Posters are located in the Outer Lobby, Atrium, Lower Level Lobby, and Conference Rooms A/B, C, E1/E2, and G as indicated above. You may store your poster in Room D.

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

Postbaccalaureate Poster Day 2019 is organized by the Office of Intramural Training & Education, National Institutes of Health.
# NIH Postbaccalaureate Poster Day 2019

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### Other Poster Day Activities

- **Reflection Room**
  - Share your thoughts on your time at NIH – write, draw, or doodle
  - 9:00 AM – 3:00 PM • Room F

- **Mindfulness Meditation**
  - Relax before presenting your poster
  - 9:10 – 9:25 AM or 10:30 – 10:45 AM
  - Room J

- **Photo Booth**
  - Need a personal photo for LinkedIn?
  - 10:30 – 11:30 AM or 2:00 – 2:30 PM
  - Room H

**Note:** The complete program for Postbac Poster Day 2019, including poster titles, can be found at [https://www.training.nih.gov/assets/2019_Postbac_Poster_Day_Program.pdf](https://www.training.nih.gov/assets/2019_Postbac_Poster_Day_Program.pdf).
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Preceptor: Dr. Natalia Martinez

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Preceptor: Dr. Dingyin Tao, Dr. Chris LeClair

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17-AM. Michael Ronzetti
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National Center for Complementary and Integrative Health (NCCIH)

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Preceptor: Dr. Yarimar Carrasquillo

22-AM. Carolyn Amir
*Do Perceptions of Healthcare Providers Affect Pain Expectations?*
Boston University (Massachusetts)
Preceptor: Dr. Elizabeth Necka, Dr. Lauren Atlas

23-AM. Maria Anaya
*Multiplex Gene Editing Using Self-cleaving Ribozyme gRNAs*
Stony Brook University (New York)
Preceptor: Dr. Alexander Chesler, Dr. Nick Ryba
24-AM. Jordan Becker  
*Modulation of Inflammatory Pain in the Central Amygdala*  
University of Idaho (Idaho)  
Preceptor: Dr. Yarimar Carrasquillo

25-AM. Megan Bradson  
*Effect of Naloxone on Touch Intensity and Pleasantness*  
Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Laura Case, Dr. M. Bushnell

26-AM. Eunice Chung  
*Invoking Endogenous Pain Inhibition with Noxious Hot versus Cold Water: A Comparison of Conditioned Pain Modulation Paradigms*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Eleni Frangos, Dr. Mary Bushnell

27-AM. Olga Oretsky  
*Do Gender Role-based Expectations of Pain Influence Responses to Noxious Stimulation?*  
University of Pennsylvania (Pennsylvania)  
Preceptor: Mr. Troy Dildine, Dr. Lauren Atlas

28-AM. Margaret Rose-McCandlish  
*Subjective Sensitivity to Multimodal Aversive Stimuli*  
Middlebury College (Vermont)  
Preceptor: Dr. Inseon Lee, Dr. Lauren Atlas

29-AM. Matthew Seltzer  
*A Parabrachial Circuit for a Pain Response*  
St. Mary’s College of Maryland (Maryland)  
Preceptor: Dr. Arnab Barik, Dr. Alexander Chesler

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

30-AM. Elizabeth Aliberti  
*Investigating the Role of Ago2 in Regulating Myogenesis*  
Binghamton University (New York)  
Preceptor: Dr. Aster Juan
31-AM. Alexis Bailey  
*Gene-specific RNA-seq Identifies Two Genetic Lesions Underlying PLCG2-associated Antibody Deficiency and Immune Dysregulation*  
William Woods University (Missouri)  
Preceptor: Dr. Michael Ombrello

32-AM. Sufia Bakshi  
*MyD88 S209R Mutation Enhances Inflammation in Murine Models of Arthritis*  
Case Western Reserve University (Ohio)  
Preceptor: Dr. Keith Sikora

33-AM. Briana Cervantes  
*Barriers to Care in a Clinical Research Setting*  
Florida International University (Florida)  
Preceptor: Dr. James Katz

34-AM. Marquis Chapman  
*Pilot Study Characterizing Aerobic Exercise in Women with Systemic Lupus Erythematosus*  
Nova Southeastern University (Florida)  
Preceptor: Dr. Sarfaraz Hasni

35-AM. Loren Collado  
*Mosaicism: What We Learn from Linear Dermatoses*  
Union College (New York)  
Preceptor: Dr. Isaac Brownell

36-AM. Michael Cross  
*Epigenetic Modules Governing Skin Epidermal Homeostasis*  
University of Rochester (New York)  
Preceptor: Dr. Maria Morasso, Dr. Subhashree Nayak

37-AM. Joseph Ephrem  
*Cryo-EM of the HIV-1 Capsid Protein to Understand the Effects of Drugs and Mutations*  
University of Virginia (Virginia)  
Preceptor: Dr. Jacobus Heymann

38-AM. Katherine Gribbons  
*Clinical Subsets in Giant Cell Arteritis*  
Boston College (Massachusetts)  
Preceptor: Dr. Peter Grayson

39-AM. Alexis Jacob  
*Germline Specific RNA Binding Proteins*  
Georgia Institute of Technology (Georgia)
Preceptor: Dr. Markus Hafner

40-AM. Francesca LiCausi  
*The Role of Mechanical Stress on Bone Formation in Experimental Spondyloarthritis*  
Stockton University (New Jersey)  
Preceptor: Dr. Robert Colbert, Dr. Fatemeh Navid

41-AM. Anders Lindstedt  
*MYD88 Gain-of-function Mutation Enhances Osteoclast and Osteoblast Activity*  
University of Wisconsin-Madison (Wisconsin)  
Preceptor: Dr. Keith Sikora, Dr. Robert Colbert

42-AM. Michelle Ma  
*BSP: The Role of the RGD Domain During Development and Remodeling of the Periodontium*  
Cornell University (New York)  
Preceptor: Dr. Karin Nagasaki

43-AM. Spencer Mehdizadeh  
*DLX3-dependent Signaling Pathways and Regulatory Networks Are Important for Maintaining Epidermal Homeostasis*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Deepti Bajpai, Dr. Maria Morasso

44-AM. Joel Rosenblum  
*Sequential FDG-PET Imaging in Large-vessel Vasculitis Demonstrates the Benefit of Delayed Imaging*  
Tulane University (Louisiana)  
Preceptor: Dr. Peter Grayson

45-AM. Isaiah Rozich  
*The Contribution of Interleukin-18 to the Development and Maturation of Murine Natural Killer Cells*  
University of Wisconsin-Madison (Wisconsin)  
Preceptor: Dr. John O'Shea, Dr. Kelly Hudspeth

46-AM. Danielle Rubin  
*Rare Variant Discovery in Systemic Juvenile Idiopathic Arthritis: Associations with Known Autoinflammatory Disease and Hemophagocytic Lymphohistiocytosis Genes*  
University of Chicago (Illinois)  
Preceptor: Dr. Michael Ombrello

47-AM. Ayla Safran  
*The Combination of Autoantibodies, HLA and Inferred Peptides Defines Scleroderma Subtypes and Suggests a Role for Molecular Mimicry*
Mount Holyoke College (Massachusetts)
Preceptor: Dr. Pravitt Gourh

48-AM. Nicole Schwardt  
*Shifts in the Skin Bacterial and Fungal Microbiomes of Healthy Children during Puberty*
Cornell University (New York)  
Preceptor: Dr. Heidi Kong

49-AM. Sadie Signorella  
*The Role of CTCF in Cytokine Gene Expression*
Dickinson College (Pennsylvania)  
Preceptor: Dr. Han-Yu Shih, Dr. John O'Shea

50-AM. Jay Swayambunathan  
*The Pronounced Impact of Hip Fractures on Psychosocial Wellbeing: A Longitudinal Study*
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Timothy Bhattacharyya

51-AM. Wongelawit Tadesse  
*Loss of ANK and ENPP1, Regulators of PPI/Pi, Promote Cementogenesis*
College of William and Mary (Virginia)  
Preceptor: Dr. Atsuhiro Nagasaki

52-AM. Tammy Vo  
*Overlapping and Non-redundant Functions of Pyrophosphate Regulators, ANK and ENPP1, in Cementogenesis*
College of William and Mary (Virginia)  
Preceptor: Dr. Emily Chu

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**National Institute of Biomedical Imaging and Bioengineering (NIBIB)**

53-AM. Kwame Appiagyei-Opoku  
*Fast and Reversible Photoswitching in RsTagRFP Mutants*
Bowie State University (Maryland)  
Preceptor: Dr. George Patterson, Dr. Kimberly Jacoby-Morris

54-AM. Nathan Arnett  
*Novel Nailfold Video Capillaroscopy Parameters for Monitoring Juvenile and Adult Dermatomyositis*
Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Adam Schiffenbauer
55-AM. Saurin Kantesaria, David Grosh  
*Direct Imaging of Intracellular Oxygen and Metabolic Activity in 3D*  
University of North Carolina at Chapel Hill (North Carolina), Case Western Reserve University (Ohio)  
Preceptors: Dr. Nicole Morgan, Dr. Michael Gottesman

56-AM. Kenny Ling  
*Structural Analysis of Mouse Thrombi Using Serial Block Face Scanning Electron Microscopy*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Maria Aronova

57-AM. Yajnesh Vedanaparti  
*3D Visualization of VAMP8 Knockout Mouse Thrombus Using Serial Block Face Scanning Electron Microscopy*  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Maria Aronova

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

58-AM. Aparna Ajjarapu  
*Nut Consumption and Renal Function Among Women at High Risk*  
University of Iowa (Iowa)  
Preceptor: Dr. Cuilin Zhang, Dr. Stefanie Hinkle

59-AM. Abhay Aradhya  
*Characterization of Random Mono-allelic Expression in Zebrafish*  
Widener University (Pennsylvania)  
Preceptor: Dr. Karl Pfeifer

60-AM. Marilyn Barragan  
*Transforming Growth Factor-β Signaling in Dominant and Recessive Forms of Osteogenesis Imperfecta*  
University of Kansas (Kansas)  
Preceptor: Dr. Joan Marini

61-AM. Jillian Belgrad  
*Possible Involvement of Myelinating Glia in Hereditary Paralytic Disorder*  
Colgate University (New York)  
Preceptor: Dr. R. Douglas Fields
62-AM. Grace Betts  
*Mental Health and Sleep Quality Are Associated with Self-reported Food Reward Sensitivity during Pregnancy*  
University of Michigan (Michigan)  
Preceptor: Dr. Leah Lipsky, Dr. Tonja Nansel

63-AM. Sophie Bice  
*Identification of Novel Aging Genes in Drosophila melanogaster Using RNAi and Overexpression Screens*  
Lawrence University (Wisconsin)  
Preceptor: Dr. Mary Dasso, Dr. Karen Plevock Haase

64-AM. Jancarlos Camacho  
*Neonatal Severe Primary Hyperparathyroidism (NSPHT): Biochemical Differences between Homozygous and Heterozygous Mutations*  
Stockton University (New Jersey)  
Preceptor: Dr. Stephen Marx, Dr. Mari Suzuki

65-AM. Sydney Casey  
*Dynamin 1-Inactivation May Contribute to Progressive Decline in Synaptic Vesicle Pool Size in Cln1 Knockout Mice*  
Mount Holyoke College (Massachusetts)  
Preceptor: Dr. Anil Mukherjee, Dr. Maria Bagh

66-AM. Catherine Chang  
*Testing the Hypothesis That Influenza virus Enters cells by Manipulating Membrane Curvature*  
University of Washington (Washington)  
Preceptor: Dr. Paul Blank, Dr. Joshua Zimmerberg

67-AM. Marie Cronin  
*ErbB4 Knock-Out Mice Demonstrate Behavioral Deficits Associated with Extracellular Dopamine Disbalance in the Brain*  
College of the Holy Cross (Massachusetts)  
Preceptor: Dr. Andres Buonanno

68-AM. Joy Cui  
*Event-related Potential (ERP) Correlates of the Action Observation Network in Adults*  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Hadis Dashtestani, Dr. Amir Gandjbakhche

69-AM. Reilly Curtin  
*Microtubule Polymerization Is Promoted by Organic Osmolytes in Otherwise Unfavorable Conditions*  
University of Massachusetts at Amherst (Massachusetts)
Preceptor: Dr. Dan Sackett

70-AM. Niko Darby
Are Arm5 Somatic Mutations Responsible for Hypercorticosteronism Observed in 18-month old Arm5 (+/-) mice?
Sewanee: University of the South (Tennessee)
Preceptor: Dr. Annabel Berthon

71-AM. Lucas Djavaherian
Synaptic Vesicles and Lysosomes Use Distinct Machinery for Axonal Transport
Georgetown University (District of Columbia)
Preceptor: Dr. Raffaella De Pace

72-AM. Caroline Donahue
Selectively Modulating the DLK Pathway Enhances Motor Function in an ALS Mouse Model
Fordham University (New York)
Preceptor: Dr. Claire Le Pichon

73-AM. Angelique Ealy
Identifying Host Factors Involved in Gap Repair during Retrotransposition
Bowie State University (Maryland)
Preceptor: Dr. Henry Levin, Dr. Feng Li

74-AM. Ariel Eraso
Couples Counseling: A CRISPR Genome-wide Screen to Elucidate Genes Helping SOX2 and Its Enhancer Stay Together Despite Being So Far Apart
Franklin & Marshall College (Pennsylvania)
Preceptor: Dr. Pedro Rocha

75-AM. Mason Fellmeth
Maternal Immune Activation as a Gender Specific Environmental Modifier of Niemann-Pick Type C1 Disease
University of Minnesota - Twin Cities (Minnesota)
Preceptor: Dr. Antony Cougnoux

76-AM. Alexandra Fister
The microRNA-204/NFATC1 Axis Controls Developmental Lymphangiogenesis in Zebrafish
Purdue University (Indiana)
Preceptor: Dr. Brant Weinstein, Dr. Hyun Min Jung

77-AM. Sarah Frail
How to Be the Cell Gata6 Wants You to Be: Genetic and Epigenetic Mechanisms Governing Early Mammalian Development
University of Maryland, College Park (Maryland)
Preceptor: Dr. Pedro Rocha

78-AM. Natalie Gehred  
*Inter-domain Transcriptional Activation Requires PRE Sequence Homology*  
Washington University in St. Louis (Missouri)  
Preceptor: Dr. Judith Kassis

79-AM. Ryan Gober  
*A Newly Identified Mutant Helps to Characterize the Potential Function of Vascular-associated Meningeal Cells*  
University of Miami (Florida)  
Preceptor: Dr. Marina Venero-Galanternik

80-AM. Melissa Gonzales  
*Imaging Tumor Thrombus of Pheochromocytoma and Paraganglioma: 18F-FDG PET/CT or 68Ga-DOTATATE PET/CT?*  
Bucknell University (Pennsylvania)  
Preceptor: Dr. Karel Pacak

81-AM. Dylan Hammond  
*M1V-Predictive of a Mild Biochemical Phenotype in Smith Lemli Opitz Syndrome*  
Howard University (District of Columbia)  
Preceptor: Dr. Simona Bianconi, Dr. Forbes Porter

82-AM. J. Douglas Harrison  
*The Relationship between Cardiovascular Activity and Functional Near-infrared Spectroscopy Measurement of Prefrontal Hemodynamics*  
George Washington University (District of Columbia)  
Preceptor: Dr. Amir Gandjbakhche, Dr. Emma Condy

83-AM. Merrick Hayashi  
*Multiplex Electrophoresis: How to Run Fifty Samples on One Mini Ggel*  
Baylor University (Texas)  
Preceptor: Dr. Dan Sackett

84-AM. Victoria Heigh  
*Classifying Autism Spectrum Disorder Candidate Genes*  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Tripti Gupta, Dr. Harold Burgess

85-AM. Maria Isaac  
*At The End Of The Brainbow: Dissecting The Connectivity Of Chandelier Cells*  
Robert Wood Johnson (New Jersey)  
Preceptor: Dr. Timothy Petros, Dr. Yajun Zhang
86-AM. Jacob Jeffers  
_Socioeconomic Disparities in the Developmental Origins of All-cause Mortality_  
Whitman College (Washington)  
Preceptor: Dr. Stephen Gilman

87-AM. Kathryn Johnston  
_A Multiplex Gene Silencing Approach to Determine the Role of the Second Messenger cyclic-di-GMP for Legionella Virulence_  
California State University Bakersfield (California)  
Preceptor: Dr. Matthias Machner

88-AM. Jenna Kanner  
_Ambient Temperature and Acute Risk of Stillbirth_  
University of Wisconsin, Madison (Wisconsin)  
Preceptor: Dr. Pauline Mendola, Dr. Andrew Williams

89-AM. Ross Kaufhold  
_Poring Over the Nuclear Pore Complex: Investigating Individual Nucleoporin Function Using a Rapid Degradation System_  
Case Western Reserve University (Ohio)  
Preceptor: Dr. Saroj Regmi, Dr. Mary Dasso

90-AM. Mandy Lai  
_Viral Overexpression of NPTX2 to Rescue Circuit Pathology Associated with Alzheimer’s Disease_  
University of California, San Diego (California)  
Preceptor: Dr. Chris McBain, Dr. Ramesh Chittajallu

91-AM. Mitchell Lee  
_Host-mediated Allosteric Activation of a Virulence-promoting Kinase Secreted by the Pathogen Legionella pneumophila_  
Duke University (North Carolina)  
Preceptor: Dr. Pei-Chung Lee, Dr. Matthias Machner

92-AM. Anna Lyons  
_Characterization of NPC1 Neuronally-derived Exosomes_  
University of Notre Dame (Indiana)  
Preceptor: Dr. Niamh Cawley, Dr. Forbes Porter

93-AM. Katherine Maultsby  
_Direct and Indirect Effects of Adolescent Sleep on Young Adult Health Outcomes_  
Davidson College (North Carolina)  
Preceptor: Dr. Denise Haynie, Dr. Bruce Simons-Morton
94-AM. Brooke Meader
*Whole Gene Deletions of MKRN3 Cause Idiopathic Central Precocious Puberty*
St. John Fisher College (New York)
Preceptor: Dr. Angela Delaney

95-AM. John Millerhagen
*Using Functional Near Infrared Spectroscopy in Understanding the Developing Action/Observation Network: Review and Further Research*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Amir Gandjbakhche, Dr. Helga De Oliveira Miguel

96-AM. Jacob Noeker
*Investigating the Role of H19 Imprinting in the Heart*
College of Idaho (Idaho)
Preceptor: Dr. Karl Pfeifer

97-AM. Constandina O'Connell
*Characterization of Autophagy Control Identifies a Novel Selective Anti-cancer Therapy*
Case Western Reserve University (Ohio)
Preceptor: Dr. Melvin DePamphilis, Dr. Alex Vassilev

98-AM. Richard Pan
*Transcription Factor Irf8 Shapes Microglia Identity*
Vanderbilt University (Tennessee)
Preceptor: Dr. Keiko Ozato

99-AM. Areg Peltekian
*Aberrant Circuit-wide Differential Gene Expression Resulting from Developmental NMDA Receptor Ablation in GABAergic Interneurons*
University of California, San Diego (California)
Preceptor: Dr. Chris McBain, Dr. Vivek Mahadevan

100-AM. Sarah Rubin
*Associations between Weight-based Teasing and Disordered Eating Behaviors among Youth*
University of Washington (Washington)
Preceptor: Dr. Jack Yanovski, Dr. Natasha Schvey

101-AM. Rima Sakhawala
*Development of a NanoLuciferase Reporter System to Study C11 Function in Transcription Termination in S. pombe*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Richard Maraia
102-AM. LauraAnn Schmidberger
The Role of Autism-linked Genes on Neuronal Chromatin Structure
Denison University (Ohio)
Preceptor: Dr. Harold Burgess, Dr. David Clark

103-AM. Wesley Schnapp
Regulation of the Mitochondria-Dynein Linkage in Axons
Cornell University (New York)
Preceptor: Dr. Catherine Drerup

104-AM. Elizabeth Schott
Targeting Different Diacylglycerol Kinase Isoforms to Various Organelles to Study Phosphatidic Acid Functions in Intact Cells
American University (District of Columbia)
Preceptor: Dr. Tamas Balla, Dr. Yeun Ju Kim

105-AM. Alexandra Sjaarda
Optimizing Western Blot Analysis of Obesity-related NLRP3 Inflammasome Activation
University of Chicago (Illinois)
Preceptor: Dr. Joshua Zimmerberg, Dr. Jack Yanovski

106-AM. Andrew Smith
Speech-language and Swallowing Functions in a CLN3-Batten Natural History Study Cohort
University of San Diego (California)
Preceptor: Dr. An Dang Do

107-AM. Carissa Stover
Investigating a Role for La Protein in an Innate Immune Signal Pathway via Shielding 5'-ppp-RNAs from Activating RIG-I
Wichita State University (Kansas)
Preceptor: Dr. Richard Maraia, Dr. Sandy Mattijssen

108-AM. Avery Swearer
Cavefish: A Model to Study Subcutaneous Fat Deposition
Carleton College (Minnesota)
Preceptor: Dr. Aniket Gore, Dr. Brant Weinstein

109-AM. Ndeah Terry
The Effect of Remuneration Schedule on Data Completion and Retention in the Pregnancy Eating Attributes Study (PEAS)
William Paterson University (New Jersey)
Preceptor: Dr. Tonja Nansel
110-AM. Lauren Tracy
Correlation of Expression of KRAB Zinc-finger Genes and Transposons in Cerebellum Tissue of 132 People
Clemson University (South Carolina)
Preceptor: Dr. Henry Levin, Dr. Todd Macfarlan

111-AM. Mai-Han Trinh
Trajectory and Predictors of Children’s Screen Media Time
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Edwina Yeung

112-AM. Franchesca Uribe-Rheinboldt
Discovery of Small Protein Regulators of bacterial Drug Efflux Pumps
Appalachian State University (North Carolina)
Preceptor: Dr. Gisela Storz, Dr. Mona Orr

113-AM. Sanan Venkatesh
Investigating Interneuron Epigenetics using Hi-C: Methodology and Analysis
University of California, Los Angeles (California)
Preceptor: Dr. Timothy Petros

114-AM. Gerard Walker
BORB Dependent Cholesterol Trafficking in Cells
Villanova University (Pennsylvania)
Preceptor: Dr. Juan Bonifacino, Dr. Jing Pu

115-AM. Kathleen Wendover
Identification of an Integrase-independent Pathway of Retrotransposition in Fission Yeast
Hendrix College (Arkansas)
Preceptor: Dr. Henry Levin

116-AM. Serena Wisner
The Role of Anxa11 in mitochondria Distribution in Axons
University of Washington (Washington)
Preceptor: Dr. Katie Drerup

117-AM. Josette Wlaschin
Dual Leucine Zipper Kinase Is Required for Mechanical Allodynia and Microgliosis after Nerve Injury
University at Buffalo (New York)
Preceptor: Dr. Claire Le Pichon

118-AM. Adrian Wong
Investigating the Role of MC3R in Adipose Tissue
Occidental College (California)
Preceptor: Dr. Jack Yanovski

119-AM. Joseph Yano
*Characterizing the Role of Rhoa in Regulating Vascular Integrity*
Washington & Jefferson College (Pennsylvania)
Preceptor: Dr. Laura Pillay

120-AM. Mojgan Yazdankhah
*Validation of Target Compounds for the Therapeutic Intervention of Smith-Lemli-Opitz Syndrome*
John Hopkins (Maryland)
Preceptor: Dr. Forbes Porter, Dr. Christopher Wassif

National Institute of Dental and Craniofacial Research (NIDCR)

