District of Columbia)

Preceptors: Dr. Robert Brosh, Dr. Sanket Awate

LCH-146. Waverly McClusky

RNA methyltransferases (NSUN2 and METTL3/METTL14) cooperate in methylating RNAs

College of William and Mary (Virginia)

Preceptor: Dr. M. Laura Idda

LCH-147. Leah Orozco

High-content screen reveals Rab7A modulates trafficking of LRRK2-Rab29 complexes to the Trans-Golgi Network in Parkinson's disease

College of the Holy Cross (Massachusetts)

Preceptor: Dr. Ravindran Kumaran

LCH-148. Kellybeth Ramirez

Effect of all-trans retinoic acid (Vitamin A) on production of steroidal Na-pump ligand marinobufagenin in mice

University of Central Florida (Florida)

Preceptors: Dr. Olga Fedorova, Ms. Yulia Grigorova

LCH-149. Jacob Rosales

Verification of WGS variants in Greek families with PD

Red Cloud High School (South Dakota)
Preceptors: Dr. Monia Hammer, Dr. Andrew Singleton

LCH-150. Gregory Vass

Pro-Fibrotic Pathways Activated by an Endogenous Na-pump Inhibitor Marinobufagenin in Preeclampsia

University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Olga Fedorova, Dr. Valentina Zernetkina

LCH-151. Beverly Wu

Transcriptional Factor PITX3 in Neuronal Metabolism and Parkinson's disease

University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Sara Saez, Dr. Huaibin Cai

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

LCH-152. Rajit Banerjee

Trunk motions and loads during upslope walking in persons with unilateral transfemoral amputation

University of Toledo (Ohio)
Preceptor: Dr. Brad Hendershot

LCH-153. Maurice Bukenya

Droplet Merging and Sorting to Improve Drop-seq Efficiency

Tufts University (Massachusetts)
Preceptors: Dr. Nicole Y Morgan, Ms. Shruti Srinivas

LCH-154. Tyler Burden

Preparation and Evaluation of Fab' Antibody Fragments by Capillary Electrophoresis and MALDI

Towson University (Maryland)
Preceptors: Dr. Terry Phillips, Dr. Heather Kalish

LCH-155. Citlally Garcia Leiva

AFM Probing of Nanoscale Properties of Microtubules Stabilized with Taxol or Peloruside

Fairleigh Dickinson University (New Jersey)
Preceptors: Dr. Dan Sackett, Dr. Albert Jin

LCH-156. Audrey Huang, Andrew Liu

Combining QCM-D and AFM for Biomolecular Assembly

Thomas Jefferson High School for Science & Technology (Virginia), Oakton High School (Virginia)

Preceptor: Dr. Albert Jin

LCH-157. John Joseph

Deep lineaging in the Caenorhabditis elegans embryo
University of Maryland, College Park (Maryland)
Preceptors: Dr. Hari Shroff, Dr. Ryan Christensen

LCH-158. Caroline Kim

3D Printing Applications for Analytical Ultracentrifugation
National Cathedral School (District of Columbia)
Preceptors: Dr. Peter Schuck, Dr. Huaying Zhao, Dr. Sumit Chaturvedi

LCH-159. Alison Long

Atomic Force Microscopy of Plasmodium falciparum Lipid Rafts and GPI Anchored Proteins
University of California, Berkeley (California)
Preceptors: Dr. David Narum, Dr. Albert Jin

LCH-160. Joseph Marbach

Calcium imaging in the C. elegans embryo
George Washington University (District of Columbia)
Preceptors: Dr. Hari Shroff, Dr. Evan Ardiel

LCH-161. Alden Moss

Development of a PNA-Based Microfluidic Assay for the Detection and Quantification of HIV
Oregon State University (Oregon)
Preceptors: Dr. Daniel Appella, Dr. Kaylyn Oshaben, Dr. Nicole Morgan, Mr. Tom Pohida

LCH-162. Michelle A. Rose

3D Cancer Cell Culture with Controlled Oxygenation Using Bioreactor and Microfabricated Pillars
Boston University (Massachusetts)
Preceptors: Dr. Nicole Y. Morgan, Dr. Robert Robey, Dr. Thomas J. Pohida, Dr. Michael M. Gottesman

LCH-163. Taylor Sullivan

Microfabricated structures for improving cell culture
Thomas S. Wootton High School (Maryland)
Preceptors: Dr. Nicole Morgan, Ms. Michelle Rose

LCH-164. Angela Yang

Janus Mesoporous Silica Gold Nanoparticles for Theranostics
Montgomery Blair High School (Maryland)
Preceptor: Dr. Jibin Song

LCH-165. Michael Zhou

Quantitative analysis of pancreatic islet architecture by serial block-face scanning electron microscopy

Niskayuna High School (New York)

Preceptors: Dr. Richard Leapman, Dr. Tao Cai, Dr. Maria Aronova

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

LCH-166. Alara Akyatan

Neuropsychological and Medical Outcomes of Microcephaly

Skidmore College (New York)

Preceptors: Dr. Margarita Raygada, Dr. Audrey Thurm

LCH-167. Ngozi Alia

Circadian Regulation of Humanized MC3R Knock-in Obese Mouse Models

Charles Herbert Flowers High School (Maryland)

Preceptors: Mr. Daniel Gehle, Dr. Joo Yun Jun, Dr. Jack Yanovski

LCH-168. Jelard Aquino

Exploring gene expression in zebrafish vasculature using whole-mount in situ hybridization

Laramie County Community College (Wyoming)

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

LCH-169. Kurt Auville

Characterization of Persistent Firing in Hippocampal Neurogliaform Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ramesh Chittajallu, Dr. Chris McBain

LCH-170. Christina Bear

Analysis of the SOS Response in E.coli After Exposure to Antibiotics

Colorado Academy (Colorado)

Preceptor: Dr. Roger Woodgate

LCH-171. Jillian Belgrad

Effects of Cholinergic Signalling on Intracellular Calcium Levels in Oligodendrocyte Precursor Cells

Colgate University (New York)

Preceptor: Dr. Dong Ho Woo

LCH-172. Hailey Blain

Carotid MRI in Children with Cushing Syndrome: A window into a marker of early cardiovascular disease

Bowdoin College (Maine)
Preceptor: Dr. Maya Lodish

LCH-173. Rebecca Boden

Flow Cytometry in Pediatric Cushing's Syndrome: A window into the mechanism of immunosuppression in chronic glucocorticoid exposure
Bethesda-Chevy Chase High School (Maryland)
Preceptors: Dr. Maya Lodish, Dr. Sergio Rosenzweig

LCH-174. Isabelle Breier

Trunk Fat Mass and Cortisol in Normal-Weight and Overweight Children
Hopkins School (Connecticut)
Preceptors: Dr. Miranda Broadney, Dr. Jack Yanovski

LCH-175. Jennifer Caldwell

Role Play: The Role of Rare Variants in IGD- Associated Genes in HA
Howard University (District of Columbia)
Preceptor: Dr. Angela Delaney

LCH-176. Ari Chadda

Dysfunctional NRG-ErbB4 Signaling on Attention and Impulsivity Behaviors in Mice
Landon School (Maryland)
Preceptors: Dr. Miguel Skirzewski, Dr. Andres Buonanno

LCH-177. Simon Chen

Using CRISPR/Cas to study cyclic diguanylate signaling proteins in Legionella pneumophila
Parkland High School (Pennsylvania)
Preceptors: Dr. Matthias Machner, Dr. Nicole Ellis

LCH-178. Stephanie Chill

Autophagy-Mediated Degradation of Type I Collagen
University of Maryland, College Park (Maryland)
Preceptors: Dr. Elena Makareeva, Dr. Shakib Omari, Dr. Sergey Leikin

LCH-179. Stephanie Chistoserdov

Functional Studies of a KRAB Zinc Finger Protein linked with CTCF
University of Maryland, College Park (Maryland)
Preceptor: Dr. Todd Macfarlan

LCH-180. Emma Condy

Frontal activation in toddlers during gesture and speech comprehension: A fNIRS study
Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Amir Gandjbakhche

LCH-181. Lauren Correia

Let-7 miRNA as a Mediator of H19 lncRNA in Muscle Function

Haverford College (Pennsylvania)

Preceptors: Dr. Beenish Rahat, Dr. Claudia Gebert, Dr. Karl Pfeifer

LCH-182. Catherine Cunningham

Neural responses to odor plumes: A physiological and computational analysis across multiple neuronal layers

King's College London (Non-U.S.)

Preceptors: Dr. Zane Aldworth, Dr. Mark Stopfer

LCH-183. Christine Dedoulis

Phenotyping of Adrenal Cortex Function of ARMC5 Heterozygote Mice

Catholic University of America (District of Columbia)

Preceptors: Dr. Constantine Stratakis, Dr. Annabel Berthon

LCH-184. Benjamin Duncan

Direct Generation of foxp2 Haploinsufficient Zebrafish Using CRISPR/Cas9

Bluefield State College (West Virginia)

Preceptor: Dr. Harold Burgess

LCH-185. Maria Faidas

Understanding the Role of Brown Adipose Tissue in the Obesity-resistant Phenotype of PKA Cbeta Knockout Mice

University of Virginia (Virginia)

Preceptors: Dr. Constantine Stratakis, Dr. Edra London, Dr. Fabio Faucz, Dr. Ludivine Drougat

LCH-186. Noam Gannot, Manahel Zahid

Use of the Cambridge Face Memory Test to assess impairment of visual working memory by Functional Near-Infrared Spectroscopy

University of Maryland, College Park (Maryland), Wootton High School (Maryland)

Preceptors: Dr. Fatima Chowdhry, Dr. Afrouz Anderson, Dr. Amir Gandjbakhche

LCH-187. Sydney Geiger

Prefrontal Cortex Activation during Working Memory Task with Application in Developmental Disorders: Pilot Study Using Functional Near Infrared Spectroscopy

St. Olaf College (Minnesota)

Preceptors: Dr. Afrouz Anderson, Dr. Fatima Chowdhry, Dr. Amir Gandjbakhche

LCH-188. Alexandra Geoca

Mapping the larval zebrafish brain in virtual reality

George Washington University (District of Columbia)

Preceptors: Dr. Harold Burgess, Dr. Damian Dalle Nogare, Mr. Gregory Marquart

LCH-189. Roy Ghosh

How does Low-Dose Colchicine Affect the Genetic Expression and Cellular Mechanisms of Human Neutrophils?

Parkland High School (Pennsylvania)

Preceptor: Dr. Dan Sackett

LCH-190. Jordy Gomez

Mutations to understand the structure and function of the RyfD RNA

E.L Haynes (District of Columbia)

Preceptors: Dr. Gisela Storz, Ms. Hira Shabbir, Ms. Aracely Romero

LCH-191. Nadine Humphrey

Pro-inflammatory macrophage positively correlate with insulin resistance in adipose tissue

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

Preceptors: Dr. Chad McCormick, Dr. Joshua Zimmerberg

LCH-192. Angelina Jones

Optimization of a purification protocol for a GST-tagged Integrase protein from the Schizosaccharomyces pombe transposon Tf1

Eleanor Roosevelt High School (Maryland)

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

LCH-193. Sun Jung

Characterizing the Unique Obese Phenotypes of MC3R-Associated Obese Mouse Models

University of Maryland, College Park (Maryland)

Preceptors: Dr. Joo Yun Jun, Dr. Jack Yanovski, Mr. Daniel Gehle

LCH-194. Bijal Kikani, Jacob Wagner, Aaron Gu

Investigating the Effects of CCDC53 Mutation on Receptor Recycling

University of Maryland, College Park (Maryland), Winston Churchill High School (Maryland),

Thomas Jefferson High School for Science and Technology (Virginia)

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

LCH-195. Eleanor Kimmelman

Study of C alpha overexpression effects in transgenic mice

Maret School (District of Columbia)

Preceptors: Dr. Ludivine Drougat, Dr. Constantine Stratakis

LCH-196. Emma King

Genes CXCL12 and PDGFB Cooperate to Attract Smooth Muscle Cells for Structural Support of the Arteries

Benjamin Banneker Academic High School (District of Columbia)
Preceptors: Dr. Amber Stratman, Dr. Brant Weinstein

LCH-197. Cedirc Kouam

Force Distribution across Neutrophil Microvilli Resists Bond Detachment
Montgomery College (Maryland)
Preceptor: Dr. Alex Szatmary

LCH-198. Jenny Lee

Assessing Mixtures of Environmental Pollutants on Birth Outcomes Using Shrinkage Based Method: Application to LIFE Study
Yale School of Public Health (Connecticut)
Preceptor: Dr. Rajeshwari Sundaram

LCH-199. Christin Li

An Intronic TRE Mediates Thyroid Hormone Regulation on MBD3 Expression in the Intestine during Frog Metamorphosis
National Cathedral School (District of Columbia)
Preceptors: Dr. Yunbo Shi, Dr. Liezhen Fu

LCH-200. Julian Li

Histone modification enzymes P300 function during postembryonic development in Xenopus tropicalis
Richard Montgomery High School (Maryland)
Preceptors: Dr. Morihiko Okada, Dr. Yun Bo Shi

LCH-201. Tianming Li

Morphological and Computational Analysis of a Giant Inhibitory Interneuron that Regulates Olfactory Function
Thomas Sprigg Wootton High School (Maryland)
Preceptors: Dr. Mark Stopfer, Dr. Kui Sun, Dr. Subhasis Ray

LCH-202. Jana Lu

Identifying key phosphorylated residues on the host target of a kinase effector in the bacterial pathogen Legionella pneumophila
Duke University (North Carolina)
Preceptors: Dr. Matthias Machner, Dr. Pei-Chung Lee

LCH-203. Jashanjeet Matharoo, Amir Chegeni

Multi-Spectral Imaging of Blood and Water Content to Assess Treatment Outcome of Cushing's Syndrome
Thomas Jefferson High School for Science and Technology (Virginia), University of Virginia (Virginia)
Preceptors: Dr. Ali Afshari, Dr. Amir Gandjbakhche

LCH-204. Kelly Nguyen

Racial Differences in Response to Ambient Temperature: A Case-Crossover Study of Cardiovascular Events at Labor and Delivery

San Diego State University (California)

Preceptors: Dr. Pauline Mendola, Dr. Sandie Ha

LCH-205. Heley Ong

Structural Analysis of Lysosome Positioning Machinery

Cornell University (New York)

Preceptors: Dr. Juan Bonifacino, Dr. Tal Keren-Kaplan

LCH-206. Nancy Ortega

Expression of Muscarinic Receptors in Oligodendrocytes

University of San Francisco (California)

Preceptors: Dr. R. Douglas Fields, Mr. William Huffman

LCH-207. Gregory Papaioannou, Marianna Athanassiou

A new cause of primary hyperaldosteronism

University of Pennsylvania (Pennsylvania), Tufts University (Massachusetts)

Preceptors: Mr. Nikolaos Settas, Dr. Constantine Stratakis

LCH-208. Paulina Pedas, Mia Faulkner

U2SURP germline mutations as a potential cause of familial acromegaly and gigantism

Maret School (District of Columbia), Walt Whitman (Maryland)

Preceptors: Dr. Laura Hernandez-Ramirez, Dr. Giampaolo Trivellin, Dr. Constantine Stratakis

LCH-209. Julia Rakas

Molecular Simulation of the Lipid Deformation Around Rhodopsin Clusters

Woodrow Wilson High School (District of Columbia)

Preceptor: Dr. Alexander Sodt

LCH-210. Kushi Ranganath

*Adipose Tissue Inflammation and Insulin Resistance: An *in silico* Model of Cross-Talk between TNF α and Insulin Signaling*

Johns Hopkins University (Maryland)

Preceptors: Dr. Jack Yanovski, Dr. Andrew Demidowich

LCH-211. Maya Robnett

The Role of Glia in the Pathophysiology of Gulf War Illness

Sidwell Friends School (District of Columbia)

Preceptors: Dr. Dipankar Dutta, Dr. Douglas Fields

LCH-212. Gabriel Schneider

Landscape of Germline Mutations in Sporadic PHEO/PGL

St. Albans School (District of Columbia)

Preceptors: Dr. Ying Pang, Dr. Karel Pacak

LCH-213. Victor Settles

Exploring the in vivo endothelial transcriptome in search of novel vascular genes

University of Maryland, College Park (Maryland)

Preceptors: Dr. Mayumi Miller, Dr. Brant Weinstein

LCH-214. Roxana Taginya

Does the Ex Vivo State of Human Subcutaneous Adipose Tissue Correlate with Systemic Insulin Resistance?

