## NIH Summer Research Program Poster Day

**August 7, 2014**

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Note: the complete program for Summer Poster Day 2014, including poster titles, can be found at [https://www.training.nih.gov/assets/2014_Summer_Poster_Day_Program.pdf](https://www.training.nih.gov/assets/2014_Summer_Poster_Day_Program.pdf).
National Cancer Center (NCI)

1-AM. Asebot Abebe
Role of SCAMP3 in lung cancer-specific mutant EGFR signaling pathway
University of Maryland Baltimore (Maryland)
Preceptors: Dr. Abhilash Venugopalan, Dr. Udayan Guha

2-AM. Mona Abraham
Characterization and Gene Expression Profiling of TIMP2 Deficient Mice
Georgia Institute of Technology (Georgia)
Preceptors: Dr. Sarvesh Kumar, Dr. William StetlerStevenson

3-AM. Anya Alag
Expression of T-bet transcription factor in T cells regulates the recruitment of innate immune cells to the central nervous system of mice during experimental autoimmune encephalomyelitis
Georgetown Day High School (District of Columbia)
Preceptors: Dr. Vanja Lazarevic, Dr. Brandon Kwong

4-AM. Fatima Alam
Genome Editing Using CRISPR/TALEN Technology
George Washington University (District of Columbia)
Preceptors: Dr. Natalia von Muhlinen, Dr. Ana Robles

5-AM. Tiffany Alexander
Merkel Cell Polyomavirus Integration in Merkel Cell Carcinoma
Howard University College of Medicine (District of Columbia)
Preceptors: Dr. Kenneth Daily, Dr. Isaac Brownell

6-AM. Divya Angra
Obstetric and Gynecologic Health in Patients with Xeroderma Pigmentosum
George Washington University School of Medicine and Health Sciences (District of Columbia)
Preceptors: Dr. Kenneth Kraemer, Dr. John DiGiovanna, Mrs. Deborah Tamura, Dr. Melissa Merideth

7-AM. Shantel Angstadt
Evaluation of Heat-Shock Protein 90 Inhibition and mTOR Inhibition in Pediatric Sarcomas
Elizabethtown College (Pennsylvania)
Preceptors: Ms. Erin Gombos, Dr. Fernanda Arnaldez, Dr. Lee Helman

8-AM. Ashi Arora
Interaction Between CD47 and EGF Receptors on Breast Cancer Stem Cells
Novi High School (Michigan)
Preceptors: Dr. Sukhib Kaur, Dr. David Roberts

9-AM. Lillian Assatourian
Selective Killing of KRAS Mutant Cancer Cell Lines by HDAC Inhibitors in Combination
10-AM. Towqir Aziz  
*NADPH Oxidase 4 Is a Critical Mediator in Ataxia Telangiectasia Disease*  
University of North Carolina- Chapel Hill (North Carolina)  
Preceptors: Dr. Urbain Weyemi, Dr. Christophe Redon

11-AM. Shayan Azizi  
*Evaluation of Sensitivity to Taxanes in Peritoneal Mesothelioma Cells*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Raffit Hassan, Dr. Daniel AbateDaga, Dr. Swati Khanna

12-AM. Wenelia Baghoomian  
*Analyzing Candidate Genes with Trichothiodystrophy*  
University of California, Los Angeles (California)  
Preceptors: Dr. Christiane Kuschal, Dr. Kenneth Kraemer, Ms. Deborah Tamura, Dr. Sikandar Khan

13-AM. Michael Bale  
*Lack of association between baseline CD4+ T-cell count and the emergence of identical sequences*  
University of Kentucky (Kentucky)  
Preceptor: Dr. Mary Kearney

14-AM. Houria Balmakhtar  
*Clinical tools to evaluate the expression of gamma-H2AX as a biomarker for radiation-induced DNA damage*  
George Mason University (Virginia)  
Preceptors: Dr. William Bonner, Dr. Christophe Redon, Ms. Allison Burrell

15-AM. Ife Balogun, Gregory Roloff  
*Immunogenicity of a Quadravalent Human Papillomavirus Vaccine & Baseline HPV DNA Positivity in HIV-Positive and HIV-Negative Adolescents and Young Adults*  
Howard University College of Medicine (District of Columbia), University at Buffalo School of Medicine (New York)  
Preceptor: Dr. Lauren Wood

16-AM. Jenny Barriga  
*ATP hydrolysis-dependent polymerization of an unusual protein*  
Kansas State University (Kansas)  
Preceptor: Dr. Kumaran Ramamurthi

17-AM. Zakary Beach  
*Mobilization of Hematopoietic Stem/Progenitor Cells from the Bone Marrow to the Blood*  
University of Missouri - Columbia (Missouri)  
Preceptors: Dr. Giovanna Tosato, Dr. Hyeong Il Kwak
18-AM. Brittany Beall, Andrew Musick
Prefractionation of Natural Product Extracts Provides a Value-Added Resource for High-Throughput Anticancer Screening Applications
Hood College (Maryland), Hood College (Maryland)
Preceptors: Dr. Kirk Gustafson, Dr. Laura Cartner, Dr. Rich Fuller

19-AM. Joseph Bergman
Preparation of Oxime-ether Lipoplexes for siRNA Delivery in Breast Cancer Cells
Brunswick High School (Maryland)
Preceptors: Dr. Anu Puri, Dr. Kshitij Gupta

20-AM. Esther Bernstein
Neuroplasticity and Rehabilitaion for Learning and Memory Problems
Bnos Yisroel of Baltimore (Maryland)
Preceptor: Dr. Daniel Edelman

21-AM. Sonia Bhala
The Effect of CCR1 on Tumor Cell Viability, Proliferation, and Colony Formation
Raritan Valley Community College (New Jersey)
Preceptors: Ms. Hannah Yan, Dr. Li Yang

22-AM. Kavita Bhatnagar
Blocking Ezrin Can Inhibit HGF/Met Signaling-Induced Metastasis
Johns Hopkins University (Maryland)
Preceptor: Dr. Yanlin Yu

23-AM. Lillian Boyer
Molecular Analysis of Cytospins Using Expression Microdissection for Sample Simplification
Emory University (Georgia)
Preceptors: Dr. Michael Tangrea, Dr. Michael EmmertBuck

24-AM. Michelle Bradley
Mel-18 inhibition enhances tumorigenicity induced by Bmi-1 and H-Ras in breast cancer
Colgate University (New York)
Preceptors: Dr. Elisa Paolicchi, Dr. Constance BrignatzGuittard, Dr. Jeffrey Green

25-AM. Daniel Bronder
Single-cell analysis of genomic instability and chromosomal aneuploidies in cell cycle checkpoint and DNA repair defective colorectal cancer cell lines.
University of Glasgow (Non-U.S.)
Preceptor: Dr. Kerstin Heselmeyer-Haddad

26-AM. Ambar Caban
MicroRNA expression of high and low grade prostatic cancer
University of Puerto Rico at Mayaguez (Puerto Rico)
Preceptors: Dr. Maria Merino, Dr. Vladimir Varela, Dr. Peter Pinto

27-AM. Bryanna Canales
Investigating Variance of Telomere Length Measurements Based on the Use of Different DNA Extraction Methods
Master's Academy and College (Non-U.S.)
Preceptors: Dr. Daniel Edelman, Dr. Holly Stevenson, Ms. Allison Gomez, Mr. David Petersen

28-AM. Yiqi Cao
*Microfabricated Polymeric Vessel Mimetics for 3D Cancer Cell Culture in Matrigel*
University of Virginia (Virginia)
Preceptors: Mr. Thomas Pohida, Dr. Nicole Morgan, Dr. Michael Gottesman

29-AM. Jessica Caridi
*Donor Cell Leukemia*
Rutgers University School of Public Health (New Jersey)
Preceptor: Dr. Blanche Alter

30-AM. Katie Cascino
*Investigation of bacteriophage lambda genes on Hin and Bin effects in E. coli*
Colgate University (New York)
Preceptors: Dr. Donald Court, Dr. Lynn Thomason, Dr. Jim Sawitzke, Ms. Michelle Miron

31-AM. Mayukh Chakrabarti
*Tight Interaction of Helix 5 Analog with K-Ras4B G-domain: Implications for Potent Ras Inhibitor*
Johns Hopkins University (Maryland)
Preceptors: Dr. Ruth Nussinov, Dr. ChungJung Tsai, Dr. Buyong Ma

32-AM. Karina Chang
*Exploring the dramatic differences in PKCdelta modifications among the different members of the NCI-60 cancer cell line panel*
Montgomery Blair High School (Maryland)
Preceptors: Dr. Noemi Kedei, Dr. Peter Blumberg

33-AM. Kenny Chen
*Characterization of an Immunocompetent Mouse Model for Triple-Negative Breast Cancer*
University of California, Los Angeles (California)
Preceptors: Dr. Jeffrey Green, Dr. Olga Aprelikova

34-AM. Kevin Chen
*Validation of Novel Somatic Mutations Found by Whole Genome Sequencing of Metastatic Lung and Lymph Node of a Patient with Lung Adenocarcinoma*
Johns Hopkins University (Maryland)
Preceptors: Ms. Constance Cultraro, Dr. Udayan Guha

35-AM. Xixi Chen, Jordan Denny, Parker Gilkessson
*Quality of Long-term Stored Paraffin-Embedded Tissue for Use in Biomedical Research*
University of Maryland, Baltimore County (Maryland), Philadelphia University (Pennsylvania), Howard University (District of Columbia)
Preceptors: Dr. Joseph Chinquee, Dr. Stephen Hewitt, Dr. Martha Quezado, Dr. David Kleiner

36-AM. Michael Choi
*Calculation of Organ Radiation Dose in Patients Undergoing Fixed and Modulated Tube Current CT Exams*
College of William and Mary (Virginia)
Preceptor: Dr. Choonsik Lee
37-AM. Rohini Choudhuri
Characterization of a human H2AX Knockout cancer cell line: A new model for future genomic instability studies
University of Maryland, College Park (Maryland)
Preceptors: Dr. Urbain Weyemi, Dr. Christophe Redon

38-AM. Madison Churchill, Kelly Troutman
Structural Bioinformatics Study of Macromolecular Flexibility in Structures at Ultra-High Resolution: Methods
Catoctin High School (Maryland), Urbana High School (Maryland)
Preceptor: Dr. Raul Cachau

39-AM. Rudy Clausen
Mapping the Structure Space of the Ras Protein Using a Novel Hybrid Evolutionary Algorithm
George Mason University (Virginia)
Preceptors: Dr. Amarda Shehu, Dr. Buyong Ma, Dr. Ruth Nussinov

40-AM. Abigail Cleveland
Epigenetic and Signaling Pathway Inhibitors Potently Synergize in PAX3-FOXO1 Driven Rhabdomyosarcoma
Grove City College (Pennsylvania)
Preceptors: Dr. Javed Khan, Dr. Berkley Gryder, Dr. John Shern

41-AM. Tiffany Coates
Mutation of PIK3CA oncogene in gastrointestinal stromal tumors (GIST): Molecular genetic study of 400 cases.
University of Maryland College Park (Maryland)
Preceptors: Dr. Jerzy Lasota, Dr. Markku Miettinen, Dr. Anna FelisiakGolabek

42-AM. Charles Coomer
Comparison of methods to analyze HIV-1 plasma RNA using next-generation sequencing
Western Kentucky University (Kentucky)
Preceptor: Dr. Mary Kearney

43-AM. Amanda Corbel
Imaging human immunodeficiency virus type one infectivity using infrared fluorescent protein
Shepherd University (West Virginia)
Preceptors: Dr. Sean O'Brien, Dr. Brandon Keele

44-AM. Melissa E. Cox
NMR Study of the Drosophila ISWI ATPase domain
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Jingjun Hong, Dr. Hanqiao Feng, Dr. Yawen Bai

45-AM. Alice Cuccinelli
Collaboration of E. coli ClpB and DnaK in Protein Disaggregation
Hillsdale College (Michigan)
Preceptors: Dr. Shannon Doyle, Dr. Sue Wickner
46-AM. Katherine Curt  
*Romidepsin in combination with MAPK pathway inhibitors targets BRAF mutant cancers for cell death*  
Stone Ridge School (Maryland)  
Preceptors: Dr. Susan Bates, Dr. Robert Robey

47-AM. Ezzat Dadkhah  
*Analysis of CEBPD regulated genes in breast cancer cells*  
George Mason University (Virginia)  
Preceptors: Dr. Balamurugan Kuppusamy, Dr. Esta Sterneck

48-AM. Moez Dawood  
*Analysis of Immunoglobulin Variable Regions in Activated B cell-like Diffuse Large B Cell Lymphoma*  
Rice University (Texas)  
Preceptors: Dr. Roland Schmitz, Dr. Ryan Young, Dr. Louis Staudt

49-AM. Noelle Dayal, Rebecca Stokes  
*Cryo-Electron Microscopy of Metabolic Enzymes: Part I*  
Holton-Arms School (Maryland), Carnegie Mellon University (Pennsylvania)  
Preceptors: Dr. Soojay Banerjee, Dr. Lesley Earl, Dr. Mario Borgnia, Dr. Sriram Subramaniam

50-AM. Sophie Dean  
*Analysis of HIV populations in Greater Washington DC*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Frank Maldarelli, Dr. Catherine Rehm, Dr. Robin Dewar

51-AM. Callie Deng  
*The Role of BTB Transcription Factors in T-Cells*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Andrea Carpenter, Dr. Remy Bosselut

52-AM. Alexus Devine  
*Deconstructing Acinar Morphogenesis*  
Clark Atlanta University (Georgia)  
Preceptor: Dr. Kandice Tanner

53-AM. Micah Dunlap  
*Hydrogel DNA Vaccine Delivery Enhances Immune Response To Tumor Antigen*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. O.M. Zack Howard

54-AM. Carlos Echeverria  
*Role of RNA Binding Domains and Low Complexity Sequences in Hepatocellular Carcinoma*  
Loyola University Maryland (Maryland)  
Preceptor: Dr. Hien Dang

55-AM. Jonathan Edens  
*Role of NF-kappaB in Ovarian Cancer Tumor-Initiating Cells*  
Santa Rosa Junior College (California)
Preceptors: Dr. Carrie House, Dr. Christina Annunziata

56-AM. Adrian Eiden
The Role of mTOR in the Innate Immune Response of B cells
University of Maryland (Maryland)
Preceptor: Dr. Shuling Zhang

57-AM. Clara Ekezie
CD47 regulation of the NRF2 antioxidant response pathway for radioprotection of endothelial cells
Wylie High School (Texas)
Preceptors: Dr. Anthony Schwartz, Dr. David Roberts

58-AM. Ahmed Elnaiem
Symptoms, Functional Status, and Health-Related Quality of Life During and Following Treatment for Multiple Myeloma
Bucknell University (Pennsylvania)
Preceptors: Dr. Sandra Mitchell, Dr. Erin Kent

59-AM. Corbin Ester
Polycyclic aromatic DNA adduct formation in whales inhabiting polluted cancer-prone waters
Appalachian State University (North Carolina)
Preceptors: Dr. Miriam Poirier, Mrs. Kathyayini Divi

60-AM. Justin Evans
The Roles of Isopropanol vs. Xylene throughout Tissue Processing
Northridge Preparatory (Illinois)
Preceptors: Dr. Stephen Hewitt, Mr. Kris Ylaya

61-AM. Ashlie Feldman
Glutamine metabolism as a determinant of cell proliferation, aberrant 2-hydroxyglutarate accumulation, and patient survival in breast cancer
Towson University (Maryland)
Preceptors: Dr. Stefan Ambs, Mrs. Tiffany Dorsey

62-AM. Evin Feldman
Cytokine secretion by B-cells pre and post-SIV challenge.
George Washington University (District of Columbia)
Preceptors: Dr. Thorsten Demberg, Ms. Kathy McKinnon, Dr. Marjorie RobertGuroff

63-AM. Amy Flis
Exploring the role of the dopamine axis in lung cancer development
Purdue University College of Veterinary Medicine (Indiana)
Preceptors: Dr. Brid Ryan, Dr. Oscar Vidal

64-AM. Dominique Gales
Differentiation Expression of hsa-miR-17-92 cluster in Human Prostate Cancer Cell Lines after Single and Fractionated Radiation.
Tuskegee University (Alabama)
Preceptors: Dr. C.Norman Coleman, Dr. Moly Aryankalayil
65-AM. Yucheng Gao
Activation of RhoA in Gastric Cancer
University of Virginia (Virginia)
Preceptors: Dr. Xiaolan Qian, Dr. Doulas Lowy

66-AM. Graciela Garcia
Investigation of Replication Profiles and DNA Damage Response in Replicator Binding Protein (RepID) Knockout Cell Lines
Nightingale-Bamford School (New York)
Preceptors: Dr. Mirit Aladjem, Dr. Kohichi Utani, Dr. Haiqing Fu

67-AM. Sophia Gauthier
3D Cultures of Hepatocellular Carcinoma
Johns Hopkins University (Maryland)
Preceptors: Dr. Yifan Zhang, Dr. Mitchell Ho

68-AM. Heelah Gholian
Stress related Ulcers in the Gastrointestinal Tract
Bnos Yisroel of Baltimore (Maryland)
Preceptor: Dr. Daniel Edelman

69-AM. Natalie Gilbert
Analysis of YrfF: A Bacterial Transmembrane Regulator Protein Involved in Capsule Synthesis
Iowa State University (Iowa)
Preceptors: Dr. Susan Gottesman, Dr. Nadim Majdalani

70-AM. Rachel Gilbert
Localization of ribosomal protein mRNAs in highly motile cancer cells
Cornell University (New York)
Preceptors: Dr. Voula Mili, Dr. Sarah ClatterbuckSoper, Dr. Tianhong Wang

71-AM. Sofia Girald Berlingeri
Cyclin D1 oncogene validation in childhood soft tissue sarcomas
University of Puerto Rico at Cayey (Puerto Rico)
Preceptors: Dr. Marielle Yohe, Dr. James Madigan, Dr. Javed Khan, Dr. Michael Gottesman

72-AM. Shaimar Gonzalez
Do the same cells that express sonic hedgehog also respond to it? Implications for morphogen function in the limb
Marshall University (West Virginia)
Preceptors: Dr. JianJian Zhu, Dr. Susan Mackem

73-AM. Naomi Gordon
Deep Brain Stimulation as a Treatment for Epilepsy
Bnos Yisroel of Baltimore (Maryland)
Preceptor: Dr. Daniel Edelman

74-AM. Monica Gouzoulis
Fine Structure Genetic Analysis of HIV Populations in Gut-Associated Lymphoid Tissue and Peripheral Blood after Long-Term Antiretroviral Therapy
Oakdale High School (Maryland)
Preceptors: Dr. Francesco Simonetti, Dr. Frank Maldarelli, Mr. Shawn Hill

75-AM. Andrew Grand-Pierre
Analyzing the Behavior of Histone Variants in Cancer Cell Lines
Norfolk State University (Virginia)
Preceptors: Dr. Catherine Volle, Dr. Yamini Dalal

76-AM. Tiera Grant
AKT-dependent phosphorylation of DLC1 tumor suppressor protein inhibits the RhoGAP activity of DLC1
Hampton University (Virginia)
Preceptor: Dr. Brajendra Tripathi

77-AM. Christian Guerrero
Cancer Chemotherapy and the ABCG Drug Transporters
Boise State University (Idaho)
Preceptors: Dr. Sunee Shukla, Dr. Suresh Ambudkar

78-AM. Erik Gunnarsson
The Role of ATIA in Lung Tumorigenesis
Thomas S. Wootton High School (Maryland)
Preceptors: Dr. Yan Zhang, Dr. Swati Choksi, Dr. Zhenggang Liu

79-AM. Emine Guven-Maiorov
Structural Toll-like receptor pathway may illuminate its roles in inflammation and cancer crosstalk
Koc University (Istanbul, Turkey)
Preceptor: Dr Ruth Nussinov

80-AM. Andrew Hanna
Drugging Super Enhancers in Fusion-Transcription Factor Driven Rhabdomyosarcoma
Georgetown University (District of Columbia)
Preceptors: Dr. Berkley Gryder, Dr. John Shern, Dr. Javed Khan

81-AM. Peter Hansen
Development of Scientific Genomic iPhone and iPad Apps
Walter Johnson High School (Maryland)
Preceptors: Dr. Javed Khan, Dr. Xinyu Wen

82-AM. Sylvia Herrada
Spatial Mechanisms of Drug Resistance in Cancer
University of Maryland (Maryland)
Preceptors: Dr. Michael Gottesman, Dr. Orit Lavi, Mrs. Carol Cardarelli

83-AM. Stephanie Hess
Analysis of the N-end rule dependent degradation of PATase in E. Coli
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Michael Maurizi, Dr. Matthew Humbard
**84-AM. Alexandra Hill**  
*Potential Diagnostic Utility of Beta-Catenin, Heat Shock Protein 70, and Glutamine Synthetase in Fine Needle Aspirates and Corresponding Biopsies of Benign and Malignant Liver Lesions*  
College of Southern Maryland (Maryland)  
Preceptors: Ms. Patricia Fetsch, Dr. Armando Filie

**85-AM. Brenda Ho**  
*Comparative analysis of nucleic acid quality control platforms used in the high-throughput CCR-Sequencing Facility*  
University of Maryland - College Park (Maryland)  
Preceptor: Mr. Castle Raley

**86-AM. Jennifer Hofmann**  
*Triggering RNA interference with RNA-RNA, RNA-DNA, and DNA-RNA nanoparticles*  
Massachusetts Institute of Technology (Massachusetts)  
Preceptors: Dr. Kirill Afonin, Dr. Bruce Shapiro, Dr. Mathias Viard

**87-AM. Louis (Bobby) Hollingsworth, Sang Jun Park**  
*Cryo-Electron Microscopy of Metabolic Enzymes: Part II*  
Virginia Polytechnic Institute and State University (Virginia), Homestead High School (Indiana)  
Preceptors: Dr. Soojay Banerjee, Dr. Lesley Earl, Dr. Mario Borgnia, Dr. Sriram Subramaniam

**88-AM. Timothy Holzberg**  
*Using protein binding microarrays to dissect transcription factor binding specificity: Effect of CG dinucleotide methylation on the binding specificity of ATF4 and its heterodimers with other bZIP transcription factors*  
University of Maryland (Maryland)  
Preceptors: Dr. Sayeed Syed, Dr. Charles Vinson

**89-AM. Luna Homsi, Annie Xu**  
*Cryo-Electron Microscopy of Metabolic Enzymes: Part III*  
Poolesville High School (Maryland), Montgomery Blair High School (Maryland)  
Preceptors: Dr. Soojay Banerjee, Dr. Lesley Earl, Dr. Mario Borgnia, Dr. Sriram Subramaniam

**90-AM. Ellen Hong**  
*Metastatic Osteosarcoma Cells’ Ability to Adapt to Redox Stress in the Lung Microenvironment*  
Cornell University (New York)  
Preceptors: Dr. Michael Lizardo, Dr. Chand Khanna, Dr. Lee Helman

**91-AM. Zacharia Hosseinipour**  
*USP21 Modulates DNA Double Strand Break Repair*  
University of Virginia (Virginia)  
Preceptors: Dr. Philipp Oberdoerffer, Dr. Jinping Liu, Dr. Andy Tran

