# NIH VIRTUAL Postbaccalaureate Poster Day 2020: April 28 – 30

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**Poster Session Information**

**Virtual Postbac Poster Day 2020** is organized into sessions of 5 to 7 presenters and 3 judges for a total of 132 sessions. The sessions will be shared via WebEx.

The table below will allow you to determine on what day and in which session the posters that interest you will be presented. The sessions will take place over 3 days (April 28 through April 30) and are organized into 4 timeslots: 9:00 – 10:30 am, 10:30 am – 12:00 pm, 1:00 – 2:30 pm, and 2:30 – 4:00 pm.

The entries in the table are in the form: **Poster Session #**: Poster numbers. Thus 1: 1-7 is the first session, and it includes posters 1 through 7, and 132: 867-873 is the last (see below).

To “attend” a poster, all you need to know is the session number. The WebEx Event Link for each session will be “Postbac Poster Day Poster Session #”. Posters will be presented in numerical order.

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NOTE: Poster session 100 combines posters from two ICs, NIDCD and NLM.
NIH OFFICE OF INTRAMURAL TRAINING & EDUCATION
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Tuesday, April 28, 2020
Clinical Center (CC)

1. Niranjan Balachandar
*Combined Image and Text-based Automated Labeling of Chest Radiographs*
Stanford University (California)
Preceptors: Dr. Ronald Summers, Dr. Yingying Zhu

2. Victoria Biancavilla
*An Exploratory Study of Wearable Sensors in a Mobility-limited Pediatric Population*
Cornell University (New York)
Preceptor: Dr. Minal Jain

3. Christopher Brokus
*The Impact of Pre-exposure Prophylaxis Uptake on Attitudes toward Risk Behavior and HIV Prevention among People Who Inject Drugs*
Dickinson College (Pennsylvania)
Preceptors: Dr. Henry Masur, Dr. Elana Rosenthal

4. Brittany Brookner
*Sexual Function, Reproductive Characteristics, and Body Image in Adult Women with Congenital Adrenal Hyperplasia: A Case Controlled Study*
Carleton College (Minnesota)
Preceptor: Dr. Deborah Merke

5. Susan Chow
*Radiologist Preprocessor Curriculum: A Prospective Experience to Enhance Learning and Interactions between Radiologists and Students*
New York University (New York)
Preceptors: Dr. Les Folio, Dr. Huy Do

6. Katheryne Chun
*Optimizing a Method for Quantifying Scoliosis Using Atereophotogrammetry*
University of Virginia (Virginia)
Preceptor: Dr. Scott Paul

7. Mary Kate Dougherty
*Transcriptomic Identification of Spinal, Immune, and Synaptic Receptors during Inflammation or Surgical Incision*
Saint Joseph’s University (Pennsylvania)
Preceptors: Dr. Michael Iadarola, Dr. Andrew Mannes

8. Spencer Flynn
*Comparison of Serum, Total Exosomal, and Neuronal Exosomal Concentrations of Blood Biomarkers by their Association with Long-term Outcomes in Traumatic Brain Injury*
Duke University (Maryland)
Preceptors: Dr. Leighton Chan, Dr. Pashtun Shahim

9. Justine Glieger
Patterns of Sensory Processing in US and Australian Smith-Magenis Syndrome Populations
University of Maryland, College Park (Maryland)
Preceptors: Mrs. Hanna Hildenbrand, Mrs. Ann Smith

10. Lillian Hallmark
Nitric Oxide’s Role (or Lack Thereof) in Modulating Acute Sickle Cell Pain
University of Maryland, College Park (Maryland)
Preceptor: Dr. Zenaide Quezado

11. Lauren Hirth
Assessing the Development of Stepping in Infants through Cortical Activity Time-locked to Individual Gait Events
University of Michigan (Michigan)
Preceptors: Dr. Diane Damiano, Dr. Thomas Bulea

12. Kathryn Johnston
Glucose 6 Phosphatase Catalytic Subunit 3 Deficiency Promotes Endothelial-to-Mesenchymal Transition in Human Pulmonary Vascular Endothelium
California State University, Bakersfield (California)
Preceptors: Dr. Li-Yuan Chen, Dr. Jason Elinoff