University of Michigan (Michigan)

Preceptors: Dr. Joshua Zimmerberg, Dr. Chad McCormick, Dr. Paul Blank, Dr. Andrew W

LCH-215. Jennifer Ten Hagen

Neto-alpha modulates the organization of neuromuscular junction in Drosophila melanogaster

Northwest High School (Maryland)

Preceptor: Dr. Mihaela Serpe

LCH-216. Aalekhya Tenali

Investigating the Role of Translation Elongation Pausing in Response to Inositol on Initiation of Upstream Optimal and Suboptimal Codons

Washington and Lee University (Virginia)

Preceptors: Dr. Thomas Dever, Dr. Iyaylo Ivanov, Ms. Chune Cao

LCH-217. Elizabeth Tikoyan

Impairment in Sexual Function Persists in Clinically-Stable Female Survivors of Stem Cell Transplantation

Northern Virginia Community College (Virginia)

Preceptors: Dr. Pamela Stratton, Ms. Claire Scrivani, Dr. Dana Shanis, Dr. Margaret Bevans

LCH-218. Neha Trivedi

Cell Phone Distraction: Peer Influence on Adolescents' Risky Driving Behaviors

University of Maryland School of Public Health (Maryland)

Preceptors: Dr. Denise Haynie, Dr. Bruce Simons-Morton

LCH-219. Kaitlin Vollet

Prenatal Fish Oil Supplementation and Early Childhood Development in the Upstate KIDS Study

University of Cincinnati (Ohio)

Preceptor: Dr. Edwina Yeung

LCH-220. Enya Wang

Molecular Function Analysis of Steroid Receptor Coactivator (SRC) Using CRISPR/Cas9 System during Postembryonic Development in Xenopus tropicalis

Montgomery Blair High School (Maryland)

Preceptors: Dr. Yuki Shibata, Dr. Yun Bo Shi

LCH-221. Harrison Westgarth

Characterization of the NPC1 IRF8 Mouse Model

Washington and Lee University (Virginia)

Preceptor: Dr. Forbes Porter

LCH-222. Maya Wilson

Molecular Modeling of the Hofmeister Effect on Lipid Bilayers

Gaithersburg High School (Maryland)

Preceptor: Dr. Alexander Sodt

LCH-223. Julie Zemskova

MicroRNAs expression profiling in pheochromocytoma and paraganglioma

University of Toledo College of Medicine (Ohio)

Preceptors: Dr. Ivana Jochmanova, Dr. Karel Pacak

National Institute on Drug Abuse (NIDA)

LCH-224. Joseph Acqui, III

The Effect of Food Self-Administration on the mRNA Expression of Activator Protein 1 Genes in the Rat Hypothalamus

Stevenson University (Maryland)

Preceptors: Dr. Jean Lud Cadet, Mr. Michael McCoy

LCH-225. Weilin Chan

Adolescent THC Exposure and Subsequent Heroin Self-Administration: A 1H-MRS Study

Johns Hopkins University (Maryland)

Preceptor: Dr. Michael Michaelides

LCH-226. Sujata Chapagain

Role of central lateral thalamus in methamphetamine (Meth) relapse

The Community College of Baltimore County (Maryland)

Preceptors: Dr. Anna (Xuan) Li, Dr. Yavin Shaham

LCH-227. Briana Davis

The effect of methylone self-administration on selected neuropeptide mRNA and protein levels in the dorsal striatum

University of Pittsburgh (Pennsylvania), University of Texas (Texas), Columbia University (New York)

Preceptors: Dr. Martin Job, Dr. Jean Lud Cadet

LCH-228. Aishwarrya Jayapal

Optogenetic Investigation of Septum Reward Circuitry

University of Maryland, College Park (Maryland)

Preceptors: Dr. Satoshi Ikemoto, Mr. Andrew Kesner

LCH-229. Suzhe Ji

Oxycodone Addiction Treatment of Antagonist on Dopamine D3 Receptor in Rats Model

University of Nevada, Reno (Nevada)

Preceptors: Dr. Zhi-Bing You, Dr. Zheng-Xiong Xi, Dr. Guohua Bi

LCH-230. Gloria Kim

Functions of Glutamate Neurons in the Ventral Tegmental Area

University of Maryland, College Park (Maryland)

Preceptor: Mrs. Marisela Morales

LCH-231. Michelle Lee

CAMPARI - a light-controlled irreversible marker of calcium-based in vivo neural activity

Johns Hopkins University (Maryland)

Preceptors: Dr. Rajtarun Madangopal, Dr. Bruce Hope

LCH-232. Jennifer Martin

Neural activity during rewarding behavior in face of adverse consequences

The State University of New York at Buffalo (New York)

Preceptors: Dr. Yavin Shaham, Dr. Yann Pelloux, Dr. Jennifer Bossert, Dr. Brian Sadacca

LCH-233. Ankit Mishra

Methamphetamine Self-Administration Regulates Specific Neuropeptide mRNA levels in the Hippocampus of the Rat.

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jean Lud Cadet, Dr. Irina Krasnova, Mr. Bruce Ladenheim

LCH-234. Lauren Mueller

Pavlovian two-step Daw task: a paradigm to differentiate decision-making strategies in rats

The State University of New York at Buffalo (New York)

Preceptors: Dr. Andrew Wikenheiser, Dr. Matthew Gardner, Dr. Melissa Sharpe, Dr. Geoffrey Schoenbaum

LCH-235. Adedoyin Olateru-Olagbegi

Incubation of methamphetamine craving after social-based voluntary abstinence

Massachusetts Institute of Technology (Massachusetts)
Preceptors: Dr. Marco Venniro, Ms. Michelle Zhang, Dr. Daniele Caprioli, Dr. Yavin Shaham

LCH-236. Chelsea Osuji

Differential Immediate Early Gene Expression in the Rat Dorsal Striatum after Methylone Self-Administration

Montclair State University (New Jersey)

Preceptors: Ms. Ndeah Terry, Dr. Jean Lud Cadet, Dr. Irina Krasnova

LCH-237. Raisa Rauf

Effect of METH self-administration on the expression of Fos and Jun transcription factors in the rat hippocampus

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Irina Krasnova, Dr. Bruce Ladenheim, Dr. Jean Lud Cadet

LCH-238. Trinity Russell

Optogenetic investigation of the basal ganglia-thalamic reward circuit

Wesleyan University (Connecticut)

Preceptors: Dr. Satoshi Ikemoto, Ms. Anne Pierce

LCH-239. Jill Taylor

Lateral Preoptic Projections to the Lateral Habenula

Towson University (Maryland)

Preceptors: Dr. David Barker, Dr. Marisela Morales

LCH-240. Shirley-Ann Tomdio

Effects of Cocaine Intake on the Response to Stressful Events during Withdrawal

George Washington University (District of Columbia)

Preceptors: Dr. Satoshi Ikemoto, Dr. Céline Nicolas

LCH-241. Yasmeen Walker

Expression of voltage-gated potassium channels in the nucleus accumbens of METH self-administering rats.

Institute of Notre Dame High School (Maryland)

Preceptor: Dr. Subramaniam Jayanthi

LCH-242. Catherine Xue

Exploring ligand-binding kinetics in the S2 site of MhsT by atomistic simulations and Markov models

Yale University (Connecticut)

Preceptors: Dr. Ara Abramyan, Dr. Lei Shi

National Institute on Deafness and Other Communication Disorders (NIDCD)

LCH-243. Jessica Afable

Evaluation of a Candidate Gene for Stuttering

Connelly School of the Holy Child (Maryland)

Preceptors: Ms. Jessica Root, Dr. Carlos Eduardo Frigerio Domingues, Dr. Dennis Drayna

LCH-244. Ashi Arora

Use of Inhibitors to Study Exosomes as a Mechanism of Protection Against Inner Ear Hair Cell Death

Wayne State University (Michigan)

Preceptors: Mrs. Lindsey May, Dr. Lisa Cunningham

LCH-245. Taimur Chaudhry, Christina Takla

Novel mutations in known deafness genes leading to varying degrees of hearing loss in Pakistani families

University Of Maryland, College Park (Maryland), Clarksburg High School (Maryland)

Preceptors: Dr. Thomas Friedman, Ms. Rabia Faridi

LCH-246. Rachel Hodge

Effects of tumor cell directed ionizing radiation on dendritic cell cellular antigen processing and cross presentation

Clemson University (South Carolina)

Preceptor: Dr. Clint Allen

LCH-247. Abigail Lemons

Lineage Tracing in the Developing Mammalian Cochlea

Colgate University (New York)

Preceptors: Dr. Kathryn Ellis, Dr. Michael Kelly, Mr. Joey Mays, Dr. Matthew Kelley

LCH-248. Galya Levinson

Factors Affecting the Ototoxicity of Amikacin

Towson University (Maryland)

Preceptors: Dr. Carmen Brewer, Dr. H. Jeff Kim, Dr. Chris Zalewski, Dr. Kelly King

LCH-249. Merete Lund, Cameron Williams

Deafness-causing gene encodes a protein that colocalizes with tubulin

College of William & Mary (Virginia), Fairmont Heights High School (Maryland)

Preceptors: Dr. Thomas Friedman, Ms. Ayesha Imtiaz

LCH-250. Steven Meisler

Examining Neural Audiovisual Object Processing through Large-Scale Neural Modeling

University of Pennsylvania (Pennsylvania)

Preceptors: Mr. Qin Liu, Dr. Barry Horwitz

LCH-251. Omolola Sanusi

Association of Parent's and Children's Weight Status with Children's Perception of Their Own Health.

Seneca Valley High School (Maryland)

Preceptors: Dr. Jack Yanovski, Ms. Shannon Marwitz

LCH-252. Lillian Sun

Modulation of Classical and Alternative NF- κ B Pathways in HPV Positive Head and Neck Squamous Cell Carcinoma

University of Maryland, College Park (Maryland)

Preceptors: Dr. Zhong Chen, Dr. Carter Van Waes

LCH-253. Charis Williams

Ototoxic Drug Induced Death of Inner Ear Hair Cells

George School (Pennsylvania)

Preceptors: Mr. Shimon Francis, Dr. Lisa Cunningham

National Institute of Mental Health (NIMH)

LCH-254. Gabriela Asturias

Effect of Repetitive Transcranial Magnetic Stimulation on the Structural Connectome in Patients with Major Depression

Duke University (North Carolina)

Preceptor: Dr. Zhi-De Deng

LCH-255. David Behrend

Impact of Reduced Sanitation Frequency on Mouse Cage Ventilation, Microbial Burden, and Animal Well-Being

Virginia-Maryland College of Veterinary Medicine (Virginia)

Preceptors: Dr. James Raber, Ms. Julia Drake, Mr. David Mallon, Ms. Johnetta Gray

LCH-256. Saronawit Belay

Database Application for Post-Mortem Toxicology Reports

Washington University in St. Louis (Missouri)

Preceptor: Mr. Robin Kramer

LCH-257. Nicholas Biniiaz-Harris

Cognitive subgroups in schizophrenia: Differences in polygenic risk?

Yale University (Connecticut)

Preceptors: Dr. Dwight Dickinson, Ms. Sofia Zaidman, Dr. Karen Berman

LCH-258. Prableen Chowdhary

Cellular Phenotypes in Sex Chromosome Aneuploidies

University of Maryland, College Park (Maryland)

Preceptors: Dr. Armin Raznahan, Ms. Jill Russ, Mr. Jonathan Blumenthal, Ms. Erin Torres

LCH-259. Eunice Chung

Neural processing of emotion and antidepressant response to ketamine in depressed patients

University of Maryland, College Park (Maryland)

Preceptors: Dr. Joanna Szczepanik, Dr. Jessica Ihne, Dr. Allison Nugent, Dr. Carlos Zarate

LCH-260. Donna Dadkhoo

An Analysis of Family Pathology Comparing Multi Dimensionally Impaired and Childhood Onset Schizophrenia Patients Screened in the Childhood Onset Schizophrenia Trial

Winston Churchill High School (Maryland)

Preceptors: Mrs. Diane Broadnax, Mr. Peter Gochman, Ms. Jessica Loving

LCH-261. Riley Davies

Synthesis of MC1 Analog, a Potential COX-2 Ligand Used for PET Imaging of Neuroinflammation

Oberlin College (Ohio)

Preceptors: Dr. Michelle Cortes, Dr. Robert Innis, Dr. Victor Pike

LCH-262. Zoe DeGrazia

Exercise on Anxiety and Cognition

Clark University (Massachusetts)

Preceptors: Ms. Abigail Hsiung, Ms. Tiffany Lago, Dr. Monique Ernst

LCH-263. Iris Denmark

Effects of Chronic Sleep Restriction on Hippocampal Dendritic Morphology

Jackson State University (Mississippi)

Preceptors: Dr. Michelle Sare, Dr. Carolyn Beebe-Smith

LCH-264. Thomas Donoghue

Can we use public control genotype data to boost power in genome-wide association studies?

University of Maryland, College Park (Maryland)

Preceptors: Dr. Nirmala Akula, Dr. Liping Hou, Dr. Francis McMahon

LCH-265. Lindsay Ejoh

Optogenetic Control of Glutamatergic Neurons of the Medial Amygdala Regulates Aggression

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Jacob Nordman, Dr. Zheng Li

LCH-266. Victoria Flagg

Migraine and Neuropsychological Factors in the NIMH Family Study

Brown University (Rhode Island)

Preceptors: Dr. Kathleen Merikangas, Mrs. Lihong Cui, Dr. Tara Lateef

LCH-267. Alisa Gao

Physiological Associations Between 7.5% CO₂-Evoked Panic and Anticipatory Anxiety in Healthy Individuals

Richard Montgomery High School (Maryland)

Preceptors: Dr. Nicholas Balderston, Mr. Jeffrey Liu, Dr. Monique Ernst, Dr. Christian Grillon

LCH-268. Merage Ghane

Whole-Brain Functional Connectivity as a Task-Independent Marker of Sustained Attention

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. David Jangraw, Dr. Peter Bandettini

LCH-269. Genevieve Gilson

The Inflamed Brain: Predictive Biomarkers of Depression

University of Virginia (Virginia)

Preceptors: Dr. Maryland Pao, Dr. Erica Richards

LCH-270. Anna Goodwin

High Field Imaging of the Hippocampus in Major Depressive Disorder

Hillsdale College (Michigan)

Preceptors: Dr. Carlos Zarate, Dr. Allison Nugent, Dr. Adam Thomas, Dr. John Lee

LCH-271. Bingham Guo

Labeling fighting experience dependent neural circuits in c-fos-tTA transgenic mice

George Washington University (District of Columbia)

Preceptors: Dr. Zheng Li, Dr. Kaizheng Duan

LCH-272. Marie Hatch

The Use of Melatonin in Special Pediatric Groups: An Updated Review

Walt Whitman High School (Maryland)

Preceptor: Dr. Ashura Buckley

LCH-273. Yidong Hu

Imaging Transient Electrical Currents with MRI

Johns Hopkins University (Maryland)

Preceptors: Dr. John Andrew Derbyshire, Dr. Peter Bandettini

LCH-274. Cherella Hughes

Follow-back Interview: A New Approach for Understanding the Time before Suicide Attempt

Fort Lewis College (Colorado)

Preceptors: Dr. Elizabeth Ballard, Dr. Carlos Zarate, Jr.

