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

The keynote address and Distinguished Mentor Award ceremony will be held in the Ruth L. Kirschstein Auditorium.

Postbaccalaureate Poster Day 2016 is organized by the Office of Intramural Training & Education, National Institutes of Health.
# NIH Postbaccalaureate Poster Day 2016

## Morning Session

10:00 AM - 12:00 PM

**KEYNOTE: Thoughts on Being Happy in Work and Life**

*Sharon Milgram, PhD, Director, OITE*

12:00 PM - 1:00 PM

**Postbac Distinguished Mentor Award**

1:00 PM - 1:30 PM

**Afternoon Session**

1:30 PM - 3:30 PM

## Institute or Center

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<td>National Institute of Biomedical Imaging and Bioengineering (NIBIB)</td>
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**Note:** The complete program for Postbac Poster Day 2016, including poster titles, can be found at [https://www.training.nih.gov/assets/2016_Postbac_Poster_Day_Program.pdf](https://www.training.nih.gov/assets/2016_Postbac_Poster_Day_Program.pdf).
Clinical Center (CC)

1-AM. Charisse Ahmed
The Effect of Primary Care Collaborations on Adherence to Community-based Treatment for Chronic Hepatitis C (ASCEND Trial)
University of Florida (Florida)
Preceptor: Dr. Sarah Kattakuzhy

2-AM. Eri Anastas
Mutational and Immunophenotypic Characteristics of Ras-Associated Autoimmune Leukoproliferative Disorder (RALD)
College of William and Mary (Virginia)
Preceptors: Dr. Katherine Calvo, Dr. Zhen Zhao

3-AM. Meryll Castro
Do geometric features of hepatocellular carcinomas correlate with survival following radiofrequency ablation (RFA) with and without lyso-thermosensitive liposomal doxorubicin (LTLD/Thermodox)?
George Washington University (District of Columbia)
Preceptor: Dr. Brad Wood

4-AM. Wenjing Chen
Investigating Patient Serum Factors Responsible for Inhibiting the Transduction of Dendritic Cells with an Adenoviral Vector Expressing HER2/neu
Dartmouth College (New Hampshire)
Preceptors: Dr. David Stroncek, Dr. Ping Jin

5-AM. Dabin Choi
Battery-Powered Electrified Conductive Vascular Access Device Minimizes Fibrin Sheath Adhesion
Emory University (Georgia)
Preceptor: Dr. Bradford Wood

6-AM. Kirsten Craddock
Clinical Sub-typing of Childhood Onset Schizophrenia
Georgetown University (District of Columbia)
Preceptor: Dr. Judy Rapoport

7-AM. Paba De Alwis
Novel Method Measuring Vessel Caliber Reveals Arterial Remodeling in HIV-HAND
Cornell University (New York)
Preceptors: Dr. Govind Bhagavatheeshwaran, Dr. Avi Nath

8-AM. Meredith Elman
Adrenal Imaging Findings in Adult Patients with Congenital Adrenal Hyperplasia
New York University (New York)
Preceptors: Dr. Deborah Merke, Dr. Ashwini Mallappa

9-AM. Jonathan Ho
Laser Capture Microdissection for Infectious Disease Diagnostics
University of California, Davis (California)
Preceptor: Dr. John Dekker

10-AM. Grace Kim, Molly Malarkey
Vocational Outcomes in Traumatic Brain Injury: One Year Post-Injury
Georgetown University (District of Columbia)  
Preceptor: Dr. Leighton Chan

11-AM. William Kovacs  
*Identification of Muscle and Subcutaneous and Intermuscular Adipose Tissue on Thigh MRI of Muscular Dystrophy*  
Washington University in St. Louis (Missouri)  
Preceptors: Dr. Jianhua Yao, Dr. Ronald Summers

12-AM. Jacob Leary  
*Natural history of headache following TBI and associations with neuropsychological function*  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Leighton Chan

13-AM. Christian Mayfield  
*Multi-joint Coordination Analysis of Reach-to-grasp Kinematics in Children with Obstetrical Brachial Plexus Palsy*  
Morehouse College (Georgia)  
Preceptors: Mr. Christopher Stanley, Dr. Diane Damiano

14-AM. Justin Morris  
*Whole Heart- and Lesion-Based Coronary CT Plaque Assessment: Correlation with Clinical Risk Scores*  
State University of New York at Geneseo (New York)  
Preceptors: Dr. Veit Sandfort, Dr. David Bluemke

15-AM. Isabella Nogues  
*Automatic Lymph Node Cluster Segmentation Using Holistically-Nested Networks and Structured Optimization in CT images*  
Princeton University (New Jersey)  
Preceptors: Dr. Ronald Summers, Dr. Le Lu

16-AM. Srikanth Palanisamy  
*Longitudinal Changes of Left Ventricular Structure and Function in Systolic and Diastolic Heart Failure*  
Cornell University (New York)  
Preceptor: Dr. Chia-Ying Liu

17-AM. Ashley Perritt  
*Continuous Subcutaneous Hydrocortisone Infusion Treatment for Patients with Adrenal Insufficiency due to Congenital Adrenal Hyperplasia: One Year Follow-Up*  
Hamilton College (New York)  
Preceptors: Dr. Deborah Merke, Dr. Ashwini Mallappa

18-AM. Ian Powell-Castilla  
*Genetic Variation between Cultured Human Cancer Cell Clones Revealed by Next Generation Sequencing*  
Florida State University (Florida)  
Preceptors: Dr. Igor Panyutin, Dr. Ronald Neumann

19-AM. Farhan Qureshi  
*Histological Analysis of the effects of Pulsed Focused Ultrasound in the Brain*  
University of Virginia (Virginia)
Preceptors: Dr. Zsofia Kovacs, Dr. Joseph Frank

20-AM. Alexandra Ranucci, Miriam Magaña López
A Qualitative Exploration of Alcohol Dependence and the Changing Faces of Social Support during Treatment and Recovery
Haverford College (Pennsylvania), Macalester College (Minnesota)
Preceptors: Dr. Gwenyth Wallen, Dr. Alyssa Brooks

21-AM. Krystle Robinson
A Case Report: Physical Therapy Management Considerations for a Patient with Diffuse Large B-cell Lymphoma following CD-19 CAR T-cell Infusion
Hampton University (Virginia)
Preceptors: Dr. Adrienne Jackson, Dr. Minal Jain

22-AM. Noah Robinson
The Uncertainty of Giving Care: An extended Functional Adaptation Model for Caregivers of People with Undiagnosed and Rare (Erdheim-Chester) Diseases
University of Maryland, College Park (Maryland)
Preceptor: Dr. Susan Robertson

23-AM. Jessica Row
Dual-Task Walking is More Sensitive than the Sensory Organization Test in Predicting Balance Symptoms after Mild or Moderate Traumatic Brain Injury
University of Virginia (Virginia)
Preceptors: Dr. Cris Zampieri, Dr. Diane Damiano

24-AM. Nikeith Shah
CT Volumetric Analysis of Tumor Progression in von Hippel-Lindau Disease Patients
George Washington University (District of Columbia)
Preceptor: Dr. Ashkan Malayeri

25-AM. Aricia Shen
Adolescents vs Adults: Age of Onset Significantly Affects Kinematics for Patellofemoral Pain Syndrome
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Frances Gavelli, Dr. Jennifer Jackson

26-AM. Karthik Sreedhara
Novel Mutation of JAK2 in Patient with CVID
University of California, San Diego (California)
Preceptors: Dr. Hyesun Kuehn, Dr. Sergio Rosenzweig

27-AM. Yohannes Tsehay
Automatic Cancer Detection on Multiparametric MRI
Wheaton College (Massachusetts)
Preceptor: Dr. Nathan Lay

28-AM. Ruhi Vasavada, Margaret Flanigan
Description of Motor Measures in Female Carriers of Myotubular Myopathy
Johns Hopkins University (Maryland), George Washington University (District of Columbia)
Preceptor: Dr. Minal Jain

29-AM. David Wang
Colitis Detection on Computed Tomography Using Regional Convolutional Neural Networks
Washington University in Saint Louis (Missouri)
Preceptors: Dr. Jiamin Liu, Dr. Ronald Summers

30-AM. Yinong Wang
Osteoporotic and Neoplastic Compression Fracture Classification on Longitudinal CT
Washington University in St. Louis (Missouri)
Preceptors: Dr. Ronald Summers, Dr. Jianhua Yao

31-AM. Wanying Xu
Temperature Level Affects Biochemical and Hemolytic Properties of Canine Red Blood Cells over 6 Weeks of Storage
Wake Forest University (North Carolina)
Preceptors: Dr. Irene Cortes-Puch, Dr. Steve Solomon

National Center for Advancing Translational Sciences (NCATS)

32-AM. Dorian Cheff
Surface Plasmon Resonance Characterization of Aldehyde Dehydrogenase 1 A1-Inhibitor Interactions for Pre-Clinical Development
University of Michigan (Michigan)
Preceptors: Dr. Bolormaa Baljinnyam, Dr. Matthew Hall

33-AM. James Frick
Chemical OCR: Neural networks for recognizing chemical structures from images
Johns Hopkins University (Maryland)
Preceptor: Dr. Noel Southall

34-AM. Emma Hughes
Utilizing Pharmacokinetics to Guide Animal Efficacy Studies for Pancreatic Cancer
Mount Holyoke College (Massachusetts)
Preceptors: Dr. Amy Wang, Dr. Xin Xu

35-AM. Tobie Lee
Cellular Thermal Shift Assay (CETSA): A simple cell-based method to assess drug target engagement
Washington University in St. Louis (Missouri)
Preceptors: Dr. Daniel Urban, Dr. Matthew Hall

36-AM. Kyeong Ri Yu
Optimization of High-Throughput Parallel Artificial Membrane Permeability Assay (PAMPA): Effect of Apparent Lipid Filter Porosity on Intestinal Drug Permeability
Boston College (Massachusetts)
Preceptors: Dr. Pranav Shah, Dr. Xin Xu

National Center for Complementary and Integrative Health (NCCIH)

37-AM. Lauren Banker
Autonomic and behavioral responses to acute noxious stimulation
New York University (New York)
Preceptor: Dr. Lauren Atlas

38-AM. Troy Dildine
Metacognition and the Perceptual Judgment of Pain
39-AM. Eileen Nguyen  
*Investigating the Role of Neuronal Stress Signaling in the Development of Chronic Pain Following Nerve Injury*  
University of California, Los Angeles (California)  
Preceptors: Dr. Claire Le Pichon, Dr. Alexander Chesler

40-AM. Esther Palacios-Barrios  
*Does Anxiety Affect Responses to Painful Stimuli in Learning Task*  
Stanford University (California)  
Preceptor: Dr. Lauren Atlas

41-AM. Emily Richards  
*Touch Perception Altered by Chronic Pain and by Opioid Blockade*  
College of the Holy Cross (Massachusetts)  
Preceptors: Dr. Laura Case, Dr. M Bushnell

National Cancer Institute – Center for Cancer Research (NCI-CCR)

42-AM. Selamawit Addissie  
*HLA II-DP Has an Important Role in Helper T-Cell Responses to a Bacterial Toxin*  
Tufts University (Massachusetts)  
Preceptors: Dr. Ira Pastan, Dr. Ronit Mazor

43-AM. Ashley Aisabor  
*Lenalidomide and Pomalidomide Increase MHC Class I Expression in KSHV, HTLV-1, and EBV Infected Cell Lines*  
Georgia State University (Georgia)  
Preceptor: Dr. David Davis

44-AM. Fatima Alam  
*Role of p53 Isoforms in Premature Aging Syndrome*  
George Washington University (District of Columbia)  
Preceptors: Dr. Curtis Harris, Dr. Natalia von Muhlinen

45-AM. Jake Boeckelman  
*IsomiRs in Lung Cancer*  
University of the District of Columbia (District of Columbia)  
Preceptor: Dr. Brid Ryan

46-AM. Michael Breen  
*Analysis of Treg Function in Novel Costimulatory B7 Conditional Knockouts*  
University of Rochester (New York)  
Preceptors: Dr. Masashi Watanabe, Dr. Richard Hodes

47-AM. Katherine Cascino  
*Investigation of the accessory region of bacteriophage lambda’s pL operon*  
Colgate University (New York)
Preceptors: Dr. Lynn Thomason, Dr. Donald Court

48-AM. Monica Cho  
*Immunologic Correlates of Th1/Tc1 Immunotherapy in Multiple Myeloma*  
University of Pennsylvania (Pennsylvania)  
Preceptor: Dr. Fran Hakim

49-AM. Katharine Clark  
*Analyzing Beta-mannosylceramide antigen recognition by type I Natural Killer T cells*  
Duke University (North Carolina)  
Preceptors: Dr. Masaki Terabe, Dr. Jay Berzofsky

50-AM. Dominique Cossari  
*Using transfected cell line models to study transporter cooperativity at the blood brain barrier*  
Temple University (Pennsylvania)  
Preceptors: Dr. Robert Robey, Dr. Michael Gottesman

51-AM. Jose Francisco Delgado  
*Decorporation Agents Designed to Improve Biological Residence Time and Enhance Whole Body Clearance of Radiometals*  
Universidad de las Americas Puebla (Non-U.S.)  
Preceptors: Dr. Martin Brechbiel, Dr. Young Seung Kim

52-AM. Christopher Diehl  
*Vitamin D and CYP24A1 in Non-Small Cell Lung Cancer (NSCLC)*  
Commonwealth Medical College (Pennsylvania)  
Preceptors: Dr. Majda Haznadar, Dr. Curtis Harris

53-AM. Angela DiNardo  
*RNA polymerase I can drive expression of miRNA: a novel approach for generating small RNAs*  
Towson University (Maryland)  
Preceptor: Dr. Shuo Gu

54-AM. Erin Doody  
*Functional differences between two E. coli J-domain proteins: DnaJ and CbpA*  
Catholic University of America (District of Columbia)  
Preceptor: Dr. Sue Wickner

55-AM. Edward Duqum  
*Assessing the role of Wnt-beta-catenin inhibitors in hepatocellular carcinoma*  
University of Missouri (Missouri)  
Preceptors: Dr. Anuradha Budhu, Dr. Valerie Miller

56-AM. Tara Filsuf  
*A New Checkpoint Mechanism for Controlling Replication Timing in Vibrio cholerae*  
University of California, Berkeley (California)  
Preceptors: Dr. Dhruba Chatteraj, Dr. Revathy Ramachandran

57-AM. Cameron Fisher  
*Purification of exosomes from serum/plasma of vaccinated Rhesus Macaques: potential as vaccine biomarker?*  
Tufts University (Massachusetts)
Preceptors: Dr. Marjorie Guroff, Dr. Thorsten Demberg

58-AM. Kathryn Fulda
*Flow Cytometric Evaluation of the Granulocyte and Monocyte Activation Markers CD64 and CD163 Post CAR T-Cell Therapy*
Washington College (Maryland)
Preceptor: Dr. Maryalice Stetler-Stevenson