**92-AM. Tiffany Hu**  
*Complex patterns of phosphorylation in PKCdelta suggest differential function among NCI 60 cancer cells*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Jessie Chen, Dr. Noemi Kedei, Dr. David Goldstein, Dr. Peter Blumberg
93-AM. Avery Hubbard  
Approaches to Molecular Characterization of Solid Tumors for Protocol and Treatment Eligibility  
Winston Salem State University (North Carolina)  
Preceptors: Dr. Lauren Wood, Dr. Svetlana Pack

94-AM. Aliza Ifrah, Esther Bernstein, Heelah Gholian, Naomi Gordon, Raziela Israilov, Rachel Itzkowitz, Miriam Menken, Hodaya Rooshanshad  
The Bnos Bridge Program: An Introduction to Biomedical Science  
Bnos Yisroel High School (Maryland)  
Preceptor: Dr. Daniel Edelman

95-AM. Aliza Ifrah  
Cancer Immunotherapy: An innovative way of treating Melanoma  
Bnos Yisroel of Baltimore (Maryland)  
Preceptor: Dr. Daniel Edelman

96-AM. Shay Ifrah  
The Comet Assay as a Surrogate to Measure DNA Double-Stranded Breaks in Ovarian Cancer Patients  
Michlalah Jerusalem College (Non-U.S.)  
Preceptors: Mr. Nicolas Gordon, Dr. JungMin Lee, Dr. Elise Kohn, Dr. Minchu Yu

97-AM. Raziela Israilov  
Coffee helps prevent degenerative diseases such as Parkinson's disease  
Bnos Yisroel (Maryland)  
Preceptor: Dr. Daniel Edelman

98-AM. Filip Istvanic  
Abrogation of Myeloid-specific TGF Beta Signaling Induces Neuroinflammation/Stroke  
Carnegie Mellon University (Pennsylvania)  
Preceptors: Dr. Christine Hollander, Dr. Li Yang

99-AM. Rochella Itzkowitz  
Treatments for Age Related Macular Degeneration  
Bnos Yisroel of Baltimore (Maryland)  
Preceptor: Dr. Daniel Edelman

100-AM. Justin Jagodinsky  
Assessing the Effectiveness and Relevance of Fluorescently Labeled Cisplatin Analogs.  
Coe College (Iowa)  
Preceptors: Dr. Michael Gottesman, Dr. Matthew Hall

101-AM. Robyn Jasper  
Subcellular localization of bacterial tubulin, FtsZ, in the presence and the absence of E. coli Hsp90  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Monica Markovski, Dr. Sue Wickner

102-AM. Andrew Jdaydani, Andrew Widener  
Stratified genomic risk assessment in primary care  
Vassar College (New York), Arizona State University (Arizona)
103-AM. Jordan Jensen  
*Broadening Bacteriophage T7 Host Range Using Recombineering*  
Brigham Young University (Utah)  
Preceptor: Dr. Adam Parks

104-AM. Nancy Jiang  
*Deconstructing Tumor Organogenesis*  
Richard Montgomery High School (Maryland)  
Preceptor: Dr. Kandice Tanner

105-AM. Symone Jordan  
*An Interferon Signature in Prostate Tumors of African-American Men*  
Bowie State University (Maryland)  
Preceptors: Dr. Wei Tang, Mrs. Tiffany Dorsey, Dr. Stefan Ambs

106-AM. Seungyeon Jung  
*Role of Fluorine-18 Fluorodeoxyglucose Positron Emission Tomography (18F-FDG PET) in Pediatric Medullary Thyroid Carcinoma*  
Walter Johnson High School (Maryland)  
Preceptors: Dr. Srivandana Akshintala, Dr. Brigitte Widemann, Dr. Clara Chen

107-AM. Christopher Kaler  
*A Novel Assay for Digital Protein Detection with High Sensitivity and Multiplexing Capability*  
Boston College (Massachusetts)  
Preceptors: Dr. Peter Blumberg, Dr. Jessie Chen, Dr. Dave Goldstein, Dr. Jessica Kelsey

108-AM. Nilay Karahan, Ay_e Derya Cavga  
*Investigating the relationship between characteristics of protein-protein interfaces and binding affinity*  
Koc University (Istanbul, Turkey), Koc University (Istanbul, Turkey)  
Preceptor: Dr. Ruth Nussinov

109-AM. Molleshree Karna  
*Identification of specific peptide blockers of EphB2 interaction with EphrinB2*  
Columbia University (New York)  
Preceptors: Dr. Giovanna Tosato, Mr. Michael DiPrima, Dr. David Sanchez Martin

110-AM. Malka Katz  
*The Relationship of DNA, RNA, and Protein Quantities in Isogenic Diploid and Tetraploid Cell Lines*  
Bnos Yisroel of Baltimore (Maryland)  
Preceptors: Dr. Darawalee Wangsa Zong, Dr. Thomas Ried

111-AM. Neel Kaul  
*Analyzing the Role of Zbtb1 in Innate-Lymphocyte development*  
University of Maryland- College Park (Maryland)  
Preceptors: Dr. Damian Kovalovsky, Dr. Xianyu Zhang
112-AM. Caitlin Keenan
Two for the price of one: Screening HIV protease inhibitors for anti-KSHV activity
Tufts University (Massachusetts)
Preceptors: Dr. David Davis, Dr. Robert Yarchoan

113-AM. Natnael Kenea
CtBP drives phenotypic changes in breast cancer cells in response to altered metabolism
University of Maryland Baltimore County, UMBC (Maryland)
Preceptors: Dr. Kevin Gardner, Dr. Jung Shin Byun

114-AM. Caroline Kingwell
Analysis of whole-exome sequence data from 12 testicular tumors with matching germline samples
Montgomery College (Maryland)
Preceptor: Dr. Anand Pathak

115-AM. Meir Kreitman
Regulation of Bacteriophage Lambda Promoter by DNA Looping
Melvin J. Berman Hebrew Academy (Maryland)
Preceptors: Dr. Sankar Adhya, Mr. Dale Lewis

116-AM. Trisha Lal
Nitric Oxide Enhances Tumor Progression and Disease Aggressiveness in Pancreatic Cancer
University of Maryland, College Park (Maryland)
Preceptor: Dr. Jian Wang

117-AM. Alan Lang
High Throughput Screen of Natural Product Library for P-glycoprotein Inhibitors.
University of Maryland at College Park (Maryland)
Preceptor: Dr. Luowei Li

118-AM. Joshua Lange
Degradation of WIP1: Connecting HIPK2 Phosphorylation and Ubiquitination
Dartmouth College (New Hampshire)
Preceptors: Dr. Ettore Appella, Dr. Sharlyn Mazur, Dr. Subrata Debnath

119-AM. Mei-Li Laracuente
Cytokine Profiles of Macrophages Treated with Tumor-Associated Glycopeptide Antigen-Coated Gold Nanoparticles
University of Arizona (Arizona)
Preceptor: Dr. Joseph Barchi

120-AM. Isac Lazarovits
Mechanisms of Acquired Resistance to Third Generation EGFR TKIs
Los Angeles Pierce College (California)
Preceptors: Dr. Abhilash Venugopalan, Dr. Tapan Maity, Dr. Udayan Guha

121-AM. Jiangtao Lei
The aggregation of p53 (251-257) and its mutation (I254R): a simulation study
Fudan University (Shanghai, China)
122-AM. Jingce Lei
Observing the Effects of Mechanical Stretching on Collagen Production in Human Dermal Fibroblasts
Montgomery Blair High School (Maryland)
Preceptors: Dr. Julio Valencia, Dr. Sergio Coelho

123-AM. Reuben Levy-Myers
SUMO Targeted Ubiquitination of Centromeric Histone H3 Variant Cse4 Regulates its Proteolysis and Prevents Mislocalization
College of William and Mary (Virginia)
Preceptors: Dr. Kentaro Ohkuni, Dr. Munira Basrai

124-AM. Pei-Yi Lin
5'Hoxd regulates appearance order of digits in limb development
Poolesville High School (Maryland)
Preceptor: Dr. Bau-lin Huang

125-AM. Hillary Liu
Development of a Retroviral Vector Encoding microRNA-155 and an Inducible Caspase 9 Safety Switch for Clinical Applications
University of Virginia (Virginia)
Preceptors: Dr. Luca Gattinoni, Dr. Yun Ji

126-AM. Paydor Liu
Analysis of ASAP1 PH Domain
National Cathedral School (Washington, DC)
Preceptors: Dr. Xiaoying Jian, Dr. Paul Randazzo

127-AM. Yi Liu
CTL Reactivity Against POTE-derived Peptides in Prostate Cancer Patients
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Lauren Wood, Dr. Masaki Terabe, Dr. Jay Berzofsky

128-AM. Alexander Lopez
Construction of a Recombinant Immunotoxin for the Treatment of BCMA Expressing Cancer
Walt Whitman High School (Maryland)
Preceptors: Dr. Ira Pastan, Dr. Tapan Bera

129-AM. Tricia Lu
NCIP Hub: A Collaboratory for Informatics in Cancer Research
Wellesley College (Massachusetts)
Preceptor: Mr. Ishwar Chandramoulswaran

130-AM. Jacob Manley, Jae Lee
In Vivo RNAi-Based Screen to Identify Genes Regulating Male Germline and Intestinal Stem Cells in Drosophila
Governor Thomas Johnson High School (Maryland), Frederick High School (Maryland)
Preceptors: Dr. Shree Ram Singh, Dr. Steven Hou
131-AM. Eryney Marrogi, Peter Baek, Alexander Bai  
*An Epigenetic Target for Osteosarcoma*  
Langley High School (Virginia), Annandale High School (Virginia), Walter Johnson High School (Maryland)  
Preceptors: Dr. Jing Huang, Dr. Shunlin Jiang

132-AM. Jada Maultsby  
*Generation of BRCA2 variants using CRISPR-Cas9n system for mouse ES cell based functional assay*  
Oakdale High School (Maryland)  
Preceptors: Dr. Kajal Biswas, Dr. Shyam Sharan

133-AM. Christopher McDonald  
*The role of SLFN11 in the sensitivity of Ewing1s sarcoma cells to DNA-damaging agent Camptothecin*  
Antilles School (Virgin Islands)  
Preceptors: Dr. Yves Pommier, Mr. SaiWen Tang

134-AM. Uche Medoh  
*Capturing the Intracellular Choreography of Vav, Nck, and Itk in live Jurkat T cells*  
Academy of Health Sciences at Prince George's Community College (Maryland)  
Preceptors: Dr. Valanie Barr, Ms. Carole Regan, Ms. Itoro Akpan, Dr. Lawrence Samelson

135-AM. Hillary Meeker  
*Evaluation of A Custom Targeted Next-Generation Sequencing Panel for Detecting Mutations in T-Cell Lymphoma*  
University of Virginia (Virginia)  
Preceptors: Dr. Liqiang Xi, Dr. Mark Raffeld

136-AM. Miriam Menken  
*Vasovagal Syncope During Blood Donation*  
Bnos Yisroel High School of Baltimore (Maryland)  
Preceptor: Dr. Daniel Edelman

137-AM. Francesca Mertan  
*The Utility of High b-Value Diffusion Weighted MRI in Predicting High Grade Prostate Cancers*  
Grove City College (Pennsylvania)  
Preceptor: Dr. Baris Turkbey

138-AM. Timothy Messen  
*Conditional inactivation of Dnmt1 reveals its essential role in adult hepatocyte function*  
Dartmouth College (New Hampshire)  
Preceptors: Dr. Kosuke Kaji, Dr. Valentina Factor, Dr. Snorri Thorgeirsson

139-AM. Esther Michel  
*Probing the mechanical properties of the tumor biofilm*  
Oakwood University (Alabama)  
Preceptor: Dr. Kandice Tanner

140-AM. Haddas Miller  
*Generational Benefits from Participation in Kidney Cancer Research*
Bnos Yisroel of Baltimore (Maryland)
Preceptors: Dr. Daniel Edelman, Ms. Lindsey Middelton

**141-AM. Nina Min**
*Studies on Differential Cell Death Induced by FasL, Irradiation, and Fatty Acids in Murine T Lymphocytes*
Winston Churchill High School (Maryland)
Preceptors: Dr. Chi Ma, Dr. Tim Greten

**142-AM. Seog In Moon**
*Von Hippel-Lindau Disease Associated Pulmonary Carcinoid with Cranial Metastasis*
Amherst College (Massachusetts)
Preceptors: Dr. Chao Zhang, Dr. Martha Quezado

**143-AM. Kathleen Morrill**
*Role of the Rex Functions in Stabilization of the λ O Replication Protein*
Bates College (Maine)
Preceptors: Dr. Lynn Thomason, Dr. Donald Court

**144-AM. Sriya Movva, Sumanth Punuru**
*Comparison of electron paramagnetic resonance oxygen imaging and immunohistochemical staining of hypoxia markers in orthotopic models of human glioblastoma*
Winston Churchill High School (Maryland), University of Connecticut (Connecticut)
Preceptors: Dr. Murali Cherukuri, Dr. Shingo Matsumoto

**145-AM. Serena Muratcioglu**
*Identification of effector binding sites on H-Ras may explain signal propagation*
Koc University (Istanbul/Turkey)
Preceptor: Dr. Ruth Nussinov

**146-AM. Karam Musaitif**
*Identifying the SIV sequence transmitted from mother to child through breast milk in Rhesus macaques*
Hood College (Maryland)
Preceptors: Dr. Brandon Keele, Ms. Laura Newman

**147-AM. Shreya Nandi**
*How Your Nuclear Neighborhood Affects Your Genome’s Stability*
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Julie Cooper, Dr. Michael Klutstein, Dr. Hani Ebrahimi

**148-AM. Cydney Nguyen**
*Establishing Cell Lines to Understand Carcinogenesis of Anaplastic Thyroid Cancer*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Sheue-yann Cheng, Dr. Xuguang Zhu

**149-AM. Sang Nguyen**
*Targeting the Thymic Stromal Lymphopoeitin Receptor Signaling Axis to Reduce Relapse of High Risk Pediatric Acute Lymphoblastic Leukemia*
University of California, Riverside (California)
Preceptors: Dr. Christopher Chien, Dr. Terry Fry

150-AM. Silvia Noonan
Development of an expression, purification, and characterization methodology for Tissue Inhibitor of Metalloprotease-2 as novel biologic therapy for cancer and myocardial infarction
Pharmaceutical Chemistry and Technology, University of Genova, Italy (Non-U.S.)
Preceptors: Dr. Ananda Chowdhury, Dr. William Stetler-Stevenson

151-AM. Michelle Okwali
NSAIDS and Biliary Tract Cancer
Mailman School of Public Health (New York)
Preceptor: Dr. Jill Koshiol

152-AM. Olatoye Olutola
NK Cells Responses During HIV Vaccination
University of Toledo College of Medicine (Ohio)
Preceptors: Dr. Genoveffa Franchini, Dr. Namal Liyanage

153-AM. Janice Ong, Shivani Gupta
Cryo-Electron Microscopy of Metabolic Enzymes: Part IV
Thomas Jefferson High School for Science and Technology (Virginia), McLean High School (Virginia)
Preceptors: Dr. Soojay Banerjee, Dr. Lesley Earl, Dr. Mario Borgnia, Dr. Sriram Subramaniam

154-AM. Shota Ono
Determination of Mitochondrial Toxicity of Nucleoside/Nucleotide Reverse Transcriptase Inhibitors on HepG2 Cells
University of Virginia (Virginia)
Preceptors: Dr. Yuki Takamatsu, Dr. Kenji Maeda, Ms. Nicole Delino, Dr. Hiroaki Mitsuya

155-AM. John Paul Ouyang
Constructing a DNA Cassette for the Analysis of Genetic Recombination in Budding Yeast
University of Maryland College Park (Maryland)
Preceptors: Dr. Michael Lichten, Dr. Darpan Medhi

156-AM. Daniel Pau
Stapled alpha helical peptides analogues inhibit DNA-protein and protein-protein interactions essential for pathogenicity or survival in Gram negative bacteria
University of Ottawa (Non-U.S.)
Preceptors: Dr. Amanda Whiting, Mr. Mark Dornan, Dr. Federico Bernal, Dr. Christopher Boddy

157-AM. Dereck Paul
18F-FDG - PET/CT Imaging to Assess Response to Treatment with Cabozantinib at 4 Weeks versus 8 Weeks of Therapy in Patients with Advanced Urothelial Carcinoma
Johns Hopkins University (Maryland)
Preceptors: Dr. Andrea Apolo, Dr. Maria Lindenberg

158-AM. Nisha Pawar
Critical domain of CASZ1 involved in the regulation of subcellular localization, transcriptional activity, and DNA damage response
University of Maryland College Park (Maryland)
Preceptors: Dr. Zhihui Liu, Dr. Carol Thiele

159-AM. Brieana Perritt
Phospho-AKT expression under dual blockade of IGF-1R and PDGFR-beta in a rhabdomyosarcoma model of acquired IGF-1R resistance
Benjamin Banneker Academic Senior High School (District of Columbia)
Preceptors: Dr. Christine Heske, Dr. Choh Yeung, Dr. Lee Helman

160-AM. Zaw Phyo
An Allelic Variant of mTOR in Mouse Embryonic Fibroblasts Has an Effect on DNA Damage Response
University of California, Los Angeles (California)
Preceptors: Mrs. Joy Gary, Dr. Beverly Mock

161-AM. Filip Pirsl
Vitamin D and Bone Metabolism in Patients with Chronic Graft-Versus-Host Disease
University of Maryland, College Park (Maryland)
Preceptors: Dr. Steven Pavletic, Dr. Lauren Curtis

162-AM. John Powell
Cell Cycle Analysis during Osteoblast Differentiation
Charlotte Latin School (North Carolina)
Preceptors: Ms. Bethtrice Thompson, Dr. Lyuba Varticovski, Dr. Gordon Hager

163-AM. Sumanth Punuru, Sriya Movva
CORREGRISTRATION of hyperpolarized 13C metabolic MRI and immunohistochemical staining of hypoxia markers using a 3D printed mold in SCCVII tumor
University of Connecticut (Connecticut), Winston Churchill High School (Maryland)
Preceptors: Dr. Murali Cherukuri, Dr. Shingo Matsumoto, Dr. Shun Kishimoto, Dr. Marcelino Bernardo

164-AM. Grace Purec
Patterns of Cancer Recurrences in Long Term Early Stage Breast Cancer Survivors After 25 Years
Bnos Yisroel of Baltimore (Maryland)
Preceptors: Dr. DeeDee Smart, Dr. Daniel Edelman

165-AM. Ruxi Qi
Computational study of oncogenically active MyD88 mutations
Fudan University (Shanghai, China)
Preceptors: Dr. Ruth Nussinov, Dr. Buyong Ma

166-AM. Mishal Rao
In Vitro Ubiquitination Analysis of CDT1 by a Human Replication Specific Binding Protein Complex
Walter Johnson High School (Maryland)
Preceptors: Dr. Mirit Aladjem, Dr. Ya Zhang, Mr. Owen Smith

167-AM. Catherine Redmond
Role of Mutant Cyclin D1 in the Etiology of Cancer
University of Maryland, Baltimore County (Maryland)
168-AM. Henry Reichard  
Making Polymeric Lipid-Drug Complexes for Light-Triggered Drug Delivery  
Walkersville High School (Maryland)  
Preceptors: Dr. Anu Puri, Dr. Mathias Viard

169-AM. Robert Robl  
Pathway and drug target identification based on differential methylation between de novo glioblastoma short and long term survivorship cohorts  
University of Alaska, Anchorage (Alaska)  
Preceptors: Dr. Uma Shankavaram, Dr. Orieta Celiku

170-AM. Hodaya Rooshanshad  
Frontotemporal Dementia  
Bnos Yisroel of Baltimore (Maryland)  
Preceptor: Dr. Daniel Edelman

171-AM. Katherine Ross  
Efforts to Improve Cancer Screening Practices among Urban Hispanics: Preliminary Findings from the Cancer Preventorium  
University of Miami (Florida)  
Preceptors: Dr. David Nelson, Dr. Mateo Banegas

172-AM. Sean Rossi  
Characterization of the activity of specific, small molecule inhibitors of p38 in T cells  
Colgate University (New York)  
Preceptors: Dr. Muhammad Alam, Dr. Jonathan Ashwell

173-AM. Clarissa Rous  
Optimizing flow cytometric diagnosis of Kaposi sarcoma herpesvirus associated lymphoproliferative disease  
St. Mary's College of Maryland (Maryland)  
Preceptor: Dr. Maryalice Stetler-Stevenson

174-AM. Minyoung Ryoo  
Identification of Pathways Linking Exocytosis And ATP Production In the Salivary Glands Using a Proteomic Approach  
Duke University (North Carolina)  
Preceptors: Dr. Yun Chen, Dr. Natalie Porat Shliom

175-AM. Ontara Sarker  
Color Calibration of Histological Stains for Application in Whole Slide Scanning and Image Analysis  
Clarksburg High School (Maryland)  
Preceptors: Mr. Stephen Hewitt, Ms. Liliana Guedez

176-AM. Prahlad Sarma  
Analysis of Phosphoproteins downstream of the TCR post T-cell activation  
Thomas S. Wootton (Maryland)
Preceptor: Dr. Debjani Dutta

177-AM. Madison Schiefer
*Fluorescent in situ Hybridization Analysis of a Multiprobe Panel for 3D FISH on Colorectal Cancer*
University of Virginia (Virginia)
Preceptors: Dr. Nicole E. McNeil, Dr. Dara Wangsa Zong, Dr. Eric Cardin, Dr. Thomas Ried

178-AM. Robert Schmitz
*Preclinical Evaluation of T-cell Checkpoint Inhibitors on Tumor cell Proliferation and Antigen-specific T-cell Activation*
University of Maryland: College Park (Maryland)
Preceptors: Dr. Jonathan Fallon, Dr. John Greiner, Dr. Jeffrey Schlom

179-AM. Harvey Schwartz
*Tyrosine Kinase and HSP90 Inhibitors: A Synergistic Combination To Combat Cancer*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Thomas Prince, Dr. Len Neckers

180-AM. Drake Scott
*Differentiating Hairy Cell Leukemia Variant from Classic Hairy Cell Leukemia Based upon Immunophenotype*
University of Maryland College Park (Maryland)
Preceptors: Dr. Mary Alice Stetler-Stevenson, Dr. Constance Yuan, Mrs. Dalia Salem

181-AM. Waheed Sehareen
*AU-Rich Elements in 3’UTR Inhibit EGR Transcription Factors Activity*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Jacqueline Salotti, Dr. Peter Johnson

182-AM. Ashlee Nicole Sharer
*Focused RNAi screen identifies SETD8 as potential druggable target in neuroblastoma*
Medical College of Georgia at Georgia Regents University (Georgia)
Preceptors: Dr. Carol Thiele, Dr. Veronica Veschi

183-AM. Sahil Sheth
*The Role of RARgamma in Cell Death*
The Wheatley School (New York)
Preceptors: Dr. Siriporn Jitkaew, Dr. Swati Choksi, Dr. Zhenggang Liu

184-AM. Maham Siddiqui
*Expression Microdissection of Cytospins for Downstream Molecular Analysis*
University of Virginia (Virginia)
Preceptors: Dr. Armando Filie, Dr. Patricia Fetsch, Dr. Michael Tangrea, Dr. Michael EmmertBuck