LCH-275. Hannah Jacobs

Effects of Adult Hippocampal Neurogenesis in Social Behavior of Male Mice

Wellesley College (Massachusetts)

Preceptors: Dr. Mumeko Tsuda, Dr. Heather Cameron

LCH-276. Tarun Kamath

The Interaction of Polymorphisms of the Catechol-O-Methyltransferase gene with Childhood Urbanicity on the fMRI response of the Dorsolateral Prefrontal Cortex in Siblings of Schizophrenic Patients

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Joseph Callicott, Ms. Daniela de Albuquerque, Ms. Teresa Vargas, Ms. Mei Lin Grunnagle

LCH-277. Prerana Katiyar

Using Neuroanatomical Techniques to Elucidate Roles of the Striatum, Basal Ganglia, and Thalamus in a Quantative Manner.

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Ron Paletzki, Dr. Charles Gerfen

LCH-278. Robert Kraff

The relationship between anxiety and the interpretation of facial kinesics

Walt Whitman High School (Maryland)

Preceptors: Mr. Brent Rappaport, Dr. Ashley Smith, Dr. Daniel Pine

LCH-279. Jessica Loving

Continuous Familial Symptom Rating: Application within Childhood-Onset Schizophrenia Cohort

Elizabethtown College (Pennsylvania)

Preceptors: Mr. Peter Gochman, Ms. Xueping Zhou, Dr. Judith Rapoport

LCH-280. Isabella Maita

Effects of chronic rapamycin on behavior in Fmr1 knockout mice

Lafayette College (Pennsylvania)

Preceptors: Dr. Carolyn Beebe-Smith, Dr. Michelle Sare

LCH-281. Miriam Menken

Using real time fMRI neurofeedback to modulate behaviorally relevant social networks in subjects with Autism Spectrum Disorder

Women's Institute of Torah Seminary (Maryland)

Preceptors: Dr. Michal Ramot, Ms. Sara Kimmich, Dr. Javier Gonzalez-Castillo, Dr. Alex Martin

LCH-282. Jamie Mondello

Characterization of Immune Cell Interactions with the Brain following Chronic Social Defeat

State University of New York (SUNY) at Binghamton (New York)
Preceptors: Dr. Miles Herkenham, Dr. Stacey Kigar

LCH-283. Aparna Nathan

Identification of differentially-expressed genes in mood disorders by RNA-seq analysis of postmortem brain tissue

Yale University (Connecticut)

Preceptors: Dr. Nirmala Akula, Dr. Francis McMahon

LCH-284. Tara Nibhanupudy

The Impact of Long Term Refrigeration on the Stability of Genomic DNA

Seminole High School (Florida)

Preceptors: Dr. Barbara Lipska, Dr. Bhaskar Kolachana

LCH-285. Michelle Noh

Neuronal Biophysics of Electroconvulsive Therapy

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Sarah Lisanby, Dr. Thomas Radman

LCH-286. Alexandra Payne

Chronic In vivo calcium imaging of CA2 pyramidal neurons in social memory paradigms

Washington University in St. Louis (Missouri)

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

LCH-287. Vindhya Rao

Histone Cluster 1 Implicated in Schizophrenia Pathogenesis in Han Chinese Using Protein Interaction Analysis

Cornell University (New York)

Preceptor: Dr. Yin Yao

LCH-288. Esme Roddy

Manipulating V1b CA2 Neurons: Effects on Maternal Aggression and Behavior in Mice

Pomona College (California)

Preceptors: Dr. Sarah Williams Avram, Dr. Scott Young

LCH-289. Victoria Rooke

Immunohistochemical Characterization of the Stress Circuits of the PVT

Walter Johnson High School (Maryland)

Preceptor: Dr. Mario Penzo

LCH-290. John Schwartz

Improving the Methodology to Detect Directional Connectivity in Ultra High Resolution Layer-Dependent fMRI at 7T

University of Southern California (California)
Preceptors: Dr. Laurentius Huber, Dr. Peter Bandettini

LCH-291. Emily Steffke

Neural Forensics: Deducing Surgical Success in Rodents via Nissl Staining and Immunohistochemistry

Michigan State University (Michigan)
Preceptor: Dr. Dietmar Plenz

LCH-292. Yeabsera Tadesse

Mapping the Anatomical Systems of Memory in the Primate Brain

Montgomery College (Maryland)
Preceptor: Dr. Richard Saunders

LCH-293. Miranda Tompkins

Axonal Trafficking of Mitochondrial ATP Synthase mRNA in Microfluidic Chambers

Walt Whitman High School (Maryland)
Preceptors: Dr. Barry Kaplan, Dr. Anthony Gioio, Ms. Jenna Gale

LCH-294. Evelien van Gelderen

Clinical Profiles of Patients with Functional Movement Disorder

Walter Johnson High School (Maryland)
Preceptors: Dr. Sarah Lisanby, Mrs. Valeria Martinez-Kaigi, Dr. Carlos Zarate

LCH-295. Aadith Vittala

A Network-Based Approach to Identifying Causal Genetic Pathways in Bipolar Disorder

Thomas Jefferson High School for Science and Technology (Virginia)
Preceptor: Dr. Yin Yao

LCH-296. Ali Waseem

Pharmacological Characterization of DAT and SERT and G beta gamma Induced Efflux

University of Maryland, College Park (Maryland)
Preceptors: Mrs. Jennie Garcia-Olivares, Mrs. Susan Amara

LCH-297. Marquitta Winston

Using 3D Printing Technology to Improve Brain Imaging

Prince George's Community College (Maryland)
Preceptor: Dr. Michael Gregory

LCH-298. Daniel Yasoshima

Automation of Behavioral Analysis via Object Tracking

University of Connecticut (Connecticut)

Preceptors: Dr. Benjamin White, Dr. Amicia Elliott, Dr. Feici Diao

LCH-299. Gabriela M. Zabala-Alemán

Evidence of Blood Brain Barrier Disruption in Mice Exposed to Chronic Social Stress

Universidad Central del Caribe (Puerto Rico)

Preceptors: Dr. Michael Lehmann, Dr. Miles Herkenham

LCH-300. Emily Zou

Using Protein Networks to Identify Genetic Overlaps between Schizophrenia and Bipolar Disorder

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Dr. Yin Yao

National Institute on Minority Health and Health Disparities (NIMHD)

LCH-301. Sarah Krosnick, Jonna Rautsola

What fuels the flames? An analysis of persuasive techniques in anti-tobacco advertisements

Barnard College, Columbia University (New York), Wake Forest University (North Carolina)

Preceptors: Dr. Sherine El-Toukhy, Dr. Kelvin Choi

LCH-302. Jonna Rautsola, Sarah Krosnick

Kicking the habit: Behavior change techniques in anti-smoking advertisements

Wake Forest University (North Carolina), Barnard College, Columbia University (New York)

Preceptors: Dr. Sherine El-Toukhy, Dr. Kelvin Choi

National Institute of Nursing Research (NINR)

LCH-303. Michaela Cortes

Magnetic Resonance Imaging as an Exploratory Outcome Measure in Clinical Trials for RYR-1 Related Myopathies

Texas Woman's University (Texas)

Preceptors: Ms. Sonia Razaqyar, Dr. Katherine Meilleur

LCH-304. Hannah Davidson

Eating Behavior in Chronically Stressed Individuals: Implications of the Brain-Gut Axis

Greenfield Community College (Massachusetts)

Preceptors: Dr. Paule Joseph, Dr. Nicolaas Fourie, Dr. Sarah Abey, Dr. Wendy Henderson

LCH-305. Ron Jako Domingo, Berwin Yuan

The Effect of Supplemental Intensity Modulated Radiation Therapy for Prostate Cancer on Late Urinary Flare

Seneca Valley High School (Maryland), University of Maryland, College Park (Maryland)

Preceptors: Dr. Rebekah Feng, Dr. Leorey Saligan

LCH-306. Timothy Fuss

Exploring the Relationship of Subjective and Objective Measures of Physical Activity in a Cancer Fatigue Study

University of North Dakota (North Dakota)

Preceptors: Dr. Brian Wolff, Dr. Leorey Saligan

LCH-307. Nicholas Giordano

Understanding the Biological Mechanisms Related to the Onset and Maintenance of Depressive Symptoms Following Military Deployment Trauma

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Jessica Gill

LCH-308. Samantha Grimes

Metabotropic Glutamate Receptors in T-cells

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Leorey Saligan, Dr. Rebekah Feng, Ms. Sumiyya Raheem

LCH-309. Courtney John

Individual Differences in Intestinal Permeability

Yakama Nation Tribal School (Washington)

Preceptor: Dr. Wendy A. Henderson

LCH-310. Joseph Johnson

Longitudinal Study of the Relationship between Cognitive Deficits and Cancer Related Fatigue

Northwest High School (Maryland)

Preceptors: Dr. Leorey Saligan, Dr. Rebekah Feng

LCH-311. Joy MODOZIE

Chronic Inflammation in Traumatic Brain Injury Relates to Behavioral Symptoms

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Jessica Gill, Dr. Lindsay Arcurio

LCH-312. Belviane Songong

The Novel Application of a Sorting Algorithm to Clinical Patient Data

Rice University (Texas)

Preceptors: Dr. Nicolaas Fourie, Dr. Wendy Henderson, Dr. Paule Joseph

LCH-313. Berwin Yuan

TRAIL Toxicity in Neuronal Cell Line

University of Maryland, College Park (Maryland)

Preceptors: Dr. Rebekah Feng, Dr. Leorey Saligan

National Cancer Institute (NCI)

PM-001. Nina Afsar

TTF-1 expression in gliomas: An evaluation of 285 cases and its clinical significance

Oberlin College (Ohio)

Preceptors: Dr. Drew Pratt, Dr. Martha Quezado

PM-002. Alia Alhomsy

Characterization of BRAF-driven melanoma development in an UV-induced mouse model

Northern Virginia Community College (Virginia)

Preceptors: Dr. Glenn Merlino, Dr. Helen Michael, Dr. Chiping Day

PM-003. Abel Amare

The Role of the BRAFV600E Inhibitor (PLX4720) in Thyroid Cancer Cells

George Washington University (District of Columbia)

Preceptors: Dr. Myriem Boufraquech, Dr. Electron Kebebew

PM-004. Shruti Anant

Identification of a Small Molecule Inhibitor of the T cell p38 Alternative Pathway

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Muhammad Alam, Dr. Jonathan Ashwell

PM-005. Danielle Arons

Using CRISPR-Cas9 Gene Editing to Delete Mesothelin from Pancreatic Cancer Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Christine Alewine, Mr. Michael Rudloff

PM-006. Rayann Atway

Over and Underscreening for Breast, Cervical, and Colorectal Cancers in Minority Older Adults (MOA) 75 Years and Older

Youngstown State University (Ohio)

Preceptors: Dr. Erica Breslau, Dr. Antoinette Percy-Laurry

PM-007. Melanie Baker

Creating and Analyzing Funding Opportunity Announcements

Charles R. Drew University of Medicine and Science (California)

Preceptors: Dr. Stephen Taplin, Mrs. Veronica Chollette

PM-008. Tamia Baker-Johnson

Role of FDG PET-CT in Urothelial Carcinoma Patients Treated with Cabozantinib

Springbrook High School (Maryland)

Preceptors: Dr. Andrea Apolo, Dr. Nicole Davarpanah

PM-009. Trevor Barlowe

TCR-beta Clonality in Thymic Progenitor Cells from NUP98-PHF23/NUP98-HOXD13 Double Transgenic Mice

Dartmouth Geisel School of Medicine (New Hampshire)

Preceptors: Dr. Subhadip Kundu, Dr. Eunsil Park, Dr. Yang-Jo Chung, Dr. Peter Aplan

PM-010. Caitlin Barrett

Heart Rate Variability across Adolescents and Young Adults with Neurofibromatosis Type 1 and Chronic Pain

American University (District of Columbia)

Preceptors: Dr. Staci Martin, Dr. Taryn Allen

PM-011. Rebecca Beasley

Investigating the Role of Lysyl Oxidase in Cells Infected with Kaposi Sarcoma Associated Virus

University of Alabama (Alabama)

Preceptors: Dr. Robert Yarchoan, Dr. David Davis, Dr. Prabha Shrestha

PM-012. Charlotte Beckford

DNA Methyltransferase Inhibitors Inactivate YAP and YES in RASSF1A Methylated Rhabdomyosarcoma Cell Lines

Richard Montgomery High School (Maryland)

Preceptors: Dr. Lee Helman, Mr. Choh Yeung

PM-013. Raina Bembry, Paul Hanona

Deep Phenotyping of Patients with Xeroderma Pigmentosum

Howard University College of Medicine (District of Columbia), Michigan State University (Michigan)

Preceptors: Dr. Kenneth Kraemer, Dr. John DiGiovanna

PM-014. Tzipporah Bergman

Novel Therapeutic Strategy for Glioma Patients Using a Mutant IDH1 Vaccine

Bnos Yisroel (Maryland)

Preceptors: Dr. Liat Goldberg, Dr. Daniel Edelman

PM-015. Eliana Berman

Improving Workflow for Medical Oncology in Tumor Response Calculation

Women's Institute of Torah Seminary/Gratz College (Maryland)

Preceptor: Dr. Andrea Apolo

PM-016. Gabriela Beug

Investigating the effect of Isoform-Specific Inhibitors on Heat Shock Protein 90 function in Cancer cells

German School Washington D.C. (Washington)

Preceptors: Dr. Leonard Neckers, Dr. Kristin Beebe

PM-017. Binayak Bhattarai

TIMP-2 Reduces the Invasion of LL/2 Cells via Diminishing the Activity of p38 Signaling Pathway

Montgomery College (Maryland)

Preceptor: Dr. Sarvesh Kumar

PM-018. Nechama Biberfeld

Ongoing ALCHEMIST Clinical Trial: Testing Targeted Agents in Early Stage Non-Small Cell Lung Cancer Patients

Yeshiva of Greater Washington (Maryland)

Preceptors: Dr. Daniel Edelman, Dr. Courtney Kurtyka

PM-019. Nechama Biberfeld, Elisheva Greenberg, Leah Wolfish

The Bnos Yisroel Bridge Program: A Novel Science Internship program at NIH

Me'Ohr Seminary (Non-U.S.), Bais Yaakov Machon Raaya Seminary (Non-U.S.), Bnos Yisroel High School (Maryland)

Preceptor: Dr. Daniel Edelman

PM-020. Nathan Birus, Bryce Renzi, John Thompson

A Genomics Data Analytics Platform to Support the NCI-MATCH Clinical Trials

Harding University (Arkansas), Duke University (North Carolina), Harding University (Arkansas)

Preceptors: Mr. David Patton, Mr. Brent Coffey

PM-021. Mary Boulanger

The Influence of Mitochondrial Inhibition on Cytotoxic Responses in Cisplatin Treated Esophageal Cancer Cells

University of Kentucky College of Medicine (Kentucky)

Preceptors: Dr. Taylor Ripley, Mrs. Deborah Depew, Dr. Paul Feingold, Dr. Yuan Xu, Dr. Kate Brown

PM-022. Zachary Braig

Developing a PDL1+ Extracellular Vesicle Liquid Biopsy for Personalized Immunotherapy

Eastern Virginia Medical School (Virginia)

Preceptors: Dr. Aizea Morales-Kastresana, Dr. Jennifer Jones

PM-023. Elizabeth Brauneis

Multiplex FISH Analysis of Chromosomal Instability in Nonalcoholic Steatohepatitis (NASH) Induced Hepatocellular Carcinoma and its Precursor Fatty Liver Disease Lesions

Oberlin College (Ohio)

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

PM-024. Luke Cai

Single nucleotide polymorphisms in several crucial transcription factor binding sites impact HLA-C promoter activity

Williams College (Massachusetts)

Preceptors: Ms. Bahara Saleh, Dr. Hongchuan Li, Dr. Stephen Anderson

PM-025. Withdrawn

PM-026. Aviva Caplan

Recent Advances in Fetal Hemoglobin Regulation for the Treatment of Sickle Cell Disease

Bais Yaakov of Baltimore (Maryland)