13. Jamell Joseph
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University of Texas, San Antonio (Texas)
Preceptors: Mr. Joseph Shrader, Dr. Cris Zampieri

14. Jessica Lo
Impact of Social Support Up to Five Years Post-injury among Participants with Traumatic Brain Injury
University of Washington (Washington)
Preceptor: Dr. Leighton Chan

15. Dilara Long
Smartphone- and Smartglasses-based Augmented Reality For Percutaneous Needle Placements: A Comparison Study Of System Accuracy and Operator Performance
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Bradford Wood, Dr. John Karanian

16. Jennifer McKeefry
Analysis of the Social Work Suicide Assessment Tool
Belmont University (Tennessee)
Preceptor: Mrs. Jeasmine Aizvera

17. Brianna Meeks
Comparing Healthy Gut Microbiota Data across Studies Using Ion Torrent Sequencing
College of William & Mary (Virginia)
18. Zoe Mendrysa  
*Does Scavenging of Nitric Oxide and Availability of Iron Worsen Lung Injury and Shock in a Canine Model of Sepsis?*  
Ithaca College (New York)  
Preceptor: Dr. Steven Solomon

19. Amelia Mitchell  
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Hamilton College (New York)  
Preceptor: Dr. Dima Hammoud

20. Brooke Mounsey  
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Stanford University (California)  
Preceptors: Dr. Alyssa Brooks, Dr. Gwenyth Wallen

21. Radhika Narasimhan  
*Differentiation of Anesthetic from Antidepressant Transcriptomic Signatures Using High-dose Ketamine Administration.*  
Cornell University (New York)  
Preceptors: Dr. Michael Iadarola, Dr. Andrew Mannes

22. Samin Panahi  
*Green Road Project: Qualitative Data Analysis*  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Ann Berger, Dr. Rezzvan Ameli

23. Megan Parker  
*Conversions between TNXB and Pseudogene TNXA at Exon 40 Loci in a Cohort of Congenital Adrenal Hyperplasia Due to CYP21A2 Defects*  
Stanford University (California)  
Preceptors: Dr. Deborah Meke, Dr. Qizong Lao

24. Olivia Parker  
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Princeton University (New Jersey)  
Preceptors: Dr. Bradford Wood, Dr. John Karanian

25. Reema Patel  
*In Vitro Uptake of Radiolabeled Sugars as a Reflection of Bacterial versus Fungal Metabolism*  
College of William & Mary (Virginia)  
Preceptors: Dr. Dima Hammoud, Dr. Swati Shah, Dr. Neysha Martínez-Orengo

26. Vy Phan  
*Double-masked, Placebo-controlled Trial of Botulinum Toxin for Endometriosis-associated Chronic Pelvic Pain: 1-Month Data*
27. Shahin Shahsavari  
*Automated Blood Group Phenotype Prediction from Whole Genome Sequencing Data in a Cohort of 271 Sickle Cell Disease Patients*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Celina Montemayor-Garcia

28. Blynn Shideler  
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Columbia University (New York)  
Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

29. Matthew Short  
*Real-time Neurofeedback for Improving Selective Ankle Control in Children with Cerebral Palsy*  
Temple University (Pennsylvania)  
Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

30. Jessica Thornton  
*Activity Participation and Health-related Quality of Life in Patients with Chronic Graft versus Host Disease*  
University of Wisconsin - Madison (Wisconsin)  
Preceptor: Mrs. Leora Comis

31. Lauren Tomlinson  
*How the Choice of Mouse Vendor Influences B16 Melanoma Flank Tumor Growth in Response to Nonablative Pulsed Focused Ultrasound*  
The Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Joseph Frank

32. Zeping Wang  
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Swarthmore College (Pennsylvania)  
Preceptor: Dr. Dima Hammoud

33. Brianna Brooks  
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Preceptor: Dr. Catherine Chen

34. Andrew Burns  
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Centre College (Kentucky)
Preceptors: Dr. Dingyin Tao, Dr. Christopher LeClair

35. Tony Choe
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University of Georgia (Georgia)
Preceptor: Dr. Bolormaa Baljinnyam

36. Christopher Collmus
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Colby College (Maine)
Preceptors: Dr. Jim Inglese, Dr. Ganesha Rai