59-AM. Yantenew Gete
*Rescue of embryonic lethality in Ppm1d phosphatase null mice by p53 loss of function: Implication for the role of Ppm1d phosphatase in embryonic development*
Metropolitan State University of Denver (Colorado)
Preceptors: Dr. Sharlyn Mazur, Dr. Ettore Appella

60-AM. Sayeh Gorjifard
*Microbiota Modulation of Myeloid Cells during T. gondii Infection*
Dartmouth College (New Hampshire)
Preceptor: Dr. Romina Goldszmid

61-AM. Zane Gray
*Targeting iNOS pathway for therapeutic use against lung squamous cell carcinomas*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Yinling Hu

62-AM. Samantha Hall
*Gene expression changes following repeat oral administration of Tetrabromobisphenol A (TBBPA) in female Wistar Han rats*
Duke University (North Carolina)
Preceptor: Dr. Linda Birnbaum

63-AM. Jailynn Harke
*Resurrecting GTPase activity of a modern ATPase*
University of Oregon (Oregon)
Preceptors: Dr. Kumaran Ramamurthi, Dr. I-Lin Wu

64-AM. Oliver Hendy
*Role of Core Promoter Elements in Regulation and Dynamics of MHC Class I Transcription*
College of New Jersey (New Jersey)
Preceptors: Dr. Dinah Singer, Dr. Daniel Larson

65-AM. Julia Hisey
*Establishing a Human Myoblast System with Inducible MYCN to Study the Role of MYCN in Rhabdomyosarcoma*
Tufts University (Massachusetts)
Preceptor: Dr. Frederic Barr

66-AM. Sunmee Huh
*Making a Mouse Model for Susceptibility to Human Papillomavirus (HPV)*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Connie Sommers, Dr. Lawrence Samelson

67-AM. Jennifer Hwang
*Targeting GPC2 (Glypican-2) for antibody-based cancer therapeutics development*
University of California, Berkeley (California)
Preceptor: Dr. Zhongyu Zhu

68-AM. Kacey Idouchi  
*Heterogeneity of myeloid cell subsets in the skin*  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Keisuke Nagao

69-AM. Youjin Jang  
*Identification and elimination of T-cell epitopes in immunotoxin that targets CD25+ T cells*  
University of Florida (Florida)  
Preceptors: Dr. Ronit Mazor, Dr. Ira Pastan

70-AM. Jordan Jensen  
*LCK Proximal Promoter Characterization in Lymphocytes*  
Brigham Young University (Utah)  
Preceptors: Dr. Jeffrey Chiang, Dr. Richard Hodes

71-AM. Symone Jordan  
*Regular Aspirin Use Among African American Men Reduces Prostate Cancer Risk*  
Bowie State University (Maryland)  
Preceptor: Dr. Stefan Ambs

72-AM. Justin Kaplan  
*Progress in Developing Highly Potent and Broadly Active Second-Generation HIV-1 Maturation Inhibitors*  
University of Virginia (Virginia)  
Preceptors: Dr. Eric Freed, Dr. Emiko Urano

73-AM. Elizabeth Kennedy  
*Infant Skin Microbiome Community Differences Associated with Atopic Dermatitis*  
Cornell University (New York)  
Preceptor: Dr. Heidi Kong

74-AM. Jae Ho Kim  
*Gene-engineered human T cells targeting intrinsic checkpoint inhibitor CISH enhances anti-tumor immune response*  
James Madison University (Virginia)  
Preceptor: Dr. Douglas Palmer

75-AM. Rina Kim  
*Optimizing Genital Immunization Using HPV Vectors*  
University of California, Los Angeles (California)  
Preceptor: Dr. Nicolas Cuburu

76-AM. Shweta Kulkarni  
*Role of MCP-1 in the Recruitment of Myeloid-derived Suppressor Cells during Simian Immunodeficiency Virus Infection and Vaccination*  
University of Miami (Florida)  
Preceptors: Dr. Yongjun Sui, Dr. Jay Berzofsky

77-AM. Nishani Kuruppu  
*Resistance Pathways for Potent and Broadly Active HIV-1 Maturation Inhibitors*  
University of Maryland, College Park (Maryland)
78-AM. Rebekah Landsman
The immunotoxin RG7787 affects the levels of proteins secreted by pancreatic cancer
University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Dr. Christine Alewine

79-AM. Fred Lee
Engineering Next Generation Anti-CD25 Immunotoxins with Improved Cytotoxic Activity and Low Immunogenicity
Arizona State University (Arizona)
Preceptors: Dr. Gilad Kaplan, Dr. Ira Pastan

80-AM. Ariel Ley
De novo expression of OATP1B3 in prostate tumor cells: implications for prostate cancer treatment
Davidson College (North Carolina)
Preceptors: Dr. William Figg, Dr. Tristan Sissung

81-AM. Natella Maglakelidze
In vivo Imaging and Target Organ Distribution of Lymphocyte Subsets in a Pre-clinical Model of Graft-versus-Host Disease
College of New Jersey (New Jersey)
Preceptor: Dr. Nataliya Buxbaum

82-AM. Anna Marks
Protein colocalization effects replication initiation in human cells
Scripps College (California)
Preceptor: Dr. Mirit Aladjem

83-AM. Edel McCrea
Overcoming Severe Hepatotoxicity with Pharmacogenomics: Precision Therapy with Mithramycin
University of California, Davis (California)
Preceptors: Dr. William Figg, Dr. Tristan Sissung

84-AM. Diana Mendoza-Cervantes
Therapeutic vaccine approaches for immunoprevention of cervical cancer
Johns Hopkins School of Public Health (Maryland)
Preceptor: Dr. Vikrant Sahasrabuddhe

85-AM. Francesca Mertan
Prospective Evaluation of the Prostate Imaging Reporting and Data System version 2 (PI-RADSv2) for Prostate Cancer Detection
Grove City College (Pennsylvania)
Preceptors: Dr. Baris Turkbey, Dr. Peter Choyke

86-AM. Michelle Moon
Targeting Structured RNAs with Druglike Small Molecules
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. John Schneekloth

87-AM. Camille Morgan
The Kenya cancer research and control stakeholder program: Evaluating impact of joining forces to overcome cancer
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Ms. Kalina Duncan

88-AM. Arena del Mar Morillo
*Occurrence of multiple (2+) subsequent malignancies following childhood cancer*
Lewis & Clark College (Oregon)
Preceptor: Mrs. Ruth Kleinerman

89-AM. Yen Nguyen  
*Characterization of PTEN's sub-cellular functions and their independent contributions in clinically significant prostate cancer.*  
University of California, Berkeley (California)  
Preceptor: Dr. David VanderWeele

90-AM. Tiffany Nguyen  
*Imaging membrane and vesicular dynamics in T-cell activation*  
University of California, Los Angeles (California)  
Preceptors: Dr. Lakshmi Balagopalan-Bhise, Dr. Lawrence Samelson

91-AM. Cody Ocheltree  
*Bidirectional communication between the spliceosome and chromatin*  
University of California, San Diego (California)  
Preceptors: Dr. Shalini Oberdoerffer, Dr. Kyster Nanan

92-AM. Marin Olson  
*A role for centromeric transcripts in the integrity of human centromeres*  
Lewis & Clark College (Oregon)  
Preceptors: Dr. Yamini Dalal, Dr. Delphine Quénet

93-AM. Elliott Paine  
*Mechanism of SAMT Analog Inactivation of HIV-1 Gag Polyprotein*  
University of San Diego (California)  
Preceptor: Dr. Lisa Jenkins

94-AM. Maryknoll Palisoc  
*Immunohistochemistry and Tissue Mesodissection as Tools to Address Tumor Heterogeneity*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Stefania Pittaluga

95-AM. Sam Park  
*Exploring Molecular and Morphological Relationships between Obesity and CtBP in Breast Cancer*  
Cornell University (New York)  
Preceptor: Dr. Kevin Gardner

96-AM. Jeannie Park  
*Nuclear lipid microdomain formation in chemotaxing neutrophils contributes to exosome biogenesis during the relay of chemotactic signals*  
Cornell University (New York)  
Preceptors: Dr. Ritankar Majumdar, Dr. Carole Parent

97-AM. Sterling Payne  
*Targeting a Bacterial Protein-DNA Interaction with Stapled Peptides*  
Ithaca College (New York)
98-AM. Jessica Perry  
*Reduction in liver cancer cell proliferation using anti-glypican-3 immunotoxin*  
Howard University (District of Columbia)  
Preceptors: Dr. Mitchell Ho, Dr. Bryan Fleming

99-AM. Filip Pirsl  
*Chronic Graft-versus-Host Disease and New Malignancies in Patients after Allogeneic Hematopoietic Stem Cell Transplantation*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Steven Pavletic, Dr. Lauren Curtis

100-AM. Jennifer Pugh  
*Influence of Paternal Alleles on Outcome in Trichothiodystrophy*  
Spelman College (Georgia)  
Preceptor: Dr. Kenneth Kraemer

101-AM. Graham Read  
*Alginate hydrogels for 3D modeling of cancer cell metabolism and radiobiology*  
Princeton University (New Jersey)  
Preceptors: Dr. Arpana Kesarwala, Dr. Natsuko Miura

102-AM. Luis Rivera Hiraldo  
*Requirement for CD40 but not MHC recognition for T cell-dependent thymic B-cell maintenance*  
University of Puerto Rico - Mayagüez (Puerto Rico)  
Preceptors: Dr. Richard Hodes, Dr. Joy Williams

103-AM. Louis Rodgers  
*Plasma and cerebrospinal fluid (CSF) pharmacokinetics of panobinostat following oral administration to nonhuman primates*  
Centre College (Kentucky)  
Preceptors: Dr. Katherine Warren, Dr. William Figg

104-AM. Serene Roque  
*Centromeric chromatin modifications influence epigenetic inheritance*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Yamini Dalal, Dr. Minh Bui

105-AM. Lauren Rost  
*MicroRNA eQTL Analysis of TCGA Pancreatic Cancer Tumor Samples*  
St. Mary’s College of Maryland (Maryland)  
Preceptors: Dr. Mingfeng Zhang, Dr. Laufey Amundadottir

106-AM. Christopher Rota  
*Regional Delivery of Anti-HER2 Chimeric Antigen Receptor T Cells Promotes Superior, Durable Regression of Medulloblastoma Xenografts Compared to Intravenous Delivery*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Daniel Lee

107-AM. Michael Rudloff  
*Examining the Effects of the Mesothelin-Targeting Immunotoxin, RG7787, on Pancreatic Cancer Cells.*  
James Madison University (Virginia)
Preceptor: Dr. Christine Alewine

108-AM. Amandeep Saini  
_Precise Design of Diacylglycerol-lactones as Selective Activators of RasGRP_  
Boston University (Massachusetts)  
Preceptors: Dr. Peter Blumberg, Dr. Agnes Czikora

109-AM. Sohee Shim  
_Circulating Tumor Cells Pre- and Post- Therapeutic AdHER2 Dendritic Cell Vaccination in Patients with Metastatic HER2+ Solid Tumors_  
George Washington University School of Public Health (District of Columbia)  
Preceptors: Dr. Jane Trepel, Dr. Lauren Wood

110-AM. Tulika Singh  
_International Cancer Control Leadership Forum Program_  
University of Wisconsin - Madison (Wisconsin)  
Preceptors: Dr. Brenda Kostelecky, Dr. Lisa Stevens

111-AM. Mae Staples  
_Causes and consequences of CENP-A overexpression in human cancers_  
Colgate University (New York)  
Preceptors: Dr. Roshan Shrestha, Dr. Munira Basrai

112-AM. Stephanie Stookey  
_Effects of Taxol and CD22 Targeting Immunotoxin LRGGS in Combination against Mantle Cell Lymphoma_  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Fabian Mueller

113-AM. Jonathan Strope  
_Does smoking affect severity of metastatic Prostate Cancer._  
University of Missouri (Missouri)  
Preceptors: Dr. Douglas Price, Dr. William Figg

114-AM. Michael Stueland  
_Mechanisms of APC-dependent mRNA localization in mammalian cells_  
Virginia Commonwealth University (Virginia)  
Preceptor: Dr. Voula Mili

115-AM. Daniel Thoresen  
_The Role of Gli2 Transcriptional Repression in Skin_  
Lawrence University (Wisconsin)  
Preceptor: Dr. Isaac Brownell

116-AM. Irianna Torres  
_Single-cell genetic analysis of ductal carcinoma in situ with and without synchronous invasive breast cancer by multiplex FISH delineates specific patterns of tumor clonality and heterogeneity._  
University at Buffalo (New York)  
Preceptors: Dr. Kerstin Heselmeyer-Haddad, Dr. Thomas Ried

117-AM. Crystal Tran  
_3D Organoid Modeling of Metastatic Prostate Cancer_  
University of Richmond (Virginia)
118-AM. Christine Tran Hoang  
Targeting PDGFR-alpha: Treating Osteosarcoma in Patients and their Canine Companions  
University of California, Davis (California)  
Preceptors: Dr. Amy LeBlanc, Dr. Ling Ren

119-AM. Akriti Trehan  
The Lung microbiome as a cancer biomarker: Comparing two sequencing methodologies  
Georgetown University (District of Columbia)  
Preceptor: Dr. Ashley Vargas

120-AM. Andrew Uhlman  
The Acceleration of Immunosenescence following Allogeneic Stem Cell Transplantation  
Denison University (Ohio)  
Preceptors: Dr. Ronald Gress, Dr. Frances Hakim

121-AM. Michael Valdez  
LIF maintains stemness of kidney progenitors in culture through YAP activation.  
Rutgers University (New Jersey)  
Preceptor: Dr. Alan Perantoni

122-AM. Lucas Wachsmuth  
Investigating the Biology of Post-transplantation Cyclophosphamide-Mediated GVHD Prophylaxis Using a MHC-Haploidentical Murine Bone Marrow Transplant Model  
University of Georgia (Georgia)  
Preceptor: Dr. Christopher Kanakry

123-AM. Nicholas J. Watson  
NRF1 may modulate resistance to the proteasome inhibitor, oprozomib in multiple myeloma  
American University (District of Columbia)  
Preceptor: Dr. Beverly Mock

124-AM. Anna Weaver  
Characterization of a Lethal Mutation in E. coli GTPase Era  
St. Mary’s College of Maryland (Maryland)  
Preceptor: Dr. Donald Court

125-AM. Katherine Wilsdon  
Analysis of Radiation Damage Response after Single and Fractionated Radiation  
University of Missouri (Missouri)  
Preceptor: Dr. Norman Coleman

126-AM. Kendrick Yim  
Gambogic Acid is a Novel Anticancer Agent that Preferentially Binds Hsp90 beta  
University of California, Santa Barbara (California)  
Preceptor: Dr. Leonard Neckers

127-AM. Shu Zhang  
A "Simple" Retrovirus Makes an Extra Protein: Functional Studies  
Wesleyan University (Connecticut)  
Preceptors: Dr. Alan Rein, Dr. Yadvinder Ahi
128-AM. Xinyi Zhu
*Dissecting the effects of Brd4 Short Isoform on breast cancer progression*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Kent Hunter