Preceptors: Dr. Jaira Vasconcellos, Dr. Daniel Edelman

PM-027. Tzipora Caplan

The mechanism of decreased fertility in women with Fragile X-Associated Primary Ovarian Insufficiency (FXPOI)

Temima High School (Georgia)

Preceptors: Dr. Xiaonan Zhao, Dr. Daniel Edelman

PM-028. Jennifer Cascino

Mapping Phage Lambda Functions that Inhibit E. Coli cAMP Levels

Wesleyan University (Connecticut)

Preceptors: Ms. Katherine Cascino, Ms. Nina Costantino, Dr. Lynn Thomason, Dr. Donald Court

PM-029. Alexis Catalano

Regulation of EGF Receptor Degradation by Flotillin Family of Proteins

Stone Ridge School of the Sacred Heart (Maryland)

Preceptor: Dr. Stanley Lipkowitz

PM-030. Duyania Cephas

Identifying Regions on Bacterial Hsp70 Involved in Species Specific Collaboration with Chaperones and Co-chaperones

Trinity Washington Univeristy (District of Columbia)

Preceptors: Dr. Sue Wickner, Dr. Shannon Doyle, Ms. Erin Doody

PM-031. Meredith Cervi

Unhealthy food advertisements may differentially influence sugar-sweetened beverage intake among racially and ethnically diverse adolescents

Purdue University (Indiana)

Preceptors: Dr. Tanya Agurs-Collins, Dr. Laura Dwyer, Dr. Chan Thai, Dr. Linda Nebeling

PM-032. Michael Chang

Tracking and Modeling the Clinical Translation of Nanotechnologies

Winston Churchill High School (Maryland)
Preceptor: Dr. Natalie Abrams

PM-033. Trinish Chatterjee

Stochastic Modeling of FUSE/FIR/FBP Dynamics on Myc Expression
University of Maryland, College Park (Maryland)
Preceptors: Dr. Eric Batchelor, Dr. Joshua Porter

PM-034. Jennifer Chen

CRISPR-Mediated Tagging of Proteins to Understand Breast Cancer Metastasis
Winston Churchill High School (Maryland)
Preceptors: Dr. Kent Hunter, Dr. Ngoc-Han Ha

PM-035. Megan Chen

Regulation of STAT3 and NFkB Signaling Pathways by DNMT3b in Breast Cancer Metastasis
Rutgers University (New Jersey)
Preceptors: Dr. Jae Young So, Dr. Li Yang

PM-036. Kevin Ching

Elucidating the Relationship between Matriptase and EpCAM
Washington University in St. Louis (Missouri)
Preceptors: Dr. Chuanjin Wu, Dr. Mark Udey

PM-037. Amul Choudhary

Quality of Life Assessment using MDASI in patients with Desmoid tumors treated with PF03084014
University of Maryland, Baltimore College (Maryland)
Preceptors: Dr. Geraldine O'Sullivan Coyne, Dr. Alice Chen, Dr. Robert Meehan

PM-038. Anna Christou

Studying Mutated Proteins in the Development of Breast Cancer
National Cathedral School (District of Columbia)
Preceptor: Dr. Jing Huang

PM-039. Hyunsoo Chung

Tissue residency and function of CD4⁺FoxP3⁺ regulatory T cells in the murine oral mucosa
Columbia University in the City of New York (New York)
Preceptor: Dr. J. Hyun Park

PM-040. Cameron Clarke

Effect of Single-Dose and Fractionated Radiation on Fatty Acid Synthesis
Howard University (District of Columbia)

Preceptors: Dr. Adeola Makinde, Dr. Norman Coleman

PM-041. Shalva Cohen

The Effects of the Neurotransmitter Norepinephrine on Cancer Progression

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Daniel Edelman, Ms. Sarah Deasy

PM-042. Katherine Curt

Combined Bromodomain and AKT Inhibitor Treatment Sensitizes KRAS Mutant Cancers to Histone Deacetylase Inhibitor Romidepsin

Boston College (Massachusetts)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

PM-043. Alyssa Damon

Polycyclic aromatic hydrocarbon (PAH)-DNA Adduct Formation in Cancer Susceptible Beluga Whales

University of Maine (Maine)

Preceptors: Dr. Miriam Poirier, Dr. Daniel Martineau, Mrs. Kathy Divi

PM-044. Anna Danilenko

Analysis of polymorphism in the IGHG1, IGHG2, and IGHG3 genes encoding constant heavy chains of immunoglobulin G subclasses.

Walter Johnson High School (Maryland)

Preceptors: Dr. Mary Carrington, Dr. Arman Bashirova

PM-045. Benjamin Davies

Investigating TACE Resistance Mechanisms in Hepatocellular Carcinoma

University of Cincinnati (Ohio)

Preceptors: Dr. Valerie Miller, Dr. Xin Wang

PM-046. Miranda Dawson

Gut microbiota regulates cisplatin induced system toxicity

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Soumen Roy, Dr. Giorgio Trinchieri

PM-047. Sophie Dean

Analysis of Non-B Subtypes of HIV in Washington D.C.: Diversity and Transmitted Drug Resistance

University of Maryland, College Park (Maryland)

Preceptor: Dr. Frank Maldarelli

PM-048. Emily DeBoy

Novel isoforms of lamin A/C

University of Maryland, College Park (Maryland)
Preceptors: Dr. Tom Misteli, Dr. Madaiah Puttaraju

PM-049. Yealshaday Demises

Novel RNA-based Therapeutic Agents for Cancers and Diseases
Montgomery College (Maryland)
Preceptors: Dr. Lorena Parlea, Ms. Cara Brainerd

PM-050. Korrina Duffy

The Association between Hormonal Therapies and Quality of Life in Breast Cancer Survivors
Duke University (North Carolina)
Preceptor: Dr. Paige Green

PM-051. Kiley Duncan, Brandon Shim

A Spitting Image in 3D: Visualization of Salivary Granule Fusion in Acinar Cells
Bridgewater College (Virginia), Cornell University (New York)
Preceptors: Dr. Kedar Narayan, Dr. Sriram Subramaniam

PM-052. Matthew Eason

All-trans Retinoic Acid Inhibits Perivascular Phenotypic Switching in the Pre-metastatic Microenvironment
University of Maryland, College Park (Maryland)
Preceptors: Dr. Meera Murgai, Dr. Rosandra Kaplan

PM-053. Josh Engel

The Effect of eIF4A Inhibition by SDS-1-021-(-) on Radiosensitivity
Landon School (Maryland)
Preceptors: Dr. Amy Wahba, Dr. Philip Tofilon

PM-054. Joshua Engels

Association Between Allergies and Other Immune-Related Conditions and Glioma Risk in a US Military Study
Walt Whitman High School (Maryland)
Preceptors: Dr. Ruth Pfeiffer, Dr. Alina Brenner

PM-055. Leila Ettehadieh

The development of a biomimetic platform for ex vivo culture of primary multiple myeloma
University of Maryland, College Park (Maryland)
Preceptors: Dr. Claire Meaney, Dr. Beverly Mock

PM-056. Hannah Feinman

Genetic Determinants of Docetaxel Sensitivity
Colgate University (New York)

Preceptors: Dr. Tristan Sissung, Dr. William D. Figg

PM-057. Kidus Feleke

Cell Cycle Dependent Regulation of Protein Expression in Endothelial Cells

Jackson State University (Mississippi)

Preceptors: Dr. Lisa Ritchey, Dr. Giovanna Tosato

PM-058. Yaeli Fink

Mutations in the Methylenetetrahydrofolate Reductase (MTHFR) Gene and Possible Adverse Effects on Pregnancy

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Alida Palmisano, Dr. Daniel Edelman

PM-059. Ann Foo

Impact of PI-RADSV2 in the Clinical Decision Making of Prostate Cancer

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ismail Baris Turkbey, Dr. Peter Choyke, Ms. Francesca Mertan

PM-060. Pete Foster

Using Human Squamous Cell Carcinoma to Investigate IKK-alpha's Response to Stress

Lake Erie College of Osteopathic Medicine (Pennsylvania)

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

PM-061. Sonia Francone

Modeling transporter cooperativity in cells transfected with the ATP-binding cassette transporters ABCB1 and ABCG2

Sewanee: The University of the South (Tennessee)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

PM-062. Dorian Frazier

The Structural Consequences of Allelic Variant in the Tor2 Heat Domains

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Patricia Wiley, Dr. Beverly Mock

PM-063. Esther Freedman

Optimization of Immunohistochemistry in a Rare Pancreatic Tumor and in Mice with Metastatic Thyroid Cancer

Bnos Yisroel of Baltimore (Maryland)

Preceptors: Dr. Naris Nilubol, Dr. Electron Kebebew, Dr. Daniel Edelman

PM-064. Matthew Fuchs

Identifying Unique Sequence Variants in Families with MonoMAC Syndrome

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Robert West, Dr. Dennis Hickstein

PM-065. Aliyah Gaines

Fate of tissue resident macrophages in peritonitis models

Hampton University (Virginia)

Preceptors: Dr. Romina Goldszmid, Dr. Shafiuddin Siddiqui, Ms. Sayeh Gorjifard

PM-066. Anurudh Ganesan

RNA Polymerase II Promoter: The Canonical "Winner" for Generating microRNA

Clarksburg High School (Maryland)

Preceptors: Ms. Angela DiNardo, Dr. Shou Gu

PM-067. Eric Joshua Garcia

Thrombospondin-1 modulate post-translational modification of Histone via CD47

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

Preceptor: Dr. Sukhbir Kaur

PM-068. Samson gebretnsae

Assembly and peptidase activity study of mature Clpp1p2

Johns Hopkins university (Maryland)

Preceptor: Dr. Michael Maurizi

PM-069. Gelare Ghajar-Rahimi

Subcellular Localization of NAT10 in Response to Metabolic Stress

University of Virginia (Virginia)

Preceptors: Dr. Shalini Oberdoerffer, Dr. Daniel Arango

PM-070. Heelah Gholian

Comprehensive Molecular Characterization of Liver Cancer

Darchei Binah Women's School for Advanced Torah Studies (Non-U.S.)

Preceptors: Dr. Anuradha Budhu, Dr. Marshonna Forgues, Dr. Xin Wang, Dr. Stephen Hewitt

PM-071. Matthew Go

Development of a Microarray Data Analysis Web Application Using Shiny

West Ranch High School (California)

Preceptors: Dr. Maggie Cam, Dr. Fathi Elluomi

PM-072. Ellen Goldstein

Regulatory Effects by ZNF148 on Pancreatic Cancer Susceptibility Loci on chr5p15.33

University of Wisconsin - Madison (Wisconsin)

Preceptors: Dr. Ashley Jermusyk, Dr. Laufy Amundadottir

PM-073. Rainier Gomez

Kaplan-Meier Minimization to Identify Prognostically Relevant Genes in Cancer

University of Maryland, College Park (Maryland)

Preceptors: Mr. Xinyu Wen, Dr. Javed Khan

PM-074. Reet Goraya

Expression of PD-1 and PDL-1 in Malignant Brain Tumors

Richard Montgomery High School (Maryland)

Preceptor: Mrs. Patricia Fetsch

PM-075. Nomi Gordon

Comparing Response Rates of Two Cediranib Trials in ASPS Tumors

Hebrew Theological College (Non-U.S.)

Preceptors: Dr. Alice Chen, Dr. Robert Meehan, Dr. Geraldine O'Sullivan Coyne

PM-076. Monica Gouzoulis

Analysis of Intra-patient Full Length HIV gag Sequences Reveal Regions of Genetic Variability

University of Maryland, College Park (Maryland)

Preceptors: Dr. Frank Maldarelli, Ms. Elizabeth Anderson

PM-077. Nikhil Gowda

Enhancing CCBP Workflows and Developing a VCF Browsing Tool

St. Bonaventure University (New York)

Preceptors: Dr. David Wheeler, Dr. Parthav Jailwala, Dr. Fathi Elloumi, Dr. Justin Lack

PM-078. Elisheva Greenberg

The Use of Erlotinib in Treatment of Non-Small Cell Lung Cancer

Landers College for Women (New York)

Preceptors: Ms. Selamawit Addissie, Dr. Daniel Edelman

PM-079. Juliana Gruver

Molecular Cytogenetic Analysis of FGFR1 and NCOA2 Gene Rearrangements in Pediatric Rhabdomyosarcoma Using Tumor Tissue Microarrays

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Svetlana Pack, Dr. Ziedulla Abdullaev

PM-080. Sabina Gudmundsson

Understanding the effects of HU Binding Non-Coding RNA on Chromosome Structure in Escherichia coli

Lehigh University (Pennsylvania)

Preceptors: Dr. Subhash Verma, Dr. Sankar Adhya

PM-081. Megha Guggari

Targeting the Survival of TFE3-fusion Kidney Cancer Cells

Poolesville High School (Maryland)

Preceptor: Dr. Carole Sourbier

PM-082. Laquaundra Hampton

Evaluation of the specificity of CRISPR-based knockouts in neutrophil-like PLB-985 cells

Hampton University (Virginia)

Preceptors: Dr. Bhagawat C. Subramanian, Dr. Carole A. Parent

PM-083. Chenchen Handler

TIMP-2 treatment effects in a murine model of triple negative breast cancer (TNBC)

Thomas A. Edison High School (Virginia)

Preceptor: Dr. Sandra Jensen

PM-084. Emerson Harris

Identification and Validation of Novel Candidate Susceptible Genes in Adrenocortical Carcinoma

Harvard-Westlake School (California)

Preceptors: Dr. Sudheer Gara, Dr. Electron Kebebew

PM-085. Shelby Hayes

The association of reproductive history with the risk of all-cause mortality among women diagnosed with non-small cell lung cancer

Ohio State University (Ohio)

Preceptors: Dr. Ashley Vargas, Dr. Curtis Harris, Ms. Elise Bowman

PM-086. Sylvia Herrada

Effect of Avelumab on the expression of immunomodulatory markers on bladder cancer lines

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jack Greiner, Dr. Maurice Morillon

PM-087. Brenda Ho

Clinical application of next generation sequencing: Analysis of Illumina library preparation protocols for FFPE tissue samples in cancer research

University of Maryland, College Park (Maryland)

Preceptor: Dr. Monika Mehta

PM-088. Jessica Ho

Development of a Droplet Digital PCR Assay for Pre-NGS Quality Assessment of DNA from FFPE Specimens

University of Georgia (Georgia)

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

PM-089. Karima Holmes

Characterization of Vaccine-Induced TARP-Specific Responses by Intracellular Cytokine Staining (ICS)

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Lauren Wood, Ms. Katherine McKinnon

PM-090. Luna Homsí

Purification of ABC Drug Transporters: Assessment of Protein Estimation Methods

University of Maryland, College Park (Maryland)

Preceptors: Dr. Suresh Ambudkar, Dr. Suneet Shukla

PM-091. Gregory E. Hoy

Genomic and Transcriptomic Analysis of 12q13-q14 Amplification in Human Cancer

Baylor University (Texas)

Preceptors: Dr. Frederic G. Barr, Dr. Wenyue Sun

PM-092. Kevin Hu

Donor-derived naive CD4+ T cells induce chronic graft-versus-host disease in a pre-clinical model

Eastern Virginia Medical School (Virginia)

Preceptor: Dr. Nataliya Buxbaum

PM-093. Caroline Huang

Investigating Interactions between Candidate Cooperating Genes and the Natural Product Schweinfurthin in Malignant Peripheral Nerve Sheath Tumors

Walnut High School (California)

Preceptors: Dr. Karlyne Reilly, Mr. Robert Tuskan

PM-094. Erin Huiting

Vaccine-mediated induction of Simian Immunodeficiency Virus Env-Specific Germinal Center B-cells in Rhesus Macaques

Colgate University (New York)

Preceptors: Dr. Marjorie Guroff, Dr. Sabrina Helmond

PM-095. Alissa Hummer

CRISPR/Cas9 Mediated Knockout of Glypican-3 in Hepatocellular Carcinoma

University of Oxford (Non-U.S.)