185-AM. Joshua Sitler
*Drug Resistance in Cancer: Identifying P-glycoprotein (ABCB1) Inhibitors*
Cedarville University (Ohio)
Preceptors: Dr. Suresh Ambudkar, Dr. Eduardo Chufan
186-AM. Sharon Smith
Diurnal Variability of Glucocorticoid-responsive Genes in PMBCs of Healthy Volunteers
University of Maryland, College Park (Maryland)
Preceptors: Dr. Diana Stavreva, Dr. Lyuba Varticovski

187-AM. Peter Song
Validation of Gene Expression Based on Changes in DNAse Hypersensitivity during Osteogenic Differentiation
University of Southern California (California)
Preceptors: Ms. Bethtrice Thompson, Dr. Lyuba Varticovski, Dr. Gordon Hager

188-AM. Andrea Soto
Multidrug Resistance-linked P-glycoprotein (ABCB1): Mapping Conformational Changes during the Catalytic Cycle
University of Maryland, College Park (Maryland)
Preceptors: Dr. Hong-May Sim, Dr. Suresh Ambudkar

189-AM. Rebecca Stussman
Motility Analysis of Lipid Droplets in Mammary Glands
Columbia University (New York)
Preceptors: Dr. Yun Chen, Dr. Ian Mather, Dr. Michael Emmert-Buck, Dr. Roberto Weigert

190-AM. Kathryn Szajek
Targeting MET using PET
Mount St. Mary's University (Maryland)
Preceptors: Dr. Elaine Jagoda, Dr. Peter Choyke

191-AM. Quinn Tai
Analyzing Double Stranded DNA Breaks Using High Definition Image Processing
Montgomery Blair High School (Maryland)
Preceptors: Dr. Robert Faryabi, Dr. Andre Nussenzweig

192-AM. Aidin Tavakoli-Tameh
Exosomes mediate LTB4 signal relay during neutrophil chemotaxis
Leiden University (Non-U.S.)
Preceptors: Dr. Carole Parent, Dr. Ritankar Majumdar

193-AM. Mario Taylor
Accelerated Growth Rate of Hereditary Renal Cell Carcinoma after Radiofrequency Ablation
Howard University College of Medicine (District of Columbia)
Preceptor: Dr. Adam Metwalli

194-AM. Bowranigan Tharmalingam
Screening for natural and synthetic inhibitors of the Wnt-Beta Catenin signaling pathway in Hepatocellular Carcinoma
Cornell University (New York)
Preceptors: Dr. Anuradha Budhu, Mr. Zhipeng Yu

195-AM. Rashmi Thimmapuram
Efficacy of Mammalian Target of Rapamycin (mTOR) in Urothelial Bladder Carcinoma
Illinois Mathematics and Science Academy (Illinois)
196-AM. Jessica Tomlin
The serological cancer biomarker CLIC4 is released from tumor stromal cells via exosomes
Messiah College (Pennsylvania)
Preceptors: Dr. Vanesa Sanchez, Dr. Stuart Yuspa

197-AM. Maria Emma Torres
Thrombospondin-1 regulates carcinogenesis in an in vivo model of colorectal cancer
University of Alabama in Huntsville (Alabama)
Preceptors: Dr. Nancy Emenaker, Dr. David Roberts, Dr. David Soto Pantoja

198-AM. John Tracey
Investigating Dexamethasone’s Effects on CAR T Cell Efficacy
Fordham University (New York)
Preceptor: Dr. Daniel Lee

199-AM. Timothy Traynor
Evaluation of Combined mTOR/PLK1 Inhibition in Multiple Myeloma
Gaithersburg High School (Maryland)
Preceptors: Dr. Beverly Mock, Mr. Benjamin Gamache

200-AM. Kelly Troutman, Madison Churchill
Structural Bioinformatics Study of Macromolecular Flexibility in Structures at Ultra-High Resolution: Applications
Urbana High School (Maryland), Catoctin High School (Maryland)
Preceptor: Dr. Raul Cachau

201-AM. Marguerite Tucker
Developing GD2-Expressing Target Cells for Chimeric Antigen Receptor (CAR) T Cell Immunotherapies
Hun School of Princeton (New Jersey)
Preceptors: Dr. Samuel Haile, Dr. Crystal Mackall

202-AM. Ezigbobiara Umejiego
The role of tumor-derived exosomes in inducing ITGB8 production in SMC
Kennesaw State University (Georgia)
Preceptors: Dr. Meera Murgai, Dr. Amber Giles, Mr. Miki Kasai, Dr. Rosandra Kaplan

203-AM. Neha Wali
Evaluation of Sensitivity to Taxanes in Pleural Mesothelial Cells
Thomas S. Wootton High School (Maryland)
Preceptors: Dr. Daniel Abate-Daga, Dr. Swati Khanna, Dr. Raffit Hassan

204-AM. Eric Wang
SHH tastes: Shh signaling in the taste bud of the tongue
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Xiao Ying, Dr. Isaac Brownell

205-AM. Jennifer Wang
Investigation of the JAK1-STAT3 branch in TGF-beta signaling
206-AM. Vivian Wang  
Effects of Exportin Inhibitor KPT-330 on Neuroblastoma Cell Lines  
University of Maryland, College Park (Maryland)  
Preceptors: Mr. Norris Lam, Dr. Carol Thiele

207-AM. Nicholas Watson  
Identification of Molecular Modifiers of Resistance to Proteasome Inhibitors in Multiple Myeloma  
American University (District of Columbia)  
Preceptors: Dr. Beverly Mock, Dr. John Simmons

208-AM. Grace White  
RNAi analysis of the spliceosome protein, SF3B1, in cell line models of alveolar and embryonal Rhabdomyosarcoma  
Jackson State University (Mississippi)  
Preceptors: Ms. Sirisha Chakka, Dr. Natasha Caplen

209-AM. Samantha Wightman  
Expression of gene drug targets in Malignant Peripheral Nerve Sheath Tumors  
Northern Michigan University (Michigan)  
Preceptors: Dr. Karlyne Reilly, Dr. MinHyung Lee

210-AM. Jason Williams  
Cnot7's Promoting Effect on Metastatic Potential  
College of Southern Maryland (Maryland)  
Preceptors: Dr. Farhoud Faraji, Dr. Kent Hunter

211-AM. Emily Wingate  
Interactive Effects of Self-Affirmation and Health Prevention Orientation on Listing Difficulties Associated with Engaging in Safer Sex  
James Madison University (Virginia)  
Preceptors: Dr. Rebecca Ferrer, Dr. William Klein

212-AM. Tiffany Wong  
Distribution and Abundance of Putative Cabozantinib Targets in Bladder Cancer Cell Lines  
Virginia Commonwealth University (Virginia)  
Preceptors: Dr. Donald Bottaro, Dr. Andrea Apolo, Dr. Young Lee

213-AM. Nathan Xie  
Calcium and Sodium influxes in TNF-induced necrosis  
Thomas S. Wootton High School (Maryland)  
Preceptors: Dr. Zhenyu Cai, Dr. Swati Choksi, Dr. Zhenggang Liu

214-AM. Vivian Xu  
Investigation of the signaling factors involved in Ras/MAPK promoted metastasis in the Pten/-/Trp53/- mouse model  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptors: Dr. Heather Tillman, Dr. Juan Juan Yin, Dr. Kathleen Kelly
215-AM. Waruna Yapa
Analysis of Tautomerism in Commercial Databases Using NMR Experiments
Clarksburg High School (Maryland)
Preceptors: Dr. Marc Nicklaus, Dr. Laura Guasch Pamies

216-AM. Nophar Yarden
Investigation of the Function of Replicator-Specific Binding Protein Rep-ID in Replication Initiation in Human Cells
Walt Whitman High School (Maryland)
Preceptors: Dr. Mirit Aladjem, Dr. Ya Zhang, Mr. Owen Smith

217-AM. Daniel Yarmovsky
5-hydroxymethylcytosine regulates alternative pre-mRNA splicing through intragenic binding of CTCF
Thomas S. Wootton High School (Maryland)
Preceptors: Dr. Marc Bailly, Dr. Shalini Oberdoerffer

218-AM. Jessica Yu
The Effects of Storage Conditions and Freeze-Thaw Cycles on the Low Abundant Serum Proteome: A Mass Spectrometric Analysis
Centennial High School (Maryland)
Preceptors: Ms. DaRue Prieto, Dr. Ming Zhou

219-AM. Zijun Yu
Role of CYP1A in Mediating Hepatotoxicity of Sunitinib in Cyp1a-null and Humanized CYP1A mice
Texas Academy of Mathematics and Science - University of North Texas (Texas)
Preceptors: Dr. Frank J. Gonzalez, Dr. Cen Xie, Mr. Kristopher Krausz, Dr. Linda G. Byrd

220-AM. Mingzhen Zhang
In Silico Cross-seeding Interactions between Human and Rat Islet Amyloid Polypeptides
University of Akron (Ohio)
Preceptors: Dr. Ruth Nussinov, Dr. Buyong Ma

221-AM. Ming Zhao
Integrative Genomic Characterization of Recurrent Amplicons in Rhabdomyosarcoma
Columbia University (New York)
Preceptors: Dr. Frederic Barr, Dr. Wenyue Sun

222-AM. Angela Zhou
Effect of loss of SCGB3A2 on oncogenic K-ras-induced lung carcinogenesis in mice
Montgomery Blair High School (Maryland)
Preceptors: Dr. Mitsuhiro Yoneda, Dr. Shioko Kimura, Mr. Jorge Paiz

223-AM. Chien Zhou
CAR-modified T memory stem cells targeting B-cell malignancies
Damascus High School (Maryland)
Preceptor: Dr. Luca Gattinoni

224-AM. Katherine Zhou
Characterization of the C/EBPd transcription factor in breast cancer cells
Linganore High School (Maryland)
Preceptors: Dr. Esta Sterneck, Dr. Daniel Mendoza Villanueva, Ms. Shikha Sharan

225-AM. Xinyi Zhu  
**ChIP-seq of the SIPA1 metastasis susceptibility gene**  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Kent Hunter

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

226-AM. Kimberly Barker  
*Cancer Incidence in the United States: Past, Present, and Future*  
Emory University (Georgia)  
Preceptors: Dr. Philip Rosenberg, Dr. William Anderson

227-AM. Natalie Burke  
*Reproducibility of a fecal occult blood test device for gut microbiota analyses: Recruitment and specimen processing.*  
The College of William & Mary (Virginia)  
Preceptors: Dr. James Goedert, Dr. Roberto Flores

228-AM. Kevin Firl  
*Family History of Cancer and the Risk of Colorectal Neoplasia*  
Georgetown University (District of Columbia)  
Preceptor: Dr. Sonja Berndt

229-AM. Eric Grimm  
*Prevalence of thyroid nodules and absorbed dose from Iodine-131 in a Ukrainian cohort following the Chernobyl accident*  
University of Colorado - Denver Anschutz Medical Campus (Colorado)  
Preceptors: Dr. Alina Brenner, Dr. The UkrainianAmerican Study Risk Analysis Group

230-AM. Callie Kambanis  
*The Effect of Brewing Method on the Chemical Composition of Coffee*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Neal Freedman, Dr. Rashmi Sinha, Ms. Erikka Loftfield

231-AM. Alpana Kaushiva  
*Utilizing the Cancer Genome Atlas (TCGA) Resources to Explore Bladder Cancer GWAS Regions*  
Johns Hopkins Bloomberg School of Public Health (Maryland)  
Preceptors: Dr. Candace Middlebrooks, Dr. Rouf Banday, Dr. Ludmila Prokunina

232-AM. Jacquie King  
*Evaluation of the Measurement of Trace Metals in Serum and Whole Blood*  
Georgetown University (District of Columbia)  
Preceptors: Dr. Sonja Berndt, Dr. Rachael StolzenbergSolomon
233-AM. Justine Lottermoser, Qi Lan
*Search for TERT promoter mutations in pancreatic cancer cell lines*
University of Maryland Baltimore County (Maryland), Huaqiao University (Non-U.S.)
Preceptors: Dr. Laufey Amundadottir, Dr. Jinping Jia

234-AM. Justin Shaffer
*Low DNA input titration for Ion AmiSeq exome*
College of New Jersey (New Jersey)
Preceptors: Mr. Jason Mitchell, Mr. Joe Boland

235-AM. Kulsoom Siddiqui
*Sirolimus and risk of cancer among kidney transplant recipients: a meta-analysis*
Washington University-Saint Louis (Missouri)
Preceptors: Dr. Elizabeth Yanik, Dr. Eric Engels

236-AM. Michael Untereiner
*Comprehensive review of HPV integration sites in cervical carcinoma and head and neck cancers*
Sidwell Friends School (District of Columbia)
Preceptors: Dr. Nicolas Wentzensen, Dr. Clara Bodelon

237-AM. Miriam Van Dyke
*A Survey of Radioisotope Procedures and Radiation Safety Practices from 1945 to 2009 in the U.S. Radiologic Technologists Study*
Emory University (Georgia)
Preceptors: Dr. Cari Kitahara, Ms. Michele Doody, Dr. Vladimir Drozdovitch, Dr. Martha Linet

**National Eye Institute (NEI)**

238-AM. Jordan Abram
*Impact of Total Fluid Intake on Physiological Parameters in the Rhesus Monkey (Macaca mulatta)*
Tuskegee University School of Veterinary Medicine (Alabama)
Preceptors: Dr. James Raber, Dr. Arthur MacLarty, Mr. David Mallon, Ms. Johnetta Gray

239-AM. Joseph Aderemi
*Effect of Topical Administration of Nitisinone and Latanoprost in a mouse model of Oculocutaneous Albinism*
City University of New York - Lehman College (New York)
Preceptors: Dr. Felix Onojafe, Dr. Brian Brooks

240-AM. Modupe Adetunji
*Effect of platelet-derived growth factors on retinal ganglion cell survival*
Princeton University (New Jersey)
Preceptors: Dr. Shokichi Takahama, Dr. Stanislav Tomarev

241-AM. Michael Ayele
*Secretome Analysis of Human Retinal Pigment Epithelial Cells in Culture*
Brown University (Rhode Island)
Preceptors: Dr. T. Michael Redmond, Mr. Todd Duncan, Dr. William Samuel, Dr. Krishnan Kutty

242-AM. Stephan Baehr  
*Phenotyping Transgenic Mouse Models to Study Retinal Degeneration*  
University of Utah (Utah)  
Preceptors: Mr. Keshav Kooragayala, Dr. Tiziana Cogliati, Dr. Anand Swaroop

243-AM. Yash Bisen  
*The effects of IFN-beta on CD4 T cell response during EAU*  
Mission San Jose High School (California)  
Preceptors: Dr. Sophia Jeon, Dr. Yingyos Jittayasothorn, Dr. Rachel Caspi

244-AM. Kaifa Boyce  
*Temporal Variation in Gene Expression in Cultured Retinal Pigment Epithelial Cells*  
University of Maryland (Maryland)  
Preceptors: Dr. Krishnan Kutty, Dr. William Samuel, Dr. Michael Redmond

245-AM. Phillip Cai  
*The Klotho related KLPH/Lctl is highly expressed in lens epithelium and is required for expression of Clic5 and normal suture formation*  
Emory University (Georgia)  
Preceptors: Dr. Jianguo Fan, Dr. Graeme Wistow

246-AM. Lydia Carroll  
*Control of Covert Visual Attention by the Superior Colliculus*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. James Herman, Dr. Richard Krauzlis

247-AM. Ann-Gelle Carter  
*Exploring Retinal Degeneration*  
University of Illinois at Chicago College of Medicine (Illinois)  
Preceptors: Dr. Chongfei Jin, Dr. Fielding Hejtmancik

248-AM. Siqi Chen  
*M1/M2 Macrophages, but not Retinal Pigment Epithelium Cells, Constitutively Release IL-18 Binding Protein*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Igal Gery, Dr. Guangpu Shi

249-AM. Sarah Chwiki  
*Relocalization of PGP after Treatment with Doxorubicin in Breast Carcinoma Cell Lines.*  
University of Virginia (Virginia)  
Preceptor: Dr. Mones Abu-Asab

250-AM. Elizabeth Fairless  
*Study of Myocyte Enhancer Factor 2C (Mef2c) in Photoreceptor Development through Conditional Knockout*  
Dartmouth College (New Hampshire)  
Preceptors: Dr. Tiziana Cogliati, Dr. Anand Swaroop, Ms. Kristen Mollura
251-AM. Anurag Goel  
*Multi-electrode Array Recordings of Ground Squirrel Retinal Ganglion Cells*  
Washington University in St. Louis (Missouri)  
Preceptor: Dr. Wei Li

252-AM. Eric Kudiwu  
*Characterization of experimental autoimmune uveitis (EAU) in STAT6-deficient mice*  
Georgetown Preparatory school (Maryland)  
Preceptors: Dr. Charles Egwuagu, Mr. Rashid Mahdi, Dr. ChengRong Yu

253-AM. Adrianna Lee  
*Peripheral CD14+CD16+ monocytes are depressed in active autoimmune uveitis in returning patients analyzed at different stages*  
Rice University (Texas)  
Preceptors: Dr. Baoying Liu, Dr. Robert Nussenblatt

254-AM. Jerry Mi  
*Genomic Variant Analyses in eyeGENE Patients with Inherited Retinal Disease*  
Thomas S. Wootton High School (Maryland)  
Preceptors: Dr. Xinjing Wang, Mr. Keith Wetherby

255-AM. Alejandro Morales Martinez  
*Identification of a Specific Set of Membrane Biomarkers for the Purification of Retinal Pigment Epithelium from Differentiated Induced Pluripotent Stem Cells*  
University of Maryland College Park (Maryland)  
Preceptor: Dr. Kapil Bharti

256-AM. Brina Olunkwa  
*Testing FOXE3 regulation of crystallin gene expression in human lens epithelial cells*  
Riverdale Baptist School (Maryland)  
Preceptors: Dr. Zhiwei Ma, Dr. Fielding Hejtmancik

257-AM. Nadia Paarmhans  
*Morphological Analysis of cRet positive Retinal Ganglion Cells and Horizontal Cells Using Sparse Recombination*  
Montgomery College (Maryland)  
Preceptor: Dr. Tudor Badea

258-AM. Timothy Quinn  
*Effect of HDACi Givinostat on the Expression of Immune Markers Related to Ocular Inflammation*  
Wayne State University School of Medicine (Michigan)  
Preceptors: Dr. Baoying Liu, Dr. Robert Nussenblatt

259-AM. Amanda Ray  
*The in vivo Effect of RPE65 Mutation P25L on Visual Function in Transgenic Mice*  
Hagerstown Community College (Maryland)  
Preceptors: Dr. Yan Li, Mr. Todd Duncan, Dr. Michael Redmond
260-AM. Darnell Robin
*Detection of Interphotoreceptor Retinoid Binding Protein (IRBP) T cell specific cells and plasma cells in retina and lymphoid tissue of mice with spontaneous uveitis*
Oakwood University (Alabama)
Preceptors: Dr. Jennifer Kielczewski, Mr. Rafael Villasmil, Dr. Rachel Caspi

261-AM. Jose Salazar
*Biomarker Extraction from Cladogram Analysis*
Massachusetts Institute of Technology (Massachusetts)
Preceptor: Dr. Mones Abu-Asab

262-AM. Hyun Jae Seo
*Characterization of Experimental Autoimmune Uveitis (EAU) in mice with over-expression of S100B in the retina*
Amherst College (Massachusetts)
Preceptors: Mr. Rashid Mahdi, Dr. ChengRong Yu, Dr. Charles Egwuagu

263-AM. Sonali Srivastava
*Non-Redundant Roles of IL17A and IL17F in Ocular Mucosal Tissue*
Brookfield East High School (Wisconsin)
Preceptors: Dr. Anthony St. Leger, Dr. Rachel Caspi

264-AM. Christina Stevens
*Building Up Stem Cell Models For a Mammalian Hibernator*
Holton Arms School (Maryland)
Preceptors: Dr. Wei Li, Dr. Jingxing Ou

265-AM. Kurtis Swartz
*Light Evoked Responses from Ensembles of Ganglion Cells in Mouse Retina*
Swarthmore College (Pennsylvania)
Preceptors: Ms. Huayu Ding, Dr. Wei Li, Dr. Jeffery Diamond

266-AM. Yizhen Zhang
*Using Serial Block-Face Scanning Electron Microscopy to Reconstruct the Outer Retina Circuits*
Richard Montgomery High School (Maryland)
Preceptors: Dr. Wei Li, Dr. John Ball
Clinical Center (CC)

1-LCH. Jumoke Ademoye
*Neurobiological Effects of Vitamin D in the Brain*
Lee University (Tennessee)
Preceptor: Ms. Diane Lawrence

2-LCH. Esther Anflick
*Changes in Sodium Values in One Nutrient Database*
Bnos Yisroel of Baltimore High School (Maryland)
Preceptor: Ms. Sara Hauck

3-LCH. Kaitlin Ballenger, Soo Bin Lee
*Development and Analysis of Amoxicillin Capsules for Microbiomic and Immunologic Profiling of Women with Antibiotic-Induced Vaginal Candidiasis*
Stone Ridge School of the Sacred Heart (Maryland), Thomas S. Wootton High School (Maryland)
Preceptors: Mr. Ram Agarwal, Dr. Peng Yuan, Mr. George Grimes, Dr. Michail Lionakis

4-LCH. Kevin Boehm
*Replacement of physiological models by DCE images for more efficient computer-aided diagnosis of prostate cancer*
Yale University (Connecticut)
Preceptors: Dr. Shijun Wang, Dr. Ronald Summers

5-LCH. Cornell Brooks
*MicroRNA Transfection of HL-60 Cells*
Potomac School (Virginia)
Preceptors: Dr. Katherine Calvo, Dr. Weixin Wang, Dr. Layla Saleh, Ms. Emily Barber

6-LCH. Amy Chambliss, Abhinav Sharma
*Relationship of rectus femoris size and echotexture to functional mobility in children with cerebral palsy*
George Washington University School of Medicine (District of Columbia), Emory University (Georgia)
Preceptors: Dr. Diane Damiano, Dr. Katharine Alter, Mr. Christopher Stanley

7-LCH. Steven Chen
*Molecular comparisons of BMSC growth in FBS and platelet lysate*
University of Maryland, College Park (Maryland)
Preceptors: Dr. David Stroncek, Dr. Jiaqiang Ren

8-LCH. Brian Danner
*Virtual Training Can Improve Staffing, Retention, and Job Satisfaction*
Howard University (District of Columbia)
Preceptors: Ms. Lori Purdie, Mrs. Kathie Carpenter, Dr. Paul Wong, Mrs. Mary Myers

9-LCH. Dean Dao
*Login Authentication Using Work Station on Wheels (WOWs) on Patient Care Units*
Poolesville High School (Maryland)
Preceptor: Mr. Bertram Brown

10-LCH. Emma Davey
*Expression and Characterization of an 84 kDa Protein that is a Potential Antigen of Pneumocystis*
Wellesley College (Massachusetts)
Preceptors: Dr. Joseph Kovacs, Ms. Lisa Bishop

11-LCH. Nicholas Dellasanta
*Technology and Digital Preservation: Safeguarding the Legacy of the Healthy Volunteer*
Georgetown University (District of Columbia)
Preceptors: Ms. Dinora Dominguez, Ms. Mandy Jawara