37. Danielle Davis
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University of North Carolina Asheville (North Carolina)
Preceptor: Dr. Samarjit Patnaik

38. Chris Finocchio
*Optimization of IRAK1/4-FLT3 Multi-kinase Inhibitors for the Treatment of MDS and AML*
Franciscan University of Steubenville (Ohio)
Preceptors: Dr. Scott Hoyt, Dr. Craig Thomas

39. Natalie Hagen
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Drake University (Iowa)
Preceptor: Dr. Amy Wang

40. Hunter Larson
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James Madison University (Virginia)
Preceptor: Dr. Natalia Martinez

41. Bruce Nguyen Tran
*PI3K Inhibitor PI-103 Induces Vacuole Formation in HeLa Cells*
Johns Hopkins University (Maryland)
Preceptors: Dr. Kirill Gorshkov, Dr. Wei Zheng

42. Taylor Niehoff
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Georgia Institute of Technology (Georgia)
Preceptor: Dr. Stephen Kales

43. Ashley Owens
*Development of a High-throughput Immunoblot-based Cellular Thermal Shift Assay to Evaluate Target Engagement*
Johns Hopkins University (Maryland)
Preceptor: Dr. Mark Henderson

44. Manisha Pradhan  
Application of Midbrain Organoid Technology for Disease Modeling and Therapeutics Research  
Marymount University (Maryland)  
Preceptor: Dr. Miao Xu

45. Bryan Queme, Ryan Cheng  
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Biola University (California), UCLA (California)  
Preceptors: Dr. Mahesh Aitha, Dr. James Inglese

46. Alex Renn  
Phage Panning Discovery and Biophysical Characterization of a Novel SARS-CoV-2 Antibody for Treatment and Vaccination of COVID-19  
University of California, Berkeley (California)  
Preceptors: Dr. Ying Fu, Dr. Matthew Hall

47. Daniel Villa  
Structure Activity Relationship of Novel AMPK Partial Agonist for Niemann-Pick Disease Type C  
University of South Florida (Florida)  
Preceptors: Dr. Juan Marugan, Dr. Andres Ducley

48. Andy Vo  
Extracellular Matrix in Neural Cultures Induced by Macromolecular Crowding Enhances Neuronal Activity  
Virginia Commonwealth University (Virginia)  
Preceptors: Dr. Molly Boutin, Dr. Marc Ferrer

49. Allen Wang  
ONC201-Small Molecule ClpP Modulator for Triple Negative Breast Cancer  
University of Pittsburgh (Pennsylvania)  
Preceptors: Dr. Matt Hall, Dr. Jonathan Shrimp

50. Jordan Williams  
Application of in vitro ADME Data for Lead Drug Candidate Selection: An Emphasis on PAMPA pH 5 Permeability  
Boise State University (Idaho)  
Preceptors: Dr. Pranav Shah, Dr. Xin Xu

51. Allison Yang  
Novel Small Molecule Inhibitors of Rabies Virus Identified Through qHTS and QSAR  
Case Western Reserve University (Ohio)  
Preceptors: Dr. Dan Talley, Dr. Ganesha Bantukallu

52. Edward Zhu  
Automated Tandem Mass Spectrometry Assay to Quantify Cellular Cholesterol Levels for High-throughput Screening
Washington University in St. Louis (Missouri)
Preceptors: Dr. Mark Henderson, Dr. Bolormaa Baljinnyam

National Center for Complementary and Integrative Health (NCCIH)

53. Carolyn Amir
*Do Expectations Modulate Autonomic Responses to Pain?*
Boston University (Massachusetts)
Preceptor: Dr. Lauren Atlas

54. Megan Bradson
*Elucidating Mechanisms of Chronic Pain in Post-curative-therapy Sickle Cell Patients*
The Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Eleni Frangos, Dr. M. Catherine Bushnell

55. Eunice Chung
*Comparison of Hot and Cold Conditioned Pain Modulation Paradigms*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Eleni Frangos, Dr. M. Bushnell

56. Mary Margaret Cosgrove
*The Relationship between Pain Processing and Social Communication*
Teachers College Columbia University (New York)
Preceptor: Dr. Lauren Atlas