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

129-AM. Amanda Corbel
*Detection of LBP and sCD14 in Plasma and Bile from Gallbladder Cancer and Gallstone Patients*
Shepherd University (West Virginia)
Preceptors: Dr. Troy Kemp, Dr. Jill Koshiol, Dr. Ligia A. Pinto

130-AM. Michael Kovacs
*Identification of GOLPH3L as a potential melanoma predisposition gene*
Teachers College, Columbia University (New York)
Preceptors: Dr. Kevin Brown, Dr. Jiyeon Choi

131-AM. Yinglun Wu
*Functional Characterization of a pancreatic cancer risk locus on chromosome 13q22.1*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Jason Hoskins, Dr. Laufey Amundadottir

**National Eye Institute (NEI)**

132-AM. Omoluyi Adesanya
*Transcriptome Analysis of rd1 and rd16 Mouse Retina*
University of Chicago (Illinois)
Preceptor: Dr. Jung-Woong Kim

133-AM. Justin Chang
*Discovering genes and pathways involved in maintenance of epithelial phenotype in retinal pigment epithelium cells*
Johns Hopkins University (Maryland)
Preceptors: Dr. Kapil Bharti, Dr. Shekhar Jha

134-AM. Tyler DiStefano
*Effects of Microgravity Bioreactors on 3D Retinal Organoid Development*
Cooper Union for the Advancement of Science and Art (New York)
Preceptors: Dr. Holly Chen, Dr. Tiziana Cogliati, Dr. Anand Swaroop

135-AM. Elizabeth Fairless
*Distinct Expression of Heat Shock Proteins in Mouse Models of Retinal Degeneration*
Dartmouth College (New Hampshire)
Preceptors: Dr. Tiziana Cogliati, Dr. Anand Swaroop

136-AM. Whitney Griggs
*Exploring the Origins of Learned Salience: Valuable, Risky, Novel, and Aversive*
Whitman College (Washington)
Preceptors: Dr. Ali Ghazizadeh, Dr. Okihide Hikosaka
137-AM. Jun Jeon
Tissue Engineered Human Outer Blood-Retinal Barrier-on-a-Chip
Johns Hopkins University (Maryland)
Preceptor: Dr. Kapil Bharti

138-AM. Nicole Kus
Purification and biochemical characterization of full-length human tyrosinase
Wake Forest University (North Carolina)
Preceptor: Dr. Yuri Sergeev

139-AM. Caitlyn McCafferty
Using in-silico mutagenesis to understand the role of protein folding in inherited eye disease
University of Maryland, College Park (Maryland)
Preceptor: Dr. Yuri Sergeev

140-AM. Zoya Qureshy
Human Induced Pluripotent Stem Cell (iPSC) Based Modeling of Late-Onset Retinal Degeneration
Duke University (North Carolina)
Preceptors: Dr. Kapil Bharti, Dr. Kiyoharu Miyagishima

141-AM. Raymond Zhou
Sodium iodate-induced retina and choroid damage model in rabbits to test efficacy of iPS-derived RPE transplants
University of California, Los Angeles (California)
Preceptor: Mr. Arvydas Maminishkis

National Heart, Lung, and Blood Institute (NHLBI)

142-AM. Joel Adu-Brimpong
University of Michigan (Michigan)
Preceptor: Dr. Tiffany Powell-Wiley

143-AM. Nikolaos Angelis
Regulatory Role of MYB on Fetal Hemoglobin Expression
University of Groningen (Non-U.S.)
Preceptors: Dr. Swee Lay Thein, Dr. Xunde Wang

144-AM. Lucas Axiotakis
Modular LIM-domains Mediate Actin Cytoskeletal Strain Recognition
Johns Hopkins University (Maryland)
Preceptor: Dr. Gregory Alushin

145-AM. Kyle Bruun
Principles Governing Non-Muscle Myosin 2 Filaments in Cells
Saint Joseph's University (Pennsylvania)
Preceptors: Dr. Jordan Beach, Dr. John Hammer

146-AM. Jessica Choi
Disruption in Arterial Branching Leads to Defective Hair Follicle Development
University of Oregon (Oregon)
The Effect of Donor-Recipient Mitochondrial DNA Mismatches on the Severity of Graft-versus-Host Disease Outcomes in Hematopoietic Stem Cell Transplant Patients
University of Florida (Florida)
Preceptors: Dr. Sean Agbor-Enoh, Dr. Hannah Valantine

Ibrutinib acts as a dual B-cell receptor and Toll-like receptor inhibitor in chronic lymphocytic leukemia
University of California, Los Angeles (California)
Preceptors: Dr. Adrian Wiestner, Dr. Sarah Herman

Cathepsin L as a potent synuclease: Degradation of alpha-synuclein amyloid fibrils
Oberlin College and Conservatory (Ohio)
Preceptors: Dr. Jennifer Lee, Dr. Ryan McGlinchey

Immune Reconstitution After Nonmyeloablative Allogenic Stem Cell Transplant in Sickle Cell Anemia Patients on Long-Term Rapamycin
Alabama State University (Alabama)
Preceptors: Dr. Fran Hakim, Dr. John Tisdale

Maturation of Induced Pluripotent Stem Cell Derived Cardiomyocytes via Co-Culture with Supporting Cells of the Developing Heart
Brown University (Rhode Island)
Preceptors: Dr. Yosuke Mukoyama, Dr. Wenling Li

Standard 3D printed phantom used for calibration in micro stereo radiography and far-field phase contrast imaging
University of Maryland, College Park (Maryland)
Preceptor: Dr. Han Wen

Targeting MALT1 in high risk chronic lymphocytic leukemia resistant to ibrutinib
Cornell University (New York)
Preceptors: Dr. Sarah Herman, Dr. Adrian Wiestner

Characterization of Lymphatic Vessel Development in the Central Nervous System
University of Texas at Austin (Texas)
Preceptor: Dr. Yosuke Mukoyama

From a round cell to the sperm: Why is Myosin II-A important?
Texas A&M International University (Texas)
Preceptor: Dr. Robert Adelstein

Using whole-exome sequencing to identify genetic variants in patients diagnosed with Pentalogy of Cantrell

157-AM. Alejandro Morales Martinez
Micro-CT scouting for transmission electron microscopy of human tissue specimens
University of Maryland, College Park (Maryland)
Preceptor: Dr. Han Wen

158-AM. Matthew Mulé
High Sensitivity Personalized Residual Disease Monitoring Predicts Acute Myeloid Leukemia Relapse
Tufts University (Massachusetts)
Preceptor: Dr. Christopher Hourigan

159-AM. Qimin Ng
Characterization of Cardiometabolic Dysfunction in a Murine Model of Psoriasis
Johns Hopkins University (Maryland)
Preceptor: Dr. Nehal Mehta

160-AM. Jan Nguyen
Characterization of Idiopathic Bronchiectasis in Patients with and without Pulmonary Nontuberculous Mycobacterial Disease
Johns Hopkins University (Maryland)
Preceptor: Dr. Kenneth Olivier

161-AM. An Nguyen
The Effects of Fasting and Refeeding on Regulating NLRP3 Inflammasome Activation in Asthmatic Subjects
Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Michael Sack

162-AM. Jacob Ortega
Comparative Evolutionary Evaluation of Centrosome Structure and Function in Drosophila Spermatogenesis
Texas Christian University (Texas)
Preceptor: Dr. Nasser Rusan

163-AM. Jaya Parulekar
Systems Biology Modeling of Vasopressin Signaling and Feedback Regulation in Kidney
Illinois Institute of Technology (Illinois)
Preceptors: Dr. Mark Knepper, Dr. Viswanathan Raghuram

164-AM. Onehyuk (John) Ra
Investigating the Potential Neuroprotective Function of p55gamma
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Jing Wu, Dr. Michael Sack

165-AM. Ganesh Shenoy
Diamonds are Forever: Fluorescent Nanodiamonds for Biomedical Imaging
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Keir Neuman

166-AM. Sarah Speed
Structural Analysis and Live Cell Imaging of Centrosomes in Asymmetrically Dividing Neural Stem Cells
University of North Carolina at Chapel Hill (North Carolina)
167-AM. Zachary Swider
Refining novel imaging techniques to investigate microtubule tip-tracking dynamics
University of California, Santa Cruz (California)
Preceptor: Dr. Nasser Rusan

168-AM. Samantha Thomas
Tulane University (Louisiana)
Preceptor: Dr. Tiffany Powell-Wiley

169-AM. Ezigbobiara Umejiego
Roflumilast Effect on Aquaporin-2 Phosphorylation and Trafficking in Rat Renal Inner Medullary Collecting Duct
Kennesaw State University (Georgia)
Preceptors: Dr. Chung-Lin Chou, Dr. Mark Knepper

170-AM. Haitao Xu
Defining Roles for Apolipoprotein A-1 and Apolipoprotein E in Modifying Asthmatic Airway Inflammation
University of Florida (Florida)
Preceptor: Dr. Elizabeth Gordon

171-AM. Leah Yingling
Lower Technology Fluency is Not A Barrier to User Adoption of a Mobile Health Wrist-worn Physical Activity Monitor System: Observations from the Washington, D.C. Cardiovascular Health and Needs Assessment
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Tiffany Powell-Wiley

National Institute on Aging (NIA)

172-AM. Juan Alvarez-Gonzalez
Inhibiting a Mutagen: Stopping Activation-Induced Deaminase
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Robert Maul, Dr. Patricia Gearhart

173-AM. Paul Bastian
Quantification of Increasing Variation with Age Using Principal Component Analysis
College of William and Mary (Virginia)
Preceptor: Dr. Kevin Becker

174-AM. Galit Benoni
Exploring the role of Mammillary Bodies in Hippocampus Dependent Cognitive Function
Johns Hopkins University (Maryland)
Preceptors: Dr. Henriette van Praag, Dr. Peter Clark

175-AM. Sean Berkowitz
Molecular characterization of plasma Extracellular Vesicles enriched for myocytic origin
Duke University (North Carolina)
176-AM. Stephanie Cordonnier  
*Diminished DNA polymerase beta levels promote Alzheimer's disease (AD) phenotypes*  
Kenyon College (Ohio)  
Preceptors: Dr. Vilhelm Bohr, Dr. Magdalena Misiak

177-AM. Jack Crouch  
*Impact of High Fat/High Sugar Diet on a RECQL1 Helicase Deficient Rodent Model*  
James Madison University (Virginia)  
Preceptor: Dr. Robert Brosh

178-AM. Jessica De Freitas  
*Elucidating functions of WRN domains in classical and alternative non-homologous end joining*  
University of Miami (Florida)  
Preceptors: Dr. Raghavendra Shamanna, Dr. Huiming Lu

179-AM. Natalie DiProspero  
*Cortical Thinning: Associations with Age, Sex, and Cognitive Status*  
Washington University in St. Louis (Missouri)  
Preceptor: Dr. Susan Resnick

180-AM. Arun Dutta  
*CRISPR/Cas9 Off Target Mutations are Detected by a PAGE Method*  
University of Virginia (Virginia)  
Preceptors: Dr. Xiang Qiu, Dr. Ranjan Sen

181-AM. Maria Edelhauser  
*Eureka Uric Acid*  
Grand Valley State University (Michigan)  
Preceptor: Ms. Simonetta Camandola

182-AM. Elayne Fivenson  
*Common hOGG1 variant promotes mitochondrial dysfunction and sensitivity to oxidative stress.*  
University of Michigan (Michigan)  
Preceptor: Dr. Beverly Baptiste

183-AM. Julia Gichimu  
*SNM1A nuclease is required for interstrand crosslink processing in G1 cells*  
Minnesota State University (Minnesota)  
Preceptors: Dr. Micheal Seidman, Dr. Marina Bellani

184-AM. Tyler Golato  
*Development of Cell-Based Base Excision Repair Capacity Assay*  
Stockton University (New Jersey)  
Preceptor: Dr. David Wilson

185-AM. Gabriela Gomez  
*Metabolic Syndrome and Amyloid Accumulation in the Aging Brain*  
Duke University (North Carolina)  
Preceptors: Dr. Lori Beason-Held, Dr. Susan Resnick

186-AM. Jamal Green  
*Characterization of Circulating Extracellular Vesicles with Human Age*
University of Florida (Florida)
Preceptors: Dr. Nicole Noren Hooten, Dr. Erez Eitan

187-AM. Mikayla Hall
Association of a Na Pump Ligand Marinobufagenin with Brain Structures in Salt-Sensitive Hypertension
University of Florida (Florida)
Preceptor: Dr. Olga Fedorova

188-AM. Mary Higgins
Assessing the role of base excision DNA repair in skeletal muscle integrity
Lafayette College (Pennsylvania)
Preceptors: Dr. Rachel Abbotts, Dr. David Wilson

189-AM. Phu Huynh
Human versus Monkey on CR: What are gene arrays telling us?
Rutgers (New Jersey)
Preceptor: Dr. Rafael de Cabo

190-AM. Emma Janke
Circuitry of adult- and developmentally-born neurons in the mouse dentate gyrus
University of Texas at Austin (Texas)
Preceptor: Dr. Henriette van Praag

191-AM. Tamzin Kaiser
Dietary interventions to extend lifespan: the role of dietary composition and content
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Rafael de Cabo, Dr. Sarah Mitchell

192-AM. Jesse Kerr
Mitophagy Upregulation as a Therapeutic Strategy for Alzheimer's Disease
Evergreen State College (Washington)
Preceptors: Dr. Vilhelm Bohr, Dr. Evandro Fang

193-AM. Ki Kim
Pathological role of aging B cells in transgenic mouse model Alzheimer's disease
University of Michigan (Michigan)
Preceptor: Dr. Arya Biragyn

194-AM. Mary Kim
Synchronization of local calcium releases (LCRs) in single, isolated SA node guinea pig cells
contributes to generation of rhythmic action potential-induced Ca transients
Cornell University (New York)
Preceptor: Dr. Victor Maltsev

195-AM. Annette Ko
Assessment of human naïve CD4 and CD8 TCR repertoires and their changes with age
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Nan-ping Weng

196-AM. Michael LaNasa
Mice Overexpressing Plasma Membrane Electron Transport Proteins Exhibit Increased Lifespan and a Distinct Metabolic Profile
Georgetown University (District of Columbia)
197-AM. Susan Lubejko
*Running Enhances Structural Maturity of Young Adult-born Dentate Granule Cells in Mouse Hippocampus*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Henriette van Praag

198-AM. Kelli Malott
*Uricase Modifies Cellular Metabolic Response to Stress*
University of Michigan (Michigan)
Preceptor: Dr. Simonetta Camandola

199-AM. Hector Mora
*On-and-off feeding protocol with 1% Metformin alters lipid metabolism gene profile*
Florida Atlantic University (Florida)
Preceptor: Dr. Irene Alfaras Cardenal