121-AM. Alexandra Brady
*Emerging New Data on Iron Regulation in the Brain*
Salve Regina University (Rhode Island)
Preceptor: Dr. Eva Mezey

122-AM. Sydney Brown
*Determination of the Clinical Usefulness of C-terminal FGF23 in the Differential Diagnosis of Hypophosphatemia*
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Michael Collins

123-AM. Katelyn Callies
*Simultaneous Elimination of All Seven HAT/DESC Proteases from Mice Reveal a Unique Role of HAT-like 4 in Epidermal Barrier Formation*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Roman Szabo, Dr. Thomas Bugge

124-AM. Jamil Cherry
*Dental Phenotyping of Collagen Type VI alpha 2 Knockout Mice*
Howard University College of Dentistry (District of Columbia)
Preceptor: Dr. Marian Young

125-AM. Sophie Choi
*3-O-Sulfated Heparan Sulfate Plays Distinct Roles in the Salivary Gland and Kidney*
University of Virginia (Virginia)
Preceptor: Dr. Matthew Hoffman, Dr. Vaishali Patel
126-AM. Susan Chow  
*Effect of TRIM21 Mutant E38G on Antibody-dependent Intracellular Neutralization*  
New York University (New York)  
Preceptor: Dr. Blake Warner, Dr. Jay Chiorini

127-AM. Thomas Earnest  
*Nppb Neurons Are Sensors of Mast Cell-Induced Itch*  
King's College London (Non-U.S.)  
Preceptor: Dr. Juergen Solinski, Dr. Mark Hoon

128-AM. Camilo Echeverria  
*Investigating the Role of Btbd7 in Regulating Neural Crest cell EMTs within the Chicken and Mouse Model*  
California State University, Northridge (California)  
Preceptor: Dr. Andrew Schiffmacher, Dr. Laura Kerosuo

129-AM. Mousa Ghannam  
*Myoepithelial Regulation of Collagen Production via Neurotrophin Signaling in Irradiated Salivary Glands*  
Kalamazoo College (Michigan)  
Preceptor: Dr. Augustin Chibly, Dr. Matthew Hoffman

130-AM. Jenny Hsin  
*Studies on the Formation of the Neural Crest Stem Cell Niche*  
California Institute of Technology (California)  
Preceptor: Dr. Laura Kerosuo

131-AM. Christina Jones  
*The Effect of Neurturin (NRTN) on Irradiated Porcine Parotid Salivary Glands in vivo*  
University of Detroit Mercy (Michigan)  
Preceptor: Dr. Vaishali Patel, Dr. Matthew Hoffman

132-AM. Cyrus Keyvanfar  
*Quantitative Craniofacial Morphometric Analysis of TGFβ-opathies*  
University of Virginia (Virginia)  
Preceptor: Dr. Janice Lee

133-AM. Emma Macdonald  
*Transcriptome Analysis of Mouse Trigeminal Ganglion during Inflammation.*  
New York University (New York)  
Preceptor: Mr. Bradford Hall, Dr. Ashok Kulkarni

134-AM. Carolyn May  
*Analysis of Mucin Expression in Drosophila Tissues during Development*
University of Richmond (Virginia)
Preceptor: Dr. Zulfeqhar Syed, Dr. Kelly Ten Hagen

135-AM. Henry Ohman
*Control of STIM1-Orai1 Trafficking by Endoplasmic Reticulum Lipid Exchanges*
University of Richmond (Virginia)
Preceptor: Dr. Shmuel Muallem

136-AM. Tracy Okine
*Cdk5 Inhibitory Peptide Attenuates Acute Orofacial Inflammation*
Ohio State University (Ohio)
Preceptor: Dr. Michaela Prochazkova, Dr. Ashok Kulkarni

137-AM. Gabriella Peluso
*Loss of Galnt3 Disrupts Muc10 Glycosylation and Alters the Oral Microbiome*
Rutgers University (New Jersey)
Preceptor: Dr. E Tian, Dr. Kelly Ten Hagen

138-AM. Kathryn Reindel
*Investigating Neuronal Mechanisms of Chronic Neuropathic Pain and Inflammatory Pain in a Mouse Model*
College of Wooster (Ohio)
Preceptor: Dr. Mark Hoon

139-AM. Hayley Reynolds
*A Characterization of Tango1 in Secretory Granule Biogenesis of Drosophila Salivary Glands*
University of Georgia (Georgia)
Preceptor: Dr. Kelly Ten Hagen, Dr. Liping Zhang

140-AM. Gabe Rice
*Role of the Microbiome in Saliva Secretion*
Kalamazoo College (Michigan)
Preceptor: Dr. Shumel Muallem

141-AM. Christopher Rudmann
*Immunohistochemical Targeting of Immune Cells in Murine GVHD*
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Jacqueline Mays, Dr. Ana Costa da Silva

142-AM. Collin Tran
*Plasminogen Deficiency Leads to Periodontal Immunopathology*
University of Michigan (Michigan)
Preceptor: Dr. Thomas Bugge, Dr. Lakmali Silva
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

143-AM. Jessica Aduwo
*High Allostatic Load Score Is Associated with Diabetes Risk Factors: The Africans in America Study*
Smith College (Massachusetts)
Preceptor: Dr. Anne Sumner

144-AM. Abdul-Latif Armiyaw
*Greater Pancreatic Beta-cell Responsivity in African American Adults Compared to Caucasian Adults Despite Similar Insulin Sensitivity*
Bowdoin College (Maine)
Preceptor: Dr. Ranganath Muniyappa

145-AM. Ethan Baratz
*Vitamin E Treats Hepatic Steatosis and Lipid Peroxidation Induced by Knockout of the Iron Chaperone PCBP1*
Vassar College (New York)
Preceptor: Dr. Caroline Philpott

146-AM. Rosie Bauer
*CRISPR-Cas9 Editing in C. elegans: Applications in Disease Modeling and Drug Screening*
Lawrence University (Wisconsin)
Preceptor: Dr. Andy Golden

147-AM. Lars Benner
*Analyzing ALG-2 Mediated mir-35 Family Regulation and the mir-35 Family Role in Sex Determination in C. elegans*
University of Tampa (Florida)
Preceptor: Dr. Katherine McJunkin

148-AM. Hailey Blain
*Ormdls Regulate Myelination by Restraining Excessive Sphingolipid Synthesis*
Bowdoin College (Maine)
Preceptor: Dr. Richard Proia, Dr. Maria Allende

149-AM. Jeffrey Boakye
*Identification and Biological Consequences of O-GlcNAc Cycling on the Developmental Protein, OTX2*
Philander Smith College (Arkansas)
Preceptor: Dr. Stephanie Olivier-Van Stichelen, Dr. John Hanover
150-AM. Sara Briker  
*A1C in Africans Detects Dysglycemia at a Lower Rate Than the OGTT: Lessons from the Africans in America Study*  
Villanova University (Pennsylvania)  
Preceptor: Dr. Anne Sumner

151-AM. Lieza Chan  
*Improving Homogeneity of Dynamin-decorated Lipid Tubes for Cryo-EM Helical Reconstruction through Diameter Sorting*  
Skidmore College (New York)  
Preceptor: Dr. Andrew Kehr, Dr. Jenny Hinshaw

152-AM. Renee Ti Chou  
*RNA-Seq Imputation Using Bayesian Networks Constructed with Gene Co-expression Networks*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Elissa Lei, Dr. Cameron Palmer

153-AM. Ellen Conway  
*Non-nutritive Sweetener Exposure Begins Early in Life*  
George Washington University (District of Columbia)  
Preceptor: Dr. Kristina Rother

154-AM. Celeste Cravalo  
*Metformin Improves Glycemia by Increasing Gut Hormone Concentrations in Youth with Type 2 Diabetes*  
Hawaii Pacific University (Hawaii)  
Preceptor: Dr. Stephanie Chung

155-AM. Brianna Daley  
*Radiolabeled Somatostatin Analog 86Y-DOTA-EB-TATE is Characterized by Superior Tumor Uptake Compared to 68Ga-DOTA-TATE and 68Ga-DOTA-JR11 in Thyroid Cancer Mice Models*  
Marist College (New York)  
Preceptor: Dr. Joanna Klubo-Gwiezdzinska, Dr. Shilpa Thakur

156-AM. Joshua Dawson  
*Regulation of Fgf21 Expression by Nutrient-dependent O-GlcNAcylation*  
University of Washington (Washington)  
Preceptor: Dr. Lara Abramowitz, Dr. John Hanover

157-AM. Andin Fosam  
*Minimal-model Derived Insulin Sensitivity Index Underestimates Insulin Sensitivity in African Americans*  
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Raganath Muniyappa

158-AM. Carina Graham
*Modeling NGly1 Deficiency in C. elegans*
Eckerd College (Florida)
Preceptor: Dr. Andy Golden

159-AM. Shivraj Grewal
*Short-term Mifepristone Treatment Improves Hepatic and Adipose Tissue Insulin Sensitivity in Overweight and Obese Subjects with Glucose Intolerance*
University of Chicago (Illinois)
Preceptor: Dr. Ranganath Muniyappa, Dr. Lynnette Nieman

160-AM. Acadia Grimme
*Elucidating the Role of the miR-100 Family in C. elegans*
University of Delaware (Delaware)
Preceptor: Dr. Katherine McJunkin

161-AM. Brianna Halasa
*NMR Derived Lipoprotein Analysis and Insulin Resistance Index (LPIR): How Do They Compare with Standard Lipid Results and HOMA-IR?*
Smith College (Massachusetts)
Preceptor: Dr. Kristina Rother

162-AM. Laura Hertz
*Hepatitis C Virus Infection Downregulates miR-122 and Leads to an Increase in Lipogenesis through NF-κB-Inducing Kinase*
Case Western Reserve University (Ohio)
Preceptor: Dr. Jake Liang

163-AM. Hadjira Ishaq
*Coronary Arterial Wall Thickening and Association with Myocardial Diastolic Function in HIV*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Ahmed Gharib, Dr. Jatin Matta

164-AM. James Johnson
*Plasma Metabolites Influence Myocardial Glucose Uptake*
Duke University (North Carolina)
Preceptor: Dr. Aaron Cypess

165-AM. Meera Kattapuram
*Role of HbcAg and HbsAg Expression in Outcome and Response to Antiviral Therapy in Patients with Chronic Hepatitis B*
Cornell University (New York)
Preceptor: Dr. Marc Ghany

166-AM. Alexandra Kinzer
*Diagnostic Tests to Distinguish between Post-receptor and Receptor-level Insulin Resistance*
Purdue University (Indiana)
Preceptor: Dr. Rebecca Brown

167-AM. Claire Kittock
*Pathogenic Missense Variants in GNB5: In silico and in vitro Analysis*
Colgate University (New York)
Preceptor: Dr. William Simonds, Dr. Jianhua Zhang

168-AM. Dennis Lin
*Protein Interactions of Hepatic Retinol Dehydrogenase HSD17B13*
University of North Carolina at Chapel Hill (Maryland)
Preceptor: Dr. Yaron Rotman

169-AM. Nicole Lue
*Discovery of G Protein beta 5 as a Novel Genetic Risk Factor for Alzheimer's Disease*
Colgate University (New York)
Preceptor: Dr. William Simonds, Dr. Jianhua Zhang

170-AM. Christopher Ma
*Development of a First-in-class Fusion Inhibitor against Diverse and multi-drug-resistant HCV Strains*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Jake Liang, Dr. Zongyi Hu

171-AM. Sarah Malik
*Thyrotropin Receptor Activation Can Lead to Biphasic Regulation of cAMP Production Mediated by Gs and Gi/o Proteins*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Marvin Gershengorn, Dr. Susanne Neumann

172-AM. Celine Marlin Andrews, Alexandra Elchert
*CRISPR Genome Editing Strategies to Elucidate Function of piRNA Pathway Genes in Ovarian Somatic Sheath Cells (OSC)*
Colgate University (New York), College of Wooster (Ohio)
Preceptors: Dr. Astrid Haase

173-AM. Nanami Miyazaki
*Hyperdopaminergic States Enhance Orbitofrontal-Striatal Pathway Efficacy in vivo*
Purdue University (Indiana)
Preceptor: Dr. Alexxa Kravitz
174-AM. Caitlin Moffatt
*Increased Nucleus-to-cell Volume Ratios upon Crm1 Inhibition in the Budding Yeast S. cerevisiae*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Orna Cohen-Fix

175-AM. Allison Mogul
*Brs3 Expressing Neurons in the Preoptic Area: Role in Body Temperature Regulation.*
Hamilton College (New York)
Preceptor: Dr. Marc Reitman

176-AM. Jovana Navarrete
*Defined Paraventricular Hypothalamic Populations Exhibit Differential Responses to Food Contingent on Caloric State*
University of California, Merced (California)
Preceptor: Dr. Michael Krashes, Dr. Chia Li

177-AM. Tommy O'Haren
*Epigenomic and Transcriptomic Profiling of Brown Adipogenesis in vivo*
Wake Forest University (North Carolina)
Preceptor: Dr. Young-Kwon Park, Dr. Kai Ge

178-AM. Alana O'Mara
*Chronic Exposure to a β3-Adrenergic Receptor Agonist Increases Brown Adipose Tissue Metabolic Activity and Resting Energy Expenditure and Improves Tissue Glucose Uptake and Insulin Secretion in Healthy Female Adults*
Michigan State University (Michigan)
Preceptor: Dr. Aaron Cypess

179-AM. Jonathan Pham
*A Potential Anti-diabetic Drug That Stimulates Insulin Secretion through the Positive Allosteric Modulation of Beta-cell M3 Muscarinic Receptors*
University of California, San Diego (California)
Preceptor: Dr. Jurgen Wess

180-AM. Ngan Phung
*Binding Affinity of Novel P2Y14 Receptor Antagonists Determined Using a Fluorescent Assay*
Rutgers University (New Jersey)
Preceptor: Dr. Kenneth Jacobson

181-AM. Hannah Schmidt
*Characterizing Nsd2 Enzymatically Inactive Mice*
University of Florida (Florida)
Preceptor: Dr. Ji Eun Lee, Dr. Kai Ge
182-AM. Ronit Schwartz  
**CRISPR Screening for Genes Important in Sphingolipid Uptake and Recycling**  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Mari Kono, Dr. Richard Proia

183-AM. Shruthi Shankar  
**Racial Differences in Disease Severity in Patients with Chronic Hepatitis B**  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Marc Ghany

184-AM. Julia Sproch  
**Identification of Novel Anti-hepatitis B Virus Agents by High Throughput Screen in a Cell-based Infection Assay**  
La Salle University (Pennsylvania)  
Preceptor: Dr. Yuchen Xia, Dr. Xiaoming Cheng

185-AM. Abigail Stanton  
**Biochemical and Structural Characterization of a Spastic Paraplegia-linked Mutant of the Membrane Fission GTPase, Dynamin 2**  
Colgate University (New York)  
Preceptor: Dr. Jenny Hinshaw, Dr. John Jimah

186-AM. Aisha Tepede  
**18F-FDOPA PET/CT Accurately Identifies Pheochromocytoma in 76-year-old Male with MEN1**  
University of Illinois at Urbana-Champaign (Illinois)  
Preceptor: Dr. Jenny Blau

187-AM. Andrew Tobey  
**Urine Iodine Excretion Exceeding 250 µg/24h Is Associated with Higher Likelihood of Progression in Intermediate and High-risk Thyroid Cancer Patients Treated with Radioactive Iodine**  
University of Nevada, Reno (Nevada)  
Preceptor: Dr. Joanna Klubo-Gwiezdzinska

188-AM. Nhien Tran  
**MED1 Is a Lipogenesis Coactivator Required for Postnatal Adipose Tissue Development**  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Younghoon Jang, Dr. Kai Ge

189-AM. Isabella Zafra Martinez  
**Creation of a Database of C. elegans Orthologs for Human Rare Disease Genes**  
York College of Pennsylvania (Pennsylvania)  
Preceptor: Dr. Andy Golden
National Institute of Mental Health (NIMH)

190-AM. Alla Abdelwahab  
*The Use of 3D Tracking Software to Assess Behavioral Interactions in Freely Behaving Marmosets*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Rebecca Berman, Dr. David Leopold

191-AM. Oluwatobi Abubakare  
*Behavioral Effects of Dopamine in a Risky Decision-making Task*  
University of Rochester (New York)  
Preceptor: Dr. Gloria Laryea, Dr. Yogita Chudasama

192-AM. Courtney Agorsor  
*The Relationship between Demographic and Clinical Factors in Pediatric Irritability*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Ramaris German, Dr. Melissa Brotman

193-AM. Sara Ahmed  
*Does Emotion Modulate Attentional Effects on Objective and Subjective Perception?*  
Case Western Reserve University (Ohio)  
Preceptor: Dr. Leslie Ungerleider, Dr. Marine Vernet

194-AM. William Altekruse  
*Assessing Hippocampal Activity Using the Mnemonic Similarity Task: A Magnetoencephalography Study*  
Johns Hopkins School of Public Health (Maryland)  
Preceptor: Dr. Zhi-De Deng

195-AM. Shriya Awasthi, Shannon Exley  
*The Effect of Ketamine on Resting State EEG*  
Johns Hopkins University (Maryland), American University (District of Columbia)  
Preceptors: Dr. Zhi-De Deng, Dr. Sarah Lisanby

196-AM. Mira Bajaj  
*Updating Conditioned Fear Associations in Anxious and Healthy Youth*  
University of Pennsylvania (Pennsylvania)  
Preceptor: Dr. Rany Abend, Dr. Daniel Pine

197-AM. Alexis Beale, Madeline Goodwin  
*Exploring the Relationship between Working Memory, State Anxiety, and Clinical Anxiety*  
University of Maryland, College Park (Maryland), Johns Hopkins University (Maryland)  
Preceptors: Dr. Christian Grillon, Dr. Monique Ernst
198-AM. Kathleen Berkun
*Classification and Characterization of Galanin Receptor I Expressing Neurons in Frontal and Temporal Regions in Rats*
McGill University (Non-U.S.)
Preceptor: Dr. Fany Messanvi, Dr. Yogita Chudasama

199-AM. Simon Bohn
*Behavioral Detection of Optogenetic Cortical Stimulation in Macaque Inferior Temporal Cortex*
Johns Hopkins University (Maryland)
Preceptor: Dr. Arash Afraz

200-AM. William Booker
*Feasibility of Administering the Death/Suicide Implicit Association Test among Pediatric Medical Inpatients*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Lisa Horowitz

201-AM. Christian Botz-Zapp
*Computer-based Interpretation Bias Training for Youth with Severe Irritability: A Double-blind, Randomized, Placebo-controlled Trial*
Emory University (Georgia)
Preceptor: Dr. Simone Haller, Dr. Melissa Brotman

202-AM. Hong Bui
*Patterns of Parenting and Psychiatric Symptoms in Youth: A Latent Profile Analysis*
Yale University (Connecticut)
Preceptor: Dr. Julia Linke, Dr. Katharina Kircanski

203-AM. Nicholas Bulthuis
*The Effects of Anesthesia on Hippocampal Neurogenesis in Adult Rats*
Loyola University Chicago (Illinois)
Preceptor: Dr. Heather Cameron, Dr. Jenny Kim

204-AM. Grace Cavanaugh
*Heart Rate Variability in Patients with Treatment-resistant Depression and Healthy Controls after Treatment with Ketamine*
College of the Holy Cross (Massachusetts)
Preceptor: Dr. Jennifer Evans

205-AM. Katharine Chang
*A Closed-loop Adaptive Methodology for Tracking Mood-RPE Sensitivity*
Washington University in St. Louis (Missouri)
Preceptor: Dr. Argyris Stringaris, Dr. Hanna Keren
206-AM. Anna Corriveau  
*Temporal Dynamics of Memory Recall for Familiar People and Places*  
University of Wisconsin- Madison (Wisconsin)  
Preceptor: Dr. Chris Baker

207-AM. Kiana Dash  
*Efficient Chemogenetic Vector Coverage in the Monkey Amygdala Visualized by 3D Representations*  
Hampton University (Virginia)  
Preceptor: Dr. Walter Lerchner, Dr. Barry Richmond

208-AM. Rachel Dick  
*PET imaging of [11C](R)(-)NR2B-Me, a Novel Radioligand for the NR2B Subunit of the NMDA Receptor, in Rats and Rhesus Macaques*  
University of Virginia (Virginia)  
Preceptor: Dr. Robert Innis

209-AM. Adam Dickter  
*Impact of Developing Perceptual Expertise on Eye Fixations*  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Chris Baker

210-AM. Elisa Dumett  
*The Effect of the TRKB Polymorphism and Urban Upbringing on Hippocampal Coupling during Episodic Memory*  
University of California, Los Angeles (California)  
Preceptor: Dr. Joseph Callicott

211-AM. Cassandra Dumont  
*Dimensional Measures in Bipolar Disorder: Validity and Relation to Polygenic Risk Scores in Anabaptist Populations*  
Salem State University (Massachusetts)  
Preceptor: Dr. Francis McMahon

212-AM. Elena Esch  
*Investigation of Stereoscopic Depth Sensitivity in Face-selective Neurons in the Macaque*  
Lafayette College (Pennsylvania)  
Preceptor: Dr. Aidan Murphy, Dr. David Leopold

213-AM. Shannon Exley  
*The Effect of Ketamine on Transcranial Magnetic Stimulation Evoked Potentials*  
American University (District of Columbia)  
Preceptor: Dr. Zhi-De Deng, Dr. Sarah Lisanby
214-AM. Jessica Fields  
_Magnetoencephalography of the Suicide Implicit Association Task_  
Lafayette College (Pennsylvania)  
Preceptor: Dr. Jessica Gilbert, Dr. Elizabeth Ballard

215-AM. Grace Fomani  
_Lesion Reconstructions Support Evidence against a Simple Sequential High-level Visual Object Processing in Monkeys_  
Tuskegee University (Alabama)  
Preceptor: Dr. Mark Eldridge

216-AM. Beth Foote  
_Emotionally Reactivity and Social Anxiety Disorder: Evidence from Real Time Mobile Assessments_  
Davidson College (North Carolina)  
Preceptor: Dr. Kathleen Merikangas

217-AM. Michael Frankland  
_In vivo and in vitro Blood Cellular Partitioning Kinetics May Affect Plasma Input Function Determination of COX-1 Radioligand 11C-PS13_  
Vanderbilt University (Tennessee)  
Preceptor: Dr. Sami Zoghbi

218-AM. Natalie Freedgood  
_The Role of Adult Neurogenesis in an Ambiguous Cue Test_  
Trinity College (Connecticut)  
Preceptor: Dr. Rose-Marie Karlsson, Dr. Heather Cameron

219-AM. Gabrielle Freitag  
_ADHD, Irritability, and Inhibitory Control in a Transdiagnostic Sample of Youth_  
Vanderbilt University (Tennessee)  
Preceptor: Dr. Elise Cardinale, Dr. Daniel Pine

220-AM. Jason Fu  
_Using Laminar fMRI to Probe Affective Processing in V1_  
Swarthmore College (Pennsylvania)  
Preceptor: Dr. Tong Liu

221-AM. James Gooding  
_Multisynaptic Retrograde Projections of Medial Septum_  
Michigan Technological University (Michigan)  
Preceptor: Dr. Guruveswar Nagarajan, Dr. Yogita Chudasama
222-AM. Hannah Grassie
Translating a Non-human Primate Behavioral Paradigm to Probe Psychopathology in Youth: A Cross-species Study of Threat-Approach Behavior
New York University (New York)
Preceptor: Dr. Reut Naim, Dr. Melissa Brotman