12-LCH. Rebecca Deng
*Difficulties in Sequencing Pneumocystis jiroveci*
University of Maryland (Maryland)
Preceptors: Dr. Liang Ma, Dr. Joseph Kovacs

13-LCH. Sebastian Estrada
*A Clinical Trial of Inhaled Cyclosporine for Bronchiolitis Obliterans: Preliminary Data*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Richard Childs, Dr. Anthony Suffredini

14-LCH. Sarah Goff
*Validation of a Food Frequency Questionnaire Quantifying Human Consumption of Nonnutritive Sweeteners*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Amber Courville, Ms. Shanna Bernstein, Mrs. Madeline Michael

15-LCH. Francisco Hoyos
*The Effect of B. anthracis Edema Toxin on Renal Function in an Isolated Perfused Rat Kidney Model*
George Washington (District of Columbia)
Preceptors: Dr. Steven Solomon, Dr. Dharmvir Jaswal, Dr. Peter Eichacker

16-LCH. Patrick Jensen
*Myocardial strain in hypertrophic cardiomyopathy*
University of Chicago (Illinois)
Preceptors: Dr. David Bluemke, Mr. Davis Vigneault

17-LCH. Madhuri Jha, Sandra Karumberia
*Impairments in Social Functioning Associated with Hematology/ Oncology Treatment*
New York University (New York), Alabama A&M University (Alabama)
Preceptors: Ms. Jennifer Hendricks, Mr. Schuyler Cunningham, Ms. Lynn Hardesty

18-LCH. Boris Joutovsky
*Study of genomic modifications in human embryonic stem cells exposed to CT scan irradiation*
Colgate University (New York)
Preceptors: Dr. Ronald Neumann, Dr. Igor Panyutin, Dr. Irina Panyutin, Dr. Van Nguyen
19-LCH. Julia Katz
Nitric Oxide Synthase Inhibition Improves Survival during B. anthracis Edema Challenge in a Rat Model
Georgetown Day School (District of Columbia)
Preceptors: Dr. Steve Solomon, Dr. Yan Li, Dr. Peter Eichacker

20-LCH. Seth Kelly
A Therapeutic Approach to Reducing Mortality Associated with the Age of Transfused Blood in a Canine Model of Critical Illness
Texas A&M Health Science Center College of Medicine (Texas)
Preceptor: Dr. Steven Solomon

21-LCH. Fay Khudairi
Medicine Beyond Medication: Facilitating Self Healing through Complementary Methods for Pain Management
University of Massachusetts Amherst (Massachusetts)
Preceptors: Ms. Mary Myers, Dr. Paul Wong, Dr. Adeline Ge

22-LCH. Ariana Kim
Evaluation of the Scientific Impact of the Bench-to-Bedside (B2B) Program
Franciscan University of Steubenville Ohio (Ohio)
Preceptors: Mrs. Hana Smith, Mrs. Pat Piringer, Ms. Courtney Bell

23-LCH. Jesi Kim
Quantifying How Three-Dimensional Humeral Deformation Varies with Age in Children with Obstetrical Brachial Plexus Palsy
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Frances Gavelli, Dr. Jennifer Jackson, Dr. Katharine Alter, Dr. Michael Pearl

24-LCH. Uriah Kim, Neha Kalla
The Effect of Bubbling Argon on the Stability of Cysteamine, an Oxygen-Sensitive Drug
Virginia Commonwealth University School of Pharmacy (Virginia), Winston Churchill High School (Maryland)
Preceptors: Dr. Haksong Jin, Dr. George Grimes, Dr. Jun Lee

25-LCH. Kathryn Kundrod
Interindividual Variability of Optode Placement over the Sensorimotor Cortex in Functional Near-Infrared Spectroscopy Protocols
Lehigh University (Pennsylvania)
Preceptors: Dr. Theresa Sukal-Moulton, Dr. Diane Damiano

26-LCH. Gleb Kuzmin
Absorbed dose estimation for routine 18F-FDG studies with Monte Carlo simulations using a computer cluster
Texas A&M University (Texas)
Preceptor: Dr. Roberto Maass-Moreno

27-LCH. Christopher Lee
Constructing a Pathology-Specific Key Image Database Using Natural Language Processing
University of Michigan Ann Arbor (Michigan)
Preceptors: Dr. Ronald Summers, Dr. Le Lu, Dr. HooChang Shin, Dr. Jack Yao

28-LCH. Eunah Lee
Haplotype of the ERMAP Gene Covering 21,300 Base Pairs Established in 50 Donors
Harvard University (Massachusetts)
Preceptors: Mr. Kshitij Srivastava, Dr. Willy A. Flegel

29-LCH. Jeffrey Li
Transcriptomic analysis of response to peripheral nerve axotomy in dorsal root ganglion, dorsal and ventral spinal cord over time determined with RNA-Seq
Winston Churchill High School (Maryland)
Preceptors: Dr. Michael Iadarola, Ms. Samridhi Goswami, Dr. Andrew Mannes

30-LCH. Keon Lum
On Searching for Genes that Identify Pediatric Cancer Types
Gaithersburg High School (Maryland)
Preceptors: Mr. James DeLeo, Dr. Melinda Merchant, Dr. Javed Khan

31-LCH. Chelsea Lynes
An Evaluation of the Bereavement Program at the NIH Clinical Center
University of South Carolina (South Carolina)
Preceptors: Dr. Ann Berger, Mrs. Danetta Sloan

32-LCH. Lily McWilliams
Validation of a Food Frequency Questionnaire Quantifying Human Consumption of Non-Nutritive Sweeteners
Indiana University of Pennsylvania (Pennsylvania)
Preceptors: Ms. Madeline Michael, Ms. Shanna Bernstein, Dr. Amber Courville

33-LCH. Emma Moulton
Development of a Pharmacogenetics-based Clinical Decision Support Algorithm for Codeine
Brigham Young University (Utah)
Preceptor: Dr. Barry Goldspiel

34-LCH. Sida Niu
Characterization of Neurologic Disorders in a Hereditary Hemochromatosis Cohort
University of Kansas School of Medicine (Kansas)
Preceptor: Dr. Cathy Cantilena

35-LCH. Jennifer Oppong
A Qualitative Analysis of Obstetricians’ Views on Prenatal Whole Genome Sequencing
University of Virginia (Virginia)
Preceptors: Mr. Benjamin Berkman, Dr. Sara Hull

36-LCH. Chisomam Osuji
Integration of clinical and experimental molecular data in an observational type clinical research protocol
Quince Orchard High School (Maryland)
Preceptor: Dr. David Herion
37-LCH. Eric Owens
*ERMAP Haplotype Distribution in 4 Ethnic Groups*
Langley High School (Virginia)
Preceptors: Mr. Kshitij Srivastava, Dr. Willy Flegel

38-LCH. Robert Pourier
*Of Mice and Men: Translational Science in Anxiety and Alcohol Abuse*
Red Cloud High School (South Dakota)
Preceptors: Mrs. Alyssa Brooks, Dr. Gwenyth Wallen

39-LCH. Carol J Rauen
*The insidious spread of Clostridium difficile associated diarrhea: Symptoms gone...spores forgotten?*
State College of Florida, Sarasota-Manatee (Florida)
Preceptors: Ms. Mary Myers, Dr. Paul Wong

40-LCH. Andrew Richardson
*Understanding the Syndrome: Chédiak–Higashi*
University of Maryland Baltimore School of Nursing (Maryland)
Preceptors: Dr. Paul Wong, Ms. Raven McGlotten, Dr. Wendy Introne

41-LCH. Manuel Rovira-Gonzalez
*Familial immunodeficiency with progressive B-cell lymphopenia caused by mutation of transcription factor IKAROS*
Pennsylvania State University Berks Campus (Pennsylvania)
Preceptors: Dr. Hye Sun Kuehn, Dr. Julie Niemela, Dr. Sergio Rosenzweig, Dr. Thomas Fleisher

42-LCH. Vincent Salazar
*Self-Determination, an Ethical Concern for Minors without Residence*
California State University Dominguez Hills (California)
Preceptor: Dr. Marion Danis

43-LCH. Abhinav Sharma, Amy Chambliss
*Comparison of rectus femoris size and echo texture in children with and without cerebral palsy*
Emory University (Georgia), George Washington University School of Medicine (District of Columbia)
Preceptors: Dr. Diane Damiano, Dr. Katharine Alter, Mr. Christopher Stanley

44-LCH. Zainab Sherani
*Representing Test Results with Degree of Membership Values for Human and Computer Use*
Gaithersburg High School (Maryland)
Preceptors: Mr. James DeLeo, Mr. Jonathan Simon

45-LCH. Yekai Wang
*Glucocorticoid Regulation of T cell apoptosis*
Brandeis University (Massachusetts)
Preceptor: Dr. Shuibang Wang
46-LCH. Kathryn Welp
Detecting KIR protein expression in CD56+CD3- and CD56+CD3+ cells of healthy individuals by flow cytometry
Colgate University (New York)
Preceptors: Dr. Yao Yuan, Dr. Willy A Flegel

47-LCH. Claudia Wies
Moral Distress in the Health Care Professions
Yale School of Nursing (Connecticut)
Preceptor: Dr. Christine Grady

48-LCH. Sarah Wyckoff
Free Vitamin D Analysis Employing State of the Art LC/ MSM
University of Virginia (Virginia)
Preceptors: Dr. Steven Soldin, Mr. Brian Stolze, Dr. Verena Gounden, Dr. Jianghong Gu

Center for Information Technology (CIT)

49-LCH. Alexander Alvarez
Quantifying Tremor and Motor Dysfunction Associated with Alcohol Intoxication
University of Arizona (Arizona)
Preceptors: Mr. Thomas Pohida, Mr. John Kakareka, Dr. Brandon Harvey, Dr. Lorenzo Leggio

50-LCH. Ron Ulric Domingo
Sequence Search Engine for the NIDA/OTTC Plasmid Catalog: Efficient Analytical Tool in the Archival of Plasmid DNA
Poolesville High School (Maryland)
Preceptors: Dr. Calvin Johnson, Mr. William Lau, Mr. Giun Sun, Dr. Brandon Harvey

51-LCH. Arjun Kumar
Using Machine Learning to predict C. elegans neural connectivity
Dublin Coffman High School (Ohio)
Preceptor: Dr. Sinisa Pajevic

52-LCH. Jason Szafron
Adaptive Filter Optimization of ECG Recordings during MRI-Guided Cardiovascular Interventions
Texas A&M University (Texas)
Preceptors: Mr. John Kakareka, Dr. Anthony Faranesh, Mr. Thomas Pohida, Dr. Robert Lederman

National Center for Advancing Translational Sciences (NCATS)

53-LCH. Omid Barr
Studying selective inhibitors of the USP1 Deubiquitinase Complex through a High-Throughput Screening Assay
Winston Churchill High School (Maryland)
Preceptor: Dr. Madhu Lal
54-LCH. Myagmarjav Dashnyam
*Miniaturization of ER Associated Degradation Assay in 1536 well format*
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Dorjbal Dorjsuren, Dr. Domenico Tortorella, Dr. Ajit Jadhav, Dr. Anton Simeonov

55-LCH. Charles Eyermann
*High throughput screening to identify and characterize compounds that interfere with Europium- and Terbium-based AlphaScreens*
Carleton College (Minnesota)
Preceptors: Dr. Nathan Coussens, Dr. Natalia Martinez

56-LCH. Susanqi Jiang
*Screening for Creatine Transporter Deficiency in a Cohort of Males with Autism Spectrum Disorder and Developmental Delay*
Richard Montgomery High School (Maryland)
Preceptor: Dr. Nuria Carrillo-Carrasco

57-LCH. Kevin Luo
*High-throughput Screening Assay for the Protection of Fanconi Anemia Cells against Oxidative Stress*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Jennifer Fox, Dr. Ajit Jadhav, Dr. Min Shen

58-LCH. Maxim Maron
*A GFP-Based Assay for Identifying Small Molecule Inducers of Malaria Sexual Differentiation*
Loyola University Chicago (Illinois)
Preceptors: Dr. Wei Sun, Dr. Wei Zheng

59-LCH. Katherine Pohida
*Medicinal Chemistry at NCATS*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Bryan Mott, Dr. Dave Maloney

**National Center for Complementary and Alternative Medicine (NCCAM)**

60-LCH. Gary Soroosh
*Time-Dependent Expression of Molecular Signals in the Amygdala in Mouse Models of Inflammatory Pain*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Yarimar Carrasquillo

61-LCH. Brandon Towey
*Correlating cognitive impairments and brain morphology in Neurofibromatosis type 1*
SUNY Albany (New York)
Preceptors: Dr. Marta Ceko, Dr. Catherine Bushnell
National Institute on Aging (NIA)

62-LCH. Leon Chen
*TDRD3 is required for Drosophila neuronal development and miRNA regulation*
Johns Hopkins University (Maryland)
Preceptors: Dr. Seung Kyu Lee, Dr. Weidong Wang

63-LCH. Matthew Coile
*The Effects of Tomatidine on 3 Cell Line Models of Differentiation*
Homeschool (Maryland)
Preceptors: Dr. Kevin Becker, Dr. Elin Lehrmann

64-LCH. Rajiv Deshpande
*Changes in Skeletal Muscle Composition with Aging and Their Relationship with Mobility*
Johns Hopkins University (Maryland)
Preceptors: Dr. David Reiter, Dr. Richard Spencer

65-LCH. Naya Eady
*Uricase Knock Out Mice Display Enhanced Endurance*
Trinity Washington University (District of Columbia)
Preceptors: Dr. Simonetta Camandola, Dr. Kathy Perdue

66-LCH. Maria Espinoza
*The role of Reactive Oxygen Species in Human T-Cell Activation*
University of Maryland-College Park (Maryland)
Preceptors: Dr. Carl Sasaki, Dr. Paritosh Ghosh, Dr. Dan Longo, Mrs. Rachel Munk

67-LCH. Ezra Fishman
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Tamara Harris, Dr. Rachel Murphy, Dr. Jeremy Steeves

68-LCH. Daniel Flesch
*Let Them Eat Cake! How Disulfiram Protects from Diet-Induced Obesity in Mice*
Marquette University (Wisconsin)
Preceptors: Dr. Sarah Mitchell, Dr. Michel Bernier, Dr. Rafa de Cabo

69-LCH. Shannon Glynn
*Whole Genome Sequencing of Familial Amyotrophic Lateral Sclerosis Cases*
Georgetown University (District of Columbia)
Preceptors: Dr. Bryan Traynor, Dr. Alan Renton, Ms. Hannah Pliner, Dr. Janel Johnson

70-LCH. Brandon Griess
*Impaired Regional Cerebral Blood Flow Response to K-ATP Channel Opener Diazoxide in Relation to Age and Alzheimer's Disease Brain Pathology in the 3xTgAD Mouse Models*
California State University Northridge (California)
Preceptors: Dr. Dong Liu, Dr. Mark Mattson

71-LCH. Felicia Griffin
*Effects of Frailty in a Racially and Socioeconomically Diverse Sample of Middle-Aged Urban Americans*
72-LCH. Veronica Handunge  
Two golgi proteins, ArfGAP1 and Rab7L1, interact with LRRK2, a kinase associated with Parkinson's Disease  
Columbia University (New York)  
Preceptors: Dr. Mark Cookson, Dr. Aleksandra Beylina

73-LCH. James Hickey  
Method Development for High Throughput Detection of Extracellular Vesicle Transfer between Cells  
St. Mary's College of Maryland (Maryland)  
Preceptors: Dr. Erez Eitan, Dr. Mark Mattson

74-LCH. Bre'Anna James  
Over-expression of APE1 in relationship to disease  
Trinity Washington University (District of Columbia)  
Preceptors: Dr. Jennifer Illuzzi, Mr. Boris Brenerman, Dr. David Wilson III

75-LCH. Sarah Jarrin  
Impact of Familial Alzheimer's Disease Presenilin 1 Mutations on Energy Homeostasis  
St. Mary's College of Maryland (Maryland)  
Preceptors: Dr. Chinmoyee Maharana, Dr. Mark Mattson

76-LCH. Apollo Kabukuru  
Small molecules that modulate DNA unwinding by human DNA repair helices  
Seattle University (Washington)  
Preceptor: Dr. Robert Brosh

77-LCH. Abraham Killanin  
Is Personality Associated with Cognitive Change Across the Life Span?  
Yale University (Connecticut)  
Preceptors: Dr. Alan Zonderman, Dr. Michelle Evans

78-LCH. Arielle Kilner  
Comparative Mutational Analysis of the Heavy and Light Chains of Follicular and Age-associated B Cells  
Ursinus College (Pennsylvania)  
Preceptors: Dr. Lisa Russell, Dr. Patricia Gearhart

79-LCH. Lawal Labaran  
Disruption of CTCF-dependent Loops Alters Epigenetic State and DNA Recombination at the IgH Locus  
Southern Illinois University Carbondale (Illinois)  
Preceptor: Dr. Rajan Sen

80-LCH. Michael LaNasa  
Unraveling the Role of NQO1 in the Insulin Signaling Pathway  
Georgetown University (District of Columbia)
Preceptors: Mr. Ahmed Ali, Dr. Alberto DiazRuz, Dr. Michel Bernier, Dr. Rafael De Cabo

81-LCH. John Lawson
Elucidating the Activated B Cell Response in Atherosclerosis
Liberty University (Virginia)
Preceptors: Dr. Kimberly Zanotti, Dr. Robert Maul, Dr. Patricia Gearhart

82-LCH. Darren Morgan
Characterization of HuR-associated circular RNAs
Hampton University (Virginia)
Preceptors: Dr. Myriam Gorospe, Dr. Kotb Abdelmohsen

83-LCH. Kaitlyn Murray
T-Cell Receptors (TCR) Determine the Unique Features of Cytomegalovirus and Influenza Virus Antigens
Case Western Reserve University (Ohio)
Preceptors: Mr. Guobing Chen, Dr. Nanping Weng

84-LCH. Christopher Ramirez
Effects of Fasting Conditions on Neurons in Vitro
University of Central Florida (Florida)
Preceptors: Dr. Mark Mattson, Dr. Krisztina Marosi

85-LCH. Brianna Roberts
The Effects of Growth Hormone on Insulin Resistance in Young and Middle Aged Men.
Morgan State University (Maryland)
Preceptors: Dr. Josephine Eagan, Dr. Olga Carlson

86-LCH. Luis Salcido Holguin
Reduced Intracellular Citrate Flux Positively Regulates Healthspan and Lifespan
George Washington University (District of Columbia)
Preceptors: Ms. Gelareh Abulwerdi, Dr. Jessica Curtis, Dr. Rafael De Cabo

87-LCH. Katherine Schulze
Interneuron vulnerability in aged monkeys with memory impairment
Gustavus Adolphus College (Minnesota)
Preceptors: Dr. Amy Spiegel, Dr. Jeffrey Long

88-LCH. Robert Seftel
Lifestyle Management of Chronic Conditions: Reported use and relative success in BLSA participants
New York University (New York)
Preceptor: Dr. Eleanor Simonsick

89-LCH. Eric Sun
Measuring Aging Rates in the SardiNIA Population Using Pattern Recognition
Pueblo West High School (Colorado)
Preceptor: Dr. Ilya Goldberg
90-LCH. Rebecca Wellman  
*Lipidomics Analysis of Liver from High Fat/Fructose Diet Induced Obese Control and TLR4 KO Mice*  
University of Maryland Baltimore County (Maryland)  
Preceptor: Dr. Simonetta Camandola

91-LCH. Nambi Williams  
*Evidence for the involvement of DNA polymerase beta in the regulation of neurogenesis in aging and Alzheimer's disease*  
Whitney M. Young Magnet High School (Illinois)  
Preceptors: Dr. Magdalena Misiak, Dr. Deborah Croteau, Dr. Mark Mattson, Dr. Vilhelm Bohr

92-LCH. Henry Wu  
*IGFBP5 is the Potential Biomarker of the Aging Arterial Wall*  
University of Maryland Baltimore County (Maryland)  
Preceptors: Dr. Mingyi Wang, Ms. Kimberly McGraw, Mr. Richard Telljohann

93-LCH. Annie Yang  
*Decoding AGE Signal Generated NF-κB RelA/p65 "Barcode" that Directs Collagen-1 Expression*  
Dartmouth College (New Hampshire)  
Preceptors: Dr. Li Lin, Dr. Yunqian Peng, Dr. Edward Lakatta

94-LCH. Jessica Yang  
*Modifiers of Age-Related Cortical Thinning*  
Northwestern University (Illinois)  
Preceptors: Dr. Vijay Venkatraman, Mr. Christopher Gonzalez, Dr. Susan Resnick

95-LCH. Hillary Yeboah  
*The Identification of Novel Sirt6 Modulator from Fenugreek Seed Extract*  
Cornell University (New York)  
Preceptors: Dr. Nagendra Singh, Dr. Ruin Moaddel

96-LCH. Steven Zeng  
*Tropoelastin Modifies Behavior of Vascular Smooth Muscle Cells in Aging Arterial Walls*  
Gilman School (Maryland)  
Preceptors: Dr. Mingyi Wang, Mr. Richard Telljohann, Mrs. Kimberly McGraw

97-LCH. Nancy Zhang  
*Once injected, twice shy: increase in glucose clearance in mice due to repeated exposure to insulin*  
Glenelg Country School (Maryland)  
Preceptors: Dr. Rafael de Cabo, Dr. Michel Bernier, Dr. Sarah Mitchell, Dr. Alberto Diaz Ruiz

**National Institute of Allergy and Infectious Diseases (NIAID)**

98-LCH. Shreya Agarwal  
*Measuring Immune Responses in Mice Following Immunization with Plasmodium yoelii Antigens that Target the Liver Stage of Malaria*  
South Brunswick High School (New Jersey)
Preceptors: Dr. Patrick Duffy, Ms. Sarah Brockley, Dr. Charles Anderson

99-LCH. Mathew Alexander
Effect of Autoclaved vs. Unacluved Diets on the Development of Phlebotomus duboscqi Larvae and Subsequent Vector Competence in Adults
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. David Sacks, Dr. Phillip Lawyer, Dr. Kashinath Ghosh

100-LCH. Avan Antia
Gene Dosing Methodologies to Identify Novel Anti-Fungal Drug Targets
University of Maryland, College Park (Maryland)
Preceptors: Dr. Yoon-Dong Park, Dr. Peter Williamson

101-LCH. Arthur Arcaz
Adaptation of the African Malaria Mosquito to Arid Conditions: Spiracle Size, Water Balance, and Survivorship
Washington University in St. Louis (Missouri)
Preceptors: Dr. Diana Huestis, Dr. Tovi Lehmann

102-LCH. William Caruso
Structural Studies of the HIV-1 Envelope
Massachusetts Institute of Technology (Massachusetts)
Preceptor: Dr. Marie Pancera

103-LCH. Matthew Cowles
Development of monoclonal antibodies against adhesion domains of the Plasmodium falciparum placental malaria vaccine candidate VAR2CSA
Hood College (Maryland)
Preceptors: Dr. Patrick Duffy, Dr. David Narum, Dr. Harold Obiakor