Preceptors: Dr. Mitchell Ho, Dr. Nan Li

PM-096. Maddie Hurwitz

Biological Characterization of Synthetic Alarmins

Stanford Online High School (California)

Preceptors: Mrs. Anna Trivett, Dr. De Yang, Dr. Joost Oppenheim

PM-097. Marsha-Kay Hutchinson

Blockade of CTLA-4 receptor alleviates dexamethasone-induced lymphopenia
Howard University (District of Columbia)

Preceptors: Dr. Amber Giles, Ms. Caitlin Reid, Dr. Mark Gilbert

PM-098. Abraham Ipe

miR-331-3p is a Novel Contributor of Disease Aggressiveness in Resected Pancreatic Cancer Patients

University of Maryland, College Park (Maryland)

Preceptor: Dr. Perwez Hussain

PM-099. Michelle Ji

Detection of tumor DNA in blood to determine the efficacy of T-cell based cancer immunotherapy in mice

Libertyville High School (Illinois)

Preceptors: Dr. Nicholas Restifo, Dr. Zhiya Yu

PM-100. Nancy Jiang

Dissecting the Interplay Between Gene Expression and Topography in 3D Culture Systems
Cornell University (New York)

Preceptors: Dr. Colin Paul, Dr. Kandice Tanner

PM-101. Whitney Jin

The Biochemical and Structural Study of AAA+ p97 inhibitors

Waubonsie Valley High School (Illinois)

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

PM-102. David Johnson

Paradoxical signaling of primed T cells

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Gregoire Altan-Bonnet, Dr. Alon Oyler Yaniv, Mrs. Jennifer Oyler Yaniv, Dr. Amir Erez

PM-103. Joy Johnson

Regulation of Phage Lambda Promoters by Repressors CI and Cro

Monterey Peninsula College (California)

Preceptors: Dr. Dale Lewis, Dr. Sankar Adhya

PM-104. Shaq Junaid

Determining the Penetrance of UGT1A1 Variants in Anticancer Therapy

Duke University (North Carolina)

Preceptors: Dr. Tristan Sissung, Dr. William D. Figg

PM-105. Anusha Kambala

Impact of mTOR Inhibition with Rapamycin on Metastatic Progression in Canine Osteosarcoma
University of Maryland, College Park (Maryland)
Preceptors: Ms. Christina Mazcko, Ms. Christine Tran Hoang, Dr. Arnulfo Mendoza, Dr. Amy LeBlanc

PM-106. Nathan Kappler

Validation of potential substrates of the E3 ubiquitin ligase Smurf2
Baylor University (Texas)
Preceptors: Dr. Adam Thomas, Dr. Ying Zhang

PM-107. Hameedah Khadar

Identifying New Molecular Markers for the Diagnosis of HLRCC Tumors
Winston Churchill High School (Maryland)
Preceptors: Dr. Xu Naizhen, Dr. Vanessa Moreno, Dr. Marston Linehan, Dr. Maria Merino

PM-108. Joshua Khan

SMCs produce extracellular matrix in response to tumor-derived factors that promotes tumor cell proliferation
University of Maryland, College Park (Maryland)
Preceptors: Mrs. Wei Ju, Dr. Meera Murgai, Dr. Rosandra Kaplan

PM-109. Shahrukh Khan

Expression of MUC-1 Protein on Bladder Cancer Cell Lines
College of Staten Island, City University of New York (New York)
Preceptors: Dr. Piyush Agarwal, Dr. Reema Railkar

PM-110. George Khludenev

In Search for Molecular Drivers in Diffuse Intrinsic Pontine Glioma: Characterization of DIPG Tumor Cell Lines by Spectral Karyotyping
George Washington University (District of Columbia)
Preceptors: Dr. Svetlana Pack, Dr. Zeidulla Abdullaev

PM-111. Ria Kidner

The Role of Serine Metabolism in Pediatric Sarcomas
New Mexico Institute of Mining and Technology (New Mexico)
Preceptors: Dr. Lee Helman, Dr. Sameer Issaq

PM-112. Bryce Killingsworth

Colorectal Cancer Extracellular Vesicle Identification by nanoFACS
University of California, San Diego (California)
Preceptors: Dr. Jennifer Jones, Dr. Aizea Morales Kastresana

PM-113. Justin Kim

Exploring Machine Learning for Cell Marker Tracking

Poolesville High School (Maryland)

Preceptors: Dr. Eric Stahlberg, Dr. George Zaki

PM-114. Sarah Kim

Uncertainty in the esophagus dose in retrospective epidemiological study of radiotherapy patients

Clarksburg High School (Maryland)

Preceptor: Dr. Choonsik Lee

PM-115. Jessica Kindrick

Effects of pH on the Physicochemical Properties of CRLX101, a Novel Nanopharmaceutical of Camptothecin

Georgetown College (Kentucky)

Preceptors: Dr. William D. Figg, Dr. Cody Peer, Dr. Keith Schmidt

PM-116. Vikraant Kohli

Strategies to Direct Localization of RNAs to Specific Subcellular Compartments

The University of Texas at Austin (Texas)

Preceptors: Dr. Tianhong Wang, Dr. Stavroula Mili

PM-117. Laurie Kostecka

Effect of IL-17A on keratinocyte migration and differentiation

University of Tampa (Florida)

Preceptors: Dr. Christophe Cataisson, Ms. Mary Klosterman, Dr. Stuart Yuspa

PM-118. Max Krause

Effects of HB21-PE40 and 806-PE38 Immunotoxins on the Viability of A431 Carcinoma Cells

Landon School (Maryland)

Preceptors: Dr. David FitzGerald, Dr. Nathan Simon

PM-119. Asha Kunchakarra

A Study of Protein A Mediated-Mitophagy Induced by Hypoxia

River Hill High School (Maryland)

Preceptors: Dr. Anling Zhang, Dr. Swati Choksi, Dr. Zhenggang Liu

PM-120. Sarah Lake

A Study of Glucocorticoid Receptor-Mediated Transcription at a Single Promoter Reporter Gene in Living Cells

Middlebury College (Vermont)

Preceptors: Dr. Diana Stavreva, Dr. Gordon Hager, Dr. Murali Palangat

PM-121. Wayne Lawrence

Exploring Germline Risk Variants in Osteosarcoma

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

Preceptors: Dr. Josh Waterfall, Dr. Yonghong Wang, Dr. Jack Zhu, Dr. Paul Meltzer

PM-122. Allyssa Lee

Evaluating p53 immunohistochemistry as a surrogate for mutation status in high grade gliomas

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Martha Quezado, Dr. Drew Pratt

PM-123. Alycia Lee

Knockout of LMO4 in Mouse Lin-Sca1+c-Kit+ Cells with CRISPR/Cas9

Wissahickon High School (Pennsylvania)

Preceptors: Dr. Avinash Bhandoola, Dr. Yueqiang Wang

PM-124. Jae woo Lee

Integrating Genomic and Proteomic Data to Understand the Role of CtBP in Breast Cancer

New York University (New York)

Preceptors: Dr. Kevin Gardner, Dr. Jung Byun

PM-125. Jonathan Legesse

Investigation into N-Myc Interaction

Wheaton High School (Maryland)

Preceptor: Dr. Zhihui Liu

PM-126. Hiwot Lema

Antibody-based Therapies against Rhabdomyosarcoma

Northwestern High School (Maryland)

Preceptors: Dr. Martin Skarzynski, Dr. Javed Khan

PM-127. Ben Levinson

PD-L1 as a Target in Glioblastoma

Northwestern University (Illinois)

Preceptors: Dr. Anita Tandle, Dr. Kevin Camphausen

PM-128. Bowen Lian

A Closer Look at the HIV-1 Rev Response Element: The Effect of Mutations in Domain I on Function

University of Maryland, College Park (Maryland)

Preceptors: Dr. Alan Rein, Ms. Demetria Harvin

PM-129. V. Rose Lieberman

In B. subtilis, a methyltransferase prmC coordinates morphogenesis of a static structure during sporulation

George Washington University (District of Columbia)

Preceptors: Dr. Kumaran Ramamurthi, Ms. Amanda Decker

PM-130. Ann Lih

Volumetric assessment, and its relation to RECIST 1.1 response, in patients with Desmoid tumors

Rutgers University (New Jersey)

Preceptors: Dr. Geraldine O'Sullivan, Dr. Les Folio, Dr. Laura Machado-Pichardo, Dr. Alice Chen

PM-131. Hanna Lindner

Regional Trends and Patterns in Prostate Cancer Incidence among Blacks and Whites in the United States

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Phil Rosenberg, Dr. Pavel Chernyavskiy, Dr. Scott Kelly, Dr. Bill Anderson

PM-132. Andrew Liu

Production, Purification, and Characterization of TIMP-2 from E.coli

Richard Montgomery High School (Maryland)

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

PM-133. Sophia Liu, Maxwell Bao

Biophysical Study of Nucleosome Recognition by ISWI ATPase

Montgomery Blair High School (Maryland), Liberty High School (Maryland)

Preceptors: Mr. Yawen Bai, Mr. Jingjun Hong

PM-134. Jacob Lu

RiboSketch: An Interactive Visualization Tool for Intermolecular Base Pairing

Walter Johnson High School (Maryland)

Preceptors: Dr. Eckart Bindewald, Dr. Bruce Shapiro

PM-135. Arushi Mahajan

A precise technique to trigger transformations in mesothelial cells: implications for mechanisms

University of Michigan (Michigan)

Preceptors: Dr. Chuong Hoang, Dr. Nisan Bhattacharyya, Dr. Anand Singh

PM-136. Mauricio Marquez Palencia

Exploring the Connection of Type III Interferons and PD-L1 Expression in Breast and Bladder cancer

University of California, San Diego (California)

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

PM-137. Erin Marshall

Structure and Function of Stapled Peptides targeting LUBAC
Hood College (Maryland)

Preceptors: Dr. Federico Bernal, Dr. Amanda Whiting, Dr. Merissa Baxter

PM-138. Jennifer Marshall

Synthesis of Novel Linkers for the Stable Presentation of Biologically Relevant Molecules on Nanoparticles

High Point University (North Carolina)

Preceptors: Dr. Joseph Barchi, Dr. Shailesh Ambre

PM-139. Monika Masanam

Effect of Mitochondrial Pyruvate Transporter Inhibition on Cancer Cell Radiation Response
Rutgers University (New Jersey)

Preceptor: Dr. Aparna Kesarwala

PM-140. Rebecca Matthews

Wnt-Regulated Transcription Factors Determine the Fate of Bipotential Embryonic Progenitors
University of Maryland, College Park (Maryland)

Preceptors: Dr. Ravindra Chalamalasetty, Dr. Robert Garriock, Mrs. Sara Thomas, Dr. Terry Yamaguchi

PM-141. Ann McElvein

The lineage-restricted transcription factor C/EBP α blunts the DNA damage response
University of California, Berkeley (California)

Preceptors: Dr. Anthony Tubbs, Dr. Andre Nussenzweig

PM-142. Charlotte Anne Miller

The Effect of Radiation Therapy on Glucose Transporter Levels in Glioblastoma versus Glioblastoma Stem-like Cell Lines

Holton-Arms (Maryland)

Preceptors: Dr. Elizabeth Spehalski, Dr. Kevin Camphausen

PM-143. Nina K. Min

Testing the Applicability of "Catch-and-release" Communication to Other Cytokines and Cell Types

University of Maryland, College Park (Maryland)

Preceptors: Mrs. Jennifer Oyler-Yaniv, Dr. Grégoire Altan-Bonnet

PM-144. Seog In Moon

Characterizing TMZ Sensitivity in IDH Mutant Gliomas
Amherst College (Massachusetts)

Preceptors: Dr. Yang Liu, Dr. Chunzhang Yang

PM-145. Brittni Moore

The Effect of UVB Light Treatment on the Expression of IKK{alpha} in Human (H520) Lung Carcinoma Squamous Cells

Pepperdine University (California)

Preceptors: Dr. Yinling Hu, Dr. Feng Zhu

PM-146. Caroline Moore

Patient Demographics at the NCI Early Phase Clinic: Trends over 5 years

San Diego State University (California)

Preceptors: Dr. Geraldine O'Sullivan Coyne, Dr. Alice Chen, Dr. Robert Meehan

PM-147. Brandon Mui

The Role of DNMT3b in Cancer Cell Clonal Evolution and Metastasis

Cornell University (New York)

Preceptors: Dr. Olga Aprelikova, Dr. Zhiguang Xiao, Dr. Li Yang

PM-148. Saida Muktar

Characterizing Cytokine Gene Expression in Mouse Peripheral Blood Mononuclear Cells Using Real-time PCR in a Model of Neurofibromatosis Type 1

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Souvik Karmakar, Dr. Karlyne Reilly

PM-149. Diego Munoz

Validation of a Murine Xenograft Model System For Gene Expression Analysis of Human Adrenocortical Cancer

Montgomery College (Maryland)

Preceptors: Dr. Kandice Tanner, Dr. King Leung Fung, Dr. Lyn Huff, Dr. Michael Gottesman

PM-150. Christina Murphy

A High Throughput Drug Screen Identifies Inhibitors of PAX3-FOXO in Pediatric Rhabdomyosarcoma

University of Notre Dame (Indiana)

Preceptor: Dr. Jack Shern

PM-151. Gillian Murray

Characterization of phage λ immunity terminator

Colgate University (New York)

Preceptors: Dr. Lynn Thomason, Dr. Don Court

PM-152. Eric Nguyen

Effect of GP78 on TRAIL sensitivity in triple negative breast cancer cell lines

Paint Branch High School (Maryland)
Preceptor: Dr. Stanley Lipkowitz

PM-153. Khoa Dang Nguyen

Different Data Analysis Platforms to Interrogate Quantitative Mass Spectrometry Data in 3rd Generation EGFR TKI Response

University of California, Irvine (California)

Preceptors: Dr. Udayan Guha, Dr. Tapan Maity, Dr. Xu Zhang

PM-154. Franklin Ning

Use of a Novel cIAP1 and XIAP Antagonist, SMAC-Mimetic in High-Grade Serous Ovarian Cancer

University of Maryland, College Park (Maryland)

Preceptors: Dr. Tina Annunziata, Dr. Kristen Zeligs

PM-155. Brittany Nixon

Determining cytotoxicity of anti-glypican 3 immunotoxins in human cancer cell lines

North Carolina Central University (North Carolina)

Preceptors: Dr. Bryan Fleming, Dr. Mitchell Ho

PM-156. Karen-Alexandra Noguez

IRB Actions to Improve Regulatory Compliance

Harvard University (Massachusetts)

Preceptors: Dr. Michael Gottesman, Dr. Julia Slutsman, Ms. Charlotte Holden, Dr. Lynnette Nieman

PM-157. Aishwarya Nugooru

CD47 is required for activation and clustering of the TCR/CD3/ Intraflagellar Transport Complex to the Immune Synapse

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Sukhbir Kaur, Dr. David Roberts

PM-158. Evanna Nyambura

Minimal residual disease detection using patient specific IGH CDR3 in HCL and HCLv

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Robert Kreitman, Dr. Arons Evgeny, Ms. Katherine Potocka

PM-159. Obadi Obadi

Genome Wide Chromatin Accessibility in 2-Hydroxyglutarate Treated Breast Cancer Cell Line

University of North Georgia (Georgia)

Preceptors: Dr. Wei Tang, Dr. Stefan Ambs, Dr. Prachi Mishra

PM-160. Taivan Odzorig

Expression, Purification and Biochemical Study of P-glycoproteins

University of Maryland, College Park (Maryland)

Preceptors: Dr. Di Xia, Dr. Fei Zhou

PM-161. Priscilla Offei

Digital and Volumetric Tumor Response Assessment in Patients with Advanced Metastatic HER2+ Tumors Receiving An Autologous AdHER2 Dendritic Cell Vaccine

Morgan State University (Maryland)

Preceptors: Dr. Lauren Wood, Dr. Laura Machado-Pichado, Dr. Les Folio

PM-162. Oluwole Olaku

Identifying Oncogenic Receptor Tyrosine Kinase Pathways in Urothelial Carcinoma of the Bladder