200-AM. Audrey Morrow
*Total Cell Number in Retrosplenial Cortex of Young and Aged Behaviorally Characterized Rats*
Towson University (Maryland)
Preceptor: Dr. Jeffrey Long

201-AM. Heta Patel
*Dissecting the Role of NF-kB Signaling Dynamics in Inflammaging*
University of California, Santa Cruz (California)
Preceptors: Dr. Erik Martin, Dr. Mia Sung

202-AM. Robert Peaden
*The Role of NQO1 in mRNA Translation*
University of Virginia (Virginia)
Preceptors: Dr. Rafael de Cabo, Dr. Andrea Di Francesco

203-AM. Sophia Raefsky
*Evaluation of Deuterated Polyunsaturated Fatty Acids (D-PUFAs) as a Therapeutic Intervention for Alzheimer's Disease*
University of Puget Sound (Washington)
Preceptor: Dr. Mark Mattson

204-AM. Christopher Ramirez
*Can the age-associated decline in pacemaker cell function be ameliorated by genetic intervention?*
University of Central Florida (Florida)
Preceptor: Dr. Edward Lakatta

205-AM. Paul Scalzo
*Mitochondrial Respiration as a Measure of Mitochondrial Function with Age*
Palm Beach Atlantic University (Florida)
Preceptor: Dr. Marta Gonzalez-Freire

206-AM. Mitchell Schepps
*The Association between Day Length and Accelerometer-assessed Physical Activity*
University of Florida (Florida)
Preceptors: Dr. Tamara Harris, Dr. Eric Shiroma

207-AM. Kate Schulze  
*Interneuron vulnerability in aged monkeys with memory impairment*  
Gustavus Adolphus College (Minnesota)  
Preceptor: Dr. Jeffrey Long

208-AM. Ryan Spangler  
*Extracellular Vesicle Release and Autophagy: Partners in Managing Molecular Garbage*  
Shippensburg University (Pennsylvania)  
Preceptor: Mr. Erez Eitan

209-AM. Caitlin Suire  
*Neuroblastoma Extracellular Vesicles Alter Reactive Glial Response to Promote Tumor Growth*  
Wake Forest University (North Carolina)  
Preceptors: Dr. Erez Eitan, Dr. Mark Mattson

210-AM. Tyler Waltz  
*Anti-aging effects of tomatidine: A natural compound in green tomato*  
Arcadia University (Pennsylvania)  
Preceptors: Dr. Evandro Fang, Dr. Vilhelm Bohr

211-AM. Christina Wohler  
*Analysis of Type I and Type II Muscle Fiber Ratios in Aging Human Skeletal Muscle*  
College of William and Mary (Virginia)  
Preceptor: Dr. Fred Indig

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

212-AM. Erik Anderson  
*Multiple gene duplication events and functional diversification of rodent RNase A family ribonucleases*  
University of Wisconsin, Madison (Wisconsin)  
Preceptor: Dr. Helene Rosenberg

213-AM. Ari Azani  
*Developing a Multilocus Sequence Typing Scheme for Clinical Isolates of Leishmania*  
Brandeis University (Massachusetts)  
Preceptor: Mr. Michael Grigg

214-AM. Dalton Banh  
*Epstein-Barr Virus Glycoproteins as Vaccine Immunogens: Optimizing Expression and Purification*  
University of Southern California (California)  
Preceptors: Dr. Wei Bu, Dr. Jeffrey Cohen

215-AM. Neha Bansal  
*Using ATAC-seq to Assess Chromatin Accessibility in Fresh and Frozen Immune Cell Subsets*  
George Mason University (Virginia)  
Preceptor: Dr. John Tsang

216-AM. Trisha Basu  
*The Role of Aspergillus fumigatus Secreted Alkaline Protease, Alp1, in Asthma*  
Cornell University (New York)
217-AM. Jacquelyn Bedsaul
Investigating Type I Interferon Profiles in Sendai Virus-Infected Cells using CRISPR/CAS9 Technology: A Powerful or Ambiguous Tool?
York College of Pennsylvania (Pennsylvania)
Preceptors: Dr. Kathryn Zoon, Dr. Luna Zaritsky

218-AM. Sara Bolivar Wagers
Novel CD4-Based Bi-specific Chimeric Antigen Receptors: Toward a Functional Cure of HIV Infection
University of Central Florida (Florida)
Preceptor: Dr. Edward Berger

219-AM. Todd Brenner
Recruited macrophages mediate heterologous immunity to pneumovirus infection in the lung
Williams College (Massachusetts)
Preceptor: Dr. Helene Rosenberg

220-AM. Margaret Chahoud
Variation of atxA Copy Number Optimized Expression of pagA gene in Bacillus anthracis
University of North Carolina at Charlotte (North Carolina)
Preceptors: Dr. Andrei Pomerantsev, Dr. Stephen Leppla

221-AM. Ellyse Cipolla
NOD2 regulates Imiquimod-induced Psoriasis-like skin inflammation through induction of IL-1β
Michigan State University (Michigan)
Preceptors: Dr. Tej Singh, Dr. Josh Farber

222-AM. Emily Condiff
3D Visualization of the Immune Response to Influenza Infection in the Mouse Lung
Washington University in St. Louis (Missouri)
Preceptors: Dr. Pedro Milanez-Almeida, Dr. Ronald Germain

223-AM. Michael Conlon
Characterization of Antibodies to the Nucleoprotein of Influenza Virus
University of Maryland, College Park (Maryland)
Preceptor: Dr. Audray Harris

224-AM. Allison Doyle
MAδCAM-1 and the V2 loop of HIV-1 gp120 Stimulate Proliferation of Co-stimulated CD4+ T Cells
University of Georgia (Georgia)
Preceptor: Dr. Jim Arthos

225-AM. Colleen Fridley
Development of a Scalable GMP Purification Process for a Recombinant RSV Subunit Vaccine (DS-Cav1)
Johns Hopkins University (Maryland)
Preceptors: Dr. Richard Schwartz, Dr. Mridul Ghosh

226-AM. Amanda Gill
Effect of anti-PD-L1 (Avelumab) treatment on SIV viral load in rhesus macaques receiving antiretroviral therapy
Bryn Mawr College (Pennsylvania)
227-AM. Reem Hakeem
*The role of monoclonal paraproteins in Systemic Capillary Leak Syndrome (SCLS)*
University of North Carolina Wilmington (North Carolina)
Preceptor: Dr. Kirk Druey

228-AM. Christian Haudenschild
*A Secretome-derived Staphylococcus aureus Vaccine Confers Protection in a Mouse Bacteremia Model*
New York University (New York)
Preceptor: Dr. Hatice Karauzum

229-AM. Lauren Heery
*Revisiting the Beta-Lactams: Optimizing a High-Throughput Assay for Tuberculosis Drug Discovery*
Loyola University Maryland (Maryland)
Preceptors: Dr. Kriti Arora, Dr. Helena Boshoff

230-AM. Hanna Hong
*Analysis of Complement Deposition on Granulibacter bethesdensis, an emerging pathogen in patients with Chronic Granulomatous Disease*
University of Washington (Washington)
Preceptors: Dr. Kol Zarember, Dr. John Gallin

231-AM. Deborah Jack
*Recombinant production and crystallization of Duffy-binding like Region II domains from Plasmodium yoelii erythrocyte binding ligand*
Towson University (Maryland)
Preceptors: Dr. David Garboczi, Dr. Kavita Singh

232-AM. Andrea Keefer
*In vivo characterization of an Hfq protein encoded by the Bacillus anthracis virulence plasmid pXO1*
Frostburg State University (Maryland)
Preceptors: Dr. Catherine Vrentas, Dr. Stephen Leppla

233-AM. Aarti Kolluri
*Volunteer Recruitment and Enrollment in a Malaria Vaccine Study*
Grinnell College (Iowa)
Preceptor: Dr. Sara Healy

234-AM. Laura Kraemer
*Pattern recognition receptors (PRRs) may modulate the interactions of Eosinophils and Bacteria*
California Polytechnic State University, San Luis Obispo (California)
Preceptor: Dr. Helene Rosenberg

235-AM. Alice Kwon
*The Critical Role of V3 Loop Residues in HIV-1 Envelope Conformation and Neutralization Sensitivity*
Wesleyan University (Connecticut)
Preceptors: Dr. Paolo Lusso, Dr. Christina Guzzo

236-AM. William Law
*HIV-1 MPR-directed Broadly Neutralizing Antibodies From Acute-Infection Cohort RV217 Subject 40512*
University of Rhode Island (Rhode Island)
Preceptor: Dr. Nicole Doria-Rose

237-AM. Joshua Lee
Host Susceptibility to Cryptococcus gattii
North Carolina Agricultural and Technical State University (North Carolina)
Preceptor: Dr. Amy Kullas

238-AM. Nicolas Lounsbury
A genome-wide analysis reveals a major role for Ikaros in the LPS-induced gene program in macrophages
University of California, Santa Cruz (California)
Preceptor: Dr. Iain Fraser

239-AM. Laura Madigan
The Role of Regulator of G-Protein Signaling 4 (RGS4) in Airway Hyper-responsiveness in Asthma
Villanova University (Pennsylvania)
Preceptor: Dr. Kirk Druey

240-AM. Tania Maldonado, Eric Brenner
KSHV Tropism: Examining the Effect of Producer Cell Type
George Washington University (District of Columbia), College of Wooster (Ohio)
Preceptor: Dr. Stephen Dollery

241-AM. Michelle Manikkam, Benjamin Zeter
Tuberculosis drug discovery: an overview of phenotypic screening and formal hit assessment
The George Washington University (District of Columbia), Colorado State University (Colorado)
Preceptors: Dr. Kriti Arora, Dr. Helena Boshoff

242-AM. Zachary Mankoff
Deglycosylation of the CD4 Binding Site and Elicitation of Anti-HIV Antibodies: A Macaque Model
Yale University (Connecticut)
Preceptors: Dr. Amarendra Pegu, Dr. John Mascola

243-AM. Joshua McCausland
The S. aureus PSM Transporter (Pmt) contributes to colonization and infection through export of AMPs
University of North Georgia (Georgia)
Preceptors: Dr. Gordon Cheung, Dr. Michael Otto

244-AM. Pietro Miozzo
The Effects of B cell Receptor and Toll-Like Receptor Stimulation on B Cell Metabolism
Yale University (Connecticut)
Preceptors: Dr. Susan Pierce, Dr. Münir Akkaya

245-AM. Bianca Nagata
Individuals in a malaria endemic region present antibodies against pfs47, a parasite protein required for evasion of the mosquito immune system
Johns Hopkins University (Maryland)
Preceptors: Dr. Carolina Barillas-Mury, Dr. Alvaro Molina-Cruz

246-AM. Simardeep Nagyal
Malaria parasite Pfs47 protein specifically binds with a mosquito membrane protein to evade mosquito immunity
Duke University (North Carolina)
247-AM. Dan Park  
*The Role of PGE2-EP4-Gs Signaling Axis in Gut Immunity*  
University of Virginia (Virginia)  
Preceptors: Dr. Hyeseon Cho, Dr. Brian Kelsall

248-AM. Helen Parrington  
*Development of a confocal microscopy assay to test CD8 T cell function*  
University of Massachusetts, Boston (Massachusetts)  
Preceptor: Dr. Marta Catalfamo

249-AM. Sarah Puryear  
*Characterization of SIV Coreceptor Tropism in Natural and Non-Natural Hosts Using a Reporter Pseudotype Virus System*  
Haverford College (Pennsylvania)  
Preceptors: Dr. Nadeene Riddick, Dr. Vanessa Hirsch

250-AM. Karina Ruiz-Esteves  
*Identification of alpha-gal sensitization in patients with Idiopathic Anaphylaxis*  
University of Puerto Rico - Mayaguez (Puerto Rico)  
Preceptors: Dr. Melody Carter, Dr. Dean Metcalfe

251-AM. Fernando Salazar-Miralles  
*Experimental hut assays: a novel tool for assessing mosquito feeding dynamics in Malian adults*  
University of New Mexico (New Mexico)  
Preceptors: Dr. Jennifer Hume, Dr. Patrick Duffy

252-AM. Danial Saleem  
*Immunostimulatory Effects of Oxidized Phospholipids on Bone Marrow Derived Macrophages: Investigating the Importance of Acyloxyacylhydrolase*  
Columbia University (New York)  
Preceptor: Dr. Robert Munford

253-AM. Aaron Scanlan  
*Constructing a soluble co-receptor mimetic to initiate the HIV Envelope-cell membrane fusion complex in cell-free assays*  
Clemson University (South Carolina)  
Preceptor: Dr. Agnes Hajduczki

254-AM. Alexander Schin  
*Elucidating the network of the vaccinia virus entry-fusion complex*  
University at Albany, SUNY (New York)  
Preceptors: Dr. Bernard Moss, Dr. Ulrike Diesterbeck

255-AM. Karen Schirm  
*A Phase I Study of Respiratory Syncytial Virus Human Challenge in Healthy Adult Volunteers*  
Princeton University (New Jersey)  
Preceptors: Dr. Lesia Dropulic, Dr. Jeffrey Cohen

256-AM. Alexander Smith  
*Identifying the Molecular Determinants of Flavivirus “Breathing”*  
Princeton University (New Jersey)
Preceptor: Dr. Theodore Pierson

257-AM. James Stamos
Antiviral ND10 Body Factors Colocalize with HPV Replication Foci and Regulate the Productive Stage of the Infectious Cycle
Montclair State University (New Jersey)
Preceptor: Dr. Alison McBride

258-AM. Francesca Tomasi
Glutamine Analogs as Anti-Tubercular Drugs
University of Chicago (Illinois)
Preceptors: Dr. Gareth Prosser, Dr. Clifton Barry

259-AM. Alessandra Tomasi
N-Terminal Sulfation Switches Ligand Specificity in Mouse Chemokine Receptors Ccr1 and Ccr1L1
Cornell University (New York)
Preceptors: Dr. Sergio M. Pontejo, Dr. Philip Murphy

260-AM. Anastassia Tselikova
Two-Step Regulation of T Follicular Helper Cell Differentiation by E-Box Binding Proteins
University of California, Los Angeles (California)
Preceptor: Dr. Hidehiro Yamane

261-AM. Timothy Wanninger
Immunization with CD4-binding site-deglycosylated HIV-1 Envelope Trimers generates autologous, neutralizing antibodies in Rhesus Macaques.
Regis University (Colorado)
Preceptor: Dr. Cheng Cheng

262-AM. Alexandra Wells
The Role of Host Protein NF45 in the Induction of IFN-Beta During Dengue Virus Infection
Bucknell University (Pennsylvania)
Preceptors: Dr. Kathryn Zoon, Dr. Corey Balinsky

263-AM. Ellen White
Deletion of the SIV Envelope Cytoplasmic Tail Affects Neutralization Sensitivity
Boston College (Massachusetts)
Preceptors: Dr. Fan Wu, Dr. Vanessa Hirsch