104-LCH. Julia Currie
Spectral Analysis: The relative contributions of filters and light sources to fluorescence excitations
National Cathedral School (District of Columbia)
Preceptor: Dr. Owen Schwartz

105-LCH. Kelly Du Pont
Dimerization of BST-2/Tetherin is necessary but not sufficient for its antiviral activity
James Madison University (Virginia)
Preceptor: Dr. Klaus Strebel

106-LCH. Sahar Elloumi
Clinical skin manifestations in Chronic Granulomatous Disease carriers
University of Maryland Baltimore County (Maryland)
Preceptors: Dr. Christa Zerbe, Dr. Steven Holland, Dr. Betty Marciano

107-LCH. Rebecca Glowinski
Presence and functionality of anticytokine autoantibodies in immunoglobulin preparations
Johns Hopkins University (Maryland)
Preceptors: Dr. Sarah Browne, Dr. Steven Holland
108-LCH. Liam Hatch
*Direct observation and comparison of flu-specific memory B cell frequencies by ELISpot and Flow Cytometry*
University of Maryland College Park (Maryland)
Preceptors: Ms. Madhu Prabhakaran, Mr. Sandeep Narpala, Dr. Adam Wheatley, Dr. Adrian McDermott

109-LCH. Sierra Hirayama, Jonathan Kim
*Visualizing Protein-Protein Interactions in a Decapping Complex in Mammalian Cells*
Kamehameha Schools (Hawaii), Thomas Sprigg Wootton High School (Maryland)
Preceptors: Dr. Peter Williamson, Dr. Nannan Zhang, Ms. Catherine Zhang

110-LCH. Shermaine Hutchins
*Lectin-based Flow Cytometric Analysis of Branching N-Glycans in PGM3 Deficiency*
Owens State Community College (Ohio)
Preceptor: Dr. Jonathan Lyons

111-LCH. Barbora Kabatova
*Expression Optimization of Respiratory Syncytial Virus Fusion Glycoprotein in a Bivalent Live Attenuated Parainfluenza Virus Type 3 Vectored Vaccine*
University of Maryland (Maryland)
Preceptors: Dr. Bo Liang, Dr. Peter Collins, Dr. Shirin Munir

112-LCH. Dakota Katz
*A Platform Process of Purification of Hemagglutinin(Influenza)-Ferritin Nanoparticles Produced in Mammalian Cells*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Xun Liu, Dr. Mridul Ghosh, Dr. Richard Schwartz

113-LCH. Zoha Khan
*Stable Knockdown of STAT Proteins in Human Cells Using Lentivirus-shRNA Constructs*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Daniel Green, Dr. Kathryn Zoon

114-LCH. Jay Khurana
*A Computational Approach for Genetically Differentiating between Mild and Severe Malaria Caused by Plasmodium falciparum in Mali Children*
Fayetteville-Manlius High School (New York)
Preceptor: Dr. Patrick Duffy

115-LCH. Aarti Kolluri
*Proteomic analysis of Plasmodium falciparum erythrocyte membrane protein 1 (PFEMP1) in malaria parasites infecting children*
Grinnell College (Iowa)
Preceptors: Dr. Michal Fried, Dr. Patricia Gonzales

116-LCH. Samantha Louis
*Spectrum and Activity of Anticytokine Autoantibodies in Idiopathic CD4+ Lymphopenia*
Tulane University (Louisiana)
Preceptors: Dr. Sarah Browne, Dr. Steven Holland
117-LCH. Lulama Lunika
*In vitro Selection of Lumefantrine Resistance in Plasmodium falciparum*
Trinity College (Connecticut)
Preceptors: Dr. Nahla Gadalla, Dr. Thomas Wellems

118-LCH. John Martinez
*Evaluating the roles of TGF-β and IL-13 in contributing to Schistosoma mansoni-induced liver fibrosis*
University of Houston (Texas)
Preceptors: Dr. Thomas Wynn, Dr. Kristen Kindrachuk

119-LCH. Marco Martinez
*Mass spectrometry compatible enrichment of membrane proteins for proteomic analysis*
George Mason University (Virginia)
Preceptors: Dr. Marijke Koppenol-Raab, Dr. Aleksandra NitaLazar

120-LCH. Christian Mayfield
*Genomic Wide siRNA Screen for Host Factors Important for HCMV Infection*
Morehouse College (Georgia)
Preceptors: Dr. Qingxue Li, Dr. Jeff Cohen

121-LCH. Katherine McGowan
*Endemic mycoses infections in patients with hyperimmunoglobulin E syndrome STAT3 mutation (Job’s Syndrome)*
University of Massachusetts Dartmouth (Massachusetts)
Preceptors: Dr. Alexandra Freeman, Ms. Camilla Odio

122-LCH. Louis-Henri Merino, Alaleh Azhir
*Website Development for RNAi Screen Data Analysis Pipeline*
Manhattan Center for Science and Mathematics High School (New York), Manhattan Center for Science and Mathematics High School (New York)
Preceptors: Dr. Bhaskar Dutta, Dr. Iain Fraser

123-LCH. Robert Miska
*A pipeline for RNAi screen data analysis*
Oakton High School (Virginia)
Preceptors: Dr. Bhaskar Dutta, Dr. Iain Fraser

124-LCH. Lidya Mulatu
*Genetic Deletion of the Enterotoxin B Superantigen in Staphylococcus aureus*
Howard University (District of Columbia)
Preceptors: Dr. Sandip Datta, Dr. Inka Sastalla

125-LCH. Quang Nguyen
*Characterization of Apha4Beta7 Integrin in Transmission of HIV*
Duke University (North Carolina)
Preceptors: Dr. James Arthos, Dr. Claudia Cicala

126-LCH. Leah Osnos
*Administration of IL-7 is Associated with an Increase in Precursor T-cells in the Bone Marrow of Patients with Idiopathic CD4 Lymphocytopenia*
University of Maryland (Maryland)
Preceptors: Dr. Virginia Sheikh, Dr. Irina Maric, Ms. Jamie Hahn, Dr. Irini Sereti

127-LCH. Chandana Papudesu
Impact of interferon and ribavirin free direct anti-HCV therapy on peripheral immune activation makers of HIV-infected subjects
Medical College of Georgia-Georgia Regents University (Georgia)
Preceptor: Dr. Shyamsundaran Kottilil

128-LCH. Christopher Peek
Development and Application of a New Respiratory Syncytial Virus Attachment Assay
Davidson College (North Carolina)
Preceptors: Dr. Barney Graham, Dr. Syed Moin

129-LCH. Harlan Pietz
AAV-mediated delivery and expression of SIV-neutralizing antibodies in vivo
University of Washington (Washington)
Preceptors: Dr. Cheng Cheng, Dr. John Mascola

130-LCH. McKenzie Quinn
Evolution and Diversity of Rotaviruses Associated with Gastroenteritis at Vanderbilt University Medical School During 2010-2011
James Madison University (Virginia)
Preceptors: Dr. John Patton, Ms. Allison Dennis

131-LCH. Swetha Revanur
Global-Scale Meta-Analysis of Gene Expression Distributions
Evergreen Valley High School (California)
Preceptors: Dr. Iain Fraser, Dr. Bhaskar Dutta

132-LCH. Matilda Rial
Investigating the mechanism of HIV Protease Inhibitors on Plasmodium falciparum
Argosy University (Virginia)
Preceptors: Dr. Charlotte Hobbs, Mrs. Jillian Neal, Dr. Pragyan Acharya

133-LCH. Paul Sackstein
Allergic sensitization and clinical allergy among patients with Wiskott-Aldrich syndrome
Georgetown University (District of Columbia)
Preceptors: Dr. Jonathan Lyons, Dr. Joshua Milner

134-LCH. Danial Saleem
Atopic Dermatitis: A Disease of Dysbiosis?
Columbia University in the City of New York (New York)
Preceptors: Dr. Ian Myles, Dr. Sandip Datta

135-LCH. James Shepherdson
HtrA mutants influence folding and quality control of secreted proteins in Bacillus anthracis
Johns Hopkins University (Maryland)
Preceptor: Dr. Stephen Leppla
136-LCH. Karthik Sreedhara  
Characterization of Antiviral Properties of IFIT3  
University of California, San Diego (California)  
Preceptors: Dr. Hana Schmeisser, Dr. Kathryn Zoon

137-LCH. Prem Talwai  
Model Reduction of Signaling Networks  
Mira Loma High School (California)  
Preceptors: Dr. Bastian Angermann, Dr. Martin MeierSchellersheim

138-LCH. Joel Thomas  
Analysis of microRNA and mRNA Expression Profiles in Chronically Inflamed Fibrotic Tissues from Schistosoma mansoni Infection  
State University of New York at Binghamton (New York)  
Preceptors: Dr. Thirumalai Ramalingam, Dr. Thomas Wynn

139-LCH. Christine Tin  
Norovirus Antibody Profiling by a Luciferase Immunoprecipitation Systems Assay  
Virginia Polytechnic Institute and State University (Virginia)  
Preceptors: Dr. Stanislav Sosnovtsev, Dr. Kim Green

140-LCH. Tishina Tittley  
Structural and Mechanistic studies of the HIV-1 Envelope Trimer in its CD4-Induced Conformation  
Columbia University in the City of New York (New York)  
Preceptor: Dr. Priyamvada Acharya

141-LCH. Joseph Van Galen  
Development of a Universal Nanoparticle Platform to Allow Ordered Presentation of Multiple Immunogens  
Colgate University (New York)  
Preceptors: Dr. M. Gordon Joyce, Dr. Peter Kwong

142-LCH. Kevin Williams Jr.  
Producing a genetic linkage map to identify virulence loci in the cat parasite Toxoplasma gondii  
Pittsburgh Science and Technology Academy (Pennsylvania)  
Preceptors: Dr. Michael Grigg, Dr. Asis Khan

143-LCH. Angela Wu  
Selection of Aptamers that Bind to VRC01-like Germline Antibodies  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. John Mascola, Dr. Cheng Cheng, Mr. Adam Bossert

144-LCH. Pryscilla Yoon  
A Comparative Study of Post-Diethylcarbamazine Treatment Reactions in Onchocerciasis and Loiasis  
Washington University in St. Louis (Missouri)  
Preceptors: Dr. Amy Klion, Dr. Senbagavalli Prakash

145-LCH. George Zhang  
Uncharacterized Protein C9orf152 Plays a Role in Host Response to Viral Infection.
University of Maryland, College Park (Maryland)
Preceptors: Dr. Corey Balinsky, Dr. Kathryn Zoon

National Institute on Drug Abuse (NIDA)

146-LCH. Suhayla Ahmed
Context-Induced Relapse to Palatable Food Seeking after Punishment-Imposed Abstinence
University of Maryland (Maryland)
Preceptors: Dr. Yavin Shaham, Dr. Nathan Marchant, Mr. Konstantin Kaganovsky

147-LCH. Julius Barriteau
Assessing Pharmacologic Modulators of Endoplasmic Reticulum Calcium Using a Secreted Reporter Protein (SERCaMP)
Maret School (District of Columbia)
Preceptors: Dr. Brandon Harvey, Mr. Doug Howard, Dr. Mark Henderson, Ms. Lowella Fortuno

148-LCH. Daniel Baumann
Factors Affecting the Formation of Non-Covalent Complexes Between the Well Known A2A and D2 Receptors
Towson University (Maryland)
Preceptors: Dr. Shelley Jackson, Dr. Ludovic Muller, Dr. Aurelie Roux, Dr. Amina Woods

149-LCH. Sherri-Chanelle Brighthaupt
Role of the Lateral Habenula in Cocaine Self-administration Behavior
Columbia University (New York)
Preceptors: Dr. Carl Lupica, Dr. Agustin Zapata

150-LCH. Russell Burkhardt
Design and Synthesis of Novel High-Affinity and Selective Ligands for the Dopamine D4 Receptor
Rochester Institute of Technology (New York)
Preceptors: Dr. Comfort Boateng, Dr. Amy Newman

151-LCH. Daniel Collector
Methamphetamine Self-Administration Induced Transcriptional Changes in the Expression of Sirtuins in the Rat Hippocampus
Loyola University Maryland (Maryland)
Preceptors: Dr. Jean Lud Cadet, Dr. Irina Krasnova

152-LCH. Lynn Cournoyer
Distribution of ventral tegmental area glutamatergic and GABAergic neurons in the non-human primate brain
University of Maryland, College Park (Maryland)
Preceptors: Dr. David Root, Dr. Marisela Morales, Dr. Huiling Wang

153-LCH. Joshua Elmore
Functional Correlates of the Accumulation of MDMA and its Metabolites in Rat Brain
Frostburg State University (Maryland)
Preceptor: Dr. Michael Baumann
154-LCH. Julie Fedorko  
*Effects of Adversity on addiction-related function and circuitry*  
Pomona College (California)  
Preceptors: Dr. Vani Pariyadath, Dr. Elliot Stein

155-LCH. Mizan Gaillard  
*Effect of the mGluR2 positive allosteric modulator AZD8529 on incubation of methamphetamine craving after prolonged self-imposed abstinence*  
Sidwell Friends School (District of Columbia)  
Preceptors: Dr. Yavin Shaham, Dr. Daniele Caprioli, Mr. Marco Venniro

156-LCH. Angelita Garcia  
*Role of Glutamate-Dependent Signaling in Dorsostriatal Neurons in Context-Induced Reinstatement of Methamphetamine Seeking*  
Bioscience High School (Arizona)  
Preceptors: Dr. Bruce Hope, Mr. Francisco Rubio, Ms. Kylie McPherson

157-LCH. Stephanie Golub  
*Ethanol, Nicotine, and Methamphetamine Consumption Patterns in CDH13 Mice*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Scott Hall, Dr. George Uhl

158-LCH. Nicolas Herard  
*Methamphetamine self-administration and the hippocampal hypocretin system in the rat*  
Whitney M. Young Magnet High School (Illinois)  
Preceptors: Mr. Michael McCoy, Dr. Jean Lud Cadet

159-LCH. Keenan Hope  
*Effects of the Serotonin-Releasing Agent Fenfluramine on Fear and Anxiety in Mice*  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Ross McDevitt, Dr. Antonello Bonci

160-LCH. Nada Ibrahim  
*Attenuation of nicotine self-administration behavior by enhancing endogenous brain levels of kynurenic acid in rats*  
Towson High School (Maryland)  
Preceptors: Dr. Steven Goldberg, Dr. Maria Elena Secci, Dr. Zuzana Justinova, Dr. Leigh Panlilio

161-LCH. Godwin Igbinedion  
*Medication Development for Prevention of Cocaine Relapse*  
Saint John's Catholic Prep (Maryland)  
Preceptors: Dr. Zheng-Xiong Xi, Ms. Sarah Sushchyk

162-LCH. Satoshi Ikemoto  
*Synergistic interaction between caloric restriction and amphetamine in food-unrelated approach behavior of rats*  
University of Texas at Austin (Texas)  
Preceptors: Dr. Satoshi Ikemoto, Mr. Andrew Kesner
163-LCH. Margaret Jokoh
The effects of acute METH administration on Class I HDAC gene expression in the nucleus accumbens of HDAC2-Knockout and WT mice
Loyola University Maryland (Maryland)
Preceptors: Dr. Jean Lud Cadet, Dr. Oscar Torres

164-LCH. Jakub Kaczmarzyk
Effects of Novel Synthetic Cannabinoids on Hippocampal Synaptic Function
Union College (New York)
Preceptors: Dr. Carl Lupica, Dr. Alexander Hoffman, Dr. Charles Spivak

165-LCH. Kanika Kamal
Effects of methamphetamine self-administration on Class I HDAC mRNA expression in the rat hippocampus
Tufts University (Massachusetts)
Preceptors: Dr. Jean Lud Cadet, Mr. Michael McCoy

166-LCH. Taylor Kaminsky
Effects of methamphetamine on the expression of class II HDAC genes in the nucleus accumbens of wild-type and HDAC2 knockout mice
Washington College (Maryland)
Preceptors: Dr. Oscar V. Torres, Dr. Jean Lud Cadet

167-LCH. Raheem Knight
Neural Circuits Associated with Nicotine Addiction
St. Croix Educational Complex High School (Virgin Islands)
Preceptors: Dr. Yuzheng Hu, Dr. Yihong Yang

168-LCH. Nicola Knights
Physiological Effects Of Synthetic Cannabinoids
Friendship Academy of Science and Technology (Maryland)
Preceptors: Dr. Chuck Schlinder, Mr. Eric Thorndike

169-LCH. Pyry Koivula
A Novel Microdissection Method to Isolate Mitochondria from Dopaminergic Nerve Fibers in the Rat Striatum
Temple University (Pennsylvania)
Preceptors: Mr. Brandon Harvey, Ms. YaJun Zhang

170-LCH. Ayush Kumar
Effect of Cadherin 13 deletion on innervation of prefrontal cortical areas by dopaminergic cells
Massachusetts Academy of Math and Science (Massachusetts)
Preceptor: Dr. Jana Drgonova

171-LCH. Senqué Little-Poole
Monosynaptic afferents to ventral tegmental area glutamatergic neurons
Pittsburgh Science and Technology Academy (Pennsylvania)
Preceptors: Dr. Carlos Mejías-Aponte, Dr. Brenda Garcia Iglesias, Dr. David Root, Dr. Marisela Morales
172-LCH. Dexter Louie  
*Trait, State, and Place: Comparison of Neighborhood-Matched Drug Users and Controls*  
University of California, San Francisco (California)  
Preceptors: Dr. Karran Phillips, Dr. Kenzie Preston

173-LCH. Molly Lutrey  
*Developing an Approach to Simultaneously Examine ER Calcium Homeostasis and ER Stress Response*  
Aberdeen High School (Maryland)  
Preceptors: Dr. Brandon Harvey, Dr. Mark Henderson, Ms. Kathleen Trychta, Ms. Lowella Fortuno

174-LCH. Margit Maple  
*Attenuation of cocaine and heroin reward by (+)Naloxone and (+)Naltrexone as novel TLR4 ligands: antagonism to stimulation of mesolimbic DA?*  
Towson High School (Maryland)  
Preceptor: Dr. Gianluigi Tanda

175-LCH. Hanna McKown  
*Sigma-1 receptors modulate p35 activities via the regulation of N-myristoylation*  
University of Virginia (Virginia)  
Preceptors: Dr. Tsung-Ping Su, Dr. ShangYi Tsai

176-LCH. Shashank Mishra  
*Development of a Novel Rodent Model for assessing Neural Circuitry associated with Nicotine Dependence*  
Shrewsbury High School (Massachusetts)  
Preceptors: Ms. Julia Brynildsen, Mr. LiMing Hsu, Dr. Elliot Stein

177-LCH. Hanan Muzemil  
*High Resolution Imaging of Lipids in Mouse Pancreatic Tissue Using MALDI Imaging*  
Whitney M. Young Magnet High School (Illinois)  
Preceptors: Dr. Amina Woods, Dr. Shelley Jackson, Ms. Aurelie Roux, Mr. Ludovic Muller

178-LCH. Chiamaka Ngumi  
*High Spatial Mapping of the Lipids in the Liver de-LIVER-ed By Mass Spectometry Imaging*  
Whitney Young High School (Illinois)  
Preceptors: Dr. Amina Woods, Dr. Shelley Jackson, Dr. Aurelie Roux, Dr. Ludovic Muller

179-LCH. Oluwaseyi Omonijo  
*The Effects of Toxic Doses of Methamphetamine on the Striatal Expression of HDAC genes*  
University of Chicago (Illinois)  
Preceptor: Dr. Subramaniam Jayanthi

180-LCH. Ray Rada  
*Dopaminergic Prediction Error Encoding after Cocaine Self Administration*  
Catonsville High School (Maryland)  
Preceptors: Dr. Geoffrey Schoenbaum, Dr. Tom Stalnaker

181-LCH. Aishwarya Raveesh  
*A Guide to Accessibility: Creating Fillable 508-Compliant Forms in PDF*
182-LCH. Sulabh Singhal  
*Behavioral and anatomical characterization of CSMD1 knockout mice*  
Temple City High School (California)  
Preceptor: Dr. Jana Drgonova

183-LCH. La Traveette Smith  
*The Effects of Toxic Doses of Methamphetamine on BDNF, TrkB, Synapsin, and VGF genes in the Dorsal Striatum*  
Towson University (Maryland)  
Preceptor: Dr. Subramaniam Jayanthi

184-LCH. Reecha Suri  
*Is the supramammillary nucleus involved with dopamine reward circuitry? An optogenetic study*  
University of Maryland Baltimore County (Maryland)  
Preceptors: Dr. Satoshi Ikemoto, Mr. Andrew Kesner

185-LCH. Brian Tan  
*Developing an Awake Rodent Imaging Method for fMRI*  
Trinity School (New York)  
Preceptor: Dr. Hanbing Lu

186-LCH. Kathryn-Mary Wakim  
*Effects of Adversity on Structural Connectivity in Addiction and Addiction-Related Circuits*  
Carnegie Mellon University (Pennsylvania)  
Preceptors: Ms. Vani Pariyadath, Dr. Elliot Stein

187-LCH. Evan Whitehouse  
*Investigating the intrinsic efficacy of putative antagonists and partial agonists of dopamine D1 receptors in D1-D3 receptor heteromers*  
Poolesville High School (Maryland)  
Preceptor: Dr. Xavier Guitart

188-LCH. Sandy Yang  
*Effects of R-modafinil and its analogs on cocaine self-administration in rats*  
Centennial High School (Maryland)  
Preceptors: Dr. Zheng-Xiong Xi, Dr. Haiying Zhang, Dr. GuoHua Bi

189-LCH. Tiffany Yee  
*Sigma-1 Receptor Acetylation by PCAF: Potential relation to cocaine-induced sigma-1 receptor translocation*  
Notre Dame Preparatory School (Maryland)  
Preceptors: Dr. Yuko Yasui, Dr. TsungPing Su
190-LCH. Kimaada Allette
The role of the mismatch repair protein MSH6 in repeat instability in a mouse model of the Fragile X-related disorders
Long Island University - Brooklyn Campus (New York)
Preceptors: Ms. Rachel Lokanga, Dr. Karen Usdin

191-LCH. Joshua Allwardt
The Expression and Ontogeny of the Let-7 Family of microRNA
Concordia University, Nebraska (Nebraska)
Preceptors: Dr. Jeffery Miller, Dr. Jaira Vasconcellos

192-LCH. Lekha Anantuni
Multipoint Triaxial Acceleration during Indian Classical Dance Movements
Arizona State University (Arizona)
Preceptors: Dr. Jennifer Weil, Dr. Jeremy Pomeroy

193-LCH. Jennifer Anhut
Role of Erythropoietin in high fat diet-induced brain inflammation
Mercer University School of Medicine (Georgia)
Preceptors: Dr. Soumyadeep Dey, Dr. Constance Tom Noguchi

194-LCH. Sreya Atluri
The Dynamics of Staying Focused
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Carson Chow, Dr. Shashaank Vattikuti

195-LCH. Joseph Bannister
Exploring the Functional Role of Bacteriophage T4 Gene, MotB, and the Implications on Transcriptional Regulation through In Vitro Assays
James Madison University (Virginia)
Preceptors: Dr. Deborah Hinton, Ms. Danielle Harrison

196-LCH. Haley Barker
Hypoglycemia during Intravenous Glucose Tolerance Test and Validity of Resulting Insulin Sensitivity Parameters
University of Maryland, College Park (Maryland)
Preceptors: Dr. Monica Skarulis, Dr. Susan Yuditskaya