Morgan State University (Maryland)

Preceptors: Dr. Donald Bottaro, Dr. Andrea Apolo

PM-163. Ivannie Ortiz Rivera

Multi-Drug Resistance-Linked P-Glycoprotein (P-gp): Role of Non-Covalent Bonds in Substrate Interaction

University of South Florida (Florida)

Preceptors: Dr. Shahrooz Vahedi, Dr. Suresh Ambudkar

PM-164. Deborah Park

Uncovering LPA Signaling Cascades in Breast Cancer Cells

University of Illinois at Chicago (Illinois)

Preceptor: Ms. Christina Stuelten

PM-165. Swagata Patnaik

Determining the Effect of Differently Tagged Centromere Specific-Histone Variant CENP-A on Nucleosome Dynamics in Vivo

Northwestern University (Illinois)

Preceptors: Dr. Yamini Dalal, Dr. Daniël Melters, Dr. Minh Bui

PM-166. Rhema Paul

Development of a Doxycycline-Inducible System in a Melanoma Cell Line to Elucidate the Role of Fibronectin in a Murine Model System

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Fung King, Dr. Kandice Tanner

PM-167. Zaw Phy

An Allelic Variant of mTOR Leads to Different Proliferation Pattern in Mouse Embryonic Fibroblasts

University of California, Los Angeles (California)

Preceptors: Dr. Joy Gary, Dr. Snehal Gaikwad, Dr. Patricia Wiley, Dr. Beverly Mock

PM-168. Sydney Pimentel

Genetic Approaches to Understanding Regulated Proteolysis in Bacteria

University of California, Berkeley (California)

Preceptors: Dr. Susan Gottesman, Dr. Arti Tripathi

PM-169. Stephanie Pitts

Characterization of In Vitro Generated Osimertinib-resistant Lung Adenocarcinoma Cells

Brown University (Rhode Island)

Preceptors: Dr. Udayan Guha, Dr. Tapan Maity

PM-170. Lauren Pruett

Precise Quantitation of DNA Molecules Bound to Protein

Clemson University (South Carolina)

Preceptors: Dr. Hidetaka Ohnuki, Dr. Giovanna Tosato

PM-171. Grace Purec

Patterns of Cancer Recurrence after 25 years in Patients Randomized to Mastectomy or Breast Conservation Therapy on Protocol 79-C-0111

Women's Institute of Torah Seminary (Maryland)

Preceptor: Dr. DeeDee Smart

PM-172. Nancy Qin

Radiation Induced mTOR Signaling in Prostate Carcinoma Cells after Single and Fractionated Radiation

Walt Whitman High School (Maryland)

Preceptors: Dr. Molykutty Aryankalayil, Dr. Adeola Makinde

PM-173. Saqib Rana

Expression and Exploitation of Mesothelin in Certain Cancerous Cell Lines

Montgomery College (Maryland)

Preceptors: Dr. Swati Khanna, Dr. Raffit Hassan

PM-174. Mishal Rao, Sarah Baila Lazar

A Single-Molecule Study of Replication Origins in Mammalian Cells

University of Maryland, College Park (Maryland), Bais Yaakov School for Girls (Maryland)

Preceptors: Dr. Haiqing Fu, Dr. Christophe Redon, Dr. Mirit Aladjem

PM-175. Sneha Ravi, Jahnavi Prabhala

Radiation-Induced Senescence in MCF-7 Breast Cancer Cell Line

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

Preceptors: Dr. Murali Cherukuri, Dr. Chandra Nagineni, Dr. James Mitchell

PM-176. Yuval Raviv

Transforming Growth Factor- β (TGF- β) Directly Regulates Breast Cancer Stem Cell Dynamics
University of Maryland, College Park (Maryland)

Preceptors: Mr. Joshua Zent, Dr. Binwu Tang, Dr. Lalage Wakefield

PM-177. Erika Rees-Punia

Predicted Body Fat Percentage versus Body Mass Index and Waist Circumference as Predictors of All-Cause Mortality

University of Georgia (Georgia)

Preceptors: Dr. Charles Matthews, Dr. Sarah Keadle

PM-178. Bianca Reginauld

Differential regulation of cancer stem cell markers via TSP1 and SIRP Alpha
Eleanor Roosevelt High School (Maryland)

Preceptor: Dr. Sukhbir Kaur

PM-179. Alexander Restifo, Artemis Veizi, Pavan Ravindra

Atomic Resolution Structure Determination by Cryo-EM

Bethesda - Chevy Chase High School (Maryland), Thomas Jefferson High School for Science and Technology (Virginia), River Hill High School (Maryland)

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

PM-180. Andrea Robinson

Targeting the multidrug resistant transporter, P-glycoprotein, in a model of Adrenocortical Cancer.

University of North Texas (Texas)

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

PM-181. Louis Rodgers

Plasma and cerebrospinal fluid (CSF) pharmacokinetics of panobinostat following oral administration to nonhuman primates

Centre College (Kentucky)

Preceptors: Dr. Cody Peer, Dr. William Figg, Dr. Katherine Warren

PM-182. Danielle Rossi

The Effect of Estradiol Fluctuations on Transcription in Monolayers and 3D Cell Cultures
University of Maryland, College Park (Maryland)

Preceptors: Dr. Dan Larson, Dr. Joseph Rodriguez, Dr. Murali Palangat, Dr. Huimin Chen

PM-183. Jenna Salter

Assessing quantitative techniques for the use of [18F]FDG in PET/CT metabolic imaging to determine applicability in varying Patient Derived Mouse Xenograft models for co-clinical treatments

James Madison University (Virginia)
Preceptor: Dr. Joseph Kalen

PM-184. Santiago Sanchez

Oncogenic activation of the RNA binding protein AGO2 in hepatocellular carcinoma

University of Texas at Austin (Texas)
Preceptors: Dr. Hien Dang, Dr. Xin Wei Wang

PM-185. Jack Sanford

CRISPR/Cas9-based genetic modification of mouse signal-induced proliferation-associated 1 (SIPA1) gene with fluorescent mCherry tag and/or with inducible nuclear localization domain ERT2

Towson University (Maryland)
Preceptors: Dr. Kent Hunter, Dr. Karol Szczepanek, Dr. Ngoc-Han Ha

PM-186. Ontara Sarker

Analyzing the Role of 25-Hydroxycholesterol as a Part of the Innate Immune Response Against Herpesvirus Infection

University of Maryland, College Park (Maryland)
Preceptors: Dr. Joseph M. Ziegelbauer, Dr. Anna Serquina

PM-187. Pranavi Sayyaparaju

Identifying a Novel Molecule in the Inflammasome Pathway

River Hill High School (Maryland)
Preceptors: Dr. Moran Choe, Dr. Swati Choksi, Dr. Zhenggang Liu

PM-188. Hadassah Schwartz

Using Lipid Coated RNA Nanoparticles to Target Dendritic Cells for Cancer Immunotherapy

Bnos Yisroel of Baltimore (Maryland)
Preceptors: Dr. Daniel Edelman, Dr. Jessica Pierce

PM-189. Drake Scott

Examining Potential Correlations Between CD20/CD22 Expression Trends and Cytogenetic data including Hb count, Plt count, ALC and FISH Data for Cases of CLL, SLL and MBL

University of Maryland, College Park (Maryland)
Preceptors: Mrs. Dalia Salem, Mr. Greg Jasper, Mrs. Mary Alice Stetler-Stevenson, Mrs. Cathy McCoy

PM-190. John Sears

A Buffered Alcohol-Based Fixative for Histomorphologic and Molecular Applications

Colby College (Maine)

Preceptors: Dr. Joon-Yong Chung, Ms. Candice Perry, Mr. Kris Ylaya, Dr. Stephen Hewitt

PM-191. Matthew Seebald

Silencing DNA repair pathways using ECO/siRNA nanoparticles for the enhancement of radiation response in glioblastoma

The Landon School (Maryland)

Preceptor: Dr. Jennifer Lee

PM-192. Kishan Segu

Mapping the Interaction Site of the Arf GAP, ASAP1 PH, with the Arf1 Guanine Nucleotide Binding Protein

University of Maryland, College Park (Maryland)

Preceptor: Dr. Neeladri Roy

PM-193. Saadiya Sehareen

Investigating the role of CEBPD transcription factor in inflammatory breast cancer

University of Maryland, College Park (Maryland)

Preceptors: Dr. Balamurugan Kuppusamy, Dr. Esta Sterneck

PM-194. Ashlee Seldomridge

Antitumor Mechanism of Ketogenic Diet: Ketosis versus Hypoglycemia

West Virginia University (West Virginia)

Preceptors: Dr. Jinkyu Jung, Dr. Amber Giles, Dr. Mark Gilbert, Dr. Deric Park

PM-195. Claire Seo

Role of Akt Isoforms in Progression to Metastatic Status of Melanoma

Columbia University (New York)

Preceptors: Dr. Yanlin Yu, Dr. Glenn Merlino

PM-196. Gian Sepulveda

Understanding the Differences between Chimeric Antigen Receptor and Endogenous T Cell Receptor Signaling

Colgate University (New York)

Preceptors: Dr. Terry Fry, Dr. Eric Kohler

PM-197. Taresh Sethi

Cellular Topoisomerase I Inhibition and Antiproliferative Activity of Indenoisoquinolines Selected for Preclinical Development

Oakton High School (Virginia)

Preceptor: Dr. Keli Agama

PM-198. Griffin Shoemaker

Pomalidomide Induces Expansion of Activated and Central Memory CD4+ and CD8+ T-Cells, and Decreases Senescent CD4+ and CD8+ T-Cells in Patients with Kaposi Sarcoma
ETSU Quillen College of Medicine (Tennessee)

Preceptors: Dr. Thomas Uldrick, Dr. Robert Yarchoan, Dr. Irini Sereti

PM-199. Maham Siddiqui

Clinical Cytology and Signal Transduction Dysregulation: A Translational Approach in Mesothelioma using public genomic data repositories in conjunction with Nanostring nCounter expression analysis to identify disease associated profiles

University of Virginia (Virginia)

Preceptors: Dr. Mark Roth, Dr. Armando Filie

PM-200. Zoe Silsby

The Bcl-2/Bcl-xL inhibitor navitoclax with PARP inhibition results in greater cytotoxicity than monotherapy in ovarian cancer.

Boston College (Massachusetts)

Preceptors: Dr. Jung-Min Lee, Dr. Takuhei Yokoyama, Dr. Minshu Yu

PM-201. Gurbani Singh

Association of Clinical Morbidities and Plexiform Neurofibroma Volume Changes in Neurofibromatosis Type 1

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Brigitte Widemann, Dr. Andrea Gross, Ms. Andrea Baldwin, Dr. Eva Dombi

PM-202. Dylan Smith

In vitro Investigation of Lung Fibroblast Function of TIMP2 Mutant Mice

St. Mary's College of Maryland (Maryland)

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

PM-203. Jillian P Smith

Imaging Fluorescent CAR Constructs on Lentiviral Transduced T cells to Assess CAR Functionality

Jacobs School of Medicine (New York)

Preceptor: Dr. Terry Fry

PM-204. Mark Sokolsky

MYF6 Expression in Chronic B-Cell Malignancies

University of Maryland, College Park (Maryland)

Preceptors: Dr. Evgeny Arons, Dr. Robert Kreitman, Mr. Nathan Chai

PM-205. Sarah Solomon

Bridging qualitative and quantitative methods: A study of perceived influence of childhood cancer on the parents' marital/partner relationship

Swarthmore College (Pennsylvania)

Preceptors: Mrs. Marina Noronha Ferraz de Arruda Colli, Dr. Sima Zadeh, Dr. Lori Wiener

PM-206. Haein Son

Identifying the Role of Golgi Phosphoprotein 3 in Merkel Cell Carcinoma

University of Rochester (New York)

Preceptors: Dr. Isaac Brownell, Dr. Tara Gelb

PM-207. Heather Sonnemann

Alerting the Immune System by Removing Epigenetic Silencing of TH1 Chemokines

Arizona State University (Arizona)

Preceptors: Dr. Amber Giles, Ms. Caitlin Reid, Dr. Mark Gilbert

PM-208. Zachary Stanik

Training and Skills Assessment for MRI/TRUS Fusion-Guided Prostate Biopsy: End-Fire vs. Side-Fire Ultrasound Probes

Solon High School (Ohio)

Preceptors: Dr. Peter Pinto, Dr. Abhinav Sidana, Dr. Brad Wood

PM-209. Paul Stewart

Specific Targeting of Methylthioadenosine Phosphorylase (MTAP) Deficient Bladder Cancer Cells

Graceland University (Iowa)

Preceptors: Dr. Piyush Agarwal, Dr. Spencer Krane, Dr. Reema Railkar

PM-210. John-Tod Surgeon

Elucidating Metastatic Tendencies of Dormant Cells in a Brain Mimetic Niche

Howard University (District of Columbia)

Preceptors: Dr. Jack Staunton, Dr. Kandice Tanner, Ms. Alexis Devine, Dr. King Leung Fung

PM-211. Omid Tabatabaee

Characterization of an HLA-DP4-restricted NY-ESO-1 T Cell Receptor for Cancer Immunotherapy

Walt Whitman High School (Maryland)

Preceptor: Dr. Yong-Chen Lu

PM-212. Amin Tafti

The Effect of AGAP1 on the ATPase Activity of a Kinesin-13 Called KIF2A

Temple University (Maryland)

Preceptors: Dr. Ruibai Luo, Dr. Paul Randazzo

PM-213. Elena Takas

Synthesis of Novel Analogues of the Antiproliferative Factor (APF) Glycopeptide for Anticancer Nanoparticle Drug Design

Urbana High School (Maryland)

Preceptors: Dr. Joseph Barchi Jr., Dr. Shailesh Ambre

PM-214. Christopher Tao

Is Water Pipe Smoking Safer Than Cigarette Smoking? A Comparison of Cytokines Released from Immortalized Normal Airway Epithelial Cells

River Hill High School (Maryland)

Preceptors: Dr. Haobin Chen, Dr. David Schrump, Dr. Yin Xiong

PM-215. Emma Taylor

Biospecimen Repository: Providing human biomaterial to research investigators

Reservoir High School (Maryland)

Preceptors: Dr. Joseph Chinquee, Dr. Martha Quezado

PM-216. Betel Teka

To test the anti-tumor activity of Triapine (3-Aminopyridine-2-carboxaldehydethiosemicarbazone), a potent inhibitor of ribonucleotide reductase in Glioblastoma Multiforme

Georgetown University (District of Columbia)

Preceptor: Dr. Anita Tandle

PM-217. Kenya Thrasher

Effect of TGF-beta blockade on a therapeutic vaccine

Georgia State University (Georgia)

Preceptors: Dr. Masaki Terabe, Dr. Jay Berzofsky, Ms. Katharine Clark, Dr. Lauren Wood

PM-218. Leann To

Hfq-mediated control of mutS repair gene expression in Salmonella enterica LT2

Oklahoma City Community College (Oklahoma)

Preceptors: Dr. Jiandong Chen, Dr. Susan Gottesman, Mr. Francois de Mets

PM-219. Alexandra Toscano

A Pilot Study of Volumetric Tumor Analysis in Adenoid Cystic Carcinoma

Spencerville Adventist Academy (Maryland)

Preceptors: Ms. Molly Malarkey, Dr. Priscila Goncalves, Dr. James Gulley, Dr. Les Folio

PM-220. Tim Traynor

ROS Generation Following Proteasome Inhibition

University of Maryland, College Park (Maryland)

Preceptors: Dr. Beverly Mock, Dr. Snehal Gaikwad

PM-221. Marguerite Tucker

Validation of a DNA Methylation Assay for Analysis of Lung Cancer Clinical Samples

American University (District of Columbia)

Preceptors: Dr. Ana Robles, Dr. Curtis Harris

PM-222. Onyinyechi Ukaire

IFN-lambda4 is a Potent Inhibitor of Hepatic Cancer Cell Proliferation

Tufts University (Massachusetts)