223-AM. Anna Grassy
Genetic Risk for Autism Spectrum Disorders Is Related to Gyrification in Healthy Adults
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Karen Berman

224-AM. Ankush Gupta
Anatomical Characterization of Dynorphin-Kappa Opioid Receptor (KOR) System in Glutamatergic and GABAergic Neurons within the mPFC
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Hugo Tejeda, Dr. Huikun Wang

225-AM. Lillian Ham
Clinical Predictors of Neurocognitive Performance in ART-treated HIV+ Patients
Temple University (Pennsylvania)
Preceptor: Dr. Joseph Snow

226-AM. Chris Higham
Mechanisms Underlying Stress-induced Blood Brain Barrier Breakdown
Colgate University (New York)
Preceptor: Dr. Stacey Kigar, Dr. Miles Herkenham

227-AM. Austin Howley
Optimizing Arc-tTA Transgenic Model towards Identifying Social Memory Engrams
Emory University (Georgia)
Preceptor: Dr. Su Hyun Lee, Dr. Scott Young

228-AM. Sarah Jackson
A Longitudinal Study of Reward Processing in Adolescents with Depression
Duke University (North Carolina)
Preceptor: Dr. Pablo Vidal-Ribas, Dr. Argyris Stringaris

229-AM. Clarissa James
Dissociation of Facial Expression and Viewpoint Processing in the Macaque Brain
University of Southern California (California)
Preceptor: Dr. Jessica Taubert
230-AM. Emily Jones
*An Analysis of Attention Bias in Anxious and Healthy Youth Using Drift Diffusion Modeling*
Cornell University (New York)
Preceptor: Dr. Julia Linke, Dr. Melissa Brotman

231-AM. Fernanda Juarez Anaya
*Human Biodistribution and Dosimetry of 11C-PS13, a Novel Radioligand for Cyclooxygenase-1*
St. Bonaventure University (New York)
Preceptor: Dr. Robert Innis

232-AM. Arman Khojandi
*Comparing Synchrony of Brain Activity Evoked by Different Video Clips via Inter-subject Correlation*
George Mason University (Virginia)
Preceptor: Dr. Emily Finn, Dr. Peter Bandettini

233-AM. Alexis Kidder
*Distinct Subdivisions of Medial Parietal Cortex during Memory Recall of People and Places*
State University of New York at Geneseo (New York)
Preceptor: Dr. Chris Baker

234-AM. Billy Kim
*Single Nucleus RNA-seq in the Human Dorsolateral Prefrontal Cortex and Subgenual Anterior Cingulate: Implications for Psychiatric Disorders*
Johns Hopkins University (Maryland)
Preceptor: Dr. Stefano Marenco

235-AM. Elizabeth Kitt
*Examining the Relationship between Behavioral Avoidance and Attention Bias to Threat in Pediatric Anxiety: A Pilot Study Combining Motion- and Eye-tracking Technologies*
Yale University (Connecticut)
Preceptor: Dr. Rany Abend, Dr. Anita Harrewijn

236-AM. Andrew Kittleson
*Genetic Risk for Attention-Deficit/Hyperactivity Disorder Is Associated with Regional Gray Matter Volume in Healthy Adults*
Northwestern University (Illinois)
Preceptor: Dr. Karen Berman

237-AM. Elissa Koele
*Investigating the Regions and Circuitry Mediating Visual Statistical Learning*
Carleton College (Minnesota)
Preceptor: Dr. Susheel Kumar
238-AM. Kaela Kuitchoua
*Polygenic Score for Intelligence Is Associated with fMRI Activation during Working Memory in Patients with Schizophrenia*
Emory University (Georgia)
Preceptor: Dr. Joseph Callicott

239-AM. Wan Kwok
*Distortion of Memory Drawings for Real-world Scenes by the Presence of Incongruent Objects*
Northwestern University (Illinois)
Preceptor: Dr. Chris Baker, Dr. Wilma Bainbridge

240-AM. Amy Lieberman
*Testing for Different Profiles of Polygenic Scores across Schizophrenia Symptom Subgroups*
Northwestern University (Illinois)
Preceptor: Dr. Dwight Dickinson

241-AM. Alexander Liu
*Food for Thought: Neural Representation of Food in the Brain*
Emory University (Georgia)
Preceptor: Dr. Alex Martin, Dr. Jason Avery

242-AM. Diana Lopez
*Familial and Individual Risk Factors for Suicide Attempts*
Calvin College (Michigan)
Preceptor: Dr. Kathleen Merikangas

243-AM. Colin Lynch
*Radiofluorination of Diarylselenoxides and Diarylselenones for the Synthesis of [18F]Fluoroaryl PET Radioligands*
Northwestern University (Illinois)
Preceptor: Dr. Victor Pike, Dr. Fabrice Simeon

244-AM. Rosie Mahoney
*Clinical Validation of the DSM-5 Self-rated Level 1 Cross-cutting Symptom Measure Adult to Screen Healthy Volunteers for Research Studies*
Dartmouth College (New Hampshire)
Preceptor: Dr. Joyce Chung

245-AM. Nihita Manem
*Effects of Amygdala Lesions on Stimulus-based versus Action-based Reinforcement Learning*
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Bruno Averbeck
246-AM. Colin McArdle
*Morphological Consequences of Chronic Sleep Restriction during Neurodevelopment*
Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Carolyn Smith, Dr. Rachel Saré

247-AM. Mariko McDougall
*Lateral Prefrontal Neurons in Monkeys Are Excited or Inhibited by Visual Stimuli Predictive of Reward*
McGill University (Non-U.S.)
Preceptor: Dr. Rossella Falcone

248-AM. Elisabeth Mistur, Glennis Muldoon
*Prevalence Estimates of Comorbid Autism Spectrum Disorder and Intellectual Disability*
Cornell University (New York), University of California, San Diego (California)
Preceptors: Dr. Audrey Thurm

249-AM. Nahom Mossazghi
*3D-printed Designs to Support Wireless Electrode Recordings in Freely Behaving Marmoset*
University of Minnesota - Twin Cities (Minnesota)
Preceptor: Dr. Rebecca Berman, Dr. David Leopold

250-AM. Glennis Muldoon, Elisabeth Mistur
*Measuring the Stress, Strain and Burden Associated with Parenting a Child with a Neurogenic Condition*
University of California, San Diego (California), Cornell University (New York)
Preceptors: Dr. Audrey Thurm

251-AM. Sekinat Mumuney
*Silencing the ChATter: Using shRNAs to Down-regulate Choline Acetyltransferase Activity in the Monkey Striatum*
Mercer University (Georgia)
Preceptor: Dr. Walter Lerchner, Dr. Barry Richmond

252-AM. Michelle Noh
*The Effect of Ketamine on Somatosensory Evoked Potentials in Patients with Treatment Resistant Depression*
Massachusetts Institute of Technology (Massachusetts)
Preceptor: Dr. Zhi-de Deng

253-AM. Stephany Nti
*Lennula: An Innovative Solution for Reliable in vivo Calcium Imaging in the Primate Brain*
West Virginia University (West Virginia)
Preceptor: Dr. Soo Hyun Park, Dr. David Leopold

254-AM. Jonah Pearl
*Differences in Image Recognition Performance after Lesions of Adjacent Temporal Areas*
Yale University (Connecticut)
Preceptor: Dr. Mark Eldridge, Dr. Barry Richmond

255-AM. Dominique Phillips
*Math Anxiety: An Exploration of the Relationship between Academic Fearfulness and Pediatric Anxiety*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Ashley Smith, Dr. Daniel Pine

256-AM. Chelsie Poffenberger
*Stress-induced Blood-Brain Barrier Dysfunction: Elements of Vascular Injury and repair*
Auburn University (Alabama)
Preceptor: Dr. Michael Lehmann, Dr. Miles Herkenham

257-AM. Alina Quach
*Temporal Distance Modulates Neural Correlates of Overt Autobiographical Memory Retrieval*
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Adrian Gilmore, Dr. Alex Martin

258-AM. Gabrielle Reimann
*Social Processing in Autism Spectrum Disorders Using Machine Learning Approach to Image Segmentation*
James Madison University (Virginia)
Preceptor: Dr. Michal Ramot, Dr. Alex Martin

259-AM. Olga Revzina
*Test-retest Reliability of Neural Activation during Frustration*
Bates College (Maine)
Preceptor: Dr. Simone Haller

260-AM. Sophia Robert
*Electrophysiological Investigation of Posterior Curvature-biased Patches in Monkeys*
Williams College (Massachusetts)
Preceptor: Dr. Xiaomin Yue

261-AM. Shakira Rodriguez Gonzalez
*Characterization of the Paraventricular Nucleus of the Thalamus in Food Seeking.*
University of Puerto Rico (Puerto Rico)
Preceptor: Dr. Sofia Beas, Dr. Mario Penzo
262-AM. Linnea Sepe-Forrest
*Effects of Ketamine on Emotional Face Processing in Major Depression: A Magnetoencephalography Study*
University of California, Los Angeles (California)
Preceptor: Dr. Allison Nugent

263-AM. Jalene Shim
*Mechanism of Action of Chemogenetic DREADD Activator Clozapine-N-oxide in the Rhesus Monkey*
University of California, Berkeley (California)
Preceptor: Dr. Mark Eldridge

264-AM. Leah Sorcher
*Longitudinal Trajectories of White Matter Integrity in Children with Williams Syndrome*
University of Pennsylvania (Pennsylvania)
Preceptor: Dr. Karen Berman

265-AM. Sara Stahl
*Working Memory Manipulation under Elevated State Anxiety*
University of Texas at Austin (Texas)
Preceptor: Dr. Christian Grillon, Dr. Nicholas Balderston

266-AM. Caitlin Stavish
*A Meta-analysis of White Matter Microstructure in Bipolar Youths and Adults*
Boston University (Massachusetts)
Preceptor: Dr. Julia Linke

267-AM. Noah Steinberg
*Neural Correlates of the Double-drift Illusion*
Lafayette College (Pennsylvania)
Preceptor: Dr. Elisha Merriam

268-AM. Louise Stolz
*PET Imaging of Phosphodiesterase-4 in Brain and Peripheral Organs of McCune-Albright Syndrome*
Brown University (Rhode Island)
Preceptor: Dr. Robert Innis

269-AM. Anni Subar
*Examining the Effects of Social Support in Anxious and Non-anxious Youth: An Ecological Momentary Assessment Study*
University of Michigan (Michigan)
Preceptor: Dr. Ashley Smith, Dr. Daniel Pine

270-AM. Sean Sweat, Gunner Drossel

*Sex Differences in PACAP/PAC1 Stress Signaling*

Duke University (North Carolina), Hamline University (Minnesota)

Preceptors: Dr. Lee Eiden, Dr. Sunny Jiang

271-AM. Mary Tipton

*Implementing Suicide Risk Screening in Pediatric Primary Care: From Research to Practice*

University of Maryland, College Park (Maryland)

Preceptor: Dr. Lisa Horowitz

272-AM. Elena Waidmann

*Tuning of Face-selective Neurons in AM and AF to Local Image Parts*

Washington University in St. Louis (Missouri)

Preceptor: Dr. Kenji Koyano, Dr. David Leopold

273-AM. Caroline Walsh

*Behavioral Phenotype of Combined Knockouts of the Oxytocin and Vasopressin Receptors in the Mouse Hippocampal CA2 Subfield*

Colgate University (New York)

Preceptor: Dr. Adi Cymerblit-Sabba, Dr. Walter Young

274-AM. Adrianna Wilson

*HTS Driven PAC1 Receptor Antagonist Discovery*

Virginia Polytechnic Institute and State University (Virginia)

Preceptor: Dr. Lee Eiden

275-AM. Nicole Wrigley

*Immune Cell Dynamics in a Mouse Model for Depression*

University of Virginia (Virginia)

Preceptor: Dr. Stacey Kigar

276-AM. Marissa Yetter

*Quantifying the Relationships among Threat-related Attention Biases, Behavioral Avoidance, and Anxiety Symptom Severity in Youth*

Grinnell College (Iowa)

Preceptor: Dr. Rany Abend

277-AM. Nicholas Young

*11C-Trifluoromethylation of Primary Aromatic Amines: A Novel Approach to PET Radiotracer Development*

Pennsylvania State University (Pennsylvania)

Preceptor: Dr. Victor Pike, Dr. Carlotta Taddei
278-AM. Hannah Zwiebel
*Behavioral and Physiological Response to a Psychosocial Stressor in Pediatric Anxiety Disorders*
Tufts University (Massachusetts)
Preceptor: Dr. Daniel Pine, Dr. Anita Harrewijn

**Clinical Center (CC)**

1-LCH. Anam Ahmad
*The Effects of Aerobic Exercise Training on Fatigue and Fatigability in Women with Systemic Lupus Erythematosus*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Leighton Chan, Dr. Lisa Chin

2-LCH. Brittany Brookner
*Comparison of Glucocorticoid Replacement Regimens in Adults with Classic Congenital Adrenal Hyperplasia*
Carleton College (Minnesota)
Preceptor: Dr. Deborah Merke, Dr. Smita Jha

3-LCH. Sneha Chhachhi
*Methods for Improving Stereophotogrammetric Analysis of Scoliosis and Other Trunk Deformities*
Vanderbilt University (Tennessee)
Preceptor: Dr. Scott Paul

4-LCH. Ambica Chopra
*Traumatic Brain Injury Clinical Case Study*
Geisinger Commonwealth School of Medicine (Pennsylvania)
Preceptor: Dr. Leighton Chan

5-LCH. Alison Gaynor
*The Regulation of Wound Healing in Congenital Adrenal Hyperplasia Tenascin-X (CAH-X) Syndrome by the TGFβ Signaling Pathway*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Vipula Kolli, Dr. Deborah Merke

6-LCH. Lauren Hammel
*Development of a User Interface for a Wearable Robotic Exoskeleton*
Southern Illinois University Edwardsville (Illinois)
Preceptor: Dr. Ji Chen, Dr. Thomas Bulea
7-LCH. Erin Heald
*Interrater Reliability of the Adult Myopathy Assessment Tool in Individuals with GNE Myopathy*
College of William & Mary (Virginia)
Preceptor: Mr. Joseph Shrader

8-LCH. Rachel Hecht
*Smartphone-based Augmented Reality Platform to Facilitate CT-guided Needle Placements*
CUNY Hunter College (New York)
Preceptor: Dr. Ming Li, Dr. Bradford Wood

9-LCH. Emily Ho
*TNF-alpha-Mediated Differential Expression of Extracellular and Intracellular MicroRNAs in Human Pulmonary Microvascular Endothelial Cells*
Princeton University (New Jersey)
Preceptor: Dr. Salina Gairhe, Dr. Anthony Suffredini

10-LCH. Natalie Hong
*Development of Immune-modulating Radiopaque Embolic Beads for Transarterial Tumor Embolization*
Carnegie Mellon University (Pennsylvania)
Preceptor: Mr. Ayele Negussie, Dr. Bradford Wood

11-LCH. Annie-Lori Joseph
*Impact of Gender on Neuropsychological Functioning at One Year Following Traumatic Brain injury*
Wake Forest University (North Carolina)
Preceptor: Dr. Sara Lippa, Dr. Leighton Chan

12-LCH. Kira Lokhmatova
*Do Aromatase Inhibitors Affect Vertebral Morphology?*
University of Washington (Washington)
Preceptor: Dr. Ashwini Mallappa, Dr. Deborah Merke

13-LCH. Rebecca Lorsung
*Stable Cavitation during Therapeutic Ultrasound Is Sufficient to Drive Mesenchymal Stem Cell Homing to Murine Muscle*
University of Minnesota, Twin Cities (Minnesota)
Preceptor: Dr. Scott Burks, Dr. Joseph Frank

14-LCH. Amelia Loydpierson
*Molecular Correlates of Reduced Pain Sensitivity in Individuals with Three Copies of the Williams-Beuren Syndrome 7q11.23 Locus*
Kenyon College (Ohio)
Preceptor: Dr. Andrew Mannes, Dr. Michael Iadarola
15-LCH. Aron Mebrahtu  
*Longitudinal Analysis of Outcome Measures in Children with Giant Axonal Neuropathy*  
Clemson University (South Carolina)  
Preceptor: Dr. Mina Jain

16-LCH. Brianna Meeks  
*Gut Microbiota, Anxiety, and Withdrawal Differ Based on Average Drinks per Day for Patients Entering an Inpatient Detoxification Program*  
College of William & Mary (Virginia)  
Preceptor: Dr. Nancy Ames

17-LCH. Samin Panahi  
*Mindfulness Based Self Care (MBSC) at the NIH Clinical Center*  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Rezvan Ameli, Dr. Ann Berger

18-LCH. Avery Perez  
*Loneliness in Cancer Caregivers: A Multilevel Mixed Model Analysis*  
Ursinus College (Pennsylvania)  
Preceptor: Dr. Alyson Ross

19-LCH. Luis Perez Valencia  
*Ebola Virus Glycoprotein Is Rapidly Toxic to Human Lymphocytes*  
Connecticut College (Connecticut)  
Preceptor: Dr. Kevin Vannella, Dr. Daniel Chertow

20-LCH. Vy Phan  
*Widespread Myofascial Dysfunction and Sensitization in Women with Endometriosis-associated Chronic Pelvic Pain*  
Trinity College (Connecticut)  
Preceptor: Dr. Jay Shah, Dr. Pamela Stratton

21-LCH. Martine Policard  
*Evaluation of the Peripheral Immunome following PD-L1 targeted Therapies*  
Georgia State University (Georgia)  
Preceptor: Dr. Renee Donahue, Dr. Jeffrey Schlom

22-LCH. Shravya Raju  
*Sleep Regularity Index as a Correlate of Previous Drinking Behavior and Severity of Withdrawal*  
Scripps College (California)  
Preceptor: Dr. Alyssa Brooks
23-LCH. Martin Ramirez
Iron Acquisition by Pneumocystis
University of California, Los Angeles (UCLA) (California)
Preceptor: Dr. Joseph Kovacs

24-LCH. Joseph Ramsey
Brain Occupancy Study of IV Naloxone Using in vivo Imaging in Rodents
Tulane University (Louisiana)
Preceptor: Dr. Sunny Kim

25-LCH. Robert Rosenblatt
Characterizing Calcium Signaling from Pulsed Focused Ultrasound (pFUS) in TCMK1 Cells
University of Albany (New York)
Preceptor: Dr. Scott Burks, Dr. Joseph Frank

26-LCH. Emily Rosenthal
Functional Impairment and Health-related Quality of Life as Correlates of Symptom Burden in Patients with Sclerotic Chronic Graft-versus-Host Disease Receiving Imatinib Mesylate
Cornell University (New York)
Preceptor: Mrs. Leora Comis

27-LCH. Matthew Short
Relating Brain Activity to Muscle Synergies during Gait in Children with and without Unilateral Cerebral Palsy
Temple University (Pennsylvania)
Preceptor: Dr. Thomas Bulea, Dr. Diane Damiano

28-LCH. Sarine Tahmazian
Understanding Inflammatory Changes in LPS Injection Rat Model Using Whole Body [18F]DPA714-PET Scanning
University of Maryland, College Park (Maryland)
Preceptor: Dr. Dima Hammoud

29-LCH. Zeping Wang
Changes in Brain 18F-FDG Uptake in HIV Positive Patients after Initiation of Antiretroviral Therapy
Swarthmore College (Pennsylvania)
Preceptor: Dr. Dima Hammoud

National Eye Institute (NEI)

30-LCH. Nike Awotunde
Characterization of Zfp385a Knockout Mice
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Michael Redmond, Dr. Yan Li

31-LCH. Annie Fuller
Characterization of Retinal Ganglion Cell Types via Expression of Transcription Factor FoxP2
College of William and Mary (Virginia)
Preceptor: Dr. Tudor Badea

32-LCH. James Gentry
Genome-wide DNA Methylation Profiling of Rod Photoreceptors Reveals Chromosomal Hotspots of Epigenetic Change with Age
Texas A&M University (Texas)
Preceptor: Dr. Anand Swaroop

33-LCH. Madeline Kwicklis
Transcriptomic Analysis of Human Macula in Health and Disease Dissects Tissue-specific Role of Genetic Regulation of Expression in Age-related Macular Degeneration
Cornell University (New York)
Preceptor: Dr. Anand Swaroop

34-LCH. Hannah Mast
Alternative Promoter Usage Generates Novel Hcls1 Transcripts in the Retina
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Laura Campello, Dr. Anand Swaroop

35-LCH. Rosalie Nolen
NEI Sector Retinitis Pigmentosa Cohort: Detailed Phenotyping and Genotyping
Temple University (Pennsylvania)
Preceptor: Dr. Wadih Zein

36-LCH. Favour Oladipupo
Loss of STAT3 in B Cells Exacerbates Uveitis
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Charles Egwuagu

National Institute on Aging (NIA)

37-LCH. Raheel Ahmad
Single Cell RNA Sequencing Elucidates Mechanisms of Aging in CD8+ T Cells
Rutgers University (New Jersey)
Preceptor: Dr. Nan-Ping Weng
38-LCH. Samuel Ajamu  
*Association of Central Arterial Stiffness and Behavior with Hippocampal Blood Flow and N-acetyl Aspartate in Hypertensive Dahl Salt Sensitive Rats*  
Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Olga Fedorova, Dr. Kenneth Fishbein

39-LCH. Pooja Ajay Warrier  
*Hierarchy of Ryanodine Receptor Distribution in Cardiac Pacemaker Cells Undergoes Age-related Changes*  
West Virginia University (West Virginia)  
Preceptor: Dr. Victor Maltsev

40-LCH. Saipriya Ayyar  
*Single-cell DNA Damage Assays of Aged Human Hematopoietic Cells*  
Davidson College (North Carolina)  
Preceptor: Dr. Isabel Beerman

41-LCH. Stephanie Baringer  
*DNA Polymerase Beta Affects Mitochondrial Metabolism and Repair*  
University of New Haven (Connecticut)  
Preceptor: Dr. Beverly Baptiste, Dr. Vilhelm Bohr

42-LCH. Janet Elise Bonin  
*Reduced Heart Rate Variability in Calcineurin ABeta Deficient Mice*  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Edward Lakatta

43-LCH. Oye Bosompra, Sarah Wong  
*Cycles of Dietary Restriction Extend Lifespan and Confer Protection against Xenograft Tumor Growth in Mice*  
University of California, Los Angeles (California), University of Southern California (California)  
Preceptors: Dr. Laura Corrales-Diaz Pomatto, Dr. Rafael de Cabo

44-LCH. Sahil Chawla  
*Inflammatory and Insulin Signaling Pathway Screening in Extracellular Vesicles of Amyloid Positive Patients*  
University of Virginia (Virginia)  
Preceptor: Dr. Dimitrios Kapogiannis

45-LCH. Abigail Corkum  
*An fMRI Study of the Aging Brain and Motor Learning*  
College of William and Mary (Virginia)  
Preceptor: Dr. Qu Tian, Dr. Stephanie Studenski
46-LCH. Thomas Delgado
*Mitochondrial Bioenergetic Dynamics Associated with Excitotoxic and Oxidative Stress and the Stabilizing Role of Incretins*
University of Florida (Florida)
Preceptor: Dr. Mark Mattson, Dr. Nigel Greig

47-LCH. Kaitlyn DeMeulenaere
*Effects of Lipid Peroxidation Products on Viability of Human iPSC-derived Neural Stem Cells, Neurons, and Astrocytes*
Carleton College (Minnesota)
Preceptor: Dr. Christopher Ramsden

48-LCH. Samantha Ellis
*Characterization of Flu-specific T-cell Receptor Signaling Strength*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Nan-Ping Weng, Dr. Jian Lu