197-LCH. Kevin Bi
Effects of PCBP1 and PCBP2 depletion on iron metabolism and storage proteins in murine erythroid cells
Columbia University (New York)
Preceptors: Dr. Moon-Suhn Ryu, Dr. Caroline Philpott

198-LCH. Leah Birdwell
Expanding a Molecular Probe Toolset for Purinergic GPCRs, A2B and P2Y14 Receptors
University of Maryland, College Park (Maryland)
Preceptors: Dr. Kenneth Jacobson, Dr. Evgeny Kiselev
199-LCH. Leo Blondel
Modeling Known Mutations in the Highly Conserved Nutrient Sensor O-GlcNAc Transferase (OGT)
Rockville High School (Maryland)
Preceptors: Mr. David Bulger, Dr. John Hanover, Dr. Michael Krause

200-LCH. Olurotimi Bolonduro
Investigating Immunomodulating Factors in Liver Disease
Rensselaer Polytechnic Institute (New York)
Preceptors: Dr. T. Jake Liang, Dr. Ynto De Boer, Mrs. Ronda Sapp

201-LCH. Aleaya Bowie
Endocrine Abnormalities in Children and Young Adults With CANDLE Syndrome
University of Maryland Eastern Shore (Maryland)
Preceptor: Dr. Kristina Rother

202-LCH. Mark Bulger
Atherosclerosis in an Hyper-IgE Patient
The Citadel (South Carolina)
Preceptors: Dr. Nadine Ramos, Dr. Ahmed Gharib

203-LCH. Eric Chen
Effects of Pregnancy and Estrogen on Gene Expression Profiles of BRCA1 Mutant and Wild-type Mammary Epithelial Cells
Montgomery Blair High School (Maryland)
Preceptor: Dr. Chuxia Deng

204-LCH. James Coffelt
Investigation of the role of ascorbic acid in iron metabolism in Gulo-deficient mice
Rice University (Texas)
Preceptors: Dr. Nermi Parrow, Dr. Mark Levine

205-LCH. Rebecca Dendy
Factors associated with changes in fat mass and fat free mass change over time
Yale University (Connecticut)
Preceptors: Dr. Marie Thearle, Dr. Mathias Schlogl, Dr. Jonathan Krakoff

206-LCH. Yize Dong
Analysis of Cell Cycle Specific Gene Expression
Campolindo High School (California)
Preceptors: Dr. Daniel Wright, Dr. Ruifeng Teng, Dr. Heather Rogers, Dr. Soumyadeep Dey

207-LCH. James Eaglesham
Mapping the interaction between photocrosslinkable mutants of a Bordetella virulence gene regulator and RNA polymerase
Cornell University (New York)
Preceptors: Ms. Kanita Chaudhry, Dr. Kyung Moon, Dr. Deborah Hinton

208-LCH. Kevin Eisenfrats
Using fluorescence recovery after photobleaching (FRAP) to study histone dynamics in parental genomes during cleavage-stage embryogenesis
University of Virginia (Virginia)
Preceptors: Dr. Li-Quan Zhou, Dr. Jurrien Dean

209-LCH. Dede Etey-Benissan
Role of the Short-Chain Fatty Acid Butyrate on Metabolic Cell Differentiation
University of Maryland Eastern Shore (Maryland)
Preceptors: Dr. Sushil Rane, Dr. Hariom Yadav

210-LCH. Maya Evanitsky
The Effect of Msh3 Mutations on Repeat Expansion in a Fragile X Premutation Mouse Model
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Xiao-Nan Zhao, Dr. Karen Usdin

211-LCH. Christopher Francisco
Effect of palmitate on SMAD3 phosphorylation and FNDC5 gene expression in C2C12 myoblasts
Montgomery College (Maryland)
Preceptors: Dr. Joseph Tiano, Dr. Sushil Rane

212-LCH. Gabriela Guadalupe Rios
Development and Optimization of a GC-MS Method for the Analysis of the Enrichment of Deuterated Glycerol in Plasma
University of Puerto Rico-Rio Piedras Campus (Puerto Rico)
Preceptors: Dr. H. Martin Garraffo, Dr. Peter Walter

213-LCH. Hannah Guan
Immune Activation in the Liver in Response to Microbial Translocation in Patients with Hepatitis C
Vanderbilt University (Tennessee)
Preceptors: Dr. Theo Heller, Dr. Mi Sun Moon, Mr. Jason Eccleston

214-LCH. Laquaundra Hampton
Tshb gene is negatively regulated by thyroid hormone in the pituitary
Hampton University (Virginia)
Preceptors: Dr. Douglas Forrest, Dr. Yulong Fu

215-LCH. Amanda Harbison
Identifying Sis1 substrates using in vivo cross-linking
Northern Virginia Community College (Virginia)
Preceptors: Dr. Michael Reidy, Dr. Daniel Masison

216-LCH. Olivia Harris
Verification and Analysis of Rare Variants Within ALMS1
Northern Arizona University (Arizona)
Preceptors: Dr. Leslie Baier, Mr. Darin Mahkee

217-LCH. Benjamin Harris
Creating Conditional G Protein Beta 5 knockout in Drosophila Using CRISPR/Cas9 technology
Colgate University (New York)
Preceptors: Dr. William Simonds, Dr. Jianhua Zhang, Dr. Mritunjay Pandey
218-LCH. Anna Hoover
*The Role of Erythropoietin in Multilineage Differentiation*
Sidwell Friends School (District of Columbia)
Preceptors: Dr. Sukanya Suresh, Dr. Yuanyuan Zhang, Dr. Constance Noguchi

219-LCH. Daniel Jacobs
*Precrystallization Screening of Membrane Proteins by Fluorescence-Detection Size-Exclusion Chromatography*
Northwestern University (Illinois)
Preceptor: Dr. Travis Barnard

220-LCH. Indra Kar
*The Roles of Chaperones in the Endoplasmic Reticulum-Associated Degradation (ERAD) Pathway*
New York University (New York)
Preceptors: Dr. Yihong Ye, Dr. Layla Saidi, Dr. Yue Xu

221-LCH. Prerana Katiyar
*Cell Type-Specific Neural Manipulation in Feeding Behavior*
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Chia Li, Dr. Michael Krashes

222-LCH. Jason Kim
*Optimization of the Knockdown of PCBP1 in HEK293 Cells using the CRISPR-Cas9 System*
Poolesville High School (Maryland)
Preceptor: Dr. Pam Smith

223-LCH. Joy Li
*Developing tools for detecting glycoconjugates in C. elegans and Drosophila*
Duke University (North Carolina)
Preceptors: Dr. Michelle Bond, Dr. John Hanover

224-LCH. Elizabeth Liu
*Ethnic differences in pancreatic beta-cell glucose sensitivity, insulin clearance, and hepatic insulin degrading enzyme (IDE) activity*
Johns Hopkins University (Maryland)
Preceptor: Dr. Ranganath Muniyappa

225-LCH. Nancy Lopez
*Effects of Oral Diabetes Medications on Bone Health*
University of California, Los Angeles (California)
Preceptors: Dr. Kristina Rother, Dr. Jenny Blau

226-LCH. Brendan Marden
*Characterizing male C. elegans ray phenotypes in O-GlcNAc cycling mutants*
Emmanuel College (Massachusetts)
Preceptors: Dr. Michelle Bond, Dr. John Hanover

227-LCH. Eric Matsumoto
*Splenic Volume as a Surrogate Marker of Portal Hypertension in Patients with Non-Cirrhotic Portal Hypertension*
Maret School (District of Columbia)  
Preceptor: Dr. Christopher Koh

228-LCH. Joe McKenna  
*Mathematical model of metabolic oscillations in pancreatic beta-cells*  
Florida State University (Florida)  
Preceptors: Dr. Arthur Sherman, Dr. Joon Ha

229-LCH. John McNulty  
*Dynamics of Infant Growth: Development of a Quantitative Mathematical Model*  
University of Virginia (Virginia)  
Preceptor: Dr. Kevin Hall

230-LCH. Marda Mengesha  
*The Effect of Optogenetic Stimulation on the Viability of Dopaminergic Neurons*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Alexxai Kravitz, Dr. Danielle Friend

231-LCH. Catherine Millar-Haskell  
*P2Y6 Receptor Regulates Glucose Uptake in C2C12 Cells through AMP-Kinase and Histone Deacetylase 5 Signaling Pathway*  
Arizona State University (Arizona)  
Preceptors: Dr. Ramachandran Balasubramanian, Dr. Kenneth Jacobson

232-LCH. Esa Michael Mobaraki  
*Drug Treatment on Breast Cancer Cells deficient for BRCA1 to Reduce Autophagy*  
Catholic University of America (District of Columbia)  
Preceptors: Dr. Chuxia Deng, Mr. Bo Mu

233-LCH. Nicole Moy  
*The Impact of Thyroid Hormone on X-Zone Development in the Adrenal Gland*  
University of Maryland- College Park (Maryland)  
Preceptors: Dr. Jeff Huang, Dr. Douglas Forrest

234-LCH. Kristen Natonie  
*Lower Insulin Sensitivity and Physical Activity in Black Compared to White Women*  
Northern Arizona University (Arizona)  
Preceptors: Dr. Stephanie Chung, Dr. Anne Sumner

235-LCH. Anna Panyutin  
*The Effect of Adenosine Receptor Agonists on Body Temperature in Mice*  
Loyola University Maryland (Maryland)  
Preceptors: Dr. Oksana Gavrilo, Dr. Marc Reitman

236-LCH. Jackson Peterson  
*Regulation of Meiotic Divisions by a Tau Tubulin Kinase Homolog*  
College of William and Mary (Virginia)  
Preceptor: Dr. Kevin O'Connell
237-LCH. Katherine Pruitt
Sex-Specific Expression of O-GlcNAc Transferase during Mouse Embryogenesis under a High-Sugar Diet
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Stéphanie Olivier-Van Stichelen, Dr. John Hanover

238-LCH. Thomas Pulliam, Abhishek Bhargava
Toward high-throughput screening of marine natural products for gram-negative antibiotic activity
North Carolina State University (North Carolina), Thomas Jefferson High School for Science and Technology (Virginia)
Preceptor: Dr. Carole Bewley

239-LCH. Kushi Ranganath
Pancreatic alpha cell-specific deficiency of the G protein stimulatory alpha-subunit promotes alpha and beta cell growth
Thomas Sprigg Wootton High School (Maryland)
Preceptors: Dr. Lee Weinstein, Dr. Min Chen

240-LCH. Pooja Saha
Retrospective Evaluation of Liver Disease in Patients with Heart and Valvular Disease
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Xiongce Zhao, Dr. Elizabeth Wright, Dr. Yun Ju Kim, Dr. Theo Heller

241-LCH. Michael Sauer
Reduction of Nitrate by E. Coli and Lactobacilli Cultures
Brigham Young University (Utah)
Preceptors: Dr. Mauro Tiso, Dr. Alan Schechter

242-LCH. Emily Scharf
Mutations in the VHL Tumor Suppressor Gene as a Potential Cause for Insulin Sensitivity
George Washington University (District of Columbia)
Preceptors: Dr. Rebecca Brown, Dr. Phillip Gorden

243-LCH. Amanda Schott
Effects of Indirect Pathway Activation on Anxiety in Female Mice
Williams College (Massachusetts)
Preceptors: Dr. Kimberly Leblanc, Dr. Alexxai Kravitz

244-LCH. Ronit Shah
Hepatitis C Virus Infection Down-regulates an Intrinsic Antiviral Gene N-myc downstream regulated 1 (NDRG1) for Efficient Viral Replication
University of Toledo (Ohio)
Preceptors: Dr. Jake Liang, Dr. Cameron Schweitzer

245-LCH. Michael Shen
Role of TGF-β Signaling in Adipose Tissue Biology
Duke University (North Carolina)
Preceptors: Dr. Sushil Rane, Dr. Umesh Wankhade
246-LCH. Michaela Suarez
The Effect of Erythropoietin and High-Fat Diet on Glucose Metabolism in Wild-Type C57BL/6 Mice
Chaminde University of Honolulu (Hawaii)
Preceptors: Mrs. Heather Rogers, Dr. Constance Noguchi

247-LCH. Yi-An Tang
HIV-1 Integrase Expression in Human Embryonic Kidney 293T Cells
Richard Montgomery High School (Maryland)
Preceptors: Dr. Min Li, Dr. Samarendra Singh, Dr. Robert Craigie

248-LCH. Waynette Taylor
Identification and analysis of putative functional insertion/deletion and stopgain variants in genes that could affect risk for type 2 diabetes in Pima Indians
Arizona State University (Arizona)
Preceptors: Dr. Leslie Baier, Dr. Anup Nair

249-LCH. Kevin Trujillo
Structure based design of ligands for the P2Y14 receptor using molecular modeling
Loyola University Chicago (Illinois)
Preceptors: Dr. Kenneth Jacobson, Dr. Silvia Paoletta

250-LCH. Peter Weng
Structural studies of human polymerase eta bypass of the oxidative lesion 8,5'-cyclo-2'-deoxyadenosine
University of Maryland, College Park (Maryland)
Preceptors: Dr. Wei Yang, Dr. Yang Gao

251-LCH. Yuqi Zhang, Gabriela Ortiz, Hyuk Joon Kwon
Expression of HELZ2, a transcriptional co-activator, in a Five Year Old with Hydrocephalus, Developmental Delay, Multiple Lentigines, and Sudden Weight Gain
University of Toledo College of Medicine (Ohio), University of the Incarnate Word (Texas), University of Maryland, College Park (Maryland)
Preceptors: Dr. Richard Proia, Dr. Cynthia Tifft, Dr. Maria Allende

252-LCH. Jennifer Zornjak
Investigation of the Cytotoxic Mechanism of Pharmacologic Ascorbate in the B16 Melanoma Mouse Model
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Mark Levine, Dr. Nermi Parrow

National Institute of Environmental Health Sciences (NIEHS)

253-LCH. Wesley Greene
Evaluating the Viability of ELISA as an Alternative to Immunoprecipitation in Screening for IIM-Related Autoantibodies
University of Notre Dame (Indiana)
Preceptors: Dr. Adam Schifffenbauer, Dr. Frederick Miller, Dr. Lisa Rider
254-LCH. Chase Yuan
The Role of Sirtuin 1 in the Glucocorticoid Signaling Pathway
North Carolina School of Science and Mathematics (North Carolina)
Preceptors: Dr. Xiaoling Li, Dr. Shuang Tang

National Institute of Nursing Research (NINR)

255-LCH. Michael Akosile
DIFFERENTIAL Diagnosis of Diabetes Insipidus.
Southern Illinois University (Illinois)
Preceptors: Dr. Paul Wong, Mrs. Mary Myers, Ms. Raven McGlotten

256-LCH. Jocelyn Butrum
Results of a validation study of the Quality of Upper Extremity Skills Test (QUEST) in Congenital Muscular Dystrophy
Salisbury University (Maryland)
Preceptor: Dr. Katy Meilleur

257-LCH. Joshua Cocker
Brains vs. Brawn: Association of Mitochondrial Dysfunction with Peripheral Fatigue
Poolesville High School (Maryland)
Preceptors: Mr. Gerard Holder, Dr. Kristin Filler, Dr. Leoroy Saligan

258-LCH. Liz Ellor
Gene Expression Findings in Sports Related Concussion
Cornell University (New York)
Preceptor: Dr. Jessica Gill

259-LCH. Joseph Kalish
The Association of Fatigue with Cognitive Function in Men with Prostate Cancer Receiving Radiation Therapy
Rutger's University (New Jersey)
Preceptor: Dr. Leorey Saligan

260-LCH. Gibran Mangui
Brain vs. Brawn: Association of Mitochondrial Dysfunction with Central Fatigue
University of Rochester (New York)
Preceptors: Dr. Leorey Saligan, Dr. Kristin Filler, Mr. Gerard Holder

261-LCH. Michael Rosario
The Effects of the Mediterranean Diet and ω-3 Fatty Acid Supplements on Plasma Fatty Acid Composition in Hyperlipidemic Children: Results from the EARLY Medit Trial
University of Maryland - College Park (Maryland)
Preceptors: Dr. Marguerite Engler, Dr. Mary Engler

National Library of Medicine (NLM)

262-LCH. Nathan Bahr
Quality assurance of drug value sets for clinical quality measures
263-LCH. Theodore Corrales
Novel Technique for Increasing Crowdsourcing Efficiency through Item Difficulty Analysis (IDA): Extensions to the EM Algorithm with Applications for Text Mining
Montgomery Blair High School (Maryland)
Preceptors: Dr. Zhiyong Lu, Ms. Ritu Khare

264-LCH. Daniel Johnson
Semantic Access to MEDLINE on Mobile Devices
Morehouse College (Georgia)
Preceptors: Dr. Thomas Rindflesch, Mr. Mike Cairelli

265-LCH. Agam Mittal
Extracting Bibliographic Citations from Free Text
Montgomery Blair High School (Maryland)
Preceptors: Dr. Kirk Roberts, Dr. Dina Demner-Fushman

266-LCH. Stephanie Rager
Structure-based prediction and validation of human protein-protein interactions and interfaces
Montgomery Blair High School (Maryland)
Preceptors: Dr. Alexander Goncearenco, Dr. Anna Panchenko

267-LCH. Christopher Snyder
Graph Theoretic Analysis of Semantic Networks
George Washington University (District of Columbia)
Preceptors: Dr. Micheal Cairelli, Dr. Thomas Rindflesch

268-LCH. Maria Yang
A Comparative Analysis of Multiple Sequence Alignments
Montgomery Blair High School (Maryland)
Preceptor: Dr. Aron Marchler-Bauer
National Human Genome Research Institute (NHGRI)

1-PM. Kwabena Amoateng
*Hereditary Modifiers of Metastasis: Function of NDN in Metastasis*
Howard Community College (Maryland)
Preceptors: Dr. Nigel Crawford, Dr. Minnyong Lee, Dr. Jens Lichtenberg, Ms. Sarah Beggs

2-PM. Freidrich Anselmo
*Evaluation of HAS1 as a Cause of Altered Glycosylation*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Megan Kane, Dr. Mariska Davids, Dr. Miao He, Dr. Cornelius Boerkoel

3-PM. Janine Beekman
*Emotion Moderates the Effect of Genomic Obesity Information on Unhealthy Eating Willingness*
George Washington University (District of Columbia)
Preceptors: Dr. Rebecca Ferrer, Dr. William Klein, Dr. Susan Persky

4-PM. Steven Bodine
*N-acetylcysteine Modulates Podocyte Survival in an Inducible Model of Podocytopathy*
Middlebury College (Vermont)
Preceptors: Dr. May Malicdan, Dr. Marjan Huizing, Dr. William Gahl

5-PM. Samantha Caldwell
*The Return of Whole Exome Sequencing Results: Exploring Participant Experiences*
University of North Carolina Greensboro (North Carolina)
Preceptor: Dr. Barbara Biesecker

6-PM. Jerrel Catlett
*Expression analysis of mmachc in zebrafish*
School Without Walls Senior High School (Washington D.C)
Preceptors: Dr. Charles Venditti, Mr. Nathan Achilly

7-PM. Helen Cheung, Michael Tzeng
*Characterizing the Pathology of C19orf12*
University of Maryland College Park (Maryland), University of Maryland College Park (Maryland)
Preceptors: Dr. Camilo Toro, Dr. Cornelius Boerkoel

8-PM. Dahima Cintron
*Non Motor Assessments in patients with glucocerebrosidase mutations at risk of developing Parkinson’s Disease*
University of Puerto Rico-Medical Sciences Campus (Puerto Rico)
Preceptors: Ms. Jenny Kim, Dr. Grisel Lopez, Dr. Ellen Sidransky

9-PM. Jennifer Guo
*Generation of a cell model for Laminin-alpha1 deficiency*
Holton-Arms School (Maryland)
Preceptors: Dr. May Malicdan, Dr. Thierry Viliboux, Dr. William Gahl

10-PM. Chen Han
*Leptin in Hermansky-Pudlak Syndrome Pulmonary Fibrosis.*
Georgetown University (District of Columbia)
Preceptors: Dr. Bernadette Gochuico, Dr. Andrew Cullinane

11-PM. Evelyn Hernandez
Patient-Provider Interaction in Clinical Simulation: The Relationship between Patient Language and Health Behavior
University of Rochester (New York)
Preceptor: Dr. Susan Persky

12-PM. Zoe Hill
Hawaii vs. Plavix: Content Analysis of the Public Discourse of Pharmacogenomics and Human Genetic Variation
Duke University (North Carolina)
Preceptor: Mr. Vence Bonham

13-PM. Howard Huang
Evaluation of Variant Detection Software for Pooled Next Generation Sequencing Data
Johns Hopkins University (Maryland)
Preceptors: Dr. Nancy Hansen, Dr. Jim Mullikin

14-PM. Jennifer Martinez
The role of Mexican-American family structures in health communication following family health history risk assessment
University of Maryland (Maryland)
Preceptors: Dr. Laura Koehly, Dr. Anna Wilkinson, Dr. Chris Marcum

15-PM. Kaylin O'Brien-Miner
Generating Tools for Future Gene Therapy Studies in a Mouse Model of cblC Deficiency
Bucknell University (Pennsylvania)
Preceptors: Dr. Jennifer Sloan, Dr. Charles Venditti

16-PM. Akosua Osei - Tutu
Assessing the Mechanism of the Anti-Leukemic Drug Ro5-3335
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Paul Liu, Dr. Jamie Diemer

17-PM. Jillian Pailin
Screening of Human Putative Enhancers in a Zebrafish Model
Howard University (District of Columbia)
Preceptors: Dr. Sung-Kook Hong, Dr. Erich Roessler, Dr. Ping Hu, Dr. Maximilian Muenke

18-PM. Leah Pedoeim
Receptor-interacting protein kinase expression in patients with Gaucher disease with and without neurological symptoms
University of Maryland School of Medicine (Maryland)
Preceptors: Dr. Ellen Sidransky, Dr. Nahid Tayebi

19-PM. Sameer Prasad
Molecular Characterization of a Mutant Splicing Factor Involved in Lung Adenocarcinoma
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Dennis Fei, Dr. Harold Varmus
20-PM. Daniel Quang  
*Motif signatures in Stretch Enhancers*  
UC Irvine (California)  
Preceptors: Dr. Francis Collins, Dr. Stephen Parker, Dr. Michael Erdos

21-PM. Gabrielle Robbins  
*Modeling Rare Human Diseases in Zebrafish*  
North Carolina State University (North Carolina)  
Preceptors: Dr. Ashrifia Adomako-Ankomah, Dr. Cornelius Boerkoel, Dr. Shawn Burgess

22-PM. Allie Rosen  
*The Influence of Genetic Predisposition for Risk-Taking/Novelty-Seeking and Perceived Behavior of Role Models on Adolescent Alcohol Use*  
Brown University (Rhode Island)  
Preceptors: Dr. Laura Koehly, Dr. Sunmi Song, Dr. Anna Wilkinson, Dr. Christopher Marcum

23-PM. Katharine Schluntz  
*Design of a Cohort to Screen for Novel Causes of Pigmentation and Vesicular Biology Disorders*  
Potomac High School (Virginia)  
Preceptor: Dr. David Adams