Preceptors: Dr. Olusegun Onabanjo, Dr. Adeola Obajemu, Dr. Ludmila Prokunina

PM-223. Shriyash Upadhyay

5-hydroxymethylcytosine in E-Box motifs ACAT|GTG and ACAC|GTG increases DNA-binding of the B-HLH transcription factor TCF4 but not USF1

Montgomery Blair High School (Maryland)

Preceptors: Mr. Syed Khund-Sayeed, Dr. Charles Vinson

PM-224. Hailey Vann

Gene Expression Analysis of Cereblon in Human Relevant Models

Georgetown University (District of Columbia)

Preceptors: Ms. Shaunna Beedie, Dr. William D Figg

PM-225. Akhil Wali

Statistically Significant Genes Between Non Muscle Invasive Bladder Cancer and Muscle Invasive Bladder Cancer With Their Targeted Pathways

Montgomery College (Maryland)

Preceptors: Dr. Piyush Agarwal, Dr. Habtom Resson, Dr. Deepak Kumar, Dr. Kai Hammerich

PM-226. Kaitlyn Wang

Investigating Signaling Crosstalks in TGF-Beta Pathway

Richard Montgomery High School (Maryland)

Preceptors: Dr. Veenu Tripathi, Dr. Ying Zhang

PM-227. Lydia Wang

Activation of ADAM Metalloproteinases Promotes Necroptosis and Cell Migration

Poolesville High School (Maryland)

Preceptors: Dr. Zhenggang Liu, Dr. Swati Choksi, Dr. Zhenyu Cai

PM-228. Jazzmin Washington

Assessing synergistic drug response between the Unfolded Protein Response (UPR) and MAP-K pathways in melanoma

Gallaudet University (District of Columbia)

Preceptors: Dr. Kerrie Marie, Dr. Glenn Merlino

PM-229. Isabella Waung

Histone Methyltransferase as a Target for the Radiosensitization of Cancer Cells

Millburn High School (New Jersey)

Preceptors: Dr. Philip Tofilon, Dr. Barbara Rath

PM-230. Helen Webster

Role of Upf1 and HuR in a Novel 3'UTR Regulatory Mechanism in RAS Tumor Cells

Davidson College (North Carolina)

Preceptors: Dr. Jacqueline Salotti, Dr. Peter Johnson

PM-231. Ashley Williams

Dissecting in vivo Tumor Macrophage Interactions in Humanized Zebrafish (Danio rerio)

Georgia Southern University (Georgia)

Preceptors: Dr. Kandice Tanner, Dr. Colin Paul, Dr. King Leung Fung, Ms. Alexis Devine

PM-232. Maria Wissler

Enhancement of Tumor Cell Radiosensitization by a Novel CDK4/6 Inhibitor

Princeton University (New Jersey)

Preceptors: Dr. Sarwat Naz, Dr. James Mitchell, Ms. Anastasia Sowers

PM-233. Leah Wolfish

Molecular Mimicry and Its Potential Role in the Development of Multiple Sclerosis

Bnos Yisroel (Maryland)

Preceptors: Dr. Daniel Edelman, Dr. Dionne Robinson

PM-234. Hongjia Yang

Natural Killer Cells for HIV Eradication

Palisades Charter High School (California)

Preceptors: Dr. Dimiter Dimitrov, Mr. Wei Li

PM-235. Jennifer Park

A Functional Study of Human Mitochondrial ClpX and ClpP and Variants

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Michael Maurizi, Dr. Yang Zhang

PM-236. Ayobami Yoyin

Development of Non-Toxic Modulators for Multidrug Resistance-Linked ABC Drug Transporters

Colgate University (New York)

Preceptors: Dr. Suresh Ambudkar, Dr. Eduardo Chufan, Dr. Biebele Abel

PM-237. Jeffrey Yu

Identification and analysis of Helicobacter pylori and Epstein-Barr Virus nucleic acid sequences in gastric tissues

University of Maryland, College Park (Maryland)
Preceptors: Dr. Constanza Camargo, Dr. Charles Rabkin, Dr. Daoud Meerzaman

PM-238. Alex Zhang

Crystallization and X-ray diffraction studies of human-mouse chimeric and native human P-glycoprotein

University of Maryland, College Park (Maryland)
Preceptors: Dr. Lothar Esser, Dr. Di Xia

PM-239. Edward Zhao

NOX1 and NOX2 in Monocyte to Macrophage Differentiation

St. Albans School (District of Columbia)
Preceptors: Dr. Swati Choksi, Dr. Zhenggang Liu, Dr. Qing Xu, Dr. Chamila Kadigamuwa

PM-240. Daniel Zhong

Study on tumor heterogeneity using targeted enrichment of single-cell genomic DNA and next-generation sequencing techniques

Thomas Sprigg Wootton High School (Maryland)
Preceptor: Dr. Yong-Chen Lu

PM-241. Zhiying Zhu

Reproductive factors and risk of lung cancer: a systematic review and meta-analysis

City College of New York (New York)
Preceptors: Dr. Qing Lan, Dr. Wei Jie Seow

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

PM-242. Eleanor Belilos

Subtype-Specific Breast Cancer Survival Trends

Cornell University (New York)
Preceptors: Dr. Jennifer Gao, Dr. Sandra Swain, Dr. William Anderson, Dr. Philip Rosenberg

PM-243. Hannah Creutzfeldt, Elizabeth Chase

Geographic patterns in U.S. lung cancer incidence by histologic type

Wellesley College (Massachusetts), University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Rena Jones, Dr. Susan Devesa

PM-244. Kelsey Decker

The global pattern of epidermal growth factor receptor mutations in lung adenocarcinoma

Hood College (Maryland)
Preceptor: Dr. Wei Jie Seow

PM-245. William Figg

Mosaic PPM1D Protein Truncating Variants and Risk in Breast Cancer

Trinity College Dublin (Non-U.S.)

Preceptors: Dr. Mitchell Machiela, Dr. Timothy Myers

PM-246. Ernesto Gagarin

The effect of smoking on human gut microbiota

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Guoqin Yu

PM-247. Jessica Islam

Projections of cancer incidence among the HIV-positive population of the United States up to 2030

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

Preceptors: Dr. Meredith Shiels, Dr. Eric Engels

PM-248. Justin Joseph

Effects on Metabolites of Reduced Dietary Sodium: The Dietary Approaches to Stop Hypertension-Sodium (DASH)-Sodium Feeding Study

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Rachael Stolzenberg-Solomon, Dr. Andriy Derkach, Dr. Joshua Sampson

PM-249. Yonathan Kefelegn

Comparative Analysis of Personal Samplers: A Field Study

Milken Institute of Public Health, George Washington University (District of Columbia)

Preceptors: Dr. Melissa Friesen, Dr. Jason Wong

PM-250. christen Khella

Screening for SNVs associated with clonal hematopoiesis

Rutgers University (New Brunswick) (New Jersey)

Preceptors: Dr. Stephen Chanock, Dr. Mitch Machiela

PM-251. Natalie Kucharik

Associations of Breast Milk Erythropoietin and Lactoferrin Levels with HTLV-I Maternofetal Transmission in Jamaica

Tulane University (Louisiana)

Preceptors: Dr. Charles Rabkin, Dr. Maria Constanza Camargo

PM-252. Margaret Langhamer

Associations between biliary tract cancers and family history of cancers in the Biliary Tract Cancers Pooling Project (BiTCaPP)

Emory University Rollins School of Public Health (Georgia)

Preceptors: Dr. Jill Koshiol, Dr. Alison Van Dyke

PM-253. Seraph Han-Yin Lin

Identification of cellular factors regulating APOBEC3A and APOBEC3B expression in bladder cancer cell lines

Pasadena City College (California)

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

PM-254. Jessica Merberg

Identification/verification of a potentially deleterious CASP9 mutation in two Hairy Cell Leukemia (HCL) pedigrees and evaluation of the enzyme activity in cell lysates from affected and unaffected individuals

Boston College (Massachusetts)

Preceptors: Dr. Alex Pemov, Dr. Doug Stewart

PM-255. Adam Olson

NGS Analysis of Frequently Altered RCC Genes and Occupational Exposures to Carcinogens

Miami University (Ohio)

Preceptors: Dr. Lee Moore, Dr. Michael Nickerson

PM-256. Arbor Quist

Nitrate Ingestion from Drinking Water and Diet and Pancreatic Cancer among Postmenopausal Women

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Rena Jones, Dr. Mary Ward

PM-257. Sandhiya Ravichandran

Pulmonary Functions in Patients with Inherited Bone Marrow Failure Syndromes

Washington University in St. Louis (Missouri)

Preceptors: Dr. Blanche Alter, Dr. Neelam Giri

PM-258. Loredana Santo

A prospective study of circulating resistin levels and multiple myeloma risk

George Washington University (District of Columbia)

Preceptor: Dr. Jonathan Hofmann

PM-259. Ariana Savramis

Evaluation of Exome NGS to Confirm Variants in TCGA patients with Kidney Cancer

Maret School (District of Columbia)

Preceptor: Dr. Michael Nickerson

PM-260. Lucy Sun

Association Between Intake of Flavonoids and Incidence of Upper Gastrointestinal Cancers in the NIH-AARP Diet and Health Study

Harvard T.H. Chan School of Public Health (Massachusetts)

Preceptors: Dr. Jessica Petrick, Dr. Michael Cook, Dr. Katherine McGlynn

PM-261. Andrew Teng

Genomic Characterization of Human Papillomavirus 16

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Kai Yu, Dr. Lisa Mirabello

PM-262. Janelle Thomas

Functional Characterization of a Pancreatic Cancer Risk Locus on Chr13q22.1

George Washington University (District of Columbia)

Preceptors: Dr. Laufey Amundadottir, Dr. Jason Hoskins

PM-263. Natalie Turner

Age-specific incidence trends for non-cardia gastric carcinoma among younger and older adults

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

Preceptors: Dr. Kai Yu, Dr. Charles Rabkin, Dr. Phil Rosenberg, Dr. William Anderson, Dr.

Maria Constanza Camargo

PM-264. Rachel Ungar

Comprehensive Genomic Analyses of Autosomal Recessive Hoyeraal-Hreidarsson Syndrome

University of Arkansas (Arkansas)

Preceptor: Dr. Sharon Savage

PM-265. Eric Xiao

Systematic Review of the Impact of Smoking on Breast and Prostate Cancer Survivors

Montgomery Blair High School (Maryland)

Preceptor: Dr. Fangyi Gu

PM-266. Rona Yu

An Investigation of Association of Genetic Susceptibility Risk with Somatic Mutation Burden in Prostate Cancer

Montgomery Blair High School (Maryland)

Preceptor: Dr. Bin Zhu

PM-267. Clara Zettelmeyer

Exploring the effect of estradiol exposure on the expression of the APOBEC3 gene family in breast cancer cell lines

University of Edinburgh (Non-U.S.)

Preceptors: Dr. Ludmila Prokunina-Olsson, Dr. A. Rouf Banday, Ms. Krizia-Ivana Udquim

PM-268. Tracey Zhai

Microbiome associations by collection methods in two populations

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jianxin Shi, Dr. Emily Vogtmann, Dr. Xing Hua

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

PM-269. Mohammed Akbar

The Identification of the Promoter Region for the Gene Encoding the Small G-Protein Rem2

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Henry Puhl III, Dr. Stephen Ikeda

PM-270. Ayelet Berkowitz

Modulation of Dietary n-6 and n-3 Fatty Acids on White Adipose Tissue Fatty Acid Composition

The Siena School (Maryland)

Preceptors: Dr. Joe Hibbeln, Mr. James Loewke, Dr. Chuck Chen

PM-271. Lindsay Eberhart

The Role of Striatal D2 Receptors on Indirect Medium Spiny Neurons in Cocaine Reinforcement

Franklin and Marshall College (Pennsylvania)

Preceptor: Dr. Lindsay Eberhart

PM-272. Daniel Gao

The Role of Lipocalin 2 in Neutrophilic Inflammation caused by Infections and Injuries in Liver

Centennial High School (Maryland)

Preceptors: Dr. Bin Gao, Dr. Hongjie Li, Dr. Dechun Feng

PM-273. David Holovac

Cannabinoid 1 Receptor (CB1R) and Interferon Regulatory Factor 5 (IRF5) in Macrophages:

Role in Type-2 Diabetes?

Colonel Zadok A. Magruder High School (Maryland)

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

PM-274. Michelle Hu

Endoplasmic reticulum stress contributes to chronic-plus-binge ethanol feeding-induced liver injury

Thomas Sprigg Wootton (Maryland)

Preceptors: Dr. Yan Cai, Dr. Ming-jiang Xu, Dr. Bin Gao

PM-275. Dorsa Jalali

Developmental Studies on 129S1 and C57B6: Understanding Fear Extinction

Montgomery College (Maryland)

Preceptors: Dr. Olena Bukalo, Mr. Aaron Limoges, Dr. Mio Nonaka, Dr. Andrew Holmes

PM-276. Andrew Koch

Role of GSK-3beta in Striatum-dependent Behaviors

University of South Dakota (South Dakota)

Preceptors: Dr. Kari Johnson, Dr. David Lovinger

PM-277. Vanessa Kolb

The Role of Dopamine D2 Receptors in the Modulation of Consummatory Behaviors

University of Rhode Island (Rhode Island)

Preceptors: Dr. Miriam Bocarsly, Dr. Veronica Alvarez

PM-278. Kristina Murani

Effects of Circadian Rhythms on fMRI Brain Reward Responses to Subliminal and Consciously Perceived Food Cues

American University (District of Columbia)

Preceptors: Dr. Corinde Wiers, Dr. Jizheng Zhao, Dr. Dardo Tomasi, Dr. Gene-Jack Wang

PM-279. Rachel Qian

Effects of Ethanol Consumption on Protein Expression in Rat Amygdala

Poolesville High School (Maryland)

Preceptors: Dr. Hee-Yong Kim, Dr. Bill Huang

PM-280. Veronica Ramirez

Characterization of Physical Activity and Psychological Traits

University of San Diego (California)

Preceptors: Dr. Ehsan Shokri Kojori, Dr. Gene-Jack Wang

PM-281. Zichen Wang

Does alcohol drinking induce macrophages infiltration and inflammation in mouse stomach?

University of Maryland, College Park (Maryland)

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

PM-282. Elgin Yalin

Social Delay Discounting: How One's Peers Impact Impulsive Choice in Healthy Non-dependent Drinkers

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

PM-283. Andrew Yi

The Effect of Acute Ethanol Binge in Adipocyte Death

Richard Montgomery High School (Maryland)

Preceptors: Dr. Seung-Jin Kim, Dr. Bin Gao

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

PM-284. Naveen Ambati

Identifying RNA targets of hnRNP A2/B1, Argonaute 2 and Drosha by PAR-CLIP

University of Virginia (Virginia)

Preceptors: Dr. Aishe Sarshad, Dr. Markus Hafner

PM-285. Carensa Cezar

Trans-end mortality of patients with Systemic Lupus Erythematosus from 1960-present

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Michael Ward, Dr. Maria Tektonidou

PM-286. Rachel Darko

Integrating Signaling and Cellular Phenotyping to understand Inflammatory Disease due to NF- κ B Signaling Defects

Howard University (District of Columbia)

Preceptors: Dr. Eric Hanson, Dr. Younglang Lee

PM-287. Elijah Davis

Bisphosphonate Associated Proteinuria in Patients with SLE

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Sarfaraz Hasni, Dr. Ann Biehl

PM-288. Joshua Glazier

Dynamic Regulation of lymphocyte IL-18 Receptor Expression: The basis for susceptibility to Macrophage Activation Syndrome

University of Virginia (Virginia)

Preceptor: Dr. Scott Canna

PM-289. Sophia Gutierrez

Effect of ERAP1 Deficiency on Aberrant Forms of HLA-B27 Protein and UPR Gene Expression in HLA-B27 Transgenic Rats

Duke Ellington School of the Arts (District of Columbia)

Preceptor: Dr. Tri Tran

PM-290. Jazz Jacobs

Differences in circulating neutrophil extracellular trap (NET) complexes in healthy adult males and females: A surrogate marker for NETosis

Stevenson University (Maryland)

Preceptors: Dr. Mariana Kaplan, Dr. Sarthak Gupta, Ms. Nickie Seto

PM-291. Somin Kim

Single cell innate immune signaling coupled with functional analysis of transcription factors IRF3 and NF- κ B yields insights into inflammatory disease mechanisms

Emory University (Georgia)

Preceptor: Dr. Eric Hanson

PM-292. Kathleen Marinelli

The Association between FDG-PET Imaging and Disease Activity in Takayasu's Arteritis
Creighton University (Nebraska)
Preceptor: Dr. Peter Grayson

PM-293. James Perez

Can chromatin accessibility predict whether transcription factor binding activates or represses gene expression?