264-AM. Erin Yim, Alexander Yang
Towards a cure strategy for WHIM Syndrome: Cxcr4 haploinsufficiency confers a selective advantage for hematopoietic stem cell engraftment
Drexel University (Pennsylvania), Brown University (Rhode Island)
Preceptors: Dr. Philip Murphy, Dr. Ji-Liang Gao

National Institute of Neurological Disorders and Stroke (NINDS)

265-AM. Alison Austermuehle
Language fMRI in Epilepsy Surgery Preoperative Planning: A Comparison with Direct Cortical Stimulation
University of Wisconsin, Madison (Wisconsin)
Preceptor: Dr. William Theodore

266-AM. Devin Bageac
Pre and Postmortem Diffusion Tensor Imaging in C9orf72 ALS-bvFTD
George Washington University (District of Columbia)
Preceptor: Dr. Mary Kay Floeter

267-AM. Annika Balraj
Thyroxin Beta2 receptor (trβ2) Overexpression Alters Cone Spectra in Zebrafish
George Washington University (District of Columbia)
Preceptor: Dr. Ralph Nelson

268-AM. Amelia Burch
A Detergent-Free Synaptic Junction Preparation for the Characterization of Synaptic Cleft Components
Emory University (Georgia)
Preceptor: Dr. Ayse Dosemeci

269-AM. Geanna Capitan
Exploratory Analysis of BDNF Val66Met Polymorphism in Functional Movement Disorder
University of New Mexico (New Mexico)
Preceptor: Dr. Carine Maurer

270-AM. Joseph Choi
Knock-out Marmoset Notch3 Gene via CRISPR/Cas9 System
University of California, Los Angeles (California)
Preceptors: Dr. Afonso Silva, Dr. Jungeun Park

271-AM. Alexa Ciesinski
Neuronal Protection from Viral Infection is Mediated by Local T-cell Engagement of Hematopoietic Cells
Wake Forest University (North Carolina)
Preceptors: Dr. Ashley Moseman, Dr. Dorian McGavern

272-AM. John Cocjin, Emily Whitehead
Guided Electrode Localization and Standardized Regions of Interest for Electrocorticography
Rice University (Texas), Washington State University (Washington)
Preceptor: Dr. Kareem Zaghloul

273-AM. Stephen Coscia
Exploring ZASP isoform-specific binding to skeletal muscle Actin, with implications for myofibrillar myopathy
Boston College (Massachusetts)
Preceptor: Dr. Ami Mankodi

274-AM. Sean Cuddy
Defining lysosome motility patterns in distal axons in health and disease.
Georgetown University (District of Columbia)
Preceptors: Dr. Zu-Hang Sheng, Dr. Tamar Farfel-Becker

275-AM. Leigh Dairaghi
Dopamine via dopamine receptor 4 alters GnRH neuron activity
Carleton College (Minnesota)
Preceptors: Dr. Stephanie Constantin, Dr. Susan Wray
276-AM. Ebenezer Ewul
Transcranial magnetic stimulation (TMS) of dorsolateral prefrontal cortex (DLPFC) improves memory
City University of New York - Lehman College (New York)
Preceptors: Dr. Eric Wassermann, Dr. Leonora Wilkinson

277-AM. Zachary Gala
Analyzing Callosal FA and MD Differences in ALS and/or FTD
University of Michigan (Michigan)
Preceptor: Dr. Mary Kay Floeter

278-AM. Nicholas Geiger
Engineering Inducible Cell Lines to Screen for Antagonists to HIV-1 Tat Protein
University of North Dakota (North Dakota)
Preceptor: Dr. Avindra Nath

279-AM. Joshua Geiger
Genetic Dissection of Dementia with Lewy Bodies
University of Rochester (New York)
Preceptor: Dr. Sonja Scholz

280-AM. Robert Guber
Aberrant R-loop Processing in Juvenile Amyotrophic Lateral Sclerosis
Cornell University (New York)
Preceptors: Dr. Kenneth Fischbeck, Dr. Christopher Grunseich

281-AM. Ling Huang
Thalamic Connectivity Patterns with Subthalamic Nucleus Deep Brain Stimulation
Johns Hopkins University (Maryland)
Preceptor: Dr. Codrin Lungu

282-AM. Katherine Huffer
Defining functional domains of the temperature- and capsaicin-sensitive TRPV1 channel
Dartmouth College (New Hampshire)
Preceptors: Dr. Andres Jara-Oseguera, Dr. Kenton Swartz

283-AM. Anthony Jang
In vivo neuronal activity in humans during memory encoding and retrieval
Brown University (Rhode Island)
Preceptor: Dr. Kareem Zaghoul

284-AM. Uzma Javed
Genetic Dissections of the Genes and Pathways Regulating Dendritic Plasticity in Developing Drosophila Visual System
George Mason University (Virginia)
Preceptor: Dr. Quan Yuan

285-AM. Leah Jensen
Characterizing the expression of striated muscle protein ZASP in the nervous system
Johns Hopkins University (Maryland)
Preceptors: Dr. Ami Mankodi, Dr. Yotam Blech-Hermoni

286-AM. Tibin John
Probing respiratory rhythm generation: Mechanism-specific responses of rhythmic pre-Bötzingcr Complex neural circuits to optogenetic perturbations
287-AM. Gaurang Limachia  
*Physiological Reactivity in Functional Movement Disorder*  
DePaul University (Illinois)  
Preceptors: Dr. Carine Maurer, Dr. Mark Hallett

288-AM. Danielle Locust  
*Human Immunodeficiency Virus Tat: Purification, Characterization and Therapeutics Development*  
University of Colorado, Denver (Colorado)  
Preceptor: Dr. Joe Steiner

289-AM. Nicholas Luciano  
*Utilizing 3D Printing Technology to Merge MRI with Histology: A Protocol for Brain Sectioning*  
Tulane University (Louisiana)  
Preceptors: Dr. Daniel Reich, Dr. Pascal Sati

290-AM. Jasmin Martin  
*SMN-deficient astrocytes are less supportive of motor neurons, due to decreased MCP1 secretion*  
Saint Joseph's University (Pennsylvania)  
Preceptors: Dr. Emily Foran, Dr. Kenneth Fischbeck

291-AM. Pawan Mathew  
*Pilot Trial of Botulinum Toxin and Occupational Therapy for Writer's Cramp*  
Duke University (North Carolina)  
Preceptors: Dr. Jung E Park, Dr. Mark Hallett

292-AM. Annah Moore  
*Molecular mechanisms supporting G Protein-biased Signaling through the D2 Dopamine Receptor*  
University of Rochester (New York)  
Preceptors: Dr. Benjamin Free, Dr. David Sibley

293-AM. Arnold Obungu  
*28-8 As a Reliable Antibody for Detecting PD-L1 in Glioblastoma*  
Auburn University (Alabama)  
Preceptor: Dr. Edjah Nduom

294-AM. Rajan Patel  
*Developing a Functional Genomics Toxicity Screen Using CRISPRi in iPSC Derived Neurons*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Michael Ward

295-AM. Bo Qin  
*Characterization of the Local Interneurons in the Drosophila Larval Visual Circuit*  
Northwestern University (Illinois)  
Preceptor: Dr. Quan Yuan

296-AM. Caroline Rauffenbart  
*The Functional Role of Adult-born Neurons in the Olfactory Bulb*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Leonardo Belluscio
297-AM. Carolina Rojas Ramírez
Graphite-Assisted Laser Desorption/Ionization (GALDI) of Membrane Proteins
College of William and Mary (Virginia)
Preceptors: Dr. Yan Li, Dr. Joseph Mindell

298-AM. Timothy Sheehan
Modulating Memory: Studying the effect of intracranial electrical stimulation during paired associates learning
Union College (New York)
Preceptor: Dr. Kareem Zaghloul

299-AM. Natalie Shih
Odorant-directed Alterations in the Transcriptional Profile of Olfactory Sensory Neurons
California Institute of Technology (California)
Preceptors: Dr. Leonardo Belluscio, Dr. Song Jiao

300-AM. Makoto Tanigawa
Finger and toe tapping as quantitative objective marker of upper and lower extremity dysfunction in multiple sclerosis
Johns Hopkins University (Maryland)
Preceptor: Ms. Bibiana Bielekova

301-AM. Mohammad Tariq
Elucidating the causal role of pre-Bötzinger complex glutamatergic neurons in respiratory rhythm generation via optogenetics
Georgia State University (Georgia)
Preceptors: Dr. Jeffrey C. Smith, Dr. Hidehiko Koizumi

302-AM. Johanna Thompson-Westra
Comparing tremor- and non-tremor effects of ethanol in patients with essential tremor
Brown University (Rhode Island)
Preceptor: Dr. Dietrich Haubenberger

303-AM. Ryan Toledo
Longitudinal Study of Functional Abilities in Patients with Syringomyelia
University of Maryland, College Park (Maryland)
Preceptor: Dr. John Heiss

304-AM. Brian Tong
Identifying RNA editing events in the giant axon of squid, Dosidicus gigas
Duke University (North Carolina)
Preceptors: Dr. Miguel Holmgren, Dr. Chhavi Mathur

305-AM. Demelio Urbano
Diffusion Tensor Imaging in Cervical Dystonia
CUNY Hunter College (New York)
Preceptors: Dr. Karin Mente, Dr. Mark Hallett

306-AM. Ashley Vellucci
Human T-cell Lymphocyte Virus-1 (HTLV-1) Proviral Load and Viral Gene Expression in HTLV-1 Associated Myelopathy/Tropical Spastic Paraparesis (HAM/TSP) Patients
Shippensburg University (Pennsylvania)
Preceptor: Dr. Steven Jacobson

307-AM. Ferdinand Vilson
Does GPR56 play a role in the developing GnRH/olfactory system?
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Susan Wray

308-AM. Dyvon Walker
Investigating Disease Therapies Via Genetic Editing: TALEN Technology
Stanford University (California)
Preceptors: Dr. Herui Wang, Dr. Zhengping Zhuang

309-AM. Emily Whitehead
A Unique, Template-free Approach to Analyzing Multi-Contrast Structural Imaging
Washington State University (Washington)
Preceptor: Dr. Sara Inati

310-AM. Pomi Yun
Dynamic Breathing MRI: A promising biomarker of diaphragmatic function in LAMA2 and COL6-related dystrophies
University of Georgia (Georgia)
Preceptors: Dr. Carsten Bonnemann, Dr. Aileen Foley

311-AM. Ashley Zachery
Effect of Epilepsy Surgery on Regional Language Dominance
University of Maryland, College Park (Maryland)
Preceptor: Dr. William Theodore

National Human Genome Research Institute (NHGRI)

1-PM. Yonit Addissie
Gene-Environment Interactions in Holoprosencephaly
Princeton University (New Jersey)
Preceptors: Dr. Maximilian Muenke, Dr. Paul Kruszka

2-PM. Madeline Arnold
The First Viable Mouse Model of cblC Defect: AAV Gene Therapy Rescues Neonatal Lethality and Provides Insight into Disease-Associated Retinal Degeneration
Carleton College (Minnesota)
Preceptor: Dr. Jennifer Sloan

3-PM. Kathleen Atkatsh
Biotinylation by Antibody Recognition: A Novel Method to Study Protein-Protein Interactions
Columbia University (New York)
Preceptor: Dr. Daniel Bar

4-PM. Daniel Borger
Astrocytes in the pathophysiology of GBA1-associated Parkinson disease
University of Chicago (Illinois)
Preceptors: Dr. Elma Aflaki, Dr. Ellen Sidransky
5-PM. Paola Chrysostomou
Randomized controlled study of two consent interventions for participating in NIH genome sequencing studies
University of Maryland, College Park (Maryland)
Preceptors: Dr. Barbara Biesecker, Dr. Lawrence Nelson

6-PM. Rachel Cohen
Factors Moderating the Effectiveness of Health Messages on Parents’ Food Choices for Their Children
Hollins University (Virginia)
Preceptor: Dr. Susan Persky

7-PM. Natalie Deutch
Early-Onset Stroke and Vasculopathy Associated with Mutations in ADA2
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Qing Zhou, Dr. Ivona Aksentijevich

8-PM. Kate Frost
Brain Metabolites and Clinical Outcomes in Patients with Late Onset Tay-Sachs and Sandhoff Disease
Oberlin College (Ohio)
Preceptor: Dr. Cynthia Tifft

9-PM. Jack Gagné
1-13C-Propionate Oxidation as a Measure of Methylmalonyl-CoA Mutase (MUT) Activity in Methylmalonic Acidemia
Columbia University (New York)
Preceptor: Dr. Jennifer Sloan

10-PM. Valerie Gartner
Mutations in SPTAN1 result in changes in expression in patient fibroblasts
Bryn Mawr College (Pennsylvania)
Preceptor: Dr. Paul Lee

11-PM. Nicholas Giangreco
Novel epigenetic changes occur in mouse ovarian endometrioid tumors with differential Arid1a mutational status
University of Rochester (New York)
Preceptor: Dr. Laura Elnitski

12-PM. Alana Gibson
A comparison of CNS transduction after systemic versus cranial delivery of an AAV2/9 CamKII promoter-eGFP vector in mice
Tulane University (Louisiana)
Preceptor: Dr. William Pavan

13-PM. Megan Goldring
Public Understandings of Epigenetic Risk in Common Disease
University of Southern California (California)
Preceptor: Dr. Susan Persky

14-PM. Gracie Gordon
The LOD score of exome analysis: How many deleterious variants from whole exome sequencing are seen in affected probands versus by chance alone?
Davidson College (North Carolina)
15-PM. Richard Grey
_A new mouse model of type 2 Gaucher disease_
Colgate University (New York)
Preceptors: Dr. Nahid Tayebi, Dr. Ellen Sidransky

16-PM. Mary Hackbarth
_Investigation of CLCN7 as a possible cause of a novel lysosomal storage disorder_
Rensselaer Polytechnic Institute (New York)
Preceptors: Dr. William Gahl, Mr. May Malicdan

17-PM. Isabel Hardee
_INPP5E-Associated Joubert Syndrome in a Non-Consanguineous Family_
College of William & Mary (Virginia)
Preceptor: Dr. Mariska Davids

18-PM. Kevin Hsu
_Novel insights regarding the pathogenesis of systemic calcification disorders_
Cornell University (New York)
Preceptor: Dr. William Gahl

19-PM. Brandon Hubbard
_Assaying hepatic correction mediated by varied AAV vectors in a knock-out transgenic mouse model of methylmalonic acidemia (MMA)_
Oklahoma State University (Oklahoma)
Preceptors: Dr. Randy Chandler, Dr. Chuck Venditti

20-PM. Olive Jung
_Evaluation of Molecular Probes for Non-Inhibitory Small Chaperones for Gaucher Disease_
Northwestern University (Illinois)
Preceptors: Dr. Wendy Westbroek, Dr. Ellen Sidransky

21-PM. Alanna Koehler
_Functional studies of a de novo missense mutation in GRB10 associated with short stature, failure to thrive, conductive hearing loss, and intellectual disability_
Franklin and Marshall College (Pennsylvania)
Preceptors: Dr. May Malicdan, Dr. William Gahl