49-LCH. Darlene Estrada
*Ketone Ester and Nicotinamide Riboside Supplementation Promotes Metabolic Homeostasis and Neuroprotection in Alzheimer’s Disease Mice*
University of Houston (Texas)
Preceptor: Dr. Tyler Demarest, Dr. Vilhelm Bohr

50-LCH. Logan George
*mRNA-binding Activity of HSP70 following Oxidative Stress*
College of William & Mary (Virginia)
Preceptor: Dr. Myriam Gorospe, Dr. Fred Indig

51-LCH. Erin Goodstein
*Using Mouse Models to Investigate Insulin Function in Taste Cells*
College of William & Mary (Virginia)
Preceptor: Dr. Maire Doyle, Dr. Josephine Egan

52-LCH. Joshua Green
*Analyses of Two Cohorts of Myasthenia Gravis Patients Reveals New Evidence for a Genetic Contribution to the Disease*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Bryan Traynor

53-LCH. Anika Hamilton
*A Proteomic Approach to Novel Micropeptide Discovery in Skeletal Muscle*
Howard University (District of Columbia)
Preceptor: Dr. Luigi Ferrucci, Dr. Ravi Tharakan
54-LCH. Ryan James  
A Single Cell Analysis of Different Replisome Complexes  
Stevenson University (Maryland)  
Preceptor: Dr. Michael Seidman

55-LCH. Jennifer Jensen  
Effects of Heated Oil and Hydroperoxy Fatty Acid Consumption on Rodent Behavior and Neuropathology  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Christopher Ramsden

56-LCH. Danielle June  
Lasting Consequences of Concussion on the Aging Brain  
University of Rochester (New York)  
Preceptor: Dr. Lori Beason-Held, Dr. Susan Resnick

57-LCH. Jonathan Kato  
The Role of Nrf2 in Sex and Strain Differences under Caloric Restriction  
The Harriet L. Wilkes Honors College of Florida Atlantic University (Florida)  
Preceptor: Dr. Laura Pomatto

58-LCH. Nikkita Khattar  
Clinical Investigation of Brain Regional Iron Deposition in Normative Aging Using Magnetic Resonance Susceptibility-weighted Imaging  
George Washington University (District of Columbia)  
Preceptor: Dr. Mustapha Bouhrara, Dr. Richard Spencer

59-LCH. Edward Kim  
Investigating PARylation in the Mitochondria  
University of California, Santa Cruz (California)  
Preceptor: Dr. Wilhelm Bohr, Dr. Jong-Hyuk Lee

60-LCH. Risako Kimura  
Long-term NAD+ Supplementation Rescues High-frequency Age-related Hearing Loss in Mice  
Brown University (Rhode Island)  
Preceptor: Dr. Mustafa Okur, Dr. Vilhelm Bohr

61-LCH. Ali Kudej  
Three Dimensional Visualization of Basal Forebrain Projections in Young and Aged Rats  
University of Michigan (Michigan)  
Preceptor: Dr. Cristina Banuelos

62-LCH. John Lammons  
Can Cardiac Cells in the Adult Mouse Heart Proliferate?
University of Alabama at Birmingham (Alabama)
Preceptor: Dr. Kirill Tarasov

63-LCH. Doyle Lang
*Preliminary Analysis of the Expression of Insulin Produced in the Choroid Plexus*
University of Michigan (Michigan)
Preceptor: Dr. Caio Mazucanti

64-LCH. Sara Larson
*Influence of Aging in Cellular Senescence during Human Wound Healing*
Worcester Polytechnic Institute (Massachusetts)
Preceptor: Dr. Ranjan Sen, Ms. Cheryl Sherman-Baust

65-LCH. Robert Lavery
*Proteomic Analysis of Cognition and Dementia in the InCHIANTI Study*
Johns Hopkins University (Maryland)
Preceptor: Dr. Toshiko Tanaka

66-LCH. Stephanie Lazo
*Extracellular Vesicle-associated Mitochondrial DNA and Aging*
Florida International University (Florida)
Preceptor: Dr. Nicole Hooten

67-LCH. Michael Leone
*DNA Replication Efficiency in Hematopoietic Stem Cell Aging*
University of Rochester (New York)
Preceptor: Dr. Isabel Beerman

68-LCH. Chelsea Mackey
*Altered EEG Activity and Impaired Cued Fear Conditioning in a Mouse Model Overexpressing Adenylyl Cyclase 8 Only in the Heart*
University of Missouri - Columbia (Missouri)
Preceptor: Dr. Mark Mattson, Dr. Edward Lakatta

69-LCH. Uma Mahajan
*Dysregulation of Brain Transmethylation and Polyamine Pathways in Alzheimer's Disease: A Targeted Metabolomic and Transcriptomic Study*
Case Western Reserve University (Ohio)
Preceptor: Dr. Madhav Thambisetty

70-LCH. Taylor McNeely
*Effect of Antioxidant Treatment on the Function of Hematopoietic Stem Cells*
Bucknell University (Pennsylvania)
Preceptor: Dr. Isabel Beerman
71-LCH. Jacqueline Moats
*Individual and Combined Knockout of Parkinson-related Genes, DJ-1 and NQO1, Result in Locomotor Impairments in Mice*
Florida International University (Florida)
Preceptor: Dr. Rafael de Cabo

72-LCH. Sydney Modrow
*Behavioral Detection of Alzheimer's Disease Phenotype in the 5xFAD Mouse Model*
University of Florida (Florida)
Preceptor: Dr. Ross McDevitt

73-LCH. Emily Murphy
*Pancreatic Islet SLC2A9 Expression and Potential Implications for Urate-modulated Insulin Secretion*
University of Colorado at Boulder (Colorado)
Preceptor: Dr. Simonetta Camandola

74-LCH. Thomas Nguyen
*Longitudinal Analysis of the Alpha/Beta TCR Repertoire Reveals Distinct Features of Naïve and Memory CD4 and CD8 T Cells and Their Changes with Age*
North Carolina State University (North Carolina)
Preceptor: Dr. Nan-Ping Weng

75-LCH. Benjamin Ogedegbe
*The Role of DNA Polymerase Beta in Cardiovascular Aging*
George Washington University (District of Columbia)
Preceptor: Dr. Deborah Croteau, Dr. Mingyi Wang

76-LCH. Abinand Rejimon
*Adult Brain Maturation and Aging Investigated Using Magnetic Resonance Myelin Water Fraction Imaging*
Indiana University (Indiana)
Preceptor: Dr. Mustapha Bouhrara, Dr. Richard Spencer

77-LCH. Larry Reser
*Identifying Mitochondrial DNA Variants by Single-cell Sequencing*
University of Florida (Florida)
Preceptor: Dr. Jun Ding

78-LCH. Edward Rivera
*Silent Memory Engram for an Odor Discrimination Task in Aged Rats with Memory Impairment*
Interamerican University of Puerto Rico (Puerto Rico)
Preceptor: Dr. Peter Rapp, Dr. Perla Moreno Castilla

79-LCH. Annamaria Rudderow
*Effect of Time Restricted Feeding on Health and Survival*
Susquehanna University (Pennsylvania)
Preceptor: Dr. Rafael de Cabo

80-LCH. Carolyn Rutishauser
*Voluntary Aerobic Exercise Effects on Heart Rate, Heart Rate Variability, Body Weight, and Frailty in a Longitudinal Aging Rat Model*
Michigan State University (Michigan)
Preceptor: Dr. Edward Lakatta

81-LCH. John Shin
*Associations between Alzheimer’s Disease-related Neuropathology and Change in Cognition*
Johns Hopkins University (Maryland)
Preceptor: Dr. Murat Bilgel, Dr. Susan Resnick

82-LCH. Lillian Shipp
*Dissecting Functional Motifs of a Complex Eukaryotic Enhancer*
University of Michigan (Michigan)
Preceptor: Dr. Ranjan Sen, Dr. Fatima Braikia

83-LCH. Byron Siegars
*Immune and Behavioral Characterization of a Bilaterally Injected Alpha-Synuclein Parkinson’s Disease Model*
Georgetown University (District of Columbia)
Preceptor: Dr. Jyoti Sen, Dr. Michelle Sallin

84-LCH. Hannah Starnes
*rTMS Differentially Affects Performance on an Odor Recognition Memory Task in Young and Aged Rats*
St. Mary’s College of Maryland (Maryland)
Preceptor: Dr. Marina Weiler

85-LCH. Margaret Stelzner
*Sleep-induced 'Arc-hitecture' in Normal Cognitive Aging*
Macalester College (Minnesota)
Preceptor: Dr. Craig Myrum

86-LCH. Robert Tumasian III
*Cross-sectional Transcriptomic Analysis of Healthy Skeletal Muscle Aging*
State University of New York (SUNY) at Geneseo (New York)
Preceptor: Dr. Luigi Ferrucci, Dr. Supriyo De

87-LCH. Lynde Wangler
*Arc in Extracellular Vesicles as a Biomarker of Cognitive Aging*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Perla Moreno Castilla

88-LCH. Sharon Wu
*Extracellular Vesicles from Diabetic Individuals Alter Cellular Behavior*
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Nicole Noren Hooten, Dr. Michele Evans

89-LCH. Annie Yang
*To Beat or Not to Beat: A Critical Issue for Pacemaker Cells*
Dartmouth College (New Hampshire)
Preceptor: Dr. Edward Lakatta

90-LCH. Jacob Ziontz
*Tau Pathology in Cognitively Normal Older Adults: Associations with Brain Atrophy and Cognitive decline*
Grinnell College (Iowa)
Preceptor: Dr. Murat Bilgel, Dr. Andrea Shafer

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

91-LCH. Jillian Battista
*Endocrine Effects of Ghrelin Receptor Inverse Agonism and Alcohol Co-administration in Heavy Drinkers*
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Mary Lee, Dr. Lorenzo Leggio

92-LCH. Ryan Beckner
*Thermostability Assessment of Human Type-II Cannabinoid Receptor*
University of Chicago (Illinois)
Preceptor: Dr. Alexei Yeliseev, Dr. Klaus Gawrisch

93-LCH. Marilyn Bravo
*Anxiety-like Behavior in Mice with Reduced Striatal Dopamine D2 Receptors Is Ameliorated following Ethanol Administration.*
Brown University (Maryland)
Preceptor: Dr. Miriam Bocarsly, Dr. Veronica Alvarez
94-LCH. Brittney Browning  
*Genetic Analysis of the Leptin Gene (LEP) and Leptin Receptor Gene (LEPR): Preliminary Findings Related to Psychopathology*  
Liberty University (Virginia)  
Preceptor: Dr. Lorenzo Leggio

95-LCH. Nia Byrd  
*Examining the Effects of Childhood Trauma on Adult Alcohol Consumption: Does Race and/or Sex Matter?*  
University of Michigan (Michigan)  
Preceptor: Dr. Vijay Ramchandani, Dr. Bethany Stangl

96-LCH. Tiffany Campbell  
*Amygdala Intercalated Neurons in Fear Extinction*  
Miami University (Ohio)  
Preceptor: Dr. Andrew Holmes, Dr. Olena Bukalo

97-LCH. Alexandra Cowand  
*The Role of Suggestibility in Alcohol Use and Misuse*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Vijay Ramchandani

98-LCH. Sarah Dean  
*Neuroticism's Effect on the Relationship between Alcohol Use Disorder and Amygdala rs-fMRI Connectivity*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Reza Momenan

99-LCH. Dana Feldman  
*Impulsive Responses to Emotional Stimuli in Alcohol Use Disorder*  
University of Michigan (Michigan)  
Preceptor: Dr. Peter Manza, Dr. Nora Volkow

100-LCH. Adriana Gregory-Flores  
*Deletion of the GHS-R Ghrelin Receptor Exhibits a Protective Effect against Diet-induced Obesity in Male but Not Female Rats*  
Iowa State University (Iowa)  
Preceptor: Dr. Lorenzo Leggio, Dr. Leandro Vendruscolo

101-LCH. Lindsey Jay  
*Investigating the Status of the Endocannabinoid/CB1R system in Chronic Alcohol-induced Lung Inflammation*  
University of Chicago (Illinois)  
Preceptor: Dr. Resat Cinar, Dr. George Kunos
102-LCH. Danielle Kroll
_The Association between Childhood Trauma and Brain Glucose Metabolism_
Dartmouth College (New Hampshire)
Preceptor: Dr. Peter Manza

103-LCH. Martha Longley
_PCSDK9 in Alcohol Use Disorder_
Yale University (Connecticut)
Preceptor: Dr. Falk Lohoff, Dr. Jisoo Lee

104-LCH. Sarah Min
_Central Nervous System Penetration of Oxytocin after Intravenous and Intranasal Administration_
Carleton College (Minnesota)
Preceptor: Dr. Mary Lee, Dr. Lorenzo Leggio

105-LCH. James Morris
_Super Bingers: Traits and Patterns Associated with High-intensity Drinking_
Florida State University (Florida)
Preceptor: Dr. Vijay Ramchandani

106-LCH. Vikas Munjal
_Effects of Oral, Smoked, and Vaporized Cannabis Administration on Endocrine Pathways Related to Appetite and Metabolism: A Randomized Double-blind Placebo-controlled Human Laboratory Study_
Ohio State University (Ohio)
Preceptor: Dr. Lorenzo Leggio, Dr. Mehdi Farokhnia

107-LCH. Sarvar Oreizi-Esfahani
_Fear Extinction and the Endocannabinoid System: Exploring the Cortico-Amygdala Circuit_
University of Maryland, College Park (Maryland)
Preceptor: Dr. Ozge Gunduz-Cinar

108-LCH. Tanner Rigg
_Machine Learning and Rodent Behavior_
University of New Mexico (New Mexico)
Preceptor: Dr. Andrew Holmes

109-LCH. Julia Schaffer
_Serotonergic Modulation of the Nucleus Accumbens in Risky Decision-making_
Cornell University (New York)
Preceptor: Dr. Patrick Piantadosi, Dr. Andrew Holmes
110-LCH. Nicole Schwab, Nathen Spitz  
*Investigating Cortico-Limbic-Striatal Circuit Interactions during Risky Decision-making*  
Georgetown University (District of Columbia), University of Iowa (Iowa)  
Preceptors: Dr. Patrick Piantadosi, Dr. Andrew Holmes

111-LCH. Sawyer Smith, Kerry McFadden  
*Ambiguous Threat Promotes Generalization and Differentially Recruits Cortico-Amygdala Regions*  
University of Idaho (Idaho), Northwestern University (Illinois)  
Preceptors: Dr. Andrew Holmes

112-LCH. Sachin Sundar  
*Associations between Stress and Alcohol Cues and HPA Axis Function in Non-dependent Drinkers.*  
James Madison University (Virginia)  
Preceptor: Dr. Vijay Ramchandani

113-LCH. Julia Swan  
*High Intensity Binge Drinking and Stimulating Effects in Human Laboratory Studies of Alcohol Self-administration*  
University of Michigan (Michigan)  
Preceptor: Dr. Vijay Ramchandani

114-LCH. Catherine Teresi  
*Ethanol Drinking Behaviors in a Striatum-specific Knockout Mice for Dopamine D3 Receptor*  
University of Virginia (Virginia)  
Preceptor: Dr. Miriam Bocarsly, Dr. Veronica Alvarez

115-LCH. Emily Vogt  
*Modeling Drinking Patterns Underlying Hangover Symptoms following Intravenous Alcohol Self-administration in Non-dependent Drinkers*  
Northwestern University (Illinois)  
Preceptor: Dr. Nancy Diazgranados, Dr. Bethany Stangl

116-LCH. Mark Yde  
*Modulation of Fear Extinction by Astrocytes in the Basolateral Amygdala*  
University of Rochester (New York)  
Preceptor: Dr. Olena Bukalo, Dr. Andrew Holmes

117-LCH. Charles Zawatsky  
*Exploring the Role of Cannabinoid Receptor 1 in Alveolar Type-2 Epithelial and Myeloid Cells in Lung Fibrosis Development in Mice*  
Hillsdale College (Michigan)
National Institute of Allergy and Infectious Diseases (NIAID)

118-LCH. Olubukola Abiona
*Identification and Characterization of Novel Human Antibodies from a Convalescent Coronavirus Donor*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Kizzmekia Corbett, Dr. Barney Graham

119-LCH. Hanna Abuhay
*Incidence of Adverse Vaccine Responses in Children with Mastocytosis*
University of California, Santa Cruz (Maryland)
Preceptor: Dr. Melody Carter

120-LCH. Nina Aiosa
*Imaging of the Natural History of Guinea Pig Central Access Catheters*
James Madison University (Virginia)
Preceptor: Dr. Irwin Feuerstein

121-LCH. Tsion Andine
*Rational Design of HIV-1 Envelope Trimers That Expose V2 Epitopes Associated with Vaccine-elicited Protection*
Jackson State University (Mississippi)
Preceptor: Dr. Paolo Lusso, Dr. Peng Zhang

122-LCH. Jenna Andrews
*Utilizing PET/CT for 3-D Rendition and Classification of Lung Lesions in Tuberculosis Infected Patients*
Colorado State University (Colorado)
Preceptor: Dr. Clifton Barry, Dr. Yingda Xie

123-LCH. Warda Arman
*Generation of an Sp100-deficient Keratinocyte Cell Line to Study the HPV Life Cycle*
University of Massachusetts Boston (Massachusetts)
Preceptor: Dr. Alison McBride

124-LCH. Justin Bae
*Resistance to Leukocytes Ties Benefits of Quorum-sensing Dysfunctionality to Biofilm Infection*
Cornell University (New York)
Preceptor: Dr. Gordon Cheung
125-LCH. Alice Bell
*Expanding the Molecular Toolkit: Novel Highly Fluorescent and Integrative Plasmids to Investigate M. tuberculosis Biology in vivo*
Bryn Mawr College (Pennsylvania)
Preceptor: Dr. Katharina Kolbe, Dr. Clifton Barry III

126-LCH. Ezekiel Bello
*CRISPR-Cas9 Gene Correction of Primary Cells from Patients with X-linked Immunodeficiency with Magnesium Defect, Epstein-Barr Virus Infection, and Neoplasia Syndrome*
Florida A&M University (Florida)
Preceptor: Dr. Suk See De Ravin, Dr. Julie Brault

127-LCH. Alexis Berry
*Exploring the Relationship between Eosinophils and B Cell Proliferation in Humans*
Brown University (Rhode Island)
Preceptor: Dr. Fei Li Kuang, Dr. Amy Klion

128-LCH. Priyankaa Bhatia
*A Comparison of Anthrax-based Double Effector Complexes on Tumor Cell Death*
Baylor University (Texas)
Preceptor: Dr. Steve Leppla

129-LCH. Sarah Blackstone
*Interferon Signature Is a Biomarker for Response to JAK Inhibition in Patients with Haploinsufficiency of A20*
University of South Florida (Florida)
Preceptor: Dr. Daniella Schwartz

130-LCH. Thomas Buerkert
*Optimizing Detection of Cell-associated HIV-RNA from Frozen Whole Blood*
St. Joseph’s University (Pennsylvania)
Preceptor: Dr. Hiromi Imamichi

131-LCH. Emily Burkart
*Locating Transposable Element of Enhancer Trap in Transgenic Line of Anopheles stephensi*
Furman University (South Carolina)
Preceptor: Dr. Ana Beatrix Barletta Ferreira, Dr. Carolina Barillas-Mury

132-LCH. Carlo Castillo
*Assessing the Effects of Common Environmental Exposures on Skin bacteria Associated with Atopic Dermatitis*
Ohio State University (Ohio)
Preceptor: Dr. Ian Myles
133-LCH. Lauren Chang
*Pre-fusion RSV F Vaccine Elicits a Distinct Serological Profile from Post-fusion RSV F Vaccine in Humans*
University of California, San Diego (California)
Preceptor: Dr. Barney Graham, Dr. Tracy Ruckwardt

134-LCH. Samuel Chauvin
*Immune Dysregulation in Dock11 Deficiency*
Cornell University (New York)
Preceptor: Dr. Michael Lenardo, Dr. Juan Ravell

135-LCH. Jessica Chen
*Genetic Stability of Temperature-stressed Codon-pair Deoptimized Respiratory Syncytial Virus*
University of Hawaii at Manoa (Hawaii)
Preceptor: Dr. Cyril Le Nouen, Dr. Peter Collins

136-LCH. Stephan Constante
*Yeast Display of Zaire Ebolavirus GP for Monoclonal Antibody Epitope Mapping*
University of Florida (Florida)
Preceptor: Dr. John Misasi

137-LCH. Sarah Cook
*Hem1 Immunodeficiency and Autoimmune Disorder Reveals an Essential Role for the WAVE Regulatory Complex in mTOR and AKT Signaling*
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. William Comrie

138-LCH. Linda Cui
*Synthesis of the MR1 Ligand, 5-OP-RU, a Vitamin B2 Biosynthetic Metabolite Recognized by MAIT Cells*
Vanderbilt University (Tennessee)
Preceptor: Dr. Sangmi Oh

139-LCH. Leland Damron
*Isolation of V1V2-directed Antibodies from an HIV Infected Donor*
University of Richmond (Virginia)
Preceptor: Dr. Nicole Doria-Rose, Dr. John Mascola

140-LCH. Priscilla Del Valle
*Biomarkers for monitoring Onchocerca volvulus*
University of Texas at El Paso (Texas)
Preceptor: Dr. Sasisekhar Bennuru, Dr. Thomas Nutman
141-LCH. Jessi Drew
*The Risk of Mortality among Patients with Bronchiectasis at a Tertiary Care Center: Quality of Life and 6MWD*
University of Georgia (Georgia)
Preceptor: Dr. Rebecca Prevots

142-LCH. Caroline Duncombe
*Bactericidal Response of Mycobacterium tuberculosis to Acivicin Identifies a Novel Metabolic Pathway*
Macalester College (Minnesota)
Preceptor: Dr. Yong-Mo Ahn

143-LCH. Kristina Edwards
*PBMC Response after Stimulation with pdmH1N1 Influenza Virus in Subjects with Variable Exposure History*
University of Edinburgh (Non-U.S.)
Preceptor: Dr. Matthew Memoli

144-LCH. Robert Emeh
*The Effect of Alpha Globin Variants on Blood Vessel Regulation*
Alabama State University (Alabama)
Preceptor: Dr. Amy Ruhl, Dr. Hans Ackerman

145-LCH. Jada Hackman
*HIV-1 Genetic Diversity from Peripheral Blood and Lymph Node from HIV+ to HIV+ Organ Transplantation*
Juniata College (Pennsylvania)
Preceptor: Dr. Andrew Redd

146-LCH. Kelly Hagadorn
*Investigating the Association between Autoimmunity and Malaria*
San Diego State University (California)
Preceptor: Dr. Peter Crompton, Dr. Christine Hopp

147-LCH. Sarah Harrison
*Cytokine Profiling of Subarachnoid Neurocysticercosis Pre- and Post-treatment*
University of Notre Dame (Indiana)
Preceptor: Dr. Elise O'Connell

148-LCH. Samantha Herbert
*Defining a Recombinant Salivary Protein as a Marker of Cector Exposure to Phlebotomus argentipes in Areas Endemic to Visceral Leishmaniasis in Sri Lanka*
Tulane University School of Public Health and Tropical Medicine (Louisiana)
Preceptor: Dr. Jesus Valenzuela, Dr. Eva Iniguez
149-LCH. Alvaro Hobbs  
*Insights into Hepatitis C Virus E1/E2 Protein Interactions*  
New Mexico State University (New Mexico)  
Preceptor: Dr. Joseph Marcotrigiano, Mrs. Jennifer Casiano-Matos