24-PM. Nikeith Shah  
*Clinical Significance of BRAF V600E Mutation in Erdheim-Chester Disease: A Systematic Review of Cases Seen at the NIH Clinical Center*  
The George Washington University (District of Columbia)  
Preceptors: Dr. Juvianee Estrada-Veras, Dr. William Gahl, Dr. Jhonell Alvarado

25-PM. Beatrice Sun  
*Functional Genomics in Zebrafish Using CRISPR/cas9 Mediated Mutagenesis and Whole Mount In-situ Hybridization*  
University of California, Los Angeles (California)  
Preceptors: Mr. Blake Carrington, Mr. Kevin Bishop, Dr. Raman Sood

26-PM. Dain Thorpe  
*Understanding Physician Perspectives on Sickle Cell Disease and Leg Ulcers*  
Howard University College of Medicine (District of Columbia)  
Preceptor: Mr. Vence Bonham

27-PM. Mark Valeiras  
*Modeling Gaucher associated Parkinsonism in the mouse: Glucocerebrosidase deficiency leads to earlier morbidity*  
University of Virginia (Virginia)  
Preceptors: Dr. Ellen Sidransky, Dr. Nahid Tayebi

28-PM. Connie Xu  
*Metabolic Pathway Reengineering: Can the Methylcitrate Cycle Function in Eukaryotic Cells?*  
Montgomery Blair High School (Maryland)  
Preceptor: Dr. Charles Venditti

29-PM. Karen Xu  
*Analysis of Pharmacogenomics Variants in the NIH Undiagnosed Diseases Program Patients*
30-PM. David Yarnell  
*Mutations in Sonic Hedgehog pathway genes predispose liver to steatosis*  
Oberlin College (Ohio)  
Preceptors: Mr. Ariel Martinez, Dr. Maria Guillen Sacoto, Dr. Maximilian Muenke

31-PM. Lily Zheng  
*Analysis of Hematopoietic Phenotypes of Two Zebrafish runx1 Mutants*  
Duke University (North Carolina)  
Preceptors: Dr. Erica Bresciani, Dr. Paul Liu

National Heart, Lung, and Blood Institute (NHLBI)

32-PM. Kyle Bruun  
*The Role of Myosin 18 in Golgi Shape, Size, and Function*  
Saint Joseph's University (Pennsylvania)  
Preceptor: Dr. John Hammer

33-PM. Lauren Carlozzi  
*Filling the gaps in the cardiovascular lipid and risk assessment guidelines*  
Northeast Ohio Medical University (Ohio)  
Preceptors: Dr. Denise Bonds, Dr. Lawrence Fine

34-PM. William Chang  
*Spatial Extent of Stress Perfusion Defects Quantified by Cardiac MRI*  
Yale University (Connecticut)  
Preceptors: Ms. Hannah Conn, Dr. LiYueh Hsu, Mrs. Allison Ta, Dr. Andrew Arai

35-PM. Jane Annie Chen  
*The Effect of Repeated Freezing and Thawing of Sendai Virus on Transduction in Human Fibroblasts*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Guokai Chen, Dr. Jeanette Beers, Dr. Yongshun Lin, Ms. Kaari Liisi Linask

36-PM. Keona Childs  
*Cardiovascular CT: Risk Stratification for Lower Radiation Dose*  
Howard University College of Medicine (District of Columbia)  
Preceptors: Dr. Marcus Chen, Dr. Sujata Shanbhag

37-PM. Caelen Clark  
*SHANK2 Deficient Mice Exhibit Proteinuria and Altered Podocyte Ultrastructure*  
Alfred University (New York)  
Preceptors: Dr. Christine Brantner, Ms. Patricia Zerfas

38-PM. Caroline Clark  
*An Investigation of Sickle Cell Disease and Gout: Looking Further for the Right Diagnosis*  
University of Virginia (Virginia)
Preceptor: Dr. Caterina Minniti

39-PM. Tara Dasigi
The Measure of Diffusion and Impact of Scientific Findings from the NHLBI-Supported Proteomics Centers Program
University of Georgia (Georgia)
Preceptors: Dr. Rich Fabsitz, Dr. Pothur Srinivas, Ms. Mona Puggal

40-PM. Yesubet Dereje
Oxygen Imaging Probe Development.
University Of Rochester (New York)
Preceptors: Dr. Tilman Rosales, Dr. Jay Knutson

41-PM. Lisa Eshun-Wilson
siRNA screen of human de-ubiquitination proteases (DUBs) to identify mediators of clathrin-independent endocytosis (CIE) cargo sorting in HeLa cells
Grinnell College (Iowa)
Preceptors: Dr. Julie Donaldson, Dr. Chad Williamson

42-PM. Ricky Fairhurst
Imaging Acto-myosin Interactions using Single Molecule Techniques
University of Maryland- College Park (Maryland)
Preceptors: Dr. Jim Sellers, Dr. Yasuharu Takagi, Dr. Neil Billington

43-PM. Nicolas Francone
In Vitro Studies of Lipoprotein-X: Role of Lecithin-Cholesterol Acyltransferase and Apolipoprotein A-I
The George Washington University (Washington)
Preceptors: Dr. Edward Neufeld, Dr. Alan Remaley

44-PM. Sesha Kammula
Using RNA sample titrations to compare Affymetrix Genetitan and Genechip platforms
Walter Johnson High School (Maryland)
Preceptors: Dr. Jinguo Chen, Dr. Rongye Shi

45-PM. Elaine Kang
A Comparison of the Gene Expression Profiles of Induced Pluripotent Stem Cells Derived from Patients with GATA2 Deficiency and Healthy Controls
Yale University (Connecticut)
Preceptors: Dr. Cynthia Dunbar, Dr. Moonjung Jung, Dr. Thomas Winkler, Dr. Sogun Hong

46-PM. Yusuf Khan
Regulation of NF-KappaB in PDE3B Knockout Mice Adipose Tissue
University of Maryland- College Park (Maryland)
Preceptors: Dr. Vincent Manganiello, Dr. Faiyaz Ahmad

47-PM. Neila Kline
Functional characterization of repeat protein FHL2
Vassar College (New York)
Preceptors: Dr. Gregory Alushin, Mr. Robert Cail
48-PM. Christian LaChance  
**Analysis of Donor Factor VIII Mismatches in Sickle Cell Patients Treated with Hematopoietic Stem-Cell Transplantation**  
Virginia Tech (Virginia)  
Preceptors: Dr. Pat Weitzel, Dr. John Tisdale

49-PM. Brian Le  
**Psoriasis and Coronary Artery Disease by Computer Coronary Tomographic Angiography**  
Montgomery Blair High School (Maryland)  
Preceptors: Dr. Pothur Srinivas, Dr. Nehal Mehta

50-PM. Justin Lee  
**Correlation Spectroscopy On A Dime**  
Duke University (North Carolina)  
Preceptors: Dr. Jay Knutson, Dr. Aleksandr Smirnov

51-PM. Ahkeem Lewis  
**Investigation of Endothelial Cell Activation in Patients with Psoriasis**  
Mount Carmel High School (Illinois)  
Preceptors: Dr. Nehal Mehta, Dr. Martin Playford

52-PM. Jessica Lin  
**Sex-based differences in protein s-nitrosylation during cardiovascular disease**  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Sara Menazza, Dr. Elizabeth Murphy

53-PM. Andrew Lokker  
**Developing a Technique for Measuring Glial Scar Stiffness using a Confocal Rheometer**  
Duke University (North Carolina)  
Preceptors: Dr. Herbert Geller, Mr. Misha Smirnov

54-PM. Ben McKenzie  
**Effects of Rosuvostatin treatment on lipoprotein composition and function: A potential new role for Alpha-1-Antitrypsin on lipoproteins**  
Anderson University (Indiana)  
Preceptors: Dr. Scott Gordon, Mrs. Georgina Keme, Dr. Alan Remaley, Dr. Neal Young

55-PM. Brandon Nelson  
**Comparison of Pulsed Super-Continuum Laser Excitation Versus Continuous Laser Excitation of Fluorophores**  
Carleton College (Minnesota)  
Preceptors: Dr. Maria Mills, Dr. Keir Neuman

56-PM. Abby Ng  
**Tracking Apolipoprotein C-III Interactions with Lipid Particles**  
Northern Virginia Community College (Virginia)  
Preceptors: Dr. Michel de Messieres, Dr. Jennifer Lee

57-PM. Hellen Oduor  
**Transfusion-Related Cardiac Iron Overload Is Potentially Reversible in Patients with Sickle Cell Disease**
University of Texas Health Science Center at Houston (Texas)
Preceptor: Dr. Courtney Fitzhugh

58-PM. Isabella Pagano
Protein Correlation throughout Periods of Time
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Justin Taraska, Dr. Kem Sochacki

59-PM. Nirosha Perera
A novel assay for high sensitivity quantification of myeloid leukemia
Harvard University (Massachusetts)
Preceptors: Dr. Christopher Hourigan, Dr. Jingrong Tang, Mrs. Meghali Goswami

60-PM. Christina Pickering
Comprehensive Proteomic Analysis of Nuclei from Rat Renal Inner Medullary Collecting Ducts
Auburn University (Alabama)
Preceptors: Dr. Chung Lin Chou, Dr. ChinRang Yang, Dr. Hyun Jun Jung, Dr. Mark Knepper

61-PM. Sina Pooresmaeil
Proteasome Inhibition Using Bortezomib to Sensitize Tumors to Adoptive NK Cell Immunotherapy: From the Bench to the Clinic
Bishop Ireton Highschool (Virginia)
Preceptors: Dr. Richard Childs, Mr. Robert Reger

62-PM. Christopher Sandino
Evaluating precision of T2* mapping methods for MRI tissue characterization
University of Southern California (California)
Preceptors: Dr. Hui Xue, Dr. Peter Kellman

63-PM. Thomas Stephens
Automated Protein Backbone Assignment via Pattern Matching of Chemical Shifts
George Mason University (Virginia)
Preceptors: Dr. Jian Liu, Dr. Nico Tjandra, Dr. Maddy Davison

64-PM. Shyamala Sundaresan
Are Adolescents Meeting the American Heart Association’s 2020 Goals for Ideal Cardiovascular Health?: Results from the Next Generation Health Study.
George Mason University (Virginia)
Preceptor: Dr. Charlotte Pratt

65-PM. Paola Villegas, Alison Staffin
Chemokines and chemokine receptors in Lymphangioleiomyomatosis (LAM)
University of Notre Dame (Indiana), University of Vermont (Vermont)
Preceptors: Dr. Joel Moss, Dr. Gustavo Pacheco

66-PM. Andrew Wang
Development of HTLV-1 vector as a gene expression delivery vehicle
Poolesville High School (Maryland)
Preceptors: Dr. Xunde Wang, Dr. John Tisdale
67-PM. Catherine Wang
*Effect of the DCR Protein TTC3 on Cell Differentiation in Mouse Neurons*
Richard Montgomery High School (Maryland)
Preceptor: Dr. Chengyu Liu

68-PM. Jingxiao Wang
*Chemical Kinetics and Mechanical Study of Myosin-Binding Protein-C Slow Interacting with Acto-myosin-2*
Vanderbilt University (Tennessee)
Preceptors: Dr. James Sellers, Dr. Yasuharu Takagi

69-PM. Nathaniel Wolanyk
*Network-based Analysis of Type-1 Diabetes Gene Expression Data*
University of Alabama at Birmingham (Alabama)
Preceptor: Dr. Xujing Wang

70-PM. Haitao Xu
*Development of a LDLR-deficient Human Bronchial Epithelial Cell Line using CRISPR*
University of Florida (Florida)
Preceptors: Dr. Xianglan Yao, Dr. Stewart Levine

71-PM. Kiet Zhou
*Exploring the Potential Application of Nanoparticles on Mitochondrial Transformation*
University of Maryland (Maryland)
Preceptors: Dr. Zhe Chen, Dr. Hong Xu

**National Institute on Alcohol Abuse and Alcoholism (NIAAA)**

72-PM. Mohammed Akbar
*Trafficking of the voltage-gated sodium channel NaV1.8 by accessory proteins*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Henry Puhl, Dr. Stephen Ikeda

73-PM. Nicholas Berray
*The Creation of a Model Neuronal System from Depressed Patients to Test Fast-Acting Antidepressant Medications*
Potomac School (Virginia)
Preceptors: Dr. Mark Niciu, Dr. David Goldman, Dr. Carlos Zarate

74-PM. Kevin Chiang
*ALDH2 Deficiency Enhances Motor Impairment Induced by Concurrent Use of Alcohol and Marijuana in Mice*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Li Zhang, Dr. David Lovinger

75-PM. Rosa Choe
*Evaluation of the Hepatoprotective Role of the Ethanol-Inducible Cytochrome P450-2E1 (CYP2E1) Gene on 129/SvJ and C57BL/6 Background Mice*
Montgomery Blair High School (Maryland)
76-PM. Sarita Deshpande
*Whole Transcriptome and Single Cell Analysis of Mouse Substantia Nigra Microglial Cells*
Hinsdale Central High School (Illinois)
Preceptor: Dr. Kornel Schuebel

77-PM. Michael Gao
*Investigation on the Antifibrotic Potential of Novel, Dual Target CB1 Receptor/iNOS Inhibitors in Liver Fibrosis*
Freehold High School (New Jersey)
Preceptors: Dr. Resat Cinar, Dr. Tony Jourdan, Dr. George Kunos

78-PM. Michael Guardado-Montesino
*Characterizing the distribution and phenotype of CRH releasing neurons within the rostro-caudal axis of the striatum*
Northern Virginia Community College (Virginia)
Preceptors: Dr. Julia Lemos, Dr. Veronica Alvarez

79-PM. Eileen Holovac
*A New Cannabinoid CB2 Receptor Agonist Attenuates Oxidative Stress, Inflammation and Cell Death Associated with Cisplatin Induced Nephrotoxicity in Mice.*
University of Rhode Island (Rhode Island)
Preceptors: Dr. Partha Mukhopadhyay, Dr. Pal Pacher

80-PM. Kellie Holovac
*Characterization of Human Alcoholic Cirrhotic Liver*
Academy of the Holy Cross High School (Maryland)
Preceptors: Dr. Resat Cinar, Dr. George Kunos, Dr. Bani Mukhopadhyay

81-PM. Srinivasa Kanuparthi
*Characterization of neuromuscular synapses using acetylcholine receptor subunit mutants via TALEN genome editing*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Tory Williams, Dr. Fumihito Ono

82-PM. Elena Lonskaya
*Preparation of plasmid constructs for expression of recombinant cannabinoid receptor CB2 in E. coli*
Bethesda-Chevy Chase High School (Maryland)
Preceptors: Dr. Alexei Yeliseev, Dr. Silvia LocatelliHoops, Dr. Klaus Gawrisch

83-PM. Sarah Silverman
*Neuroimaging Omega-3 Reward in Adults with ADHD (NORAA): Analysis of Lipid Compositions in Intervention Agents and in Typical US Background Diets*
Carleton College (Minnesota)
Preceptors: Dr. Joseph Hibbeln, Mr. James Loewke, Dr. Rachel Gow, Dr. Chris Ramsden

84-PM. Gabriel Thompson
*Cortical NMDA receptor control of reward-seeking in C57BL/6J mice*
University of New Mexico (New Mexico)
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

85-PM. Thomas Brimertc  
How Does HLA-B27 Influence the Gut Microbiome and Does it Trigger Spondyloarthritis and Inflammatory Bowel Disease?  
University of Alabama at Birmingham (Alabama)  
Preceptors: Dr. Robert Colbert, Dr. Tejpal Gill

86-PM. Raissa Dantas  
A structural analysis of viral assembly: The role of scaffolding proteins  
University of Maryland-Baltimore County (Maryland)  
Preceptors: Dr. Anastasia Aksyuk, Dr. Michael Dimattia, Dr. Alasdair Steven

87-PM. Madison Dawkins  
Characterization of Undifferentiated Auto-Immune Diseases  
Baldwin School (Pennsylvania)  
Preceptors: Ms. Mildred Wilson, Dr. Ben Afzali

88-PM. Zainab Fatima  
Dissecting the Pathways of NETosis by Genome-Wide siRNA Screening: A Tool to Identify Novel Therapeutic Pathways in Systemic Lupus Erythematosus  
Southern Methodist University (Texas)  
Preceptors: Dr. Mariana Kaplan, Dr. Luz Blanco

89-PM. Cara Fleming  
Early pharmacokinetic studies of the JAK inhibitor baricitinib in children with CANDLE  
Boston College (Massachusetts)  
Preceptors: Dr. Raphaela Goldbach-Mansky, Dr. Gina Montealegre

90-PM. Maryam Ghaderi  
Hydroxychloroquine Pharmacokinetics in SLE Patients with Renal Impairment  
University of Maryland College Park (Maryland)  
Preceptors: Dr. Sarfaraz Hasni, Dr. Ann Biehl

91-PM. Jason Herritt  
Characterization of STAM1 in Monocytes  
Cornell University (New York)  
Preceptors: Dr. Keith Sikora, Dr. Robert Colbert

92-PM. Advait Iyer  
Analyzing Influenza X-31 Solenoids through Cryo-Electron Tomography  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Juan Fontana, Dr. Dennis Winkler, Dr. Alasdair Steven

93-PM. Monil Mehta  
Comparing the Properties and Functions of Cementocytes and Osteocytes in Vitro  
University of Tennessee (Tennessee)
94-PM. Maliza Namude
*Effects of immunomodulators used to treat autoimmune diseases on neutrophil extracellular trap formation*
Harvard (Massachusetts)
Preceptors: Dr. Mariana Kaplan, Ms. Carly Smith

95-PM. William Tuifua
*Cloning and Characterization of Recombinant RHIM Domains from Necrosomal Proteins*
Kamehameha High School (Hawaii)
Preceptors: Dr. Alasdair Steven, Dr. Altaira Dearborn, Dr. Rick Huang

96-PM. Karinna Vivanco
*Degree of H3K27 methylation influences cell lineage preference in ES cells*
Massachusetts Institute of Technology (Massachusetts)
Preceptors: Dr. Vittorio Sartorelli, Dr. Aster Juan, Mr. Stan Wang

97-PM. Christopher Washington
*The cloning and characterization of recombinant RHIM domains from Zpb1, which is involved in RIP1-independent necroptosis*
University of Illinois at Chicago College Preparatory High School (Illinois)
Preceptors: Dr. Alasdair Steven, Dr. Altaira Dearborn, Dr. Rick Huang

98-PM. Chelsea Willoughby
*Bone sialoprotein (BSP) is critical for the development and function of craniofacial bone*
The George Washington University (District of Columbia)
Preceptor: Dr. Brian Foster

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

99-PM. Tyler Burden
*Analysis of Cytokines Released from Cell Cultures*
St. Johns College High School (District of Columbia)
Preceptors: Dr. Heather Kalish, Mr. Shane McMahon

100-PM. Adriel Casellas
*Single Molecule Imaging and Tracking of Nuclear Proteins*
Brigham Young University Hawaii (Hawaii)
Preceptors: Mr. Evan Stevens, Dr. Marei Dose, Dr. Yicong Wu, Dr. Hari Shroff

101-PM. Alisha Geldert
*The Effect of Chondroitin Sulfate Proteoglycan Surface Gradient Profile on Neurite Growth*
University of Virginia (Virginia)
Preceptors: Dr. Nicole Morgan, Dr. Herbert Geller, Mr. Andrew Taverner

102-PM. Pawel Golyski
*Development of a Laser Guided System for Observation of Freeform Walking Characteristics*
Brown University (Rhode Island)
103-PM. Eric Huang
*Tunable Synthesis of Biocompatible Gold Nanotriangles for Photothermal Therapy*
University of California, Berkeley (California)
Preceptors: Dr. Ashwinkumar Bhirde, Mr. Erick Harr, Dr. Xiaoyuan Chen

104-PM. Allison Jaffe
*Spectral pathology: A novel approach to diagnose and study cancer*
Washington-Lee High School (Virginia)
Preceptors: Dr. Svetlana Pack, Dr. Alexander Gorbach

105-PM. Angela Li, Celina Shih
*Probing DNA constructs using AFM and force spectroscopy*
Poolesville High School (Maryland), River Hill High School (Maryland)
Preceptor: Dr. Albert Jin

106-PM. Raymond Li
*Sensitive Detection of MicroRNA Using Isothermal Amplification of Molecular Beacons*
Duke University (North Carolina)
Preceptors: Dr. Zhongliang Wang, Dr. Shawn Chen

107-PM. David Mertz
*Quantifying Nanoscale Properties of Engineered Virus Capsids for Vaccine and Drug Delivery Applications*
University of Michigan (Michigan)
Preceptors: Dr. Albert Jin, Dr. David Narum

108-PM. Joshua Shin
*Techniques for Studying Protein Self-association*
Oakton High School (Virginia)
Preceptors: Dr. Peter Schuck, Dr. Jia Ma, Dr. Huaying Zhao

109-PM. Luis Torres
*The Effects of Calcium on the Malaria Circumsporozoite Protein Conformation and Interactions*
University of Southern California (California)
Preceptors: Dr. Albert Jin, Dr. David Narum

110-PM. Arvind Vijaykumar, Ari Charnoff
*An Intuitive, Auditory Representation of Peripheral Microvascular Oscillations*
Thomas S. Wootton High School (Maryland), Charles E. Smith Jewish Day School (Maryland)
Preceptors: Dr. Alexander Gorbach, Mr. James Ahad

111-PM. James Yao
*Biological AFM studies of Abeta protein assembly in Alzheimer’s disease*
Richard Montgomery High School (Maryland)
Preceptors: Dr. Albert Jin, Dr. Richard Hendler

112-PM. Darius Zamani
*Identifying Melanin and Blood with Photoacoustic Phantoms and Gold Nanoparticles*
University of South Florida (Florida)
Preceptor: Dr. Liming Nie

113-PM. Molly Zhang  
Plasmonic Gold Bellflowers for Near-Infrared Light Mediated Drug Delivery and Cancer Theranostics  
Richard Montgomery High School (Maryland)  
Preceptors: Dr. Xiaoyuan Chen, Dr. Peng Huang

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

114-PM. Luma Abunimer  
Expression of GPR91 in Head and Neck Paragangliomas  
University of Virginia (Virginia)  
Preceptors: Dr. Stephanie Fliedner, Dr. Karel Pacak

115-PM. Jade Brunicardi  
Analysis of mutations in the ARMC5 gene shows polyclonality of adenomas from a patient with macronodular adrenal hyperplasia  
Pine View School for the Gifted (Florida)  
Preceptors: Dr. Fabio Faucz, Dr. Constantine Stratakis

116-PM. Diana Burnett  
A Systematic Review of Maternal Coffee Intake & Fetal Growth  
University of Pennsylvania (Pennsylvania)  
Preceptors: Dr. Jagteshwar Grewal, Dr. Cuilin Zhang

117-PM. Chelsey Campillo Rodriguez  
How the nervous system encodes the sense of taste  
Walter Johnson High School (Maryland)  
Preceptors: Dr. Mark Stopfer, Dr. Samuel Reiter

118-PM. Victoria Chen  
Physical Activity Pattern Analysis of Teenage Girls By Functional Data Analysis Models  
University of Connecticut (Connecticut)  
Preceptors: Dr. Ruzong Fan, Dr. Paul Albert, Dr. Sungduk Kim, Dr. Bruce Simons-Morton