22-PM. Yvonne Latour, Sarah Thomas
_Development of isogenic human cerebral organoids with beta-galactosidase deficiency_
St. Mary’s College of Maryland (Maryland), St. Mary’s College of Maryland (Maryland)
Preceptor: Dr. Cynthia Tifft

23-PM. Denise Levy
_Characterizing the clinical phenotype of patients diagnosed with congenital disorders of deglycosylation_
University of Massachusetts, Boston (Massachusetts)
Preceptors: Ms. Lynne Wolfe, Dr. Christina Lam

24-PM. John McElderry
_Understanding the role of dhx15 in Leukemia Using a Zebrafish model_
College of William and Mary (Virginia)
Preceptors: Dr. Raman Sood, Mr. Blake Carrington

25-PM. Gianina Monestime
*Assessment of Non-Motor Symptoms in a Cohort of Subjects at High Risk for Developing Parkinson Disease*
Boston University (Massachusetts)
Preceptors: Dr. Grisel Lopez, Dr. Ellen Sidransky

26-PM. Melissa Moss
*Implicit bias and interpersonal behaviors in physicians: A virtual clinic study*
Tulane University (Louisiana)
Preceptor: Mr. Vence Bonham

27-PM. Aaron Poliak
*Further Developments in GNE Myopathy Blood Based Biomarkers*
George Washington University (District of Columbia)
Preceptor: Dr. May Malicdan

28-PM. Sarah Sadozai
*Measuring Genetic and Social Differences in Parents of Children with Rare Diseases*
Catholic University of University of America (District of Columbia)
Preceptors: Dr. Chris Marcum, Dr. Laura Koehly

29-PM. Kelly Sanchez
*Simplex versus Multiplex: Does ADHD Differ in De Novo and Familial Cases?*
University of Connecticut (Connecticut)
Preceptor: Dr. Philip Shaw

30-PM. Nathaniel Soto Rosado
*Novel Genes in Hermansky-Pudlak Syndrome*
University of Puerto Rico - Mayaguez (Puerto Rico)
Preceptor: Dr. May Malicdan

31-PM. Bethany Stokes
*Incomplete Penetrance of Holoprosencephaly in two families with a SIX3 Deletion*
George Washington University (District of Columbia)
Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

32-PM. Aileen Tartanian
*Creation of a Zebrafish Model of Inborn Errors in Vitamin B12 Metabolism*
Ithaca College (New York)
Preceptors: Mr. David Bernard, Dr. Lawrence Brody

33-PM. Hena Thakur
*Measuring Family Relationships in Mexican Heritage Families: A Psychometric Evaluation*
Boston University (Massachusetts)
Preceptor: Dr. Laura Koehly

34-PM. Nathaniel Tolman
*Generating a Murine Model for Hermansky-Pudlak syndrome using CRISPR-Cas9*
Colby College (Maine)
Preceptors: Dr. May Christine Malicdan, Dr. Hadass Pri Chen
35-PM. Nkeiruka Umeh  
*Splenic Infarction and Sickle Cell Trait: A Review of Case Reports*  
Duke University (North Carolina)  
Preceptor: Mr. Vence Bonham

36-PM. Kendall Umstead  
*A Taxonomy of Uncertainties in Clinical Genome Sequencing*  
Georgetown University (District of Columbia)  
Preceptor: Dr. Barbara Biesecker

37-PM. Alexander Weech  
*Congenital neuromuscular delay due to mutations in PUS3*  
College of William and Mary (Virginia)  
Preceptor: Dr. May Malicdan

38-PM. Larry Zhou  
*Quantitative Analysis of Subclinical Coronary Atherosclerosis via Cardiac CT in African-American Participants in the GENE-FORECAST Study*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Jose Vargas

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

39-PM. Andrew Aston  
*The Role of Attention Deficit Hyperactivity Disorder Symptoms, Impulsivity, and Childhood Trauma on Alcohol Use Disorders*  
Brigham Young University (Utah)  
Preceptor: Dr. Lorenzo Leggio

40-PM. Lauren Blau  
*The Relationship Between Childhood Maltreatment, Impulsivity and Impaired Control on Alcohol Use in Non-Dependent Drinkers*  
Trinity College (Connecticut)  
Preceptor: Dr. Vijay Ramchandani

41-PM. Sasha Brietzke  
*Neural Correlates of Delayed Reward Discounting Among Alcohol Dependent Subjects*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Reza Momenan

42-PM. Elizabeth Cabrera  
*Methylphenidate-induced Dopamine Release Varies across Smoking Status*  
University of Florida (Florida)  
Preceptor: Dr. Nora Volkow

43-PM. Allison Daurio  
*The Effects of Baclofen on Anxious Alcoholic Individuals: a Cue-Reactivity and Alcohol Self-Administration Study in a Bar-like Laboratory*  
University of Illinois at Urbana - Champaign (Illinois)  
Preceptor: Dr. Lorenzo Leggio
44-PM. Sophie Haven  
*Neuroimaging, Omega-3 and Reward in Adults with ADHD (NORAA) trial*  
San Diego State University (California)  
Preceptors: Dr. Joseph Hibbeln, Dr. Rachel Gow

45-PM. Alexis Katz  
*In vitro characterization of dual target peripheral CB1R antagonists*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Resat Cinar, Dr. George Kunos

46-PM. Timothy Klepp  
*Association of Hepatic Disease Markers with Polyunsaturated Fatty Acids in Alcohol Dependent Patients*  
New York University (New York)  
Preceptors: Dr. Vijay Ramchandani, Dr. Nancy Diazgranados

47-PM. Adrina Kocharian  
*Infralimbic cortex and basolateral amygdala modulation of punished ethanol seeking*  
University of California, Los Angeles (California)  
Preceptors: Dr. Lindsay Halladay, Dr. Andrew Holmes

48-PM. Aaron Limoges  
*Intercalated cells of the amygdala in an alcohol-sensitive form of fear extinction*  
Kansas State University (Kansas)  
Preceptors: Dr. Andrew Holmes, Dr. Olena Bukalo

49-PM. Mintong Nan  
*Novel CB2 agonists are promising treatments in nephropathy*  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Pal Pacher, Dr. Partha Mukhopadhyay

50-PM. Josh Park  
*Lung Fibrosis: Role of Cannabinoid-1 Receptors (CB1R) and Dual-Target Treatment Strategy Using a Hybrid CB1R/Inducible Nitric Oxide Synthase (iNOS) Inhibitor*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Resat Cinar, Dr. George Kunos

51-PM. Matthew Rohn  
*The Effect of Oxytocin on Methylphenidate Self-Administration in Rats: A Dose Escalation Study*  
Haverford College (Pennsylvania)  
Preceptor: Dr. Mary Lee

52-PM. Allison Rosen  
*Association Analysis of Variants in the PIP5K1C Gene and Alcohol Dependence*  
Brown University (Rhode Island)  
Preceptor: Dr. Falk Lohoff

53-PM. Anuj Shah  
*Neural Responses to Rewarding and Fearful Stimuli Independently Predict Drinking Outcomes and Self-reported Effects of Alcohol in Heavy Drinkers*  
Williams College (Massachusetts)  
Preceptor: Dr. Vijay Ramchandani
54-PM. Kelsey Sundby
*The Neural Substrates of an Approach-Avoidance Conflict in Heavy Drinkers*
University of Virginia (Virginia)
Preceptors: Dr. Reza Momenan, Ms. Erica Grodin

55-PM. Elisabeth Tawa
*Genome-Wide Association Study of Treatment Response to Venlafaxine XR in Generalized Anxiety Disorder*
Swarthmore College (Pennsylvania)
Preceptor: Dr. Falk Lohoff

56-PM. Jamie Temko
*The brain, the gut and the microbiome: A 'ménage à trois'?
Brown University (Rhode Island)
Preceptors: Dr. Lorenzo Leggio, Dr. Sofia Bouhlal

57-PM. Courtney Vaughan
*The Relationship Between Impulsivity and Control Over Drinking on IV Alcohol Self-Administration in Non-Dependent Drinkers*
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Bethany Stangl, Dr. Vijay Ramchandani

58-PM. Breanne Wilhite
*Dietary omega-6 linoleic acid regulation of endocannabinoid tone, satiety and body composition*
Wake Forest University (North Carolina)
Preceptors: Dr. Christopher Ramsden, Dr. Joseph

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

59-PM. Victoria Arthur
*Genome-wide Association Study of Systemic Juvenile Idiopathic Arthritis Reveals Unique Genetic Architecture*
Juniata College (Pennsylvania)
Preceptor: Dr. Michael Ombrello

60-PM. Josh Bennett
*Mechanisms of MYD88 L265P and S222R Activating Mutations in Cells of the Myeloid Lineage*
Eckerd College (Florida)
Preceptor: Dr. Keith Sikora

61-PM. Mary Blake
*Using Phospho-Flow Cytometry in a Pharmokinetic Study*
California State University, Sacramento (California)
Preceptor: Dr. Massimo Gadina

62-PM. Charles Danan
*Essential nuclear functions of the FUBP family of DNA/RNA binding proteins*
Rice University (Texas)
Preceptor: Dr. Markus Hafner

63-PM. Raissa Dantas
*RHIMs of TRIF and HSV-1 R1 Form Amyloid Fibrils*
64-PM. Taylor Farley

*Uncovering the relationship between TL1A and TNF in patients with rheumatoid arthritis*

Colorado State University (Colorado)
Preceptors: Dr. Francoise Meylan, Dr. Richard Siegel

65-PM. Christopher Felicelli

*Characterization of Mutations in the Death Domain of TNFRSF1A in Children with Systemic Juvenile Idiopathic Arthritis*

University of Illinois at Urbana - Champaign (Illinois)
Preceptor: Dr. Michael Ombrello

66-PM. Kathryn Hemstreet

*Interactions between bone sialoprotein and phosphate/pyrophosphate regulators in the mineralization of dentoalveolar structures*

University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Nomin Aomin

67-PM. Jorge Irizarry-Caro

*Neutrophil-mediated mechanisms of drug-induced autoimmunity*

University of Puerto Rico - Mayagüez (Puerto Rico)
Preceptors: Dr. Peter Grayson, Dr. Mariana Kaplan

68-PM. Aleksandra Ivovic

*Detection of Disease Causing Somatic Mutations by Next Generation Sequencing*

University of Washington (Washington)
Preceptors: Dr. Richard Siegel, Dr. Zuoming Deng

69-PM. Meghan Kellett

*Homeostatic balance of DLX3-PKC interplay controls keratinocyte cell cycle, differentiation, and inflammation-related pathways*

Johns Hopkins University (Maryland)
Preceptor: Dr. Maria Morasso

70-PM. Jordan Krebs

*The Systematic Knock-Out of Mediator Subunits*

Lycoming College (Pennsylvania)
Preceptors: Dr. Philippe Kieffer-kwon, Dr. Rafael Casellas

71-PM. Emily Lazowick

*Cell Type-Specific Effects of MHC Class I Allele HLA-B27 in a Transgenic Rat Model for Spondyloarthritis*

Nova Southeastern University (Florida)
Preceptors: Dr. Gerlinde Layh-Schmitt, Dr. Robert Colbert

72-PM. Hannah McFarland

*Exploring RNA Binding Activity of Y Box Binding Protein 1 (YBX1)*

James Madison University (Virginia)
Preceptor: Dr. Markus Hafner
73-PM. Erica Moore
*Genetic ablation of peptidylarginine deiminases protects mice against TLR7-induced systemic autoimmunity*
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Mariana Kaplan

74-PM. Leti Nunez
*A Study of the JAK/STAT Signaling Pathway: Comparing Traditional and Imaging Flow Cytometry*
University of Rochester (New York)
Preceptor: Dr. Massimo Gadina

75-PM. Cassie Parks
*Longitudinal course of disease in a large cohort of Myositis patients with autoantibodies recognizing the signal recognition particle*
Washington University in St. Louis (Missouri)
Preceptors: Dr. Andrew Mammen, Dr. Iago Pinal-Fernandez

76-PM. Andrew Patt
*Targeted Deep Resequencing of Systemic Juvenile Idiopathic Arthritis Candidate Genes Identifies Rare Variant Associations*
State University of New York at Geneseo (New York)
Preceptor: Dr. Michael Ombrello

77-PM. Monica Purmalek
*Innate Immunity, Arterial Inflammation, and Vascular Stiffness in Patients with Systemic Lupus Erythematosus*
University of Pennsylvania (Pennsylvania)
Preceptor: Dr. Mariana Kaplan

78-PM. Nickie Seto
*Lupus high-density lipoprotein induces pro-inflammatory responses in macrophages by binding lectin-like oxidized low-density lipoprotein receptor-1 and failing to promote activating transcription factor 3 activity*
University of Arizona (Arizona)
Preceptor: Dr. Carolyne Smith

79-PM. Jenny Smith
*The Application of ATAC-seq to Murine Keratinocytes in the Elucidation of the Role of DLX3 in Epidermal Differentiation*
Arizona State University (Arizona)
Preceptors: Dr. Maria Morasso, Dr. Kathleen Baysac

80-PM. Zeshan Tariq
*An Nlrc4 mutation associated with systemic hyperinflammation drives spontaneous non-hematopoietic IL-18 hyperproduction*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Scott Canna

81-PM. Stacy Thomas
*Identifying Fas/CD95 non-apoptotic signaling pathways associated with T cell differentiation*
Providence College (Rhode Island)
Preceptor: Dr. Claudia Ouyang
82-PM. Claire Tocheny  
*Inflammatory Disease and Immunodeficiency due to mutation in IκBα*  
College of William & Mary (Virginia)  
Preceptor: Dr. Eric Hanson

83-PM. Michelle Tran  
*3D FISH: A technique to visualize spatial organization of genomic loci in structurally preserved nuclei*  
Virginia Polytechnic Institute and State University (Virginia)  
Preceptors: Dr. Evelyn Ralston, Dr. Dara Wangsa

84-PM. Karinna Vivanco  
*Potential connection between polycomb methyltransferase Ezh2 and the aging process*  
Massachusetts Institute of Technology (Massachusetts)  
Preceptors: Dr. Vittorio Sartorelli, Dr. Aster Juan

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

85-PM. Eric Andrade Alba  
*Optimized Monomeric and Photophysical Properties of a mRuby2 Precursor Red Fluorescent Protein*  
Virginia Polytechnic Institute and State University (Virginia)  
Preceptor: Dr. George Patterson

86-PM. Srikanth Kowtha  
*Applications of Atomic Force Microscopy Imaging and Force Spectroscopy to Quantitative Biology*  
Cornell University (New York)  
Preceptor: Dr. Emilios Dimitriadis

87-PM. Daniel Lichy  
*Blood Contents in Humans Can Be Assessed Without Skin Puncture*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Alexander Gorbach

88-PM. Meera Raghavan  
*The Microfluidic Co-Encapsulation of Primary Oocytes with Granulosa and Theca Cells for Ovarian Follicle Culture*  
University of Utah (Utah)  
Preceptor: Dr. Nicole Morgan