150-LCH. Elizabeth Hoke  
*SJL Mice Are Uniquely Resistant to Cryptococcus neoformans Due to Robust TH1 Immunity*  
University of Minnesota - Twin Cities (Minnesota)  
Preceptor: Dr. Michael Davis, Dr. June Kwon-Chung

151-LCH. Reafa Hossain  
*Interactions of Hepatitis C Virus E2 Protein with Antibodies and Host Receptors*  
James Madison University (Virginia)  
Preceptor: Dr. Joseph Marcotrigiano, Dr. Ashish Kumar

152-LCH. Haley Hullfish  
*The Implementation and Optimization of the Centralized Sequencing Initiative*  
University of Illinois Urbana-Champaign (Illinois)  
Preceptor: Mrs. Morgan Similuk

153-LCH. Tristan Jordan  
*A Nonhuman Primate Model for Genital HSV2 Infection That Results in Vesicular Vaginal Lesions and Reduced Susceptibility to Reinfection*  
University of Southern California (California)  
Preceptor: Dr. Kening Wang, Dr. Jeffrey Cohen

154-LCH. Amita Kashyap  
*Evaluation of the Stool and Buccal Microbiomes in Patients with Systemic Mastocytosis*  
Oregon State University (Oregon)  
Preceptor: Dr. Hirsh Komarow, Dr. Dean Metcalfe

155-LCH. Benjamin Kendall  
*Flavivirus Infection and Characterization of Male Ixodes scapularis ex vivo Salivary Gland Cultures*  
Carroll College (Montana)  
Preceptor: Dr. Marshall Bloom

156-LCH. Olivia Kern  
*Exploring a Culex quinquefasciatus Protein Family and Its Implications for Disease Transmission*  
Wellesley College (Massachusetts)  
Preceptor: Dr. Inés Martin-Martin, Dr. Eric Calvo
157-LCH. Alexander Kim
*Electron Microscopy and Image Processing: Essential Tools for Structural Analysis of Proteins*
University of Virginia (Virginia)
Preceptor: Dr. John Gallagher, Dr. Audray Harris

158-LCH. Ellen Kim
*Peptide Editing and MHC Binding Mechanisms of Tapasin and the related protein TAPBPR*
University of Oxford (Non-U.S.)
Preceptor: Dr. Kannan Natarajan, Dr. David Margulies

159-LCH. Ji Won Kim
*Beta-Tryptase Loss-of-function and Copy Number Loss are Associated with Complicated Dengue Virus Infection and Severe Sepsis*
University of California, Davis (California)
Preceptor: Dr. Jonathan Lyons

160-LCH. Jaclyn Kline
*Structural and Functional Characterization of Orphan Mouse Chemokine Receptor Ccr1l1 in vitro and in vivo*
Macalester College (Minnesota)
Preceptor: Dr. Sergio Pontejo, Dr. Philip Murphy

161-LCH. Kylie Konrath
*The Unique Behavior of mAbs: A Case Study of a VRC HIV mAb*
University of Portland (Oregon)
Preceptor: Dr. Slobodanka Manceva, Dr. Elihu Ihms

162-LCH. Caroline Kreitzer
*Evaluating the Efficacy of Keratinocyte Growth Factor Administration for Regeneration of Thymic Function in DSS-induced Colitis*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Elizabeth Kang

163-LCH. Ajinkya Limkar
*Determining the Role of Eotaxin-1 in Eosinophil Development in Order to Promote Heterogeneity via an ex vivo Culture System*
University of Minnesota, Twin Cities (Minnesota)
Preceptor: Dr. Helene Rosenberg

164-LCH. Qing (Taylor) Liu
*Approaches to Gene Editing in X-linked Hyper-IgM Disease*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Suk See DeRavin, Dr. Julie Brault
165-LCH. Meng Lou  
*Fluctuations in Microstate Promote Heterogenous T cell Responsiveness*  
University of Wisconsin - Madison (Wisconsin)  
Preceptor: Dr. Harikesh Wong, Dr. Ronald Germain

166-LCH. Sana Mahmood  
*Serum vs. Urine: Which Is a Better Biomarker of Eosinophilic Disease Activity?*  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Amy Klion

167-LCH. Eric Mai  
*Characterizing SiglecF+Gr1- and SiglecF+Gr1+ Mouse Bone marrow-derived Eosinophils (bmEos) Cultured ex vivo*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Helene Rosenberg

168-LCH. Madeleine Mankowski  
*Deconstructing Humoral Immunity to Flu: Interactions between Antibodies Targeting the HA Stem and Head*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Jonathan Yewdell

169-LCH. Keesha Matz  
*Favipiravir (T-705) protects female, but not male IFNAR-/- mice against lethal Zika virus infection*  
Washington State University (Washington)  
Preceptor: Dr. Heinz Feldmann, Dr. Andrea Marzi

170-LCH. Jessica Medrano  
*Isolation of Acidobacteria as a Prospective Source of Novel Tuberculosis Therapeutics*  
University of Florida (Florida)  
Preceptor: Dr. Clifton Barry

171-LCH. Danielle Mensah  
*Association of High Sub-telomeric Gene Expression and Brain Dissemination in Solid Organ Transplant Recipients with Cryptococcal Infection*  
University of Illinois at Urbana-Champaign (Illinois)  
Preceptor: Dr. Peter Williamson

172-LCH. Stephanie Mills  
*PrP Doesn't Alter La Crosse Virus Pathogenesis*  
Colorado State University (Colorado)  
Preceptor: Dr. Karin Peterson, Dr. Sue Priola
173-LCH. Jacob Mitchell  
*Application of Nanostring Technology to Quantify Interferon Response Gene Expression in Tissues and Cell Subsets from Patients with Autoinflammatory Diseases*  
Towson University (Maryland)  
Preceptor: Dr. Adriana Almeida de Jesus, Dr. Raphaela Goldbach-Mansky

174-LCH. Jonathan Nicklas  
*Optimization of Mycobacterial Gene Knockout by Recombineering*  
University of Scranton (Pennsylvania)  
Preceptor: Dr. Qinglan Wang, Dr. Clifton Barry

175-LCH. Jessica Nino de Rivera  
*Do Alpha Globin Gene Variants Affect Endothelial Function in Patients with Severe Malaria?*  
Cornell University (New York)  
Preceptor: Dr. Hans Ackerman

176-LCH. Samuel Owusu  
*Induction of Anti-HIV Chemokines by IL-7 and Identification of Signaling Pathways Leading to Their induction.*  
Cheyney University of Pennsylvania (Pennsylvania)  
Preceptor: Dr. Hana Schmeisser, Dr. Paolo Lusso

177-LCH. Andrew Paige  
*Transgenesis of Salivary Protein Genes Implicated in Arthropod-borne Disease Transmission in Aedes aegypti*  
New College of Florida (Florida)  
Preceptor: Dr. Eric Calvo

178-LCH. Monica Paneru  
*Stabilization of the Chimeric Bovine Human Parainfluenza Virus type 3 by Correcting the Hemagglutinin Neuraminidase Encoding Sequence*  
James Madison University (Virginia)  
Preceptor: Dr. Shirin Munir, Dr. Peter Collins

179-LCH. Mit Patel  
*A Powerful Tool for High-efficiency Production of HIV-1 Virus-like Particles (VLP) for Vaccine Use*  
Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Paolo Lusso

180-LCH. Jennifer Peek  
*Attempting to Establish an in vitro Culture System for Plasmodium vivax Parasites*  
College of William and Mary (Virginia)  
Preceptor: Dr. Karthigayan Gunalan, Dr. Louis Miller
181-LCH. Linh Pham
Optimizing Smartphone Symbol-digit Modalities Test for Measuring Disability in Multiple Sclerosis
Humboldt State University (Maryland)
Preceptor: Dr. Bibi Bielekova

182-LCH. Alyssa Pullano
Safety and Immunogenicity of a Replication-competent Ad4-H5-Vtn Vaccine Administered on the Upper Respiratory Tract
Georgetown University (District of Columbia)
Preceptor: Dr. Kenta Matsuda

183-LCH. Mitchell Ramuta
A Novel Universal Influenza Virus Vaccine Protects Mice and Ferrets from Multiple Subtypes of Influenza A Virus
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Jeffery Taubenberger, Dr. Jae-Keun Park

184-LCH. Jamie Redes
Alp1 Protease Mediates Airway Hyper-responsiveness in Asthma
Lafayette College (Pennsylvania)
Preceptor: Dr. Kirk Druey

185-LCH. Zoe Schmiechen
Dysregulation of TFH Cells Promotes Allergic Disease in Patients with Altered TGF-beta Signaling
Grinnell College (Iowa)
Preceptor: Dr. Pamela Guerrerio, Dr. Katherine Weissler

186-LCH. Anisha Sharma
Elucidating the Role of T-bet in B Cell Activation and Differentiation
Loyola University Chicago (Illinois)
Preceptor: Dr. Munir Akkaya

187-LCH. Juncheng Shen
Functional Annotation of ADAM/Caspase Expression Profiles in HIV-1 Infected CD4 T Lymphocytes
Johns Hopkins University (Maryland)
Preceptor: Dr. Peter Sun, Dr. Jason Segura

188-LCH. Tulley Shofner
Antigenicity and Immunogenicity of Non-stabilized and Stabilized HIV Envelope Designs Expressed by a Replication Competent Ad4 Vector
Dickinson College (Pennsylvania)
Preceptor: Dr. Mark Connors, Dr. Andy Patamawenu
189-LCH. Mary Sievers
*AtxA Binding and Regulation in Bacillus anthracis*
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Andrei Pomerantsev, Dr. Stephen Leppla

190-LCH. Margaret Smith
*Seeking Genes That Control Sexual Stage Development in Malaria*
Appalachian State University (North Carolina)
Preceptor: Dr. Carole Long

191-LCH. Kennedy Tobin
*A Personalized Cancer Vaccine Based on Self-assembling Nanoparticles Enhances the Breadth of Anticancer CD8 T Cell Immunity in Mice*
University of Washington (Washington)
Preceptor: Dr. Andrew Ishizuka, Dr. Faezzah Baharom

192-LCH. Miles Tyner
*Unraveling the Mechanism of Innate Immune Priming in Anopheles gambiae Mosquitoes*
Middlebury College (Vermont)
Preceptor: Dr. Carolina Barillas-Mury

193-LCH. Stephanie Williams
*Mapping Hemagglutinin Virulence in the 1918 Pandemic and in Swine H1N1 Influenza A Virus*
Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Jeffery Taubenberger, Dr. Li Qi

194-LCH. Roxanne Withers
*Thioester-containing Proteins in Anopheles albimanus Malaria Immunity*
Saint Michael's College (Vermont)
Preceptor: Dr. Gaspar Canepa, Dr. Alvaro Molina-Cruz

195-LCH. Tracey Zhai
*Association between HIV Antibodies and D-dimer: Role of "Defective" Proviruses*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Hiromi Imamichi

196-LCH. Shu Zhang
*Design of an Epstein-Barr Virus Vaccine That Targets the Virus Fusion Machinery*
University of Chicago (Illinois)
Preceptor: Dr. Wei Bu, Dr. Jeffrey Cohen
197-LCH. Anum Afzal
*Benzodiazepine-induced Potentiation of the Brain Hypoxic, Temperature, and Locomotor-inhibiting Effects of Heroin*
Loyola University Chicago (Illinois)
Preceptor: Dr. Eugene Kiyatkin

198-LCH. Sarah Applebey
*Role of Ventral Subiculum in Incubation of Oxycodone Craving after Electric Barrier-induced Voluntary Abstinence*
Lake Forest College (Illinois)
Preceptor: Dr. Yavin Shaham, Dr. Ida Fredriksson

199-LCH. Francisco Battiti
*The Significance of Chirality in Drug Design and Synthesis of Bitopic Ligands as D3 Receptor (D3R) Selective Agonists*
University of Illinois at Urbana Champaign (Illinois)
Preceptor: Dr. Amy Newman, Dr. Alessandro Bonifazi

200-LCH. Adam Brandner
*Effects of Withdrawal on Sleep Architecture in a Rodent Model of Alcohol Dependence*
Allegheny College (Pennsylvania)
Preceptor: Dr. Brooke Schmeichel

201-LCH. Courtney Cann
*Social Conditioned Place Preference as a Measure of Natural Reward*
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Leslie Whitaker, Dr. Bruce Hope

202-LCH. Juan Castillo
*Psilocybin Improves Cognitive Control and Downregulates Parietal Cortex in Treatment-seeking Smokers*
Claremont McKenna College (California)
Preceptor: Dr. Elliot Stein, Dr. John Fedota

203-LCH. Sam Cermak
*Evaluating the Efficacy of Transcranial Magnetic Stimulation (TMS) on Attenuating Cocaine Self-administration in Rats*
Binghamton University (New York)
Preceptor: Dr. Hanbing Lu
204-LCH. Lamarque Coke  
*Characterization of a Novel Rat Model for HIV Neuropathogenesis*  
Stockton University (New Jersey)  
Preceptor: Dr. Brandon Harvey

205-LCH. Reuben Don  
*The Effects of Amphetamine Sensitization on D1 Activity in the Nucleus Accumbens*  
Ohio State University (Ohio)  
Preceptor: Dr. Satoshi Ikemoto

206-LCH. Nancy Garibay  
*N-Alkyl Chain Length Dictates Biological Activity of Cumyl-derived Synthetic Cannabinoid Compounds*  
University of California, Davis (Maryland)  
Preceptor: Dr. Michael Baumann

207-LCH. Holly Hake  
*Identifying the Neural Circuit Underlying alpha-1 Adrenergic Receptor-dependent Excitation of the Dorsal Raphe*  
University of Colorado, Denver (Colorado)  
Preceptor: Dr. Stephanie Gantz, Dr. Antonello Bonci

208-LCH. Bree Humburg  
*Repurposing an Old Drug for New Tricks: Fenobam, an FDA-approved mGluR5 Antagonist, Attenuates Nicotine Reward in Rodent Models*  
Kansas State University (Kansas)  
Preceptor: Dr. Chloe Jordan, Dr. Zheng-Xiong Xi

209-LCH. Michelle Jin  
*Whole brain Immediate Early Gene Mapping during Relapse to Reward Seeking*  
Cornell University (New York)  
Preceptor: Dr. Sam Golden, Dr. Yavin Shaham

210-LCH. Sue Junn  
*Connections between the Medial Prefrontal Cortex and the Anteromedial Thalamic Nucleus Play a Role in Motivation of Goal-directed Behavior.*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Satoshi Ikemoto

211-LCH. Louisa Kane  
*Comparing Gene Expression Profiles of Neuronal Ensembles Mediating Food versus Cocaine Seeking via Fluorescence Activated Cell Sorting.*  
University of Michigan (Michigan)  
Preceptor: Dr. Javier Rubio, Dr. Bruce Hope
212-LCH. Caitlin Konya
*Effects of Cocaine on State Encoding in the Prelimbic Cortex*
University of Washington (Washington)
Preceptor: Mrs. Lauren Mueller, Dr. Geoffrey Schoenbaum

213-LCH. Hannah Korah
*Effect of Chronic Delivery of Novel mu Opioid Agonists on Relapse to Oxycodone Seeking*
University of Florida (Florida)
Preceptor: Dr. Jennifer Bossert

214-LCH. Veronica Lennon
*Role of Cortical Subregions in Discriminative Stimulus-controlled Incubation of Cocaine Craving*
Binghamton University (New York)
Preceptor: Dr. Bruce Hope, Dr. Rajtarun Madangopal

215-LCH. Leanne Liu
*Pharmacological Evaluation of the Sigma-1 Receptor through Oligomeric Response*
University of California, Los Angeles (California)
Preceptor: Dr. Lei Shi, Dr. Hideaki Yano

216-LCH. Olivia Lofaro
*Role of Orbitofrontal Cortex in Relapse to Fentanyl seeking after Food Choice-induced Voluntary Abstinence*
Wesleyan University (Connecticut)
Preceptor: Dr. David Reiner, Dr. Yavin Shaham

217-LCH. Sam McConnell
*Potential Role of Pannexin Channel 1 in Alcohol Dependence*
Grinnell College (Iowa)
Preceptor: Dr. Brendan Tunstall

218-LCH. Caitlyn Miller
*Characterization of Fos-expressing Neuronal Ensembles in the Prefrontal Cortex following Cocaine Place Conditioning Using the Fos-tTA System*
Johns Hopkins University (Maryland)
Preceptor: Dr. Leslie Whitaker, Dr. Bruce Hope

219-LCH. Casey Moffitt
*Elucidating Dysfunctional Frontal Neural Networks in Autism Mouse Model*
University of South Carolina (South Carolina)
Preceptor: Dr. Da-Ting Lin
220-LCH. Maria Magdalena Ortiz
*Fentanyl Vapor Self-administration in Mice: A Novel Non-invasive Pre-clinical Opioid Addiction Model*
San Francisco State University (California)
Preceptor: Dr. Khaled Moussawi

221-LCH. Leah Pappalardo
*Differentiating Monosynaptic Inputs to Ventral Tegmental Area or Rostromedial Tegmental Nucleus GABA Neurons*
Scripps College (California)
Preceptor: Dr. Carlos Mejias-Aponte, Dr. Marisela Morales

222-LCH. Keviin Peng
*Assessment of Transcranial Magnetic Stimulation Efficacy and Focality in an Awake Rat Model*
Rutgers University (New Jersey)
Preceptor: Dr. Hanbing Lu

223-LCH. David Perekopkiy
*The Peripheral Triggering of Heroin-induced Brain Hypoxia*
California State University, Sacramento (California)
Preceptor: Dr. Eugene Kiyatkin

224-LCH. Nishika Raheja
*The Role of Midbrain Dopaminergic Prediction Errors in Updating Reward Predictions Encoded by Orbitofrontal Cortex*
Ohio State University (Ohio)
Preceptor: Dr. Thomas Stalnaker, Dr. Geoffrey Schoenbaum

225-LCH. Trinity Russell
*Central Amygdala PKCδ-expressing Neurons Are Critical to Inhibition of Incubation of Methamphetamine Craving after Social Choice-induced Voluntary Abstinence*
Wesleyan University (Connecticut)
Preceptor: Dr. Marco Venniro

226-LCH. Davied Sanchez
*Sensitivity to Outcome Devaluation in Economic Choice Behavior Is Disrupted by Optogenetic Orbitofrontal Inactivation.*
Davidson College (North Carolina)
Preceptor: Dr. Matthew Gardner, Dr. Geoffrey Schoenbaum

227-LCH. Brooke Schleyer
*Simultaneous fMRI and Transcranial Magnetic Stimulation: A Preliminary Analysis of the Effects of TMS over the Dorsal Lateral Prefrontal Cortex*
Rutgers University (New Jersey)
Preceptor: Dr. Elisabeth Caparelli, Dr. Yihong Yang

228-LCH. Caroline Smith
*A History of a Ketogenic Diet Prevents the Escalation of Alcohol Drinking in Alcohol Dependence*
Johns Hopkins University (Maryland)
Preceptor: Dr. Leandro Vendruscolo

229-LCH. Morgan Spencer
*Isoform Specific Differences in KDEL Receptor Stability*
Colorado College (Colorado)
Preceptor: Dr. Brandon Harvey

230-LCH. Rajeev Subu
*Differential Regulation of Striatal Activating Transcription Factor 2 (ATF2) Associated with Compulsive Methamphetamine Taking under Punishment*
University of Georgia (Georgia)
Preceptor: Dr. Subramaniam Jayanthi, Dr. Jean Lud Cadet

231-LCH. Sophia Weber
*In vivo Labeling of Neuronal Ensembles in the Prelimbic Cortex Using a Photo-activatable Genetically Encoded Calcium Integrator*
University of Washington (Washington)
Preceptor: Dr. Rajtarun Madangopal, Dr. Bruce Hope

232-LCH. Kelsey Wright
*Striatal Zinc and Cocaine Abuse Vulnerability*
University of Rhode Island (Rhode Island)
Preceptor: Dr. Juan Gomez, Dr. Michael Michaelides

233-LCH. Wenxin Zhu
*Clozapine Dose-dependent DREADDS Activation of the Rat Prelimbic Cortex: A Pilot fMRI Study*
Rutgers University- New Brunswick (New Jersey)
Preceptor: Dr. Yuzheng Hu, Dr. Yihong Yang

National Institute on Deafness and Other Communication Disorders (NINDS)

234-LCH. Taimur Chaudhry
*Transcriptional Complexity of Human CDC14A*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Thomas Friedman, Dr. Ayesha Imtiaz
235-LCH. Wenqian Chen
*Transcriptional Profiling of Cdc14a in Mouse Cochlea*
University of California, Berkeley (California)
Preceptor: Dr. Ayesha Imtiaz, Dr. Thomas Friedman

236-LCH. Tucker Costain
*Identification of Exosome Associated Factors that Protect Against Aminoglycoside Induced Hair Cell Death*
University of Montana (Montana)
Preceptor: Dr. Lisa Cunningham, Dr. Melanie Barzik

237-LCH. Benjamin Gersten
*Ototoxicity and Platinum Uptake Following Cyclic Administration of Platinum-based Chemotherapeutic Agents in Mice*
Columbia University (New York)
Preceptor: Dr. Katharine Fernandez, Dr. Lisa Cunningham

238-LCH. Youji Hong
*ORC-13661 and Its Effects on Tumor Cell Killing by Cisplatin*
University of Washington (Washington)
Preceptor: Dr. Nicole Schmitt

239-LCH. Helen Maunsell
*Lrrn1 Regulates Medial Boundary Formation in the Mouse Cochlear Epithelium*
McGill University (Non-U.S.)
Preceptor: Dr. Matthew Kelley

240-LCH. Natalie Mosqueda
*The Role of Actr10 in Hair Cell and Ribbon Synapse Structure and Function*
University of Oregon (Oregon)
Preceptor: Dr. Katie Kindt, Dr. Katie Drerup

241-LCH. Erica Sadler
*Cell-specific Transcriptional Responses to Heat Shock in the Mouse Utricle Using the RiboTag Method*
Cornell University (New York)
Preceptor: Dr. Lisa Cunningham
National Institute of Environmental Health Sciences (NIEHS)

242-LCH. Aidin Alejo Abdala  
*Immunophenotyping of Subjects with Different APOL1 Genotypes Using the NIEHS Environmental Polymorphisms Registry*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Michael Fessler

243-LCH. Sierra Atwater  
*Interferon-induced GTPase Irgm1 Is Required for Efferocytic Clearance of Apoptotic Cells*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Michael Fessler, Dr. Prashant Rai

244-LCH. Whitney Bell  
*p53 Modulates the Expression of Host Restriction Factors to Reduce HIV-1 Replication*  
Meredith College (North Carolina)  
Preceptor: Dr. Daniel Menendez

245-LCH. Christine Bowen  
*Arsenic-induced Dysregulation of M1/M2 Responses of Microglia*  
Appalachian State University (North Carolina)  
Preceptor: Dr. Christopher Mcpherson, Dr. G. Harry

246-LCH. Lauren Carlson  
*The Effect of Body Fat on Pubertal Tempo in Healthy Girls*  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Natalie Shaw

247-LCH. Gabrielle Childers  
*NLRP3 Inflammasome Activation: A Mode of Action Underlying Mitochondrial Toxicants*  
Virginia Polytechnic Institute and State University (Virginia)  
Preceptor: Dr. Jean Harry

248-LCH. Harlie Cope  
*Effects of PFOA and GenX on Developmental Outcomes and Metabolism in CD-1 Mice*  
North Carolina State University (North Carolina)  
Preceptor: Dr. Suzanne Fenton