119-PM. Herman Chenwi  
The Role of the TORC1 Regulator Sea3 in Oogenesis  
Howard Community College (Maryland)  
Preceptors: Dr. Mary Lilly, Dr. Karene Fru, Dr. Weili Cai, Dr. Kuikwon Kim

120-PM. Georges-Ibrahim Cisse  
Impact of Tf1 integration on survival of Schizosaccharomyces pombe exposed to environmental stresses  
University of Notre Dame (Indiana)  
Preceptors: Dr. Henry L Levin, Dr. Caroline Esnault

121-PM. Angela Davis, Elizabeth Pogrebniak, Rachel Zemel  
Fatty Acid Uptake in Humans with T6K+V81I MC3R
Alabama Agricultural and Mechanical University (Alabama), College of William and Mary (Virginia), University of Maryland, College Park (Maryland)
Preceptors: Dr. Jack Yanovski, Dr. Tania Condarco, Dr. Andrew Demidowich, Ms. Robin Roberson

122-PM. William Duncan
A Measurement of the Properties of an Extracellular Polymeric Substance
Georgetown University (District of Columbia)
Preceptors: Dr. Ralph Nossal, Dr. Amir Gandjbakhche

123-PM. Nicolas Echeverria, Dora Orosz
Effects of Lou Gehrig's Disease mutations on VAP-B function
University of British Columbia (Non-U.S.), Walter Johnson High School (Maryland)
Preceptor: Dr. Tamas Balla

124-PM. Annie Gauf
Investigation of Cerebral Spinal Fluid Biomarkers of Smith-Lemil-Opitz Syndrome and Niemann-Pick Disease, Type C1
Washington and Lee University (Virginia)
Preceptors: Dr. Stephanie Cologna, Mr. Christopher Wassif, Dr. Forbes Porter

125-PM. Eli Gerber
Retrospective skill perception and risky driving among young drivers
University of Michigan -- Ann Arbor (Michigan)
Preceptors: Dr. Denise Haynie, Dr. Fearghal O'Brien, Dr. Johnathon Ehsani, Ms. Jessamyn Perlus

126-PM. Jamie Gleklen
The role of gdf6a in vascular integrity
Sidwell Friends School (District of Columbia)
Preceptors: Dr. Shlomo Krispin, Dr. Amber Stratman, Dr. Brant Weinstein

127-PM. Alexander Gonzalez,
The Role of H19 and Igf2 in Development
Gaithersburg High School (Maryland)
Preceptors: Dr. Karl Pifiefer, Dr. Claudia Gebert, Dr. Apratim Mitra

128-PM. Anna Gorczyca
Nutrient Intake Throughout the Menstrual Cycle: The BioCycle Study
Indiana University (Indiana)
Preceptor: Dr. Sunni Mumford

129-PM. Gregory Haber
Design and Analysis of Individually Randomized Group Treatment Trials with Random Group Switching: A Similarity Based Approach
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Aiyi Liu

130-PM. Isabelle Han
The Role of Thyroid Hormone Transporter LAT1 in Intestinal Mouse Stem Cell Development
University of Virginia (Virginia)
131-PM. Anisa Hasan-Granier
A fisheye view of centrosomal protein cep192 in regulation of lymphangiogenesis
Sidwell Friends School (District of Columbia)
Preceptor: Dr. Alex Yu

132-PM. Catherine Jameson
Thyroid Abnormalities in Patients with Peutz-Jeghers Syndrome
New York Institute of Technology College of Osteopathic Medicine (New York)
Preceptors: Dr. Maya Lodish, Dr. Constantine Stratakis

133-PM. Shannon Jin
The Design of a Database for the Genetic Properties of Yeast Strains
Thomas S. Wootton High School (Maryland)
Preceptors: Dr. Henry Levin, Mrs. Angela AtwoodMoore

134-PM. Kristen Johnson
Patterns of medication use across the menstrual cycle in healthy, reproductive aged women
University of Southern Mississippi (Mississippi)
Preceptors: Dr. Lindsey Sjaarda, Dr. Sunni Mumford, Dr. Enrique Schisterman

135-PM. David Kulp
Female PKA RIIalpha KO mice have a lean phenotype. Could altered estrogen receptor alpha expression in adipose tissue play a role?
Charles E. Smith Jewish Day School (Maryland)
Preceptor: Dr. Edra London

136-PM. Nankee Kumar
Building the Zebrafish Lateral Line Primordium - Lessons from Models and Experiments
Sidwell Friends School (District of Columbia)
Preceptors: Dr. Ajay Chitnis, Mr. Jeffrey Head, Dr. Uma Neelathi, Dr. Damian Dalle Nogare

137-PM. Christina Luthers
How Do Teenage Drivers’ Perceive Their Peer Passengers?
University of Maryland College Park (Maryland)
Preceptors: Dr. Johnathon Ehsani, Ms. Jessamyn Perlus, Dr. Fearghal O'Brien, Dr. Denise Haynie

138-PM. Jessica Mackness
Functional Consequences on NPC1 Mutations in the Cellular Phenotype
Virginia Commonwealth University (Virginia)
Preceptors: Mr. Christopher Wassif, Dr. Forbes Porter

139-PM. Geena Marzouca
Differentially expressed genes in paragangliomas with different genetic backgrounds
University of Miami (Florida)
Preceptors: Dr. Stephanie Fliedner, Dr. Karel Pacak
140-PM. Karthik Meiyappan
Analysis of the Dopaminergic Projections from the Ventral Tegmental Area to the Hippocampal Formation through Retrograde Tracing.
Interlake High School (Washington)
Preceptors: Dr. Irina Karavanov, Dr. Andres Buonanno, Dr. Miguel Skirzewski Prieto

141-PM. Christopher Mercier
Investigating the role of the cAMP-specific Phosphodiesterase 8b (Pde8b) in testis function
Orange County Community College (New York)
Preceptors: Dr. Eva Szarek, Dr. Constantine Stratakis

142-PM. Jonathon O’Brien
Measuring Disease to Air Pollution Associations in the Presence of Measurement Error
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Danping Liu, Dr. Aiyi Liu

143-PM. Ashley Pitt
Biochemical Investigation of Mitoferrin Binding Partners
Florida State University (Florida)
Preceptors: Dr. Anirban Banerjee, Dr. Eric Christenson

144-PM. Leana Ramos
Sleep and menstrual cycle function: a systematic review
Miami Dade College (Florida)
Preceptors: Dr. Karen Schliep, Dr. Sunni Mumford

145-PM. Jeida Robertson
Assessment of Insulin Sensitivity Across Puberty: Longitudinal Study
Jackson State University (Mississippi)
Preceptors: Dr. Jack Yanovski, Ms. Amanda Krause

146-PM. Rachel Robinson
The role of La in cell survival; Characterization of La deletion in mouse embryonic fibroblasts and excitatory neurons
Texas Lutheran University (Texas)
Preceptors: Dr. Richard Maraia, Dr. Nathan Blewett

147-PM. Preet Sohal
Exploring Cross-Talk Between Epidermal Growth Factor receptor and Prolactin Receptor in Breast Cancer Cells
St. Bonaventure University (New York)
Preceptors: Dr. Maria Dufau, Dr. Raghu Kavarthapu

148-PM. Justin Sun
Patients with sporadic acromegaly: analysis of FGFR4 and GNAS1 mutations, and transmission status of a mutation in a gene on the Xq26 chromosome
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptor: Dr. Giampaolo Trivellin
149-PM. Hanna Tso
*The Influence of Tld Activity on the Shape of the BMP Morphogen Gradient in Early Drosophila Embryos*
Purdue University (Indiana)
Preceptor: Dr. Mihaela Serpe

150-PM. Anna Venetianer
*qRT-PCR Quantification of AKAP13 Gene Knockout Using a Cardiac-Specific Cre- Driver in a Murine Model*
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. James Segars, Ms. Tiffany Chu, Ms. Kimberlyn BaigWard

151-PM. Renee Wah
*Anxiety Related Phenotypes in AKAP13 Mice: A Model for Obsessive- Compulsive Disorder*
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Ms. Tiffany Chu, Mrs. Maravet BaigWard, Dr. James Segars

152-PM. Andrew Wang, Ruhani Mumick
*Proteomic Image Labeling of Skeletal Muscle Mapping Out Pathogenic Protein Distributions in Muscular Dystrophy*
Harvard University & Emory University (Massachusetts), Union County Magnet High School (New Jersey)
Preceptors: Ms. Mariam Ghochani, Dr. Joshua Zimmerberg

153-PM. Julia Weatherly, Nicole Aaron, Zoe Stout
*Exploration of differences in the metabolic functioning of adolescents with and without a family history of type 2 diabetes*
Amherst College (Massachusetts), University of Virginia (Virginia), George Washington University (District of Columbia)
Preceptors: Dr. Jack Yanovski, Dr. Nichole Kelly, Ms. Katie Pickworth, Ms. Mariya Grygorenko

154-PM. Brenda Wu
*Generation of conditional mutants of the H3.3 histone chaperone Daxx by the CRISPR/Cas9 system*
Montgomery Blair High School (Maryland)
Preceptor: Dr. Todd Macfarlan, Mr. Gernot Wolf

155-PM. Amanda Wylie
*Maternal Obesity and the Achievement of Infant Motor Developmental Milestones Using the Upstate New York Infant Development Screening Program*
Johns Hopkins Bloomberg School of Public Health (Maryland)
Preceptor: Dr. Edwina Yeung

156-PM. LeAnne Young
*Mapping Functional Synapses with Split GFP-tagged Neurotransmitter Receptors*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Chi-Hon Lee, Dr. ChunYuan Ting
National Institute on Deafness and Other Communication Disorders (NIDCD)

157-PM. Annie Abraham
*Brain's coding of voice, facial, and gesture information during natural conversation*
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Allen Braun, Dr. Yisheng Xu

158-PM. Mario Belledonne
*Neural Correlates of Spontaneity for Language Generation*
Boston College (Massachusetts)
Preceptor: Dr. Siyuan Liu

159-PM. Aarti Hinduja
*Determining the Effectiveness of Gene Therapy at Different Ages of Treatment in Rs1 Knockout Mouse, a Model of X-Linked Retinoschisis*
Poolesville High School (Maryland)
Preceptors: Dr. Ronald Bush, Dr. Paul Sieving, Dr. Yong Zeng, Mr. Dario Marangoni

160-PM. Yanhan Huang
*Negative Regulation of Lmx1a by Lmo4 in Inner Ear Development*
West Virginia University School of Medicine (West Virginia)
Preceptor: Dr. Doris Wu

161-PM. Tyra Martinez
*Examining the Protective Mechanism of Heat Shock in the Inner Ear*
The Calhoun School (New York)
Preceptors: Dr. Lisa Cunningham, Ms. Lindsey May, Dr. Ronald Petralia, Dr. YaXian Wang

162-PM. Courtney Nelson
*The relationship between narrative engagement and personality*
Bucknell University (Pennsylvania)
Preceptors: Dr. Baris Demiral, Dr. Allen Braun, Ms. Mara Puertolas Lopez

163-PM. Rachel Schusteff
*Is stuttering a white matter disease of the brain? Correlation between white matter integrity and severity in persistent developmental stuttering*
Deerfield High School (Illinois)
Preceptors: Dr. Ho Ming Chow, Dr. Siyuan Liu, Dr. Nan BernsteinRatner, Dr. Allen Braun

164-PM. Stephanie Zhang
*Lesions in Non-Traditional Language Regions Predict Discourse Deficits in Post-Stroke Aphasics*
University of Maryland (Maryland)
Preceptors: Dr. Allen Braun, Ms. Mara Puertolas Lopez, Mr. Siyuan Liu

National Institute of Dental and Craniofacial Research (NIDCR)

165-PM. Jason Berglund
*Manipulating intracellular pressure in invading oral cancer cells*
Tufts University School of Dental Medicine (Massachusetts)
166-PM. Ted Cho
*Bone Marrow Stromal Cell Derived Hepcidin Shows Both Anti-Inflammatory and Anti-Microbial Properties*
Duke University (North Carolina)
Preceptors: Dr. Eva Mezey, Dr. Miklos Krepuska, Dr. Karoly Marko

167-PM. Casscius Colbert
*Prechronic Toxicity Study of Submandibular Delivery of the Serotype 5 Adeno-associated Viral Vector rAAV5-CTLA4:Ig in Balb/c Mice*
Pennsylvania State University (District of Columbia)
Preceptors: Dr. Hongen Yin, Dr. James Chiorini

168-PM. Josh Dodge,
*FGFR1/2 function in salivary gland development*
Northern Virginia Community College (Virginia)
Preceptors: Dr. Wendy Knosp, Dr. Matthew Hoffman

169-PM. Lauren Gordon
*Evaluating the Purity of Laser Capture Microdissections of Lymphocytes, Acinar and Ductal Cells from Human Minor Salivary Glands*
Howard University College of Dentistry (District of Columbia)
Preceptors: Mr. Mayank Tandon, Dr. Paola Perez Riveros, Dr. Ilias Alevizos

170-PM. Izma Hoque
*Lower SOCS1 Expression Observed in Salivary Glands of Sjögren's Syndrome Patients Compared to Healthy Volunteers.*
Broad Run High School (Virginia)
Preceptors: Dr. Ilias Alevisos, Dr. Paola PerezRiveros, Ms. Corinne Goldsmith

171-PM. Ruchi Mathur
*Aquaporin 5- Cre Expression Profile*
Winston Churchill High School (Maryland)
Preceptors: Dr. Ashok Kulkarni, Mr. Advait Limaye

172-PM. Sarat Mohammadu
*Pannexin 3 regulates the transcriptional activity of Runx2 by its multiple functions during osteoblast differentiation*
Howard University College of Dentistry (District of Columbia)
Preceptors: Dr. Masaki Ishikawa, Dr. Yoshi Yamada

173-PM. Anju Nellissery
*Store-Operated Calcium Entry Regulated by Cytoskeleton Remodeling*
University of Connecticut School of Dental Medicine (Connecticut)
Preceptors: Dr. Lorena Brito de Souza, Dr. Indu Ambudkar

174-PM. Ajay Shimoga, Chaoyang Wang
*Modulation of Inflammation by Bone Marrow Stromal Cells In Vitro: Studies on 2 and 3 Dimensional Co-Cultures*
University of California, Berkeley (California), Thomas S. Wootton High School (Maryland)
Preceptors: Dr. Karoly Marko, Dr. Eva Mezey, Dr. Miklos Krepuska

175-PM. Skye Smith
*The role of 3-O-sulfation on progenitor cell expansion*
Howard University College of Dentistry (District of Columbia)
Preceptors: Dr. Vaishali Patel, Dr. Matthew Hoffman

176-PM. Joshua Tarplin
*Carcinogen Induced ER Stress Leads to Autophagy in Keratinocytes*
The Potomac School (Virginia)
Preceptor: Dr. Panomwat Amornphimoltham

177-PM. Sarah Uehara
*Dental Public Health Program Infrastructure: State Level Changes Before and After the Recession of 2008*
University of Maryland School of Dentistry (Maryland)
Preceptor: Dr. Timothy Iafolla

178-PM. Felisa Velasco
*Anti-Angiogeneic Activity of Recombinant Fibulin-7 Proteins in a Rat Corneal Model*
Loyola University Maryland (Maryland)
Preceptors: Dr. Yoshi Yamada, Dr. Tomoko Ikeuchi

National Institute of Mental Health (NIMH)

179-PM. Benjamin Ackerman
*The Association between Genetic Variants and Verbal IQ among Families with Autism Spectrum Disorders*
Johns Hopkins University (Maryland)
Preceptor: Dr. Yin Yao

180-PM. Joel Adu-Brimpong
*Effects of Anxiety on Pattern Separation*
University of Michigan (Michigan)
Preceptors: Ms. Ambika Mathur, Dr. Nicholas Balderston, Dr. Christian Grillon, Dr. Monique Ernst

181-PM. Vanya Aggarwal
*Behavioral Triggers of Migraine*
Saint Bonaventure University (New York)
Preceptors: Dr. Kathleen Merikangas, Dr. Tarannum Lateef

182-PM. Katherine Baldwin
*Correspondence of seed-based resting state functional connectivity networks with task-based activation patterns*
University of Wisconsin-Madison (Wisconsin)
Preceptors: Dr. Prantik Kundu, Dr. Peter Bandettini, Dr. Dan Handwerker
183-PM. Marinelli Beatrice David
Studying the Holistic Effect in Face Processing on Non-Human Primates Using the Composite Face Task
Northern Virginia Community College (Virginia)
Preceptors: Dr. Leslie Ungerleider, Dr. Ning Liu

184-PM. Tommy Donoghue
Gene Expression Profiles of Multiple iPS Clones Derived from Single Parental Cells
University of Maryland (Maryland)
Preceptors: Dr. Francis McMahon, Dr. Sevilla Detera-Wadleigh

185-PM. Tushar Dwivedi
RNA Editing and Differential Gene Expression in Bipolar Disorder
Neuqua Valley High School (Illinois)
Preceptors: Dr. Francis McMahon, Dr. Liping Hou, Dr. Nirmala Akula

186-PM. Anna Goodwin
Assessing Hippocampal Convolution in Depression with 7 Tesla MRI
Hillsdale College (Michigan)
Preceptors: Dr. Adam Thomas, Dr. Allison Nugent, Dr. Carlos Zarate

187-PM. Mitra Haeri
Lymphocytes adoptively transferred into chronically stressed Rag2-/- mice confer rapid antidepressant effects
University of Maryland School of Medicine (Maryland)
Preceptors: Dr. Miles Herkenham, Dr. Rachel Scheinert, Dr. Michael Lehmann

188-PM. Christine Hildreth
Behavioral effects of chronic sleep restriction in mice
Princeton University (New Jersey)
Preceptors: Dr. Carolyn Beebe Smith, Dr. Michelle Reith

189-PM. Anthony Jang
The effects of prefrontal and subcortical lesions on object reversal learning: a Bayesian perspective
Brown University (Rhode Island)
Preceptors: Dr. Vincent Costa, Dr. Bruno Averbeck

190-PM. Andrew Seunghyun Lee
Reinforcement Learning in a Sequential Oculomotor task in Non-Human Primates
Stony Brook University (New York)
Preceptors: Dr. Eunjeong Lee, Dr. Bruno Averbeck, Ms. Laura Kakalios, Ms. Laura Kennerly

191-PM. Charles Li
Chronic Social Defeat induced c-fos expression in subpopulation cells of Amygdala
University of Maryland, College Park (Maryland)
Preceptors: Dr. Kaizheng Duan, Dr. Zheng Li

192-PM. Jonae Lloyd
Quality of Life: Outcome in Childhood Onset Schizophrenia
University of Pittsburgh (Pennsylvania)
193-PM. Joshua Lucksom  
*How are sleep disorders related to mood and anxiety?*  
Michigan State University (Michigan)  
Preceptor: Dr. Kathleen Merikangas

194-PM. Zev Medoff  
*Expectancy-Induced Placebo Analgesia: a pilot MEG Study*  
Dartmouth College (New Hampshire)  
Preceptors: Dr. Luana Colloca, Mr. Tom Liang, Ms. Kanesha Simmons, Dr. Christian Grillon

195-PM. Carolyn Murphy  
*Schizophrenia and the Role of Sleep in Illness and Recovery: An Updated Review*  
Wake Forest University (North Carolina)  
Preceptors: Dr. Ashura Buckley, Dr. Rebecca Hommer

196-PM. Deanna Myer  
*Identification of Key Residues in the Envelope Receptor Binding Domain of a Koala Retrovirus that Modulate Receptor Targeting*  
Boston University (Massachusetts)  
Preceptors: Dr. Maribeth Eiden, Dr. Wenqin Xu, Ms. Tiffany Blankenship

197-PM. Danielle Novick  
*Creating and characterizing schizophrenia subgroups using cognitive, clinical, and demographic variables*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Dwight Dickinson

198-PM. Kaitlin Payne, Grace DeWitt  
*The Effect of Optogenetics on Social Recognition*  
Duke University (North Carolina), University of Maryland, College Park (Maryland)  
Preceptors: Dr. W. Scott Young III, Dr. Sarah Williams Avram, Dr. Adam Smith

199-PM. Haroon Popal  
*Longitudinal Cortical Development in Autism Spectrum Disorder*  
Virginia Commonwealth University (Virginia)  
Preceptors: Dr. Gregory Wallace, Dr. Lauren Kenworthy, Dr. Alex Martin

200-PM. Cameron Riddell  
*Brain activity during conversational speaking and listening in people with autism*  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Alex Martin, Mr. Kyle Jasmin

201-PM. Naomi Sales  
*Expression Profiling of Nuclear-Encoded Mitochondrial mRNAs in the Axon*  
Moorpark College (California)  
Preceptors: Dr. Barry Kaplan, Dr. Amar Nath Kar, Dr. Erika Barr, Mr. Anthony Gioio
202-PM. Bethany Sauls  
**Characterization of Transgene Expression and Behavior in Newly Established Transgenic Mouse Lines**  
The University of Texas at Dallas (Texas)  
Preceptors: Dr. Amar Kar, Dr. Barry Kaplan, Mr. Anthony Goio, Mrs. ChingYu Sun

203-PM. Rhea Sharma  
**Interacting COMT- and ANKK1 genetic variations in healthy volunteers and schizophrenia subjects**  
Thomas Jefferson High School for Science and Technology (Virginia)  
Preceptors: Dr. José Apud, Dr. Dwight Dickinson, Dr. Bhaskar Kolachana

204-PM. Sandya Subramanian  
**Using Nonlinear Dynamical Measures to Compare MEG Recordings of Epilepsy with Normal Controls**  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Stephen Robinson, Dr. Sara Inati, Dr. Richard Coppola

205-PM. Albert Tang, Austin Feng  
**The Basic Visual Response Characteristics of the Pulvinar Nucleus.**  
University of Maryland, College Park (Maryland), University of Maryland, College Park (Maryland)  
Preceptor: Dr. Chunshan Deng

206-PM. Joseph Tran  
**Search for Potential Ligand Insertion Sites in a Novel Retroviral Envelope to Use in Retargeting Gene Delivery**  
University of Maryland - College Park (Maryland)  
Preceptors: Dr. Maribeth Eiden, Dr. Wenqin Xu, Mr. Kyle Delaney

207-PM. Monica Wei  
**Valproic acid and other HDAC inhibitors up-regulate fibroblast growth factor 21 gene expression in astroglia**  
Princeton University (New Jersey)  
Preceptors: Dr. De-Maw Chuang, Mrs. Yan Leng

208-PM. Grace Zhang  
**Feature Analysis of Natural Movies: Natural Visual Processing in the Ventral Visual Stream of the Macaque**  
Poolesville High School (Maryland)  
Preceptors: Dr. Brain Russ, Mr. Julian DayCooney

**National Institute of Neurological Disorders and Stroke (NINDS)**

209-PM. Bryce Adams  
**Dialing in Receptor Selectivity Via Analogs of a Newly Discovered D2 Dopamine Receptor Antagonist**  
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NATCHER CONFERENCE CENTER

Posters are located in the Outer Lobby, Atrium, Lower Level Lobby, Conference Room E1/E2, and Conference Rooms F and G as indicated above.

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