89-PM. Pranay Rao  
*Nailfold Capillaroscopy: A Non-invasive, Quantitative Tool to Assess Microvasculature Function*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Alexander Gorbach

90-PM. Rosalie Siciliano  
*Differences in Superficial Vein Density in the Forearms of Healthy Volunteers and Patients with Sickle Cell Anemia*  
State University of New York at Fredonia (New York)  
Preceptor: Dr. Alexander Gorbach

91-PM. Dhruv Srinivasahcar  
*Optimization of 3D Cancer Cell Culture in a Controlled-Oxygenation Bioreactor*  
University of Pittsburgh (Pennsylvania)
92-PM. Daphne Sun  
*Microfluidic Gradient Generator and Automated Neurite Tracing Algorithm to Investigate the Inhibitory Role of CSPG on Neural Growth*  
Massachusetts Institute of Technology (Massachusetts)  
Preceptor: Dr. Nicole Morgan

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

93-PM. Michal Ad  
*Conjugation of Insulin-Like Growth Factor-I (IGF-I) with Antibody Fragments for Targeting Growth Plate Cartilage*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Julian Lui, Dr. Jeffrey Baron

94-PM. Alessandro Albano  
*Exome Sequencing Analysis in Patients with Isolated GnRH Deficiency*  
St. John Fisher College (New York)  
Preceptor: Dr. Angela Delaney

95-PM. Mehnaz Ali  
*A Population-Based Investigation of Hypoplastic Right Heart Syndrome*  
Mount Holyoke College (Massachusetts)  
Preceptors: Dr. James Mills, Dr. Aggeliki Dimopoulos

96-PM. Megan Bannon  
*Components of the GATOR2 Complex Regulate TORC1 Activity and Lysosome Biogenesis in Drosophila*  
Davidson College (North Carolina)  
Preceptor: Dr. Mary Lilly

97-PM. Yared Bayleyen  
*Behavioral analysis and neural circuitry of a conserved and dynamic search state in larval zebrafish*  
Temple University (Pennsylvania)  
Preceptor: Dr. Harold Burgess

98-PM. Margaret Burns  
*Evidence for reciprocal instructive cues between endothelial cells and osteoblasts during Zebrafish Pectoral Fin development*  
University of Michigan (Michigan)  
Preceptors: Dr. Shlomo Krispin, Dr. Brant Weinstein

99-PM. Nikhita Chahal  
*Impact of Maternal Smoking on Neonatal Markers of Inflammation and Immune Response*  
Cornell University (New York)  
Preceptor: Dr. Edwina Yeung

100-PM. Ellen Chaljub  
*Dietary Vitamin B12 and B6 Intakes and Menstrual Cycle Function in the BioCycle Study*  
George Washington University (District of Columbia)
101-PM. Ashley Charest  
**Effects of Pin1 and Ubiquitin on A-Type Peak Amplitude in Kv4.2 Channels**  
University of Tennessee, Knoxville (Tennessee)  
Preceptor: Dr. Dax Hoffman

102-PM. Nicket Dedhia  
*The MC3R C17A + G241A haplotype is associated with greater obesity and bone mineral density among adults*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Andrew Demidowich, Dr. Jack Yanovski

103-PM. Katherine Dempster  
*Depressive symptoms are cross-sectionally and prospectively associated with unhealthy weight control behaviors in emerging adults*  
Pennsylvania State University (Pennsylvania)  
Preceptors: Dr. Tonja Nansel, Dr. Leah Lipsky

104-PM. Vy Duong  
*Age-Specific Transcriptome Changes May Contribute to Arrhythmia Severity Differences in Cardiac Calsequestrin Mutant Mice*  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Karl Pfeifer

105-PM. Calvin Fang  
*Characterizing vglut3 interneurons in the hippocampus*  
Cornell University (New York)  
Preceptor: Dr. Chris McBain

106-PM. Olivia Farrelly  
*SDF mediated regulation of vascular smooth muscle cell recruitment to arteries during development*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Amber Stratman, Dr. Brant Weinstein

107-PM. Daniel Flores  
*Genetic Evidence That Functional Calsequestrin Is Essential Specifically in Cardiac Pacemaker Cells*  
Montclair State University (New Jersey)  
Preceptor: Dr. Karl Pfeifer

108-PM. Daniel Gehle  
*Characterizing the Unique Obese Phenotypes of the Humanized Melanocortin-3 Receptor Knock-in Mouse Models*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptors: Dr. Joo Yun Jun, Dr. Jack Yanovski

109-PM. Elena Ghanaim, Nicolas Johnson  
*A large-scale RNAi based screen for regulators of TORC1 in the Drosophila Ovary*  
Rutgers University (New Jersey), Morehouse College (Georgia)  
Preceptor: Dr. Mary Lilly

110-PM. Alexander Haddad  
*Subcellular localization of the TRIT1 tRNA modification enzyme provides insight into our mouse model of a human mitochondrial disease*
DePaul University (Illinois)
Preceptors: Dr. Richard Maraia, Dr. Sandy Mattijssen

111-PM. Lauren Henry, Mira Kaufman
Language Development in Children of Clinically Depressed Mothers
University of Richmond (Virginia), Brown University (Rhode Island)
Preceptor: Dr. Charlene Hendricks

112-PM. Don Hoang
Selectively Sticky Fingers: Defining DNA binding specificity of KRAB-ZFP568 with Reporter Assays
University of California, Davis (California)
Preceptors: Dr. Todd Macfarlan, Dr. Peng Yang

113-PM. Daniel Jacobs
Mechanism for Alpha-Synuclein-Induced Mitochondrial Dysfunction in Parkinson’s Pathology
Northwestern University (Illinois)
Preceptor: Dr. Tatiana Rostovtseva

114-PM. Nicolas Johnson, Elena Ghanaim
A large-scale RNAi based screen for regulators of TORC1 in the Drosophila Ovary
Morehouse College (Georgia), Rutgers University (New Jersey)
Preceptor: Dr. Mary Lilly

115-PM. Indra Neal Kar
The Association of Personal Income on Tobacco, Alcohol, and Marijuana Use among Emerging Adults
New York University (New York)
Preceptors: Dr. Denise Haynie, Dr. Bruce Simons-Morton

116-PM. Katrina Koon
Imaging Structure and Composition of Human Placenta
Rutgers University (New Jersey)
Preceptors: Dr. Ed Mertz, Dr. Sergey Leikin

117-PM. Awapuhi Lee
Availability of Park Space from Home and School and Adolescent Depressive Symptoms
Stanford University (California)
Preceptors: Dr. Stephen Gilman, Dr. Rise Goldstein

118-PM. Emily Leff
Hippocampal Pathology in a Niemann-Pick Type C1 Mouse Model
Washington University in St. Louis (Missouri)
Preceptors: Dr. Ian Williams, Dr. Forbes Porter

119-PM. Kaitlin Marquis
Characterizing the Signature of the Human Endometrial Microbiome: How Does This Play into Fertility & Reproductive Disease?
Rochester Institute of Technology (New York)
Preceptor: Dr. Erin Wolff

120-PM. Shannon Marwitz
Longitudinal Assessment of Insulin Sensitivity using the Hyperglycemic Clamp
Washington & Lee University (Virginia)
Preceptor: Dr. Jack Yanovski

121-PM. Rim Mehari
Changes in Heart Rate Variability (HRV) with Eating among Youth With and Without Obesity
Duke University (North Carolina)
Preceptors: Dr. Jack Yanovski, Ms. Rachel Radin

122-PM. Chase Melick
Growth differentiation factor 6 promotes vascular quiescence by maintaining stable endothelial cell adherens junctions
University of California, San Diego (California)
Preceptors: Dr. Shlomo Krispin, Dr. Brant Weinstein

123-PM. Brandi Owens
Absence of Cyclophilin A impairs endochondral bone formation by altering intracellular signaling pathways required for osteoblast maturation
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Joan Marini, Dr. Wayne Cabral

124-PM. Aracely Romero
Mutations to delineate the roles of the AzuC small protein/AzuCR small RNA in carbon utilization
University of Arizona (Arizona)
Preceptors: Dr. Medha Raina, Dr. Gisela Storz

125-PM. Marci Rosenberg
Epithelial cells exhibit filopodial protrusions in response to the passage of a migratory tissue
University of California, Los Angeles (California)
Preceptors: Dr. Damian Dalle Nogare, Dr. Ajay Chitnis

126-PM. Nabil Saleem
The Compensatory Role of Kctd1 in Neural Crest Development
Bates College (Maine)
Preceptors: Dr. Alison Heffer, Dr. Igor Dawid

127-PM. Hira Shabbir
Mutations to identify functions of RyfD small regulatory RNA
University of Florida (Florida)
Preceptors: Dr. Gisela Storz, Dr. Tamira Butler-Likely

128-PM. Emily Slonecker
Who's my little monkey? Effects of infant-directed speech on visual retention on infant rhesus macaques
University of Maryland, College Park (Maryland)
Preceptors: Dr. Annika Paukner, Dr. Elizabeth Simpson

129-PM. Alexandra Smith
The Essential Roles of Nuclear Pore Proteins in Chromosome Segregation
Bard College (New York)
Preceptors: Dr. Mary Dasso, Dr. Vasilisa Aksenova

130-PM. Chandra Swanson
What predicts chronic inflammation in women of reproductive age? A comparison of three cohorts
Duke University (North Carolina)
131-PM. Katherine Thompson  
*Preliminary Validation Data from an Experimental Paradigm Inducing Cognitive Fatigue in Youth*  
George Washington University (District of Columbia)  
Preceptors: Dr. Jack Yanovski, Dr. Nichole Kelly

132-PM. Ira Tigner Jr  
*Assessing Fasting Free Fatty Acid Values in Children and Adolescents*  
Morehouse School of Medicine (Georgia)  
Preceptor: Dr. Jack Yanovski

133-PM. Matthew Tinkham  
*Dissecting the (loss of) function of a rapidly evolving human KRAB-zinc finger protein*  
University of Rhode Island (Rhode Island)  
Preceptor: Dr. Todd Macfarlan

134-PM. Saunam Vij  
*Genetic Studies of RNase H in E. coli*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Michael Cashel, Dr. Robert Crouch

135-PM. David Wilson  
*Characterizing the biochemical role of DnaE2, in damage-induced mutagenesis in Mycobacterium tuberculosis (MTb)*  
Bridgewater State University (Massachusetts)  
Preceptor: Dr. Roger Woodgate

136-PM. Katherine Wolf  
*Eruption of Metastatic Paraganglioma after Successful Therapy with 177Lu-DOTATOC/90Y-DOTATOC*  
University of Michigan (Michigan)  
Preceptor: Dr. Karel Pacak

137-PM. Jasmine Wong  
*Investigating the molecular basis of dominant male sterility associated with X-autosome translocations in D. melanogaster using RNA-seq and cytological analyses*  
Mount Holyoke College (Massachusetts)  
Preceptor: Dr. Jim Kennison

138-PM. Lauren Wooddell  
*Who’s that? Facial Symmetry and Heightened Vigilance in Tufted Capuchins (Sapajus apella)*  
Ohio State University (Ohio)  
Preceptor: Dr. Annika Paukner

National Institute on Drug Abuse (NIDA)

139-PM. Sweta Adhikary  
*Incubation of extinction responding and cue-induced reinstatement, but not context- or drug priming-induced reinstatement, after withdrawal from methamphetamine*  
University of Colorado, Boulder (Colorado)
Preceptors: Ms. Jennifer Bossert, Mr. Yavin Shaham

140-PM. R. Aaron Bola
Robust Brain Hyperglycemia during General Anesthesia: Relationships with Metabolic Brain Inhibition and Vasodilation
University at Buffalo, SUNY (New York)
Preceptor: Dr. Eugene Kiyatkin

141-PM. Randall Ellis
A Bioinformatic Pipeline for the Discovery of Translational Targets in Cocaine Addiction
Florida Atlantic University (Florida)
Preceptor: Dr. Mike Michaelides

142-PM. Julie Factor
Choice between oxycodone and delayed food in rats: Modeling impulsive responding in addiction
Mount Holyoke College (Massachusetts)
Preceptors: Dr. Maria Secci, Dr. Leigh Panlilio

143-PM. Emily Heathward
The OTTC Plasmid Manager: a comprehensive database for archiving plasmid DNA sequence
University College London (Non-U.S.)
Preceptor: Dr. Brandon Harvey

144-PM. Sara Hertzel
Substance Use Coping and Post-traumatic Stress Among Marijuana Users or Opioid and Stimulant Users
Temple University (Pennsylvania)
Preceptors: Dr. Kenzie Preston, Dr. Karran Phillips

145-PM. Chelsea Ho
Evaluation of the effects of atypical DAT inhibitors on compulsive-like methamphetamine intake
University of California, San Diego (California)
Preceptor: Dr. Leandro Vendruscolo

146-PM. Pyry Koivula
Gait Analysis of a Unilateral 6-OHDA Parkinson’s Disease Rat Model
Temple University (Pennsylvania)
Preceptor: Dr. Brandon Harvey

147-PM. Ellen Lesser
Developing techniques for projection-specific in vivo electrophysiological recording
Wesleyan University (Connecticut)
Preceptors: Dr. Yavin Shaham, Dr. Donna Calu

148-PM. Allison Matous
Resting connectivity in insular sub regions is differentially modulated by nicotine abstinence
College of the Holy Cross (Massachusetts)
Preceptor: Dr. Elliot Stein

149-PM. Michael Mendoza
Fos-Expressing Neuronal Ensembles Associated with Extinction of Cocaine Seeking
University of Wisconsin (Wisconsin)
Preceptors: Dr. Bruce Hope, Dr. Brandon Warren

150-PM. Julie Necarsulmer
Generation and characterization of a novel transgenic glutamic acid decarboxylase (GAD-iCre) rat line
Pomona College (California)
Preceptor: Dr. Brandon Harvey

151-PM. Sissi Palma Ribeiro
Synaptic Plasticity of Dopamine Neurons Shapes Fear Learning
Queens College (New York)
Preceptors: Dr. Marco Pignatelli, Dr. Antonello Bonci

152-PM. Elie Pommier
Evaluation of Drug Metabolism, Pharmacokinetics, and Pharmacodynamics of Novel Modafinil Analogues
McGill University (Non-U.S.)
Preceptors: Dr. Amy Newman, Dr. Rana Rais

153-PM. Lionel Rodriguez
Zinc Localization and Binding in the Rodent Brain
Yale University (Connecticut)
Preceptors: Dr. Michael Michaelides, Dr. Juan Gomez

154-PM. Frank Soto Del Valle
Characterization of Fos-expressing neuronal ensembles in rat prefrontal cortex and nucleus accumbens following context-induced reinstatement of cocaine seeking
University of Puerto Rico - Cayey (Puerto Rico)
Preceptors: Dr. Bruce Hope, Dr. Brandon Warren

155-PM. Aleksandr Talishinsky
Role of the Diagonal Band of Broca in Memory Consolidation and the Hindbrain Median Raphe Circuit
University of Southern California (California)
Preceptor: Dr. Dong Wang