249-LCH. Alyssa D'Oyen, Frederick Miller  
*A Review of Environmental Risk and Protective Factors for Immune-Mediated Diseases*
University of North Carolina at Chapel Hill (North Carolina), Case Western Reserve University (Ohio)
Preceptors: Dr. Frederick Miller

250-LCH. Brian Elgart
Purification of Plasma Circulating Cell-free DNA and Development of Molecular Assays for Clinical and Toxicology Studies
East Carolina University (North Carolina)
Preceptor: Dr. Kevin Gerrish

251-LCH. Olivia Emery
The Role of Transcription Factor SRF in Female Fertility and Uterine Fibrosis
Virginia Military Institute (Virginia)
Preceptor: Dr. Francesco DeMayo, Dr. Steve Wu

252-LCH. Camille Giacobone
The Contribution of DNA Repair Defects to Genome-wide Human Somatic Mutation Load
Kalamazoo College (Michigan)
Preceptor: Dr. Natalie Saini, Dr. Dmitry Gordenin

253-LCH. Jacob Gordon
Regulation of the Essential Human Ribosomal RNA Processing Machinery, Las1L-Nol9
Appalachian State University (North Carolina)
Preceptor: Dr. Robin Stanley

254-LCH. Prateek Gowda
Developing a Quantitative Computed Tomography Assessment Tool for Calcinosis in Myositis
Johns Hopkins University (Maryland)
Preceptor: Dr. Adam Schiffenbauer, Dr. Marcus Chen

255-LCH. Tanner Jefferson
ESR1-Q375H Mutant Mouse Made to Model a Clinical Case of Estrogen Insensitivity
North Carolina State University (North Carolina)
Preceptor: Dr. Kenneth Korach, Dr. Yin Li

256-LCH. Christopher Juberg
In utero and Postnatal Offspring Exposure to 2,4,6-Tribromophenol after Oral (Gavage) Administration to Pregnant or Nursing Sprague-Dawley Rats
North Carolina State University (North Carolina)
Preceptor: Dr. Gabriel Knudsen

257-LCH. Anna Kenan
Molecular Signature of the Estrous Cycle in Mice
College of William & Mary (Virginia)
Preceptor: Dr. Carmen Williams, Dr. Wendy Jefferson

258-LCH. Susan Kim
*Structural and Functional Consequences of SMCHD1 Mutations Associated with Arhinia and Muscular Dystrophy*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Natalie Shaw

259-LCH. Hayley Lazar
*Mutations in CHD4 Lead to Domain Dependent Reduction in ATP Hydrolysis and Nucleosome Remodeling*
University of Connecticut (Connecticut)
Preceptor: Dr. Paul Wade, Dr. John Roberts

260-LCH. Helen Leka
*Caloric Restriction affects Metabolic and Stress Hormones Responses to Meals*
University of California, Los Angeles (California)
Preceptor: Dr. Janet Hall

261-LCH. Ahmed Mashal
*Standardization of Tissue Fixation Protocols for Molecular Studies*
North Carolina State University (North Carolina)
Preceptor: Dr. Arun Pandiri

262-LCH. Tejas Patel
*Exploring the Structure-Function Relationship of Ape2 Using Crystallography and Site-directed Mutagenesis*
Illinois State University (Illinois)
Preceptor: Dr. Robert Williams, Dr. Jessica Wojtaszek

263-LCH. Victoria Placentra
*Comparative Analysis of Mutation Signatures of Different Oxidizing Agents in Yeast Single Strand DNA*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Paul Doetsch, Dr. Natalya Degtyareva

264-LCH. Jeanne Powell
*DEFiNE: A Method for Enhancement and Quantification of Fluorescently Labeled Axons*
Cornell University (New York)
Preceptor: Dr. Patricia Jensen

265-LCH. Julian Rana
*Studies of DNA Ligase I Cdc9 Fidelity in Maintenance of Genome Stability*
Drexel University (Pennsylvania)
Preceptor: Dr. Jessica Williams

266-LCH. Alma Solis  
Microbiome Protects against Pulmonary Fibrosis through TLR5 Activation  
Northern Arizona University (Arizona)  
Preceptor: Dr. Stavros Garantziotis

267-LCH. Andrew Trexler  
GenX Inhibits P-glycoprotein and Breast Cancer Resistance Protein at the Blood-Brain Barrier  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Ronald Cannon, Dr. Linda Birnbaum

268-LCH. Chizoba Umesi  
Multiple Sleep Dimensions and Kidney Dysfunction: Findings from the Multi-ethnic Study of Atherosclerosis  
Duke University School of Medicine (North Carolina)  
Preceptor: Dr. Chandra Jackson

269-LCH. Nancy Urbano  
In vitro High-throughput Screening of Chemical-induced Oxidative Stress Using HepaRG Cells  
St. Mary's University (Texas)  
Preceptor: Dr. William Gwinn

National Institute on Minority Health and Health Disparities (NIMHD)

270-LCH. Aaron Broun  
Associations between Parental Practical and Emotional Support and Adolescent Smoking Behavior Transitions in a National Study  
Oberlin College (Ohio)  
Preceptor: Dr. Kelvin Choi

271-LCH. Charmaine Chan  
Serious Texting: Dropout and Cessation Outcomes of a National Text Messaging Smoking Cessation Intervention for Teens  
Vassar College (New York)  
Preceptor: Dr. Sherine El-Toukhy

272-LCH. Danielle Duarte  
Using Factorial Analysis to Profile the Attitudes of Adult Tobacco Users and Implications for Mediated Message Tailoring  
University of New Mexico (New Mexico)
Preceptor: Dr. Kelvin Choi

273-LCH. Cristian Escalera
*Social Support as a Moderator in the Relationship between Intrusive Thoughts and Psychological Distress among Spanish-speaking Latinas with Breast Cancer*
University of Georgia (Georgia)
Preceptor: Dr. Anna Nápoles

274-LCH. Lucy Jin
*Genome Variation Study in a Racially Diverse Breast Cancer Population*
University of Virginia (Virginia)
Preceptor: Dr. Jung Byun

275-LCH. Toluwa Omole
*Heterogeneity in Smoking Cessation Behaviors among Light/Intermittent Smokers*
Arizona State University (Arizona)
Preceptor: Dr. Kelvin Choi

276-LCH. Bonita Salmerón
*Geospatial Analysis of County Level Breast Cancer Incidence in Tennessee*
College of Wooster (Ohio)
Preceptor: Dr. Faustine Williams, Dr. Anna Napoles

National Library of Medicine

277-LCH. Brittney Blackburne
*In silico Prediction of Novel Microviridin Class Toxic Peptide Precursors*
Rutgers University (New Jersey)
Preceptor: Dr. Anastasia Nikolskaya

278-LCH. Max Savery
*Evaluation of System for Selective Indexing Classification*
Evergreen State College (Washington)
Preceptor: Dr. Dina Demner-Fushman
National Cancer Institute – Center for Cancer Research (NCI-CCR)

1-PM. Nicholas Aboreden
*Using Functional CRISPR-based Screening to Study EWS-FLI1 Activity in Ewing Sarcoma.*
Johns Hopkins University (Maryland)
Preceptor: Dr. Natasha Caplen

2-PM. Serifat Adebola
*Combining Single-cell Proteomics and Machine Learning for Robust Immunoprofiling of Clinical Cases*
New York City College of Technology (New York)
Preceptor: Dr. Gregoire Altan-Bonnet

3-PM. Anila Afzal
*Optimization of B-cell Expansion System*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Rachel Beyer

4-PM. Ameenat Akeeb, Samin Panahi
*Functioning of the Positive and Negative Affect Schedule (PANAS) and Geneva Emotion Wheel (GEW) in Severely Chronically Ill Patients*
Georgetown University (District of Columbia), University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Rezvan Ameli, Dr. Ann Berger

5-PM. Ben Akman
*Mapping the Interaction of BRD4 and c-MYC*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Devaiah Ballachanda, Dr. Amit Singh

6-PM. Anne Albright
*Transforming Growth Factor-beta Signaling in Germinal Center B Cells Promotes the Transition from Light Zone to Dark Zone Independently of IgA Induction*
University of Chicago (Illinois)
Preceptor: Dr. Jagan Muppidi

7-PM. Julie Alejo
*Interferonopathy in APECED Patients*
Loyola University Maryland (Maryland)
Preceptor: Dr. Stefania Pittaluga, Dr. Mihalis Lionakis
8-PM. Imani Alexander

*3D Visualization of the Metastatic Niche in Human Livers*
University of Alabama at Birmingham (Alabama)
Preceptor: Dr. Jonathan Hernandez

9-PM. Sara Alexander

*The Effect of Pseudomonas aeruginosa Alkylquinolones and Phenazines on Staphylococcus aureus*
University of Oklahoma (Oklahoma)
Preceptor: Dr. Anupama Khare

10-PM. Sarah Altman

*Examination of Aminophenol-containing Compounds Designed as Antiproliferative Agents and Potential Atypical Retinoids*
University of Texas at San Antonio (Texas)
Preceptor: Dr. Terrence Burke

11-PM. Megan Andres

*Gene Expression in Extracellular Vesicles from Proteasome Inhibitor Sensitive vs. Proteasome Inhibitor Resistant Multiple Myeloma Cells*
University of North Georgia (Georgia)
Preceptor: Dr. Beverly Mock, Dr. Rania Labib

12-PM. Nima Assad

*A High-throughput Platform to Examine G-quadruplex DNA Binding Specificity*
University of California, San Diego (California)
Preceptor: Dr. Charles Vinson

13-PM. Sukriti Bagchi

*Lineage Specific Transcription Factor SOX11 Drives Cell Growth and SOX4 Induces Differentiation in Neuroblastoma*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Deblina Banerjee, Dr. Carol Thiele

14-PM. Meriam Bahta

*Combination Therapy Using Osimertinib, a 3rd Generation EGFR TKI, and Dactolisib, a Dual PI3K/mTOR Inhibitor, in Overcoming Osimertinib Resistant Lung Adenocarcinoma.*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Udayan Guha, Dr. Tapan Maity

15-PM. Francine Baker

*Cystathionine-Beta Synthase, a Key Enzyme in Estrogen Receptor-negative Breast Cancer*
University of Maryland, College Park, School of Public Health (Maryland)
Preceptor: Dr. Tsion Minas, Dr. Stefan Ambs
16-PM. Adrian Baris
_Sirtuin1 Protects the Genome by Inhibiting Excess DNA Replication via Interactions with the Minichromosome Maintenance Complex_  
Scripps College (California)  
Preceptor: Dr. Mirit Aladjem

17-PM. Anna Belford
_A Machine learning Model Built on the Genomic Composition of DNA Tumor Viruses to Predict Evolutionary Mechanisms and Taxonomic Classification_  
Saint Martin's University (Washington)  
Preceptor: Dr. Chris Buck

18-PM. Meghan Bell
_Development of GPC3-targeted Imaging Agents in Hepatocellular Carcinoma (HCC)_  
State University of New York - Binghamton (New York)  
Preceptor: Dr. Freddy Escorcia

19-PM. Sarah Bergholtz
_Chemoproteomic Profiling of the Oncometabolite Fumarate_  
University of Michigan (Michigan)  
Preceptor: Dr. Jordan Meier

20-PM. Jenna Bingham
_Altered Glycolytic Dependence of Cancer Cells in Response to Radiation Therapy_  
Indiana University (Indiana)  
Preceptor: Dr. Aparna Kesarwala

21-PM. Ben Birkenfeld
_Generating CRISPR-Cas9 Guide RNAs Using the microRNA Biogenesis Pathway_  
Amherst College (Massachusetts)  
Preceptor: Dr. Xavier Bofill de Ros, Dr. Shuo Gu

22-PM. Quinton Brail
_A Synthetic System to Study Gene Expression Regulation by Metabolic Rewiring_  
University of California, Berkeley (California)  
Preceptor: Dr. Pedro De Oliveira Batista

23-PM. Chloe Briney
_Photoinducible Detection of the Oncometabolite Fumarate_  
Grinnell College (Iowa)  
Preceptor: Dr. Jordan Meier
24-PM. Keri Bryson
*Profiling N4-acetylcytidine with Specific Affinity and Reactivity*
Bridgewater State University (Massachusetts)
Preceptor: Dr. Jordan Meier

25-PM. Grace Bugos
*Characterization of the Role of Grb2-binding Protein c-Cbl in TCR-mediated Calcium Signaling*
Case Western Reserve University (Ohio)
Preceptor: Dr. Lawrence Samelson, Dr. Ana Dios Esponera

26-PM. Patricia Bunda
*Developing Transplantable Models of Murine Metastatic Melanoma*
University of California, Los Angeles (California)
Preceptor: Dr. Helen Michael, Dr. Glenn Merlino

27-PM. Madison Butler
*Inhibition of DNA Topoisomerase 1 and poly(ADP-ribose) Polymerase Induces Glioblastoma Cell Death*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Jing Wu, Dr. Yves Pommier

28-PM. Hannah Carter
*Role of FIP1C and Rab14 in HIV-1 Envelope Glycoprotein Incorporation*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Melissa Fernandez, Dr. Eric Freed

29-PM. Morgan Carter
*Targeting Mechanisms of Camptothecin Resistance in Ewing Sarcoma Using a High-throughput Drug Screening Assay*
University of Virginia (Virginia)
Preceptor: Dr. John Shern, Dr. Carly Sayers

30-PM. Sakereh Carter
*A Novel Cofactor KAT2A Mediates N-Myc Stability and Oncogenic Activity in N-Myc Amplified NB Cells*
California State University, Sacramento (California)
Preceptor: Dr. Zhihui Liu, Dr. Carol Thiele

31-PM. Alexander Chan
*Identification of Surface Proteases Involved in Mesothelin Shedding for Enhancement of Immunotoxin Therapy*
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Ira Pastan
32-PM. Carissa Chan
*Cell-Cell Communication Drives Phenotypic Heterogeneity in a Population of Differentiating Bacteria*
University of California, Los Angeles (California)
Preceptor: Dr. Kumaran Ramamurthi, Dr. Thomas Delerue

33-PM. Srividya Chandrasekhar
*Developing Mouse Models to Dissect Argonaute Functions in vivo*
Rensselaer Polytechnic Institute (New York)
Preceptor: Dr. Joana Vidigal

34-PM. Noah Chen
*Production and in vitro Characterization of Recombinant Immunotoxin Against CTLA-4*
University of Michigan (Michigan)
Preceptor: Dr. Masanori Onda, Dr. Ira Pastan

35-PM. Austin Chiappetta
*Mechanisms of mRNA Acetylation*
University of Northwestern - St. Paul (Minnesota)
Preceptor: Dr. Daniel Arango, Dr. Shalini Oberdoerffer

36-PM. George Chrisafis
*Polarized Distribution of Rab13 and Net1 mRNAs during Collective Invasion*
University of Vermont (Vermont)
Preceptor: Dr. Stavroula Mili

37-PM. Monika Chung
*Investigating the Role of Microglia in Protection against Breast Cancer Metastasis to the Aged Brain.*
University of Cambridge (Non-U.S.)
Preceptor: Dr. Lalage Wakefield

38-PM. Victor Collins
*In vitro Evaluation of Topoisomerase Inhibitors in Pediatric Sarcomas*
University of Akron (Ohio)
Preceptor: Dr. Christine Heske

39-PM. Dominique Daly
*Pharmacokinetics of Recombinant Immunotoxins Targeting Mesothelin or BCMA*
Hampton University (Virginia)
Preceptor: Dr. Ira Pastan, Dr. Tapan Bera
40-PM. Andrew DeLaitis
Immunological Evolution of Antibodies to the Tumor Associated Lewis-Y Antigen
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Jeffrey Gildersleeve

41-PM. Ivan Dingle
Site-specific Labeling Improves the Properties of Fluorophore-Antibody Conjugates for in vivo Imaging
The Citadel (South Carolina)
Preceptor: Dr. Martin Schnermann

42-PM. Alexander Doan
Coordination of the Replication of the Two Chromosomes in Vibrio cholerae
Duke University (North Carolina)
Preceptor: Dr. Revathy Ramachandran, Dr. Dhruba Chattoraj

43-PM. Anna Duemler
Production of Autologous Monocytes Stimulated ex vivo with Sylatron (peg-interferon alfa 2b) and Actimmune (interferon gamma 1b) for Intraperitoneal Administration in Phase 1 Clinical Trial
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Daniel Green, Dr. Christina Annunziata

44-PM. Eliza Duvall
Single Cell Transcriptome and ATAC-seq Analysis Reveal Pancreatic Hormone Lineage Decisions
Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Efsun Arda

45-PM. Olivia Feehan-Nelson
Investigating the Regulation of PAX-FOXO1 Fusion-negative Rhabdomyosarcoma Differentiation through the Arf Pathway
Lawrence University (Wisconsin)
Preceptor: Dr. Katie Hebron, Dr. Paul Randazzo

46-PM. Juliet Fink
Quantitative Difference in PLZF Protein Expression Determines iNKT Lineage Fate
Colorado College (Colorado)
Preceptor: Dr. Jung Hyun Park, Dr. Juntae Kwon

47-PM. Sarah Fuller
Characterization of Pulmonary Function in Patients with Multiple Endocrine Neoplasia Type 2B (MEN2B)
University of Connecticut (Connecticut)
Preceptor: Dr. John Glod, Dr. Jaydira Del Rivero
48-PM. Erin Fykes
Myf6 Expression as a Potential Biomarker for Classic Hairy Cell Leukemia
Washington and Lee University (Virginia)
Preceptor: Dr. Robert Kreitman, Dr. Evgeny Arons

49-PM. Kelsey Gallant
High-throughput Imaging of DNA Damage Biomarkers in Primary Human Immune Cells
Spelman College (Georgia)
Preceptor: Dr. Gianluca Pegoraro, Dr. Tom Misteli

50-PM. Joseph Garvey
Investigating the Role of Calcineurin in Calcium-dependent TCR Microcluster Kinetic Lags
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Lakshmi Balagopalan, Dr. Lawrence Samelson

51-PM. Anna Gibson
Nicotinamide Phosphoribosyltransferase (NAMPT) as a Target in Ewing sarcoma
Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Christine Heske

52-PM. Caroline Gilmore
Restricting Diffusive Exchange in vitro Demonstrates Nos2 Modulates Hypoxic Gradients in the Tumor Microenvironment
University of Richmond (Virginia)
Preceptor: Dr. Will Heinz

53-PM. Miguel Gomez
Development of Novel Low-molecular-weight Fluorophores
New York City College of Technology (CUNY) (New York)
Preceptor: Dr. Siddharth Matikonda, Dr. Martin Schnermann

54-PM. Jacob Gross
Integrative Analysis of DNA Replication Sequencing Data
University of Maryland, College Park (Maryland)
Preceptor: Dr. Mirit Aladjem, Dr. Lorinc Pongor

55-PM. Sabina Gudmundsson
Mycoplasma pulmonis as a Model Organism for the Study of Bacterial Histone-like Protein HU
Lehigh University (Pennsylvania)
Preceptor: Dr. Subhash Verma, Dr. Sankar Adhya
56-PM. Nicholas Gutsche
_Developing Radiopharmaceuticals for Imaging and Therapeutic Approaches to Hepatocellular Carcinoma_
Kenyon College (Ohio)
Preceptor: Dr. Freddy Escorcia

57-PM. Lillian Hallmark
_A CRISPR/Cas9 Activation Screen to Identify the Cellular Regulators of the miRNA Microprocessor_
University of Maryland, College Park (Maryland)
Preceptor: Dr. Lisheng Dai, Dr. Shuo Gu

58-PM. Nikki Hatamian
_The Neuro-Oncology Branch (NOB) Natural History Study: Improving Data Collection and Feasibility through an NOB Clinical Research Trainee Extender (CoRTEX) Role_
University of California, Irvine (California)
Preceptor: Dr. Terri Armstrong

59-PM. Sara Hazaveh
_Efficacy of a Novel DNA Methyltransferase Inhibitor Using an in vivo Model of Myelodysplastic Syndrome (MDS)_
Rutgers University- New Brunswick (New Jersey)
Preceptor: Dr. Peter Aplan, Dr. Yang Jo Chung

60-PM. Audrey Heffner
_Substrate Binding by DnaJ, a C cochaperone of E. coli Hsp70_
University of Maryland, College Park (Maryland)
Preceptor: Dr. Sue Wickner, Dr. Shannon Doyle

61-PM. Edjay Ralph Hernandez
_Evaluating the Efficacy of a Small Molecule Compound, ARS-1620, in KRAS G12C Mutated Pediatric Cancer_
Minot State University (North Dakota)
Preceptor: Dr. Marielle Yohe

62-PM. Megan Hess
_T-Cell Function in the Context of IFN-γ_
Creighton University (Nebraska)
Preceptor: Dr. Howard Young

63-PM. Christopher Hogge
_Systemic and Mucosal Humoral Immunity Induced by Ad-SIV Recombinant Vaccines Delayed SIV Acquisition and Enhanced Viremia Control in Rhesus Macaques_
Wake Forest University (North Carolina)
Preceptor: Dr. Marjorie Guroff, Dr. Sabrina Hel mold-Hait

64-PM. Maran Ilanchezhian
Clinical Characterization of Patients with SDHC Epimutation in Gastrointestinal Stromal Tumors
College of William & Mary (Virginia)
Preceptor: Dr. Fernanda Arnaldez, Dr. John Glod

65-PM. Joy Johnson
Engineering Bacteriophage T7 to Target Phage Resistance in Escherichia coli
University of California, San Diego (California)
Preceptor: Dr. Manoj Rajaure, Dr. Sankar Adhya

66-PM. Morgan Johnson
Do Breast Cancer Secreted Exosomes impact IFN-g Cell Signaling?
St. John Fisher College (New York)
Preceptor: Dr. Howard Young, Dr. Julio Valencia

67-PM. Sarah Joseph
Molecular Dissection of Pro-tumorigenic Activity of Mesothelin in Pancreatic Cancer
Georgetown University (District of Columbia)
Preceptor: Dr. Christine Alewine

68-PM. Erina Kamiya
Expanding the Limits of 3D Fluorescence Microscopy
Lafayette College (Pennsylvania)
Preceptor: Dr. Valentin Magidson

69-PM. Farrah Karimipour
The Role of TCR Affinity in Mediating Tumor Regression with Adoptive T Cell Therapy
Florida State University (Florida)
Preceptor: Dr. John Davies

70-PM. Fehad Khan
Multiplexed CRISPR/Cas9 Gene Knockout with Simple crRNA:tracrRNA Co-transfection
Boston College (Massachusetts)
Preceptor: Dr. Ji Luo

71-PM. Sophia Khan
Exploring Mechanisms of Resistance to Vandetanib in Medullary Thyroid Carcinoma
University of Maryland, College Park (Maryland)
Preceptor: Dr. John Glod
72-PM. Bryce Killingsworth  
*Optimization of Labels for EV Repertoire Analysis*  
University of California, San Diego (California)  
Preceptor: Dr. Jennifer Jones, Dr. Joshua Welsh

73-PM. Jessica Kindrick  
*Analysis of Bortezomib Pharmacokinetics and CYP3A4-Mediated Drug-Drug Interactions in a Pediatric Leukemia Patient*  
Georgetown College (Kentucky)  
Preceptor: Dr. Cody Peer, Dr. William Figg

74-PM. Martina Knechel  
*Regulation of Organic Anion Transporting Polypeptide (OATP) 1B3 in Prostate Cancer Cells*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. William Figg, Dr. Douglas Price