University of California, Santa Barbara (California)

Preceptor: Dr. Fred Davis

PM-294. Mary Rostom

Cloning and Purification of a Thermostable Reverse Transcriptase

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Daniel Benhalevy, Dr. Markus Hafner

PM-295. Erica Sadler

Deciphering the Role of the Mediator Complex in Mammalian Cells using CRISPR/Cas9 Technology

Cornell University (New York)

Preceptors: Dr. Laila el Khattabi, Dr. Daniel Chauss, Dr. Kyong-Rim Kieffer-Kwon, Dr. Rafael Casellas

PM-296. Tiahna Spencer

Rheumatoid Arthritis Fibroblast-Like Synoviocytes Produce IL-9 and Its Production is Regulated by Pro-Inflammatory Cytokines

University of Connecticut School of Medicine (Connecticut)

Preceptors: Dr. Carmelo Carmona-Rivera, Mr. Philip Carlucci, Dr. Mariana Kaplan

PM-297. Chrystal Thomas

AMPK Activation in Human and Mouse Bone Marrow Derived Macrophages

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Cornelia Cudrici, Dr. Richard Siegel

PM-298. Eugenia Zeng

The role of STAT3 in NLRP3-inflammasome activation

University of Rochester (New York)

Preceptors: Dr. Jehad Edwan, Dr. Robert Colbert

National Institute of Environmental Health Sciences (NIEHS)

PM-299. Mai-Han Trinh

The Impact of Pulmonary Infections and Alcohol Consumption on the Risk of Developing Anti-Synthetase Syndrome

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Adam Schiffenbauer

National Library of Medicine (NLM)

PM-300. Ruth Chang

Outlining an Open-Source Medical Graphics Library: User Interactivity and Asset Development

University of Toronto (Non-U.S.)

Preceptors: Ms. Anne Altemus, Mr. Donald Bliss

PM-301. Nola Chen

Improving the Giardia proteome annotation using clusters of orthologous domains

Northeastern University (Massachusetts)

Preceptors: Dr. Sergei Mekhedov, Dr. Eugene Koonin

PM-302. Peng Guo

Java-Based Deep Learning Network for Medical Informatics

Missouri University of Science and Technology (Missouri)

Preceptor: Mr. Rodney Long

PM-303. Deepa Gupta

Efficient fMRI processing using MATLAB and SPM on Hadoop

University of Maryland, Baltimore County (Maryland)

Preceptor: Mr. Leonard Rodney Long

PM-304. Emily Hendryx

Extracting Signals from Scanned ECG Images for Imaging Informatics Applications

Rice University (Texas)

Preceptor: Dr. Sameer Antani

PM-305. Farrah Hermes

Visualizing Complexity in Specific Genome Regions via RNA-Seq and Structural Variant Datasets

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Ben Busny

PM-306. Brendan Joyce

Developing User Friendly Graphics Utilities for the RAId Tandem Mass Spectrometry Database Search Tool

University of Maryland, College Park (Maryland)

Preceptors: Dr. Gelio Alves, Dr. Yi-Kuo Yu

PM-307. Cara Lwin

Massively Parallel Mapping of RNA-Seq Data to RefSeq with Magicblast
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Ben Busby

PM-308. Sanna Madan, Jill Mantel

Mutational Patterns and Signatures in Cancer Genomes
Poolesville High School (Maryland), Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Yoo-Ah Kim, Dr. Teresa Przytycka

PM-309. Alexander Mykris

Production and Testing of Medical-Imaging-Derived Anatomical Models For Use in a Prototype Open-Source Scientific 3D Model Library
University of Toronto (Non-U.S.)
Preceptors: Mrs. Kristen Browne, Ms. Anne Altemus

PM-310. Rebekah Narum

Semi-Automated Ground-Truth Data Collection and Annotation for Journal Figure Analysis
University of South Carolina (South Carolina)
Preceptors: Dr. Jie Zou, Dr. Sameer Antani

PM-311. Pruthvi Pota

Screening Metagenomic WGS Data for Nucleocytoplasmic Large DNA Viruses Using the Major Capsid Protein as Bait
Saint Louis University (Missouri)
Preceptors: Dr. Natalya Yutin, Dr. Yuri Wolf, Dr. Eugene Koonin

PM-312. Richard Wang

Computer Simulation of Protein Folding Using 2D Hydrophobic-Polar Lattice Model
Poolesville High School (Maryland)
Preceptor: Dr. Siqian He

Office of the Director (OD)

PM-313. Avi Aggarwal

National Institutes of Health Pathways to Prevention Program: Weighing the Evidence, Identifying the Research Gaps, and Disseminating to the Prevention Research Community
North Carolina State University (North Carolina)
Preceptors: Dr. Carrie Klabunde, Dr. Stephanie George, Dr. Elizabeth Neilson

PM-314. Tierra Robinson-Morgan

Antibiotic Effects on the Composting Process
University of Maryland University College (Maryland)
Preceptor: Mr. Edward Pfister

| MORNING SESSION | AM | 9:00 AM-11:00 AM |
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| LUNCH SESSION | LCH | 11:00 AM-1:00 PM |
| AFTERNOON SESSION | PM | 1:00 PM-3:00 PM |

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 Afable, JessicaLCH-243
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 Akakpo, DianeLCH-042
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| Costello, Charlotte | .AM-077 | Eisenman, Judah | .AM-252 | gebretnsae, Samson | .PM-068 |
| Coy, Eric | .AM-146 | Ejoh, Lindsay | .LCH-265 | Geiger, Sydney | .LCH-187 |
| Creutzfeldt, Hannah | .PM-243 | Ekekwe, Derick | .AM-011 | Geoca, Alexandra | .LCH-188 |
| Crosby, Kevin | .AM-078 | Elchert, Alexandra | .AM-172 | Gerber, Drew | .AM-175 |
| Crow, Jack | .AM-079 | Ellis, Tarek | .AM-147 | Ghajar-Rahimi, Gelare | .PM-069 |
| Cunningham, Catherine | .LCH-182 | Engel, Josh | .PM-053 | Ghane, Merage | .LCH-268 |
| Curt, Katherine | .PM-042 | Engels, Joshua | .PM-054 | Gholian, Heelah | .PM-070 |
| Dadkhoo, Donna | .LCH-260 | Esquinca, Adilene | .LCH-095 | Ghosh, Roy | .LCH-189 |
| Damon, Alyssa | .PM-043 | Esteves, Anabela | .LCH-096 | Gilson, Genevieve | .LCH-269 |
| Danchik, Carina | .AM-051 | Estrada, Katherine | .LCH-097 | Giordano, Nicholas | .LCH-307 |
| Danilenko, Anna | .PM-044 | Ettehadieh, Leila | .PM-055 | Giribhattanavar, Janhavi | .AM-176 |
| Darko, Rachel | .PM-286 | Faidas, Maria | .LCH-185 | Glazier, Joshua | .PM-288 |
| Das, Ria | .AM-170 | Fang, Francia | .AM-253 | Go, Matthew | .PM-071 |
| Davidson, Hannah | .LCH-304 | Faulkner, Mia | .LCH-208 | Goel, Aniket | .AM-258 |
| Davies, Benjamin | .PM-045 | Feinman, Hannah | .PM-056 | Goldstein, Ellen | .PM-072 |
| Davies, Riley | .LCH-261 | Feistritzer, Alexander | .AM-083 | Golub, Stephanie | .AM-086 |
| Davis, Andrew | .LCH-087 | Feleke, Kidus | .PM-057 | Gomez, Jordy | .LCH-190 |
| Davis, Brandon | .LCH-048 | Felix, Laura | .AM-012 | Gomez, Rainier | .PM-073 |
| Davis, Briana | .LCH-227 | Feng, Austin | .AM-254 | Gonzalez, Selena | .AM-259 |
| Davis, Elijah | .PM-287 | Fenton, Graeme | .AM-255 | Goodman, Ayelet | .LCH-101 |
| Dawson, Miranda | .PM-046 | Ferrari Escoto, Jorge | .LCH-016 | Goodwin, Adam | .AM-087 |
| De Raya, Jianne | .AM-080 | Figg, William | .PM-245 | Goodwin, Anna | .LCH-270 |
| Dean, Sophie | .PM-047 | Fink, Julia | .AM-013 | Goraya, Reet | .PM-074 |
| DeBoy, Emily | .PM-048 | Fink, Yaeli | .PM-058 | Gordon, Nomi | .PM-075 |
| Deck, Samuel | .AM-171 | Fisher, Emilie | .AM-084 | Gouzoulis, Monica | .PM-076 |
| Decker, Kelsey | .PM-244 | Fishman, Nicolas | .LCH-051 | Gowda, Nikhil | .PM-077 |
| Dedoulis, Christine | .LCH-183 | Flagg, Victoria | .LCH-266 | Goyal, Nikhil | .AM-015 |
| DeGrazia, Zoe | .LCH-262 | Flores, Alejandra | .AM-173 | Greenberg, Elisheva | .PM-078, PM-019 |
| Delaney, Dalton | .LCH-088 | Flower, Cameron | .LCH-098 | Greenblott, David | .AM-052 |
| Demises, Yealshaday | .PM-049 | Foo, Ann | .PM-059 | Grimes, Samantha | .LCH-308 |
| Deng, John | .LCH-089 | Fortna, Sarah | .AM-014 | Gripp, Emily | .LCH-052 |
| Denmark, Iris | .LCH-263 | Foster, Pete | .PM-060 | Grissom, Spencer | .AM-016 |
| Deshpande, Rajiv | .LCH-090 | Fowler, Lauren | .LCH-099 | Griswold, Kira | .AM-088 |
| Dinh, Duyhoang | .AM-081 | Francone, Sonia | .PM-061 | Gruver, Juliana | .PM-079 |
| Dissanayake Bogoda, Gishan | .LCH-091 | Frank, Marilyn | .LCH-005 | Gu, Aaron | .LCH-194 |
| Dittenthaler, Cole | .AM-250 | Frazier, Dorian | .PM-062 | Guan, Hannah | .AM-177 |
| Doan, Lan | .LCH-049 | Freebern, Ellen | .AM-174 | Gudmundsson, Sabina | .PM-080 |
| Domingo, Ron Jako | .LCH-305 | Freedman, Esther | .PM-063 | Guedes, Sabrina | .AM-017 |
| Domingo, Ron Ulric | .LCH-002 | Fu, Noah | .LCH-139 | Guggari, Megha | .PM-081 |
| Donaldson, Katelyn | .AM-251 | Fuchs, Matthew | .PM-064 | Guo, Bingham | .LCH-271 |
| Donoghue, Thomas | .LCH-264 | Fuksenko, Alex | .AM-267 | Guo, Jennifer | .LCH-053 |
| Dotson, Gabrielle | .LCH-050 | Fuss, Timothy | .LCH-306 | Guo, Peng | .PM-302 |
| Douglas, Bonnie | .LCH-014 | Gadson, Davetrina | .AM-256, AM-278 | Gupta, Deepa | .PM-303 |
| Drakopoulos, Michael | .LCH-092 | Gagarin, Ernesto | .PM-246 | Gutierrez, Sophia | .PM-289 |
| Driscoll, Riley | .LCH-137 | Gaines, Aliyah | .PM-065 | Hackbarth, Kevin | .LCH-054 |
| Dubick, Bethany | .LCH-138 | Galiano, Christina | .LCH-140 | Hagege, Ermias | .LCH-055 |
| Duffing Romero, Adelmut Xiadani | .LCH-093 | Ganesan, Anurudh | .PM-066 | Hall, Jessica | .AM-053 |
| Duffy, Korrina | .PM-050 | Gannot, Noam | .LCH-186 | Hampton, Laquaundra | .PM-082 |
| Duncan, Benjamin | .LCH-184 | Gao, Alisa | .LCH-267 | Han, Chen | .LCH-056 |
| Duncan, Kiley | .PM-051 | Gao, Daniel | .PM-272 | Handler, Chenchen | .PM-083 |
| Dunlow, Ryan | .LCH-094 | Gao, David | .AM-257 | Hanona, Paul | .PM-013 |
| Dwyer, Nathaniel | .AM-082 | Gao, James | .AM-295 | Harris, Ellen | .LCH-141 |
| | | Garcia Leiva, Citally | .LCH-155 | Harris, Emerson | .PM-084 |

| 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 |

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| Harrison, LucasAM-148 | Islam, RafiqueLCH-108 | Kikani, BijalLCH-194 |
| Harrison, SarahAM-089 | Ivanina, NatalieLCH-143 | Killingsworth, BrycePM-112 |
| Haskie, KaitlynAM-178 | Jacobs, HannahLCH-275 | Kim, CarolineLCH-158 |
| Hatch, MarieLCH-272 | Jacobs, JazzPM-290 | Kim, GloriaLCH-230 |
| Hayes, ShelbyPM-085 | Jain, ChiragLCH-060 | Kim, HyongAM-266 |
| Heil, BenjaminLCH-057 | Jalali, DorsaPM-275 | Kim, JonathanAM-099 |
| Hendryx, EmilyPM-304 | Jang, Seung JinLCH-109 | Kim, JustinPM-113 |
| Henke, TravisAM-090 | Jaramillo, ManuelaLCH-061 | Kim, SarahPM-114 |
| Hepler, CharlotteLCH-058 | Jayapal, AishwaryaLCH-228 | Kim, SominPM-291 |
| Herman, HarveyAM-260 | Jean, CatherineAM-263 | Kimmelman, EleanorLCH-195 |
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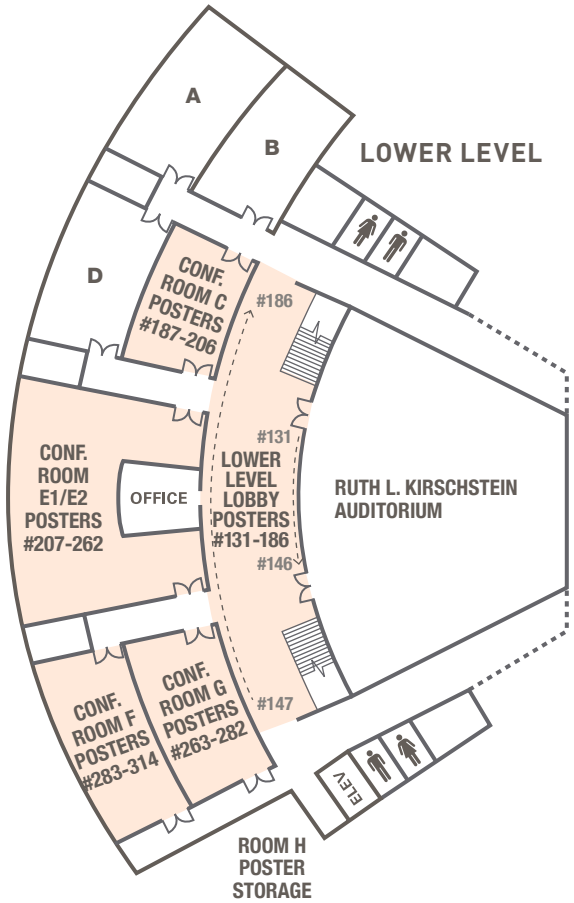
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