156-PM. Ndeah Terry
Footshock-Induced Abstinence in Methamphetamine Self-Administering Rats: Molecular Consequences in the Dorsal Striatum
William Paterson University (New Jersey)
Preceptors: Dr. Jean Lud Cadet, Dr. Irina Krasnova

157-PM. Hannah Weiss
Neural Correlates of Dissociation and Substance Use
Bates College (Maine)
Preceptors: Dr. Elise Lesage, Dr. Elliot Stein

158-PM. Xiaokang Yan
Small molecule modulators of ER Calcium
University of Maryland, College Park (Maryland)
Preceptors: Dr. Mark Henderson, Dr. Brandon Harvey

159-PM. Michelle Zhang
Role of the dorsal striatum in regulating incubation of methamphetamine craving after voluntary abstinence
Vassar College (New York)
National Institute on Deafness and Other Communication Disorders (NIDCD)

160-PM. Joan Guitart
Application of Genome Editing to the Mouse Inner Ear  
Northwestern University (Illinois)  
Preceptor: Dr. Wade Chien

161-PM. Jenny He
Characterizing Afferent and Efferent Activity at the Zebrafish Hair Cell Ribbon Synapse  
Pomona College (California)  
Preceptor: Dr. Katie Kindt

162-PM. Xiaoyi Li
Characterization of the Inner Ear of the Transgenic Doublecortin Mouse Model  
University of Rochester (New York)  
Preceptor: Dr. Michael Hoa

163-PM. Stephen McInturff
Differentiation of Utricular Hair Cell Sub-Types Follows a Distinct Spatiotemporal Pattern  
College of William and Mary (Virginia)  
Preceptors: Dr. Joe Burns, Dr. Matthew Kelley

164-PM. Amy Northrop
Identification of Inner and Outer Hair Cell-Specific Genes in Mammalian Cochlear Development  
Randolph-Macon College (Virginia)  
Preceptors: Dr. Elizabeth Driver, Dr. Matthew Kelley

165-PM. Alexis Oguh
Mutations of CLPP, encoding a mitochondrial ATP-dependent chambered protease, cause deafness in mouse and man  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Thomas Friedman

166-PM. Jessica Root
Identifying the Origins of Mutations Repeatedly Found in Stuttering  
Emory University (Georgia)  
Preceptors: Dr. Dennis Drayna, Dr. M. Hashim Raza

167-PM. Aaron Rusheen
Characterization of Cisplatin Ototoxicity and Clearance in Mice  
University of Rochester (New York)  
Preceptor: Dr. Lisa Cunningham

168-PM. Daniel Sutton
Taperin, Encoded by Deafness Gene TPRN, Has Three Motifs that Interact with Chloride Intracellular Channel (CLIC) Proteins  
Mount Olive College (North Carolina)  
Preceptors: Dr. Thomas Friedman, Dr. Melanie Barzik
169-PM. Elizabeth Thomason  
*Noncoding Mutations of HGF Cause Human Deafness DFNB39: Corroboration by Mouse Model*
College of William & Mary (Virginia)  
Preceptor: Dr. Robert Morell

170-PM. Mike Waltman  
*The effect of Non-Neuronal SNAREs on Synaptic Transmission in Zebrafish Hair Cells*
Macalester College (Minnesota)  
Preceptor: Dr. Katie Kindt

National Institute of Dental and Craniofacial Research (NIDCR)

171-PM. Lauren Bonilla  
*Understanding sensory systems through single cell transcriptomics*
Barnard College (New York)  
Preceptor: Dr. Nicholas Ryba

172-PM. Gloria Calderon  
*Periodontitis Is a Chronic Inflammatory Disease that Progresses with Ageing*
University of New Orleans (Louisiana)  
Preceptors: Dr. Nicolas Dutzan, Dr. Niki Moutsopoulos

173-PM. Ashley Canada  
*Investigating the effect of neurturin gene therapy on pig salivary glands*
Howard University (District of Columbia)  
Preceptors: Dr. Matthew Hoffman, Dr. Vaishali Patel

174-PM. Sooji Choi  
*Dental Abnormalities Associated with DICER1 Syndrome*
Duke University (North Carolina)  
Preceptors: Dr. Janice Lee, Dr. Douglas Stewart

175-PM. Alvin George  
*Electrolyte Composition of Submandibular and Sublingual Salivas: Role of the S1c26a6 Anion Exchanger*
University of Illinois at Chicago (Illinois)  
Preceptor: Dr. James Melvin

176-PM. Mohammad Hadavand  
*Identification of MicroRNA Predictive of Outcome in Lupus Nephritis*
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Ilias Alevizos, Dr. Sarfaraz Hasni

177-PM. Olivia Harding  
*Characterization of Mitochondrial Dynamics In Vivo Reveals Distinct Mitochondrial Sub-Populations*
College of William & Mary (Virginia)  
Preceptor: Dr. Natalie Porat-Shliom

178-PM. Kayla Muirhead  
*Investigating the synthesis, packaging and secretion of O-glycosylated proteins*
Dickinson College (Pennsylvania)
179-PM. Megan Noonan
*The Potential Role of Biglycan in the Periosteum during Fracture Healing*
Georgetown University (District of Columbia)
Preceptor: Dr. Marian Young

180-PM. Maria Oei
*Transcriptomic and Functional Analyses Reveal the Ion Transport Pathways Related to Physiological Differences in the Three Major Murine Salivary Glands*
University of Maryland, College Park (Maryland)
Preceptor: Dr. James Melvin

181-PM. Andrew Pak
*Analysis of MT1-MMP Function in Mature Bone Cells during Resolution of Standardized Bone Defects*
Davidson College (North Carolina)
Preceptors: Dr. Kenn Holmbeck, Dr. Pamela Robey

182-PM. Dallas Pineda
*Investigating the role of heparan sulfate 3-O-sulfation in salivary gland development*
University of Missouri (Missouri)
Preceptors: Dr. Matthew Hoffman, Dr. Vaishali Patel

183-PM. Sheena Sikka
*Analysis of WISP1 Function in Subchondral Bone during Experimental Osteoarthritis*
New York University (New York)
Preceptor: Dr. Marian Young

184-PM. David Spencer
*A Genome-Wide Screen for Regulators of the Urokinase Plasminogen Activator System*
University of Missouri (Missouri)
Preceptor: Dr. Thomas Bugge

185-PM. Derrick Villier
*Investigating the function of the neurotrophic factor Neurturin in adult salivary glands.*
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Matthew Hoffman, Dr. Belinda Hauser

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

186-PM. Paola Aldana
*Racial Differences in Early GIP Contribute to Postprandial Hyperinsulinemia in Black Women: The Federal Women Study*
Georgetown University (District of Columbia)
Preceptors: Dr. Stephanie Chung, Dr. Anne Sumner

187-PM. Jhullian Alston
*How Sweet Are C. elegans?: Defining the C. elegans O-GlcNAcome*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. John Hanover, Dr. Michelle Bond
188-PM. Alison Baskin  
*Activation of Human BAT by a Beta 3- Adrenergic Receptor Agonist Demonstrates a Dose-Dependent Response*  
Stanford University (California)  
Preceptors: Dr. Aaron Cypess, Dr. Kong Chen

189-PM. Brianna Bingham  
*Younger Age of Immigration Mitigates Allostatic Load in Africans*  
Howard University (District of Columbia)  
Preceptor: Dr. Anne Sumner

190-PM. Seth Cordts  
*Do Cancer Cells Resurrect Germline Specific Guardians of Genomic Integrity?*  
Carnegie Mellon University (Pennsylvania)  
Preceptors: Dr. Astrid Haase, Dr. Pavol Genzor

191-PM. Courtney Duckworth  
*Is it cold in here or is it just me? Brown adipose tissue activity as a potential predictor of thermal comfort in young, healthy men*  
College of William and Mary (Virginia)  
Preceptor: Dr. Kong Chen

192-PM. Michelle Duong  
*Glycated Albumin Improves Detection of Pre-Diabetes in the Non-Obese: The Africans in America Study*  
Cornell University (New York)  
Preceptor: Dr. Anne Sumner

193-PM. Erin Fothergill  
*Persistent Metabolic Adaptation and Weight Regain 6 Years After The Biggest Loser*  
College of William and Mary (Virginia)  
Preceptor: Dr. Kevin Hall

194-PM. Samuel Funderburk  
*Manipulations of hypothalamic melanocortin circuitry produce lasting changes in body weight*  
Washington University in St. Louis (Missouri)  
Preceptors: Dr. Chia Li, Dr. Michael Krashes

195-PM. Allison Genis  
*Potential impacts of Gnb5 missense mutations on protein structure and function in neurological disorders*  
Colorado State University (Colorado)  
Preceptor: Dr. Jianhua Zhang

196-PM. Tyler Hansen, Aditi Chandra  
*Modeling Craniofacial Diseases in C. elegans*  
University of Wisconsin (Wisconsin), Pitzer College (California)  
Preceptor: Dr. Andy Golden

197-PM. Ryan Hobbs  
*Localization of Polycystin-1 C-terminus*  
Morehouse College (Georgia)
Preceptors: Dr. Cheng Chao Lin, Dr. Luis Menezes

198-PM. Derek Le
*Characterization of In Vitro Resistance to Novel Hepatitis C Virus Inhibitor Chlorcyclizine*
University of California, Los Angeles (California)
Preceptors: Dr. Zongyi Hu, Dr. Jake Liang

199-PM. Regina Lee
*β-arrestin-2 is essential for the proper function of pancreatic β-cells*
Vanderbilt University (Tennessee)
Preceptors: Dr. Jurgen Wess, Dr. Lu Zhu

200-PM. Brooks Leitner
*Challenges and Advances in Human Brown Adipose Tissue Quantification with 18FDG PET-CT*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Kong Chen

201-PM. Julia Licholai, Katrina Nguyen
*Wireless Feeding Experimentation Device (FED) to monitor home cage feeding behavior in rodents*
University of Washington (Washington), George Mason University (Virginia)
Preceptor: Dr. Alexxai Kravitz

202-PM. Tanisha London
*Investigation of behaviors predictive of weight gain and compulsive behavior in mice exposed to a junk food diet*
Spelman College (Georgia)
Preceptors: Dr. Kimberly LeBlanc, Dr. Alexxai Kravitz

203-PM. Brianna Lowey
*Identification of let-7a as a host restriction factor for hepatitis C virus through a genome-wide microRNA functional screen*
Haverford College (Pennsylvania)
Preceptors: Dr. T. Jake Liang, Dr. Qisheng Li

204-PM. Cristina Meehan
*Responses to Metreleptin in Pediatric Patients with Lipodystrophy*
University of Richmond (Virginia)
Preceptor: Dr. Rebecca Brown

205-PM. Matthew Miller
*An enhancer-derived long non-coding RNA regulates MYB gene expression*
Grinnell College (Iowa)
Preceptors: Dr. Ivan Krivega, Dr. Ann Dean

206-PM. Lukasz Olenginski
*Investigating the roles of inner nuclear membrane proteins during mitosis*
Franklin and Marshall College (Pennsylvania)
Preceptors: Dr. Peggy Hsieh, Dr. Chunwei Du

207-PM. Timothy O'Neal
*Dopaminergic control of motivation and cognitive flexibility in a water T-maze*
Knox College (Illinois)
Preceptors: Dr. Danielle Friend, Dr. Alexxai Kravitz

208-PM. Brandon Podyma  
*MC4R Deficiency in the Dorsomedial Nucleus of the Hypothalamus Leads to Obesity and Insulin Resistant Diabetes*  
University of Rochester (New York)  
Preceptors: Dr. Lee Weinstein, Dr. Min Chen

209-PM. Katlin Power  
*The Overproduction of Phospholipids in Budding Yeast leads to the Abnormal Aggregation of Mitochondria*  
Ursinus College (Pennsylvania)  
Preceptor: Dr. Orna Cohen-Fix

210-PM. Kameron Rodrigues  
*Analyzing Type 1 Interferon Signaling in Non-Obese Diabetic Mice*  
University of Arizona (Arizona)  
Preceptor: Dr. Kristin Tarbell

211-PM. Soyeon Showman  
*In Search of the Molecular Role of Zucchini in piRNA Biogenesis*  
George Mason University (Virginia)  
Preceptor: Dr. Astrid Haase

212-PM. Chad Stein  
*Dissecting the 5’ nucleotide bias of piRNAs*  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Astrid Haase

213-PM. Daniel Suarez  
*Role of Pre-C/BCP mutations in subjects with chronic HBeAg negative disease and hepatitis flares*  
George Mason University (Virginia)  
Preceptor: Dr. Marc Ghany

214-PM. Ayesha Sundaram  
*Expression, Purification, and Screening of Mitochondrial Sorting and Assembly Machinery (SAM) Complex Beta-barrel Core*  
University of Massachusetts, Amherst (Massachusetts)  
Preceptors: Dr. Sarah Rollauer, Dr. Susan Buchanan

215-PM. Elizabeth Townsend  
*Microbial Translocation in the Context of Hepatitis Delta Infection*  
St. Olaf College (Minnesota)  
Preceptor: Dr. Theo Heller

216-PM. John Tracey  
*Investigating Interactions between the B. pertussis Response Regulator BvgA and RNA Polymerase using Cross-Linking and Mass Spectrometry*  
Fordham University (New York)  
Preceptors: Dr. Kyung Moon, Dr. Deborah Hinton

217-PM. Areli Valencia  
*Effects of Metreleptin on Glucose Metabolism Independent of Food Intake*  
Williams College (Massachusetts)
Preceptor: Dr. Rebecca Brown

218-PM. Katherine Valles
Elevated FGF-21 Serum Levels in NAFLD Do Not Improve with Successful Therapy - Ineffective Biomarker of Treatment Response
Fordham University (New York)
Preceptor: Dr. Yaron Rotman

219-PM. Gino Warnick
Structure-based in silico screening of uncharted chemical space for atypical adenosine receptor agonists
Lafayette College (Pennsylvania)
Preceptor: Dr. Kenneth Jacobson

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

221-PM. Pauline Xu
A Comparison of Human and Baboon Hemoglobins Using Cation Exchange High-Performance Liquid Chromatography
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Jeffery Miller, Mr. Y. Lee

222-PM. Tammy Ying
Mutations outside of prion domain disrupt [URE3] propagation
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Daniel Masison

National Institute of Environmental Health Sciences (NIEHS)

223-PM. David Banks
Lysophosphatidic Acid Rapidly and Reversibly Signals to Tank P-Glycoprotein Activity at the Blood-Brain Barrier
University of North Carolina at Greensboro (North Carolina)
Preceptors: Dr. Ronald Cannon, Dr. David Miller

224-PM. Christopher Crowl
Uncovering Significant Cigarette Smoking Responsive DNA Methylation Changes in Monocytes and Saliva within an AHRR Enhancer Using Bisulfite Amplicon Sequencing
University of North Carolina at Chapel Hill (North Carolina)
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