75-PM. Julianna Kostas  
*Knock-down of ARID1A and ARID1B in an Adenocarcinoma Prostate Cancer Cell Line to Recapitulate the Neuroendocrine Transdifferentiation Phenotype*  
Williams College (Massachusetts)  
Preceptor: Dr. Michael Beshiri

76-PM. Samuel Kouatcheu  
*Thyroid Nodules in XP Patients*  
Florida Agricultural and Mechanical University (Florida)  
Preceptor: Dr. Kenneth Kraemer

77-PM. Stacey Krepel  
*High Glucose Promotes Human Glioblastoma Cell Growth by Increasing the Expression and Function of Chemoattractant and Growth Factor Receptors*  
University of Alaska, Fairbanks (Alaska)  
Preceptor: Dr. Ji Ming Wang, Dr. Zhiyao Bao

78-PM. Alex Kuznetsov  
*Kinetic Analysis of TIMP-2 Biotherapeutic Following Systemic Administration*  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. William Stetler-Stevenson

79-PM. Khiem Lam  
*Microbiota Shapes the Tumor Microenvironment and Regulates Tumor Growth*  
Oregon State University (Oregon)  
Preceptor: Dr. Romina Goldszmid, Dr. Romina Araya
80-PM. Sarah B. Lazar
*Genome-wide Analysis of Gene Regulation by FOXA1 in Colorectal Cancer*
Women's Institute of Torah Seminary (Maryland)
Preceptor: Dr. Ashish Lal

81-PM. Alex Lee
*Rho-associated Protein Kinase (ROCK) Inhibition Reduces Ras-induced Senescence*
University of Hawaii at Manoa (Hawaii)
Preceptor: Dr. Luowei Li

82-PM. Nicole Leggiero
*Use of Virtual Reality for Symptom Management: Application in Neuro-Oncology*
Montgomery College (Maryland)
Preceptor: Dr. Terri Armstrong, Dr. Amanda King

83-PM. Iris Li
*Insights into the Interaction between Sgo1 and the Chromosomal Passenger Complex*
University of California, Berkeley (California)
Preceptor: Dr. Alexander Kelly

84-PM. Hanne Lind
*IL-8 Signaling in Head and Neck Squamous Cell Carcinoma*
University of Michigan (Michigan)
Preceptor: Dr. Claudia Palena

85-PM. Natalie Lindo
*Analysis Of Rebound HIV Viremia during PML-IRIS*
Johns Hopkins University (Maryland)
Preceptor: Dr. Frank Maldarelli, Dr. Camille Lange

86-PM. Hannah Lou
*Functional Validation of Genes at Bivalent Domains in Treating Malignant Peripheral Nerve Sheath Tumor Cells*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Jack Shern, Dr. Xiyuan Zhang

87-PM. Kimberly Lukasik
*CPAP Is Essential for Centriole Structuring but Not for Mitotic Centrosome Maturation*
Shepherd University (West Virginia)
Preceptor: Dr. Jadranka Loncarek

88-PM. Gaelyn Lyons
*Mass Spectrometry Analysis of Protein Interactors for rre-Let-7 MiRNA*
Eastern University (Pennsylvania)
Preceptor: Dr. Lisa Jenkins

89-PM. Marisa Maisiak
*TRAP1 Deletion Alters the Metabolic Profile of Bladder Cancer Cells*
University of California, Berkeley (California)
Preceptor: Dr. Li Dai

90-PM. Yasuko Mano
*Does Skin Allograft Rejection Require CD4+ T Cells to be Helper and CD8+ T Cells to be Cytotoxic?*
Massachusetts Institute of Technology (Massachusetts)
Preceptor: Dr. Miho Shinzawa, Dr. Alfred Singer

91-PM. Shannon Martello
*Comparative Analysis of RNA Expression Profiles in Different Strains of Mice Following Whole-body Irradiation*
Johns Hopkins University (Maryland)
Preceptor: Dr. Molykutty Aryankalayil, Dr. Norman Coleman

92-PM. Andrew McGowan
*Identification of Glucocorticoid Receptor Coregulators at a Single Genomic Locus*
Dickinson College (Pennsylvania)
Preceptor: Dr. Diana Stavreva

93-PM. Claudia Meyer
*Understanding the Role of gp78 in Metastatic Breast Cancer*
Juniata College (Pennsylvania)
Preceptor: Dr. Yien Che Tsai

94-PM. Kimberly Meza
*Lineage Tracing Nucleotide Polymorphisms via Whole Genome Sequencing in Normal, Premalignant, and Malignant Mammary Populations*
Barnard College of Columbia University (New York)
Preceptor: Dr. Gilbert Smith

95-PM. Preeti Mohan
*Development of a System to Distinguish Translated and Untranslated HIV-1 RNA in Cells*
Northwestern University (Illinois)
Preceptor: Dr. Jianbo Chen, Dr. Wei-Shau Hu

96-PM. Susana Najera
*NAMPT Inhibitor (GMX1778) as a Novel Therapeutic Agent for HLRCC Patients*
Johns Hopkins University (Maryland)
Preceptor: Dr. Marston Linehan, Dr. Jordan Meier
97-PM. Jenny Nathans  
*Gradually Increasing Cyclin D1 to p21 Ratio through G1 Confers Cell-cycle Commitment Inertia*  
Yale University (Connecticut)  
Preceptor: Dr. Steven Cappell

98-PM. Aaron Nelson  
*Analysis of Cross Platform, Inter-Laboratory, and Intra-Laboratory Variability in Flow Cytometric Quantification of Antigen Expression and Development of Controls for Standardization*  
Ursinus College (Pennsylvania)  
Preceptor: Dr. Maryalice Stetler-Stevenson

99-PM. Victoria Nguyen  
*Precision Immunotherapy with CD206 Small Molecule Modulators Selectively Targeting M2-like Tumor-associated Macrophages*  
George Mason University (Virginia)  
Preceptor: Dr. Udo Rudloff, Dr. Rushikesh Sable

100-PM. Lily O’Connor  
*The RNA Binding Lupus Autoantigen Ro60 Is Complexed with the 3’ to 5’ Exoribonuclease Polyrribonucleotide Nucleotidyltransferase 1 in Human Cells and Accumulates in the Nucleus during Apoptosis*  
University of Puget Sound (Washington)  
Preceptor: Dr. Sandra Wolin, Dr. Soyeong Sim

101-PM. Michelle Pan  
*Is Autocrine IL-36 Signaling Oncogenic RAS Achilles’ Heel in Epidermal Keratinocytes?*  
Franklin and Marshall College (Pennsylvania)  
Preceptor: Dr. Christophe Cataisson, Dr. Stuart Yuspa

102-PM. Ruchi Patel  
*Selection for Cisplatin-resistance Confers Resistance to Anti-microtubule Drugs*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Michael Gottesman, Dr. Sachi Horibata

103-PM. Emily Peluso  
*Two Dimensional Ratchet Model Describes the Assembly of a Bacterial Supramolecular Structure*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Kumaran Ramamurthi

104-PM. Phuong Pham  
*Characterization of Potent Second Generation HIV-maturation Inhibitors*  
Macalester College (Minnesota)  
Preceptor: Dr. Rachel van Duyne
105-PM. Anaisa Quintanilla-Arteaga
*MCL-1 Inhibitors Sensitize Proteasome Inhibitor Resistant Multiple Myeloma Cells*
Georgetown University (District of Columbia)
Preceptor: Dr. Beverly Mock, Dr. Snehal Gaikwad

106-PM. Haris Qureshi
*Evaluating the Chimeric Antigen Receptor (CAR) T Cell Immune Synapse in the Development of ALL and AML CAR-T Therapies*
University of Connecticut (Connecticut)
Preceptor: Dr. Haiying Qin

107-PM. Vanitha Raguveer
*Discovery of a KK-LC-1 Specific HLA-A*02:01* Restricted T-cell Receptor Targeting Epithelial Cancers*
Case Western Reserve University (Ohio)
Preceptor: Dr. Lindsey Draper

108-PM. Morgan Riba
*Integrative Analysis of High-throughput Drug Screening Data for a PDX/Organoid Biobank of Advanced Prostate Cancers*
Texas A&M University (Texas)
Preceptor: Dr. Kathy Kelly

109-PM. Genesis Rivera-Marquez
*Small Molecule Inhibitors of Hsp40 and Hsp70 Destabilize Multiple Nuclear Receptors in Castration-resistant Prostate Cancer*
Johns Hopkins University (Maryland)
Preceptor: Dr. Leonard Neckers

110-PM. Andrea Robinson
*Co-expression of ABCB1 and ABCG2 Reveals Independent and Additive Transporter Function*
University of North Texas (Texas)
Preceptor: Dr. Michael Gottesman, Dr. Robert Robey

111-PM. Elba Rojano Gonzalez
*Characterizing the Selection of Autoreactive Thymocytes in the Thymus*
University of Texas at San Antonio (Texas)
Preceptor: Dr. Alfred Singer, Dr. Xuguang Tai

112-PM. Uriel Rose
*Role of the Microbiota in Primary Lung Cancer Initiation and Progression*
Alabama State University (Alabama)
Preceptor: Dr. Marie Vetizou
113-PM. Abraham Sachs
*Enhancing the Detection of Cysteine-containing Cancer Neopitopes*
College of William & Mary (Virginia)
Preceptor: Dr. Paul Robbins

114-PM. Natalie Sahabandu
*Enlarge to See: Expansion Microscopy in the Analysis of Centrioles*
University of California, Davis (California)
Preceptor: Dr. Jadranka Loncarek

115-PM. Natalia Salinas Parra
*Testing the EPAC Inhibitor ESI-09 in Basal Cell Carcinoma Treatment*
Yale University (Connecticut)
Preceptor: Dr. Ramiro Iglesias-Bartolome

116-PM. Daniel Schilling
*Using Quantitative Image Analysis and CRISPRi/CRISPRa Approaches to Explore Deubiquitinating Enzymes as Mutant-p53 Modulators in Ovarian Cancer Cells*
Ohio State University (Ohio)
Preceptor: Dr. Ettore Appella

117-PM. Zoe Shancer
*Recombinant Immunotoxins Targeting B-cell Maturation Antigen Induce Complete Responses in Two Bone Marrow Myeloma Mouse Models*
Vanderbilt University (Tennessee)
Preceptor: Dr. Ira Pastan, Dr. Tapan Bera

118-PM. Priya Shankarappa
*Improving Blood-Brain Barrier Penetration of Temozolomide (TMZ) in a Healthy and Diseased Murine Model*
Northwestern University (Illinois)
Preceptor: Dr. Cody Peer, Dr. Sadhana Jackson

119-PM. Impana Shetty
*Regulation of the Male-specific Oncogene CDCA7L in Glioblastoma*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Karlyne Reilly

120-PM. Mark Sokolsky
*IL1R2 Expression in Hairy Cell Leukemia and Hairy Cell Leukemia Variant*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Robert Kreitman, Dr. Evgeny Arons
121-PM. Xayathed Somoulay
*Investigating Cis-acting Elements Important for HIV-1 Genomic RNA Packaging*
St. John Fisher College (New York)
Preceptor: Dr. Olga Nikolaitchik, Dr. Wei-Shau Hu

122-PM. Megan Stefkovich
*Establishing Patient-derived Liver Tumoroid-immune Cell Co-cultures to Model Immunotherapy Response*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Natalie Porat-Shliom

123-PM. Varun Subramanyam
*Analysis of Human InnateLymphoid Cells in the Peripheral Blood of Hepatocellular Carcinoma Patients*
Purdue University (Indiana)
Preceptor: Dr. Tim Greten, Dr. Bernd Heinrich

124-PM. Eve Suva
*A Specific SUMO Consensus Site Leads to the Incorporation of Centromeric Histone H3 into Chromatin*
University of California, Santa Cruz (California)
Preceptor: Dr. Kentaro Ohkuni, Dr. Munira Basrai

125-PM. Logan Tenney
*Structure Guided Design of Synthetic Ligands for the PreQ1 Riboswitch*
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. John Schneekloth, Dr. Robert Boer

126-PM. Lisa Thammavong
*Temporal Dynamics and Stability of an Artificial Microbiota Consortium in Gnotobiotic and in vitro Assays*
Iowa State University (Iowa)
Preceptor: Dr. Giorgio Trinchieri, Dr. John McCulloch

127-PM. Abigail Thorpe
*Computational Analysis, Characterization, and Validation of Barcoded SIV and SHIVs to Track Viral Lineages in Nonhuman Primates*
George Washington University (District of Columbia)
Preceptor: Dr. Brandon Keele

128-PM. Zachary Torrey
*Binding and Inhibition of NRAS mRNA with Drug-like Small Molecules*
George Mason University (Virginia)
Preceptor: Dr. John "Jay" Schneekloth Jr.
129-PM. Van Truong
*Exploding the T-cell Variability Landscape Using Pharmacological Perturbations*
Johns Hopkins University (Maryland)
Preceptor: Dr. Gregoire Altan-Bonnet

130-PM. Aniekanabasi Ufot
*5-Formylcytosine and 5-Carboxylcytosine Strengthen Binding of the B-ZIP Homodimers CREB1 and ATF2 and the Heterodimers ATF3/cJun and cFos/cJun*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Charles Vinson

131-PM. Nicholas Verdini
*Prognostic Value of Sequential 18F-FDG + Na18F PET/CT in Metastatic Genitourinary Cancer Patients Treated With Cabozantinib/Nivolumab +/- Ipilimumab*
Emmanuel College (Massachusetts)
Preceptor: Dr. Andrea Apolo

132-PM. Ariana Vitale
*Characterizing CEBPD and Its Target Genes’ Expression in Inflammatory Breast Cancer*
Edward Waters College (Florida)
Preceptor: Dr. Balamurugan Kuppusamy

133-PM. Yamini Vyas
*Studying the Correlation between Patient Reported Outcomes and Symptomatic Adverse Events in Brain Tumor Patients Receiving Immunotherapy*
Johns Hopkins University (Maryland)
Preceptor: Dr. Terri Armstrong, Dr. Mark Gilbert

134-PM. Jessica Yau
*The Effects of Changes in Lipid Sstructures of beta-mannosylceramide in the Activation of Invariant Natural Killer T cells and Stimulation of Anti-tumor Immunity*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Jay Berzofsky, Dr. Masaki Terabe

135-PM. Alex Zhang
*Cryo-EM Studies of Redox-dependent Conformational Change in the Mitochondrial Complex III: Implications for Its Function*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Di Xia

136-PM. Ray Zhang
*Cell-specific and Cytoplasmic Domain Requirements for CD40 Function in Immune Development and Responses*
Duke University (North Carolina)
Preceptor: Ms. Ying Lu, Dr. Richard Hodes

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

137-PM. Daina Eiser
Mapping the Epigenomic Landscape of Pancreatic Cell Lines
University of Maryland, College Park (Maryland)
Preceptor: Dr. Jason Hoskins, Dr. Laufey Amundadottir

138-PM. Naomi Gordon
Elucidating Mechanisms Contributing to Pancreatic Cancer Risk at the chr22q12.1 Locus
University of Pennsylvania (Pennsylvania)
Preceptor: Dr. Ashley Jermusyk, Dr. Laufey Amundadottir

139-PM. Cole Graham
Using Burden Testing of Whole-exome Sequencing Data to Examine the Relationship between CDKN2A Mutation Carrier Status and Pancreatic Cancer
Swarthmore College (Pennsylvania)
Preceptor: Dr. Alisa Goldstein

140-PM. Seraph Han-Yin Lin
Alternative Splicing of APOBEC3B as an Intrinsic and Targetable Modulator of APOBEC-mediated Mutagenesis
University of Maryland, College Park (Maryland)
Preceptor: Dr. Ludmila Prokunina-Olsson, Dr. Rouf Banday

141-PM. Lindsey Mehl
Functional Analysis of Tanning and Melanoma Risk Locus chr7p21.1 Implicates the Aryl Hydrocarbon Receptor (AHR)
Northwestern University (Illinois)
Preceptor: Dr. Kevin Brown

142-PM. Alaina Shreves
Exploring Cancer Risks for the Diethylstilbestrol (DES) Third Generation
College of William & Mary (Virginia)
Preceptor: Dr. Robert Hoover

143-PM. Mone’t Thompson
Prevalence of PARN Germline Mutations in Disease and the General Population
Bowie State University (Maryland)
144-PM. Andrew Vu  
Massively Parallel Reporter Assays Combined with Cell-type Specific eQTL Identified a Functional Melanoma Risk Variant in MX2 gene  
University of Michigan (Michigan)  
Preceptor: Dr. Kevin Brown, Dr. Jiyeon Choi

National Human Genome Research Institute (NHGRI)

145-PM. Courtney Benoit  
Modeling Vitamin B12 Deficiency in Zebrafish: The Loss of the Transport Protein Tcn2 Produces New Phenotypes in Successive Generations  
Colgate University (New York)  
Preceptor: Dr. Lawrence Brody

146-PM. Cassidy Burke  
Development of a Mouse Model of Immune-mediated Metabolic Decompensation in Leigh Syndrome  
University of Virginia (Virginia)  
Preceptor: Dr. Peter McGuire

147-PM. Julia Byeon  
Explaining Phenotypic Variation in Sickle Cell Disease: A Microbiomic, Transcriptomic, and Genomic Investigation of the Leg Ulcer Complication  
University of Chicago (Illinois)  
Preceptor: Mr. Vence Bonham, Dr. Katherine Blizinsky

148-PM. Colby Carlone  
Association of Pericardial Fat and Left Ventricular Mass in African-Americans  
Georgetown University (District of Columbia)  
Preceptor: Dr. Gary Gibbons, Dr. Jose Vargas

149-PM. Kayla Cooper  
Designing a Model Program to Return Genomic Results to Low-resource Research Participants  
Vanderbilt University (Tennessee)  
Preceptor: Mr. Vence Bonham

150-PM. Janice Cousin  
Characterization of Liver Disease in Two PMM2-CDG Children  
University of Iowa (Iowa)  
Preceptor: Ms. Lynne Wolfe
151-PM. Stacy Desine, Lena Eskin
*Social Support Networks of Adults with Sickle Cell Disease*
University of Florida (Florida), Cornell University (New York)
Preceptors: Mr. Vence Bonham, Dr. Laura Koehly

152-PM. Jenny Do
*Longitudinal Behavioral Characterization of a Gaucher-associated Parkinson Murine Model: A Pilot Study*
Middlebury College (Vermont)
Preceptor: Dr. Nahid Tayebi, Dr. Ellen Sidransky

153-PM. Patrick D’Onofrio
*A Meta-analysis of the Effects of Gender on Brain Structure in ADHD*
Boston College (Massachusetts)
Preceptor: Dr. Philip Shaw

154-PM. Monica Duran
*Induced Pluripotent Stem Cells as a Tool to Study Inter-individual Variability in Down Syndrome*
University of Puerto Rico, Rio Piedras Campus (Puerto Rico)
Preceptor: Dr. Diana Bianchi, Dr. Faycal Guedj

155-PM. Areian Eghbali
*How Do We Explain Very Discordant Phenotypes among Three Siblings with Neuronopathic Gaucher Disease? Whole Exome Sequencing and Transcriptome Analyses*
University of California, San Diego (California)
Preceptor: Dr. Ellen Sidransky, Dr. Nahid Tayebi

156-PM. Madison Esposito
*Does Vitamin B12 Deficiency Have an Impact on Neurological Function in Aged Mice?*
Oregon State University (Oregon)
Preceptor: Dr. Lawrence Brody

157-PM. Jennifer Frederick
*Untangling the Web: Symptom Network Structure in Attention Deficit Hyperactivity Disorder*
Johns Hopkins University (Maryland)
Preceptor: Dr. Philip Shaw

158-PM. Jennifer Guo
*Identifying the Genetic Cause of a Novel Neutrophil Disorder*
Swarthmore College (Pennsylvania)
Preceptor: Dr. May Malicdan, Dr. William Gahl
159-PM. Aaron Gurayah, Anna Shetler
*Distance and Disease: Accessibility to Care, Support Networks, and Health Outcomes of Caregivers Providing for Those with Inherited Metabolic Disorders*
Princeton University (New Jersey), Goshen College (Indiana)
Preceptors: Dr. Laura Koehly, Dr. Christopher Marcum

160-PM. Emily Isko
*The Role of the Gut Microbiome in Disease Mechanisms of Mmaa-related Methylmalonic Acidemia in Mice*
Amherst College (Massachusetts)
Preceptor: Dr. Oleg Shchelochkov, Dr. Charles Venditti

161-PM. Kelly Nguyen
*Caring for Caregivers: Emotional vs. Tangible Support Influences on Overall Network Satisfaction*
San Diego State University (California)
Preceptor: Dr. Laura Koehly, Mr. Aaron Gurayah

162-PM. Joel Pardo
*Decreasing Propionate Load in Zebrafish Model of Propionic Acidemia by Interrupting Valine and Isoleucine Metabolism*
University of Miami (Florida)
Preceptor: Dr. Oleg Shchelochkov, Dr. Charles Venditti

163-PM. Kyle Reichard
*The Characterization of a Novel Zebrafish Model for a Human Seizure Disorder Caused by Mutations in PRUNE1*
St. Mary's College of Maryland (Maryland)
Preceptor: Dr. Elizabeth Burke

164-PM. Margaret Rose
*Emotions, Stigma, and Health: A Study of Parents with Type 2 Diabetes*
University of Notre Dame (Indiana)
Preceptor: Dr. Susan Persky

165-PM. Anna Shetler, Aaron Gurayah
*Social Relations in the Context of Rare Disease: Structure and Function of Caregivers' Support Networks*
Goshen College (Indiana), Princeton University (New Jersey)
Preceptors: Dr. Jasmine Manalel, Dr. Laura Koehly

166-PM. Will Simmons
*Examining the Role of Band 3 in Hemoglobin S Polymerization*
Colby College (Maine)
Preceptor: Dr. David Bodine
167-PM. Claire Slevin  
*Hair Cell Regeneration in Zebrafish after Targeted Ablation of Hair Cells with Diphtheria Toxin*  
Wesleyan University (Connecticut)  
Preceptor: Dr. Shawn Burgess

168-PM. Benjamin Steger  
*Functional Analyses of an Autophagy and ER Stress-regulating Protein in a Patient with an Undiagnosed, Multisystem Disorder*  
Oberlin College (Ohio)  
Preceptor: Dr. Marie Morimoto, Dr. May Christine Malicdan

169-PM. Tracy Swan  
*Stress, Coping & Neuropeptides: Differences between Parents of Healthy Children and Children with Inherited Metabolic Conditions*  
Northwestern University (Illinois)  
Preceptor: Dr. Laura Koehly

170-PM. Jennifer Wang  
*Investigating the Trafficking of Lysosomal Proteins in Lung Fibroblasts in Hermansky-Pudlak Syndrome*  
University of Michigan (Michigan)  
Preceptor: Dr. May Malicdan

171-PM. Tara Weixel  
*Neurodevelopmental Profiles of Congenital Disorders of Glycosylation Subjects with Subtypes PMM2-CDG and NGLY1-CDDG: A Review of Two Prospective Cohorts*  
American University (District of Columbia)  
Preceptor: Ms. Lynne Wolfe

172-PM. Linnea Westerkam  
*The Importance of Exploring Multiple Genetic Explanations as Demonstrated by a Blended Phenotype of EHMT1 and ACAN Variants*  
Barnard College (New York)  
Preceptor: Dr. Donna Novacic, Ms. Lynne Wolfe

173-PM. Tyler Wisniewski  
*The Impact of a Support Person on Patient Understanding and Emotional Processing during Alzheimer’s Disease Risk Disclosure Sessions*  
Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Lori Erby

174-PM. Haley Yaremych  
*Quantifying Physical Movement to Gain Insight into Behavioral Processes*
University of Michigan (Michigan)
Preceptor: Dr. Susan Persky

National Heart, Lung, and Blood Institute (NHLBI)

175-PM. Katherine Almengo
*Evaluating a Conditioning Regimen of Cyclophosphamide and Sirolimus with or Without CTLA4-Ig in a Mismatched Murine Model*
Barry University (Florida)
Preceptor: Dr. Purevdorj Olkhanud, Dr. Courtney Fitzhugh

176-PM. Gregory Alspaugh
*Global Analysis and Decay Associated Images (DAI) Derived from Fluorescence Lifetime Imaging Microscopy (FLIM)*
Davidson College (North Carolina)
Preceptor: Dr. Jay Knutson, Dr. Alessio Andreoni

177-PM. Jenis Argueta-Amaya
*High-sensitivity Troponin Is Associated with High-risk Coronary Plaque in Psoriasis*
Trinity Washington University (District of Columbia)
Preceptor: Dr. Martin Playford

178-PM. Kenneth Bhatti
*Characteristics of Urine Cell-free DNA in Heart and Lung Transplant*
Johns Hopkins University (Maryland)
Preceptors: Dr. Sean Agbor-Enoh, Dr. Hannah Valantine

179-PM. Amy Blackburn
*BTK Inhibition May Play a Key Role in the Enhanced CLL Cell Lysis of Patient Samples Treated in Combination with CD19/CD3 Bispecific Antibody*
Northwestern University (Illinois)
Preceptor: Dr. Adrian Wiestner

180-PM. Hanan Bloomer
*CRISPR/Cas9-mediated Homology Independent Targeted Integration in Human Hematopoietic Stem and Progenitor Cells*
Georgetown University (District of Columbia)
Preceptor: Dr. Andre Larochelle, Dr. Richard Smith

181-PM. Trisha Chau, Kelvin Blade
*Efficacy of Nitric Oxide Antibacterial Activity and its Synergy with Clofazimine and Amikacin against Mycobacterium Abscessus in Vitro*
Oregon State University (Oregon), Mississippi State University (Mississippi)
Preceptors: Dr. Abdi Ghaffari, Dr. Kenneth Olivier

182-PM. Yi Chen
A Bioinformatic Approach to Identifying Cardiometabolically Functional Human LincRNAs
Johns Hopkins University (Maryland)
Preceptor: Dr. Haiming Cao

183-PM. Kwame Donkor
Palmitoleate Reduces Atherosclerotic Lesions in Low Density Lipoprotein Receptor Knockout Mice
Tufts University (Massachusetts)
Preceptor: Dr. Zhihong Yang, Dr. Alan Remaley

184-PM. Matthew Donnelly
Imaging Mitochondrial Dynamics with High Resolution Microscopy
Cornell University (New York)
Preceptor: Dr. John Hammer

185-PM. Matthew Eiman
 Genome-wide Association Study of Sleep Latency in Drosophila melanogaster
George Mason University (Virginia)
Preceptor: Dr. Susan Harbison

186-PM. Thiane Gaye
 Methionine Sulfoxide Reductase A Binds to the Beta-8 Sheet of STARD3
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Jung Mi Lim, Dr. Rodney Levine

187-PM. Jack Ghannam
High-throughput Single-cell DNA Sequencing to Detect Changes in Clonal Heterogeneity during Acute Myeloid Leukemia Therapy.
Loyola University Chicago (Illinois)
Preceptor: Dr. Christopher Hourigan

188-PM. Nima Ghorashi
MCU Complex Perturbation for Modulating Mitochondrial Calcium in Physiology and Disease
University of California, Los Angeles (California)
Preceptor: Dr. Julia Liu, Dr. Elizabeth Murphy

189-PM. Haley Goss-Holmes
Immunometabolic Remodeling with Nicotinamide Riboside to Attenuate Psoriatic Inflammation in a Murine Model
Bard College (New York)
Preceptor: Dr. Javier Traba
190-PM. Cristhian Gutierrez Huerta
*LDL-induced Pro-inflammatory Monocyte Subset Differentiation Might Be a Potential Driver for Increased Cardiovascular Disease in African-Americans*
University of California, Merced (California)
Preceptor: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer

191-PM. Gideon Haber
*Mapping Lattice Structure During Spontaneous Clathrin Curvature*
University of Pennsylvania (Pennsylvania)
Preceptor: Dr. Justin Taraska, Dr. Kem Sochacki

192-PM. Hailey Harris
*High Sensitivity Detection of Mutations Implicated in Chronic Lymphocytic Leukemia Drug Resistance during Treatment and Progression*
Northwestern University (Illinois)
Preceptor: Dr. Adrian Wiestner

193-PM. Amir Hasani
*Detailed Imaging of Lung Cysts in LAM and BHD Patients by a High-resolution Targeted CT Rescan*
Georgetown University (District of Columbia)
Preceptor: Dr. Han Wen, Dr. Joel Moss

194-PM. Bridgette Heine
*Lattice Morphology during Spontaneous Clathrin Curvature*
University of Richmond (Virginia)
Preceptor: Dr. Justin Taraska

195-PM. Upneet Kaur
*Unroofing α-Synuclein Membrane Interactions in Cells*
University of Massachusetts Amherst (Massachusetts)
Preceptor: Dr. Jennifer Lee

196-PM. Ellen Kendall
*Longitudinal Transcriptome Analysis of Ibrutinib Resistance in Chronic Lymphocytic Leukemia*
Case Western Reserve University (Ohio)
Preceptor: Dr. Adrian Wiestner

197-PM. Noor Khalil
*Circulating Levels of Interferon-γ and Tumor Necrosis Factor-α Are Associated with Lipid-rich Coronary Plaque in Psoriasis*
Johns Hopkins University (Maryland)
Preceptor: Dr. Martin Playford
198-PM. Argit Marishta
*Mitochondrial DNA Mismatches in Thoracic Transplantation: Potential Triggers of Allograft Immunogenicity*
Keystone College (Pennsylvania)
Preceptor: Dr. Hannah Valantine, Dr. Sean Agbor-Enoh

199-PM. Rachel Ng
*FIP (Fascetto-Interacting Protein) Is a Novel Chromosomal Passenger Protein That Regulates Fascetto (PRC1) to Ensure Proper Cytokinesis and Ploidy*
Northwestern University (Illinois)
Preceptor: Dr. Nasser Rusan

200-PM. Kira Patterson
*Developing an Improved CRISPR Interference System in the Human iPSC Model*
Carleton College (Minnesota)
Preceptor: Dr. Jizhong Zou

201-PM. Jonathan Perrie
*Applying a Novel DNase-Seq Technique to Human White Blood Cells at Single Cell Resolution*
University of Waterloo (Non-U.S.)
Preceptor: Dr. Keji Zhao, Dr. Gangqing Hu

202-PM. Stephanie Pierre
*Characterization of Human Anti-HERV-E Envelope Antibodies for the Development of CAR T cells to Treat Patients with Clear Cell Kidney Cancer*
University of Georgia (Georgia)
Preceptor: Dr. Long Chen, Dr. Richard Childs

203-PM. Matthew Rodman
*Diet-mediated Pathways Involving FFAR2 Regulate Inflammation in PBMCs*
Vassar College (New York)
Preceptor: Dr. Michael Sack

204-PM. Cameron Roots
*Support for Differential Mitochondrial Transcript Expression in Drosophila melanogaster*
University of Washington - Seattle (Washington)
Preceptor: Dr. Hong Xu

205-PM. Zoe Schneider
*GWAS of Platelet Aggregation Phenotypes Identifies Novel Gene Linked to Aspirin Response*
University of Georgia (Georgia)
Preceptor: Dr. Andrew Johnson
206-PM. Samantha Smith  
*Investigating the Biochemical and Structural Basis of Centrosome Activation*  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Nasser Rusan

207-PM. Abhilash Suresh  
*A Pipeline to Make Sense of the Long Non-coding RNA (IncRNA) Knowledge Base (KN): Integrative GWAS, eQTL and Network Analysis*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Mehdi Pirooznia

208-PM. Achombom (Jude) Tunyi  
University of Washington-Seattle (Washington)  
Preceptor: Dr. Richard Pastor, Dr. Alan Remaley

209-PM. Frances Welsh  
*Using Cross-species Evolutionary Analysis to Identify and Characterize Novel Centrosome Gene Duplications*  
University of Puget Sound (Washington)  
Preceptor: Dr. Nasser Rusan

210-PM. Sierra Wilson  
*Stabilizing Lipoprotein Lipase with an ApoC-II Mimetic Peptide*  
Willamette University (Oregon)  
Preceptor: Dr. Anna Wolska, Dr. Denis Sviridov

211-PM. Zoë Wong  
*Environmental Modifiers of Williams syndrome: A Preliminary Study*  
University of Oregon (Oregon)  
Preceptor: Mx. Beth Kozel

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

212-PM. Daniel Abraham  
*Development of Brain Lesions in a Primate Model of Multiple Sclerosis: From in vivo MRI to Histology*  
Cornell University (New York)  
Preceptor: Dr. Maxime Donadieu, Dr. Daniel Reich
213-PM. Mary Alice Allnutt
*HAM/TSP CSF B-cell Receptor (BCR) Derived Antibodies Demonstrated Reactivity to HTLV-1 Specific Proteins*
Elon University (North Carolina)
Preceptor: Dr. Steven Jacobson, Dr. Yoshimi Enose-Akahata

214-PM. Joshua Amaya
*Inhibition of the Rho-kinase (ROCK) Pathway Improves Morphology and Stress Granule Formation in ALS4 Patient iPSC-derived Motor Neurons*
Brown University (Rhode Island)
Preceptor: Dr. Christopher Grunseich, Dr. Kenneth Fischbeck

215-PM. Davis Argersinger
*Convection-enhanced Delivery of IL13-Pseudomonas Exotoxin in Children with Diffuse Intrinsic Pontine Glioma*
University of Michigan (Michigan)
Preceptor: Dr. John Heiss

216-PM. Elena Bagatelas
*Defects in NMDAR Trafficking and Stabilization Associated with Autism and Intellectual Disability Variants of the GluN2B subunit*
University of Tennessee, Knoxville (Tennessee)
Preceptor: Dr. Marta Vieira, Dr. Katherine Roche

217-PM. Natalia Batchenkova
*Regulation of Heavy Neurofilament Phosphorylation by the Endoplasmic Reticulum Proteins Atlastin-1 and REEP-1*
University of Arkansas (Arkansas)
Preceptor: Dr. Peng-Peng Zhu, Dr. Craig Blackstone

218-PM. Aaron Bickert
*Validating Marker Gene Expression in the Adult Mouse Spinal Cord after Injury*
Johns Hopkins University (Maryland)
Preceptor: Dr. Ariel Levine, Ms. Kaya Matson

219-PM. Jenna Brownrout
*The Influence of Research Continuity on Neurologists' Career Success as Physician-Scientists*
American University (District of Columbia)
Preceptor: Dr. Omar Khan

220-PM. Jarrhett Butler
*Assessing the Safety of Treating Stroke Patients Who Present in Extended Time Window Using Blood-Brain Barrier Integrity*
Fisk University (Tennessee)
Preceptor: Dr. Richard Leigh

221-PM. Daniel Carrera
*Synaptic Dynamics of Cone Bipolar Cells in Mouse Retina*
University of Arizona (Arizona)
Preceptor: Dr. Jeffrey Diamond

222-PM. Grace Chen
*In vivo-ready Lipid-conjugated siRNAs for Allele-specific Silencing of a Dominant-negative Mutation Causing Collagen VI-related Muscular Dystrophy*
Johns Hopkins University (Maryland)
Preceptor: Dr. Véronique Bolduc, Dr. Carsten Bönnemann

223-PM. Maria Chroneos
*Understanding the Relationship between Mesial Temporal Lobe Activation during Language fMRI and Language and Memory Function*
Johns Hopkins University (Maryland)
Preceptor: Dr. Leigh Sepeta

224-PM. Catherine Cunningham
*White Matter Variability and Visuospatial Cognition*
King’s College London (Non-U.S.)
Preceptor: Dr. Selene Schintu, Dr. Eric Wassermann

225-PM. Caroline Cuoco
*The Anti-Glioblastoma Drug ONC201 and Related Analogs Act as Non-competitive Antagonists at the D2 Dopamine Receptor through Unique Binding Site Interactions*
Vanderbilt University (Tennessee)
Preceptor: Dr. David Sibley, Dr. R Benjamin Free

226-PM. Melanie Delgado
*Impaired Cellular Immune Responses to a Latent Epstein-Barr Virus Peptide in Patients with Multiple Sclerosis*
American University (District of Columbia)
Preceptor: Dr. Steve Jacobson, Dr. Maria Chiara Monaco-Kushner

227-PM. Kate Dembny
*Resting State fMRI Connectivity Profile of Seizure Onset Zones in Patients with Medically Refractory Focal Epilepsy*
University of Texas at Austin (Texas)
Preceptor: Dr. Sara Inati
228-PM. Saeed Fathi
HERV-K Reverse-transcribed DNA and Asparaginase 1 mRNA Form a Triplex Leading to TDP-43 Aggregation and Neurodegeneration
University of California, Los Angeles (California)
Preceptor: Dr. Marta Garcia-Montojo, Dr. Avindra Nath

229-PM. Erin Fingleton
Neurobeachin Facilitates Recycling of Synaptic GluN2B
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Katherine Roche

230-PM. Margaret Fink
Giant Axonal Neuropathy as a Form of Charcot-Marie-Tooth Disease: Defining the Patterns of Muscle Weakness and Clinical Phenotypes in Classic versus Mild Patients
College of William & Mary (Virginia)
Preceptor: Dr. Carsten Bönnemann, Dr. Diana Bharucha-Goebel

231-PM. Mariam Gachechiladze
CRISPR-based Platform for Multimodal Genetic Screens in Human iPSC-derived Neurons
Georgetown University (District of Columbia)
Preceptor: Dr. Michael Ward

232-PM. Julio Gamarra
Mapping Circuit Connections of preBӧTzinger Complex Neurons in Adult Transgenic Rats
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Jeffrey Smith, Dr. Shahriar SheikhBahaei

233-PM. Taylor Gordon
Comparative Analysis Using Global EEG Topography of Brain Resting States in Patients with Developmental Delay and Autism
George Washington University (District of Columbia)
Preceptor: Dr. Omar Khan

234-PM. Gretchen Greene
Neural Precursor-cell Derived Brain-like Tissue Induces the Formation of Long-range Connections in the Adult Brain
Macalester College (Minnesota)
Preceptor: Dr. Nikorn Pothayee, Dr. Alan Koretsky

235-PM. Elizabeth Horne
Neuroimaging and Cerebrospinal Fluid Biomarkers in Virologically Controlled HIV
Duke University (North Carolina)
Preceptor: Dr. Bryan Smith
236-PM. Samantha Jackson  
*Acute MRI with T2 Mapping Used to Classify Ischemic Core and Tissue Fate in Stroke Patients*  
Cornell University (New York)  
Preceptor: Dr. Lawrence Latour, Dr. Marie Luby

237-PM. Brittany Jones  
*Antisense Oligonucleotides Target HIV mRNA to Inhibit Expression of Viral Transcripts*  
Georgetown University (District of Columbia)  
Preceptor: Dr. Lisa Henderson

238-PM. Rupleen Kaur  
*Gene Conversion between MSTO1 and Its Highly Homologous Pseudogene MSTO2P as a Novel Mutational Mechanism Underlying MSTO1-related Ataxia with Muscular Dystrophy*  
University of California, Davis (California)  
Preceptor: Dr. Carsten Bonnemann

239-PM. Suhwan Paul Lee  
*Investigating the Sensitivity of a Hydrogen-Deuterium Exchange Prediction Model to Small Conformational Changes*  
University of Mississippi (Mississippi)  
Preceptor: Dr. Lucy Forrest, Dr. Richard Bradshaw

240-PM. Yi Ting Liu  
*Novel Mouse Models of Parkinson’s Disease-related CHCHD2 and CHCHD10 Support Their Genetic Interaction and a Gain-of-function Mechanism of Disease*  
University of Virginia (Virginia)  
Preceptor: Dr. Derek Narendra

241-PM. Mary Makarious  
*Genetic Analysis of Normal-pressure Hydrocephalus and Its Relationship with Neurodegenerative Diseases*  
Loyola University of Chicago (Illinois)  
Preceptor: Dr. Sonja Scholz

242-PM. Ester Masati  
*Using CRISPR-Based Genetic Screens to Identify Genes Contributing to Neuronal Selective Vulnerability*  
University of Virginia (Virginia)  
Preceptor: Dr. Christopher Grunseich, Dr. Kenneth Fischbeck

243-PM. Rachel Mikofsky, Emily Alway  
*Frequency-specific Sinusoidal Optogenetic Stimulation of Hippocampal-Prefrontal Circuit Alters Locomotion and Anxiety-like Behavior*  
Columbia University (New York), Johns Hopkins University (Maryland)
Preceptors: Dr. Joshua Gordon, Dr. David Kupferschmidt

244-PM. Michael Moran
*HHV-6 Viral Detection & Pro-inflammatory Cytokines in Children with Seizures*
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Steve Jacobson, Dr. Luca Bartolini

245-PM. Matthew Nalls
*Specific Mutations in SPTLC1 Causing a Novel Form of Childhood ALS Disrupt Sphingolipid Metabolism in Human Motor Neurons and Are Amenable to Mutation-specific Therapies*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Carsten Bonnemann, Dr. Payam Mohassel

246-PM. Anthony Nwankwo
*Elevated Human Endogenous Retrovirus-L Family Provirus Levels in Glioblastoma*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Edjah Nduom

247-PM. Tracy Ogata
*Development of an Assistive Sensory Input Device to Improve Motor Control in Individuals with Congenital Absence of Proprioception*
University of California, Irvine (California)
Preceptor: Dr. Carsten Bonnemann

248-PM. Thomas Osterholt III
*Distinguishing Tremor Components in Essential Tremor: A Digital Spirography Study*
Truman State University (Missouri)
Preceptor: Dr. Felipe Vial, Dr. Debra Ehrlich

249-PM. Ikesinachi Osuorah
*Evaluating the Performance of Automated Lesion Segmentation in Progressive Multifocal Leuкоencephalopathy*
Wake Forest University (North Carolina)
Preceptor: Dr. Irene Cortese

250-PM. Jacob Parker
*Structural Magnetic Resonance Imaging Correlates of Neurodegeneration in a Spinocerebellar Ataxia Type 7 Cohort*
New York University (New York)
Preceptor: Dr. Silvina Horovitz, Dr. Mark Hallett

251-PM. Aneesh Patankar
*Utilizing Morpholinos to Correct a SMARD1 Patient Cell Line and Understand IGHMBP2 Function*
Johns Hopkins University (Maryland)
Preceptor: Dr. Kenneth Fischbeck, Dr. Christopher Grunseich

252-PM. Rachel Rolinski
Comparison of Language Lateralization between Task-based and Resting state Functional MRI in Patients with Epilepsy
Michigan State University (Michigan)
Preceptor: Dr. William Theodore

253-PM. Marya Sabir
Examining the Genetic Underpinnings of Neurodegeneration: Polygenic Risk Scores in Atypical Parkinsonism Syndromes
Arizona State University (Arizona)
Preceptor: Dr. Sonja Scholz

254-PM. Victoria E. Sanchez
The Red-shifted Luciferase Expressing Glioma-261 Murine Model Elicits a Durable Immune-mediated Anti-tumor Response
Florida International University (Florida)
Preceptor: Dr. Edjah Nduom

255-PM. Kayla Schardien
G protein-coupled Receptor Kinases Can Enhance Beta-Arrestin Recruitment to the D2 Dopamine Receptor in the Absence of Receptor Phosphorylation
Rowan University (Maryland)
Preceptor: Dr. David Sibley, Dr. R Benjamin Free

256-PM. Kathryn Snyder
A Synthetic Contrast to Assist with Visual Identification of Focal Cortical Dysplasia Using Structural MRI in Patients with Drug-resistant Focal Epilepsy
Vanderbilt University (Tennessee)
Preceptor: Dr. Sara Inati

257-PM. Catherine Squirewell
Comparative Analysis Using Global EEG Topography of Brain Resting States in Patients with Multi Drug-resistant Temporal Lobe Epilepsy
Howard University (District of Columbia)
Preceptor: Dr. Omar Khan

258-PM. Hannah Sur
PRMT5 Knockdown Enhances LB100 Antitumor Activity in Glioblastoma
University of Southern California (California)
Preceptor: Dr. Yesh Banasavadi
259-PM. Daniel Suto
*Mangafodipir: A Manganese-based Contrast Agent for Imaging Multiple Sclerosis*
University of California, Los Angeles (California)
Preceptor: Dr. Daniel Reich

260-PM. Kia Thomas
*Exploring Phosphorous Metabolites in Parkinson’s Disease at 7-Tesla*
Emory University (Georgia)
Preceptor: Dr. Silvina Horovitz, Dr. Mark Hallett

261-PM. Alice Tran
*Exome Sequencing in Carriers of the C9orf72 Repeat Mutation to Identify Pathogenic Variants in Other Neurodegenerative Genes*
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Mary Kay Floeter

262-PM. Emily Twedell
*Examination of Striatal Inhibition of SNc Dopamine Neurons*
Grinnell College (Iowa)
Preceptor: Dr. Zayd Khaliq

263-PM. Mary Vollmer
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University of Florida (Florida)
Preceptor: Dr. Sara Hussain

264-PM. Beverly Wu
*Physiologic Oligomerization and Pathogenic Aggregation of CHCHD2 and CHCHD10*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Derek Narendra

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*Genetic Determinants of Cognitive Outcome of Deep Brain Stimulation Surgery in Parkinson's Disease Patients*
Indiana University (Indiana)
Preceptor: Dr. Debra Ehrlich

266-PM. Dave Youssef
*Implementation of M-Sequences in Clinical Intracranial Stimulation*
Ohio State University (Ohio)
Preceptor: Dr. Kareem Zaghoul, Dr. John Wittig
National Institute of Nursing Research

267-PM. Sarah Alshawi
*Inflammation Partially Mediates Fatigue-like Behavior in Mice*
Georgetown University (District of Columbia)
Preceptor: Dr. Leorey Saligan, Dr. Brian Wolff

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*Genetic Markers of Lysozyme Associated with Irritable Bowel Syndrome (IBS) Symptom Severity*
Johns Hopkins University (Maryland)
Preceptor: Dr. Wendy Henderson

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*Health and HIV: Weight Status Associations with Multiple Co-morbidities*
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*Running on 80%: A Mixed Methods Analysis of the Social Impact on Health Related Quality of Life in Ryanodine Receptor 1-Related Disorders.*
Teachers College, Columbia University (New York)
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Preceptor: Dr. Leorey Saligan

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*The Effects of Androgen Deprivation Therapy and Radiation Therapy on Cancer-related Fatigue*
Emory University (Georgia)
Preceptor: Dr. Leorey Saligan, Dr. Li Rebekah Feng

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*Higher Exosomal and Plasma Neurofilament Light Chain Relate to Persistent PTSD and Post-concussive Symptoms in Veterans with a History of Traumatic Brain Injury*
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Jessica Gill, Dr. Vivian Guedes

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Preceptor: Dr. Cassandra Pattinson, Dr. Vivian Guedes

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Huntington University (Indiana)
Preceptor: Dr. Leorey Saligan, Dr. Rebekah Feng

276-PM. Abhrarup Roy, Rosario Jaime-Lara
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University of Maryland, College Park (Maryland), University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Paule Joseph, Dr. Ann Cashion

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