57. Margaret Rose-McCandlish
*Relationship between Fear of Pain and Modulation of Pain by Expectation*
Middlebury College (Vermont)
Preceptor: Dr. Lauren Atlas

58. Rachel Weger
*A comparison of Autonomic and Subjective Responses to Experimentally Induced Heat, Cold, and Shock Pain*
American University (District of Columbia)
Preceptors: Dr. Lauren Atlas, Mr. Troy Dildine

National Cancer Institute (NCI)

59. Aamna Abbasi
*The Role of Tumor Necrosis Factor Alpha in Anti-tumor Immunity*
University of California, Berkeley (California)
Preceptor: Dr. Muhammad Alam

60. Sooraj Achar
*Robotic Mapping and Machine Learning of T Cell Activation Deconvolves Immunological Parameters*
University of Virginia (Virginia)
61. Anila Afzal
*Generation and Rapid Evaluation of Vector Supernatants for Use in Individualized Cellular Immunotherapy Clinical Trials*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Rachel Beyer

62. Anuoluwapo Ajao
*The Role of Cysteine Metabolism in Breast Tumor biology*
University of Massachusetts Boston (Massachusetts)
Preceptors: Dr. Tsion Minas, Dr. Stefan Ambs

63. Imani Alexander
*3D Visualization of Human Liver Metastases Using A Novel Live-perfusion Model*
University of Alabama at Birmingham (Alabama)
Preceptor: Dr. Jonathan Hernandez

64. Sara Alexander
*The Effect of the Pseudomonas aeruginosa Phenazine Pyocyanin on Staphylococcus aureus*
University of Oklahoma (Oklahoma)
Preceptor: Dr. Anupama Khare

65. Megan Andres
*Synergistic Drug Combinations Promote Tumor Suppressor Activity and Decrease Oncogene Expression in Multiple Myeloma Cells*
Montgomery College (Maryland)
Preceptors: Dr. Beverly Mock, Dr. Tyler Peat

66. Alexander Bahnick
*Influence of Human Serum Antibodies on Carbohydrate-Lectin Targeted Drug Delivery*
University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Dr. Jeffrey Gildersleeve

67. Meriam Bahta
*Ubiquitin Ligases’ Regulatory Roles in DNA Replication*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Sang-Min Jang, Dr. Mirit Aladjem

68. Mariah Balmaceno-Criss
*Using CRISPR-Cas9 to Probe the Genetic Circuitry of T Follicular-helper (Tfh) Cell Differentiation*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Remy Bosselut, Dr. Melanie Vacchio

69. Meghan Bell
*Targeted Alpha Particle Therapy in a Preclinical Model of Hepatocellular Carcinoma*
State University of New York: Binghamton (New York)
Preceptor: Dr. Freddy Escorcia

70. Ryan Bertoli
Microenvironmental Change Can Cause in vitro Quiescence in a Transplantable Myeloid Cell Line
Duke University (North Carolina)
Preceptors: Dr. Yang Jo Chung, Dr. Peter Aplan

71. Aaron Bickert
Using CRISPR Screens to Identify ATP-binding Cassette Transporters Involved in Resistance to Chemotherapy
Johns Hopkins University (Maryland)
Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

72. John Bright
Contribution of ZFHX3 Loss to Anti-androgen Resistance in CRPC
Georgia Institute of Technology (Georgia)
Preceptor: Dr. Adam Sowalsky

73. Daniel Brock
Understanding Common Signaling Axes in Osteosarcoma to Target Tumor Cells and the Microenvironment
University of Washington (Washington)
Preceptors: Dr. Rosandra Kaplan, Dr. Miranda Sowder

74. Patricia Bunda
Exploring the Mechanism of Bone Tropism in a Novel Murine Model of Melanoma Bone Metastasis
University of California, Los Angeles (California)
Preceptors: Dr. Helen Michael, Dr. Glenn Merlino

75. Taylor Burnett
Safety and Toxicity of Autologous NK Cells with Continuous Infusion of IL-15 for Pediatric and Young Adult Patients with Advanced Solid Tumors
Hampton University (Virginia)
Preceptor: Dr. Rosandra Kaplan

76. Madison Butler
The Topoisomerase I Inhibitor LMP400 Synergizes with Olaparib and Is Not Affected by ABC Transporters in Glioblastoma
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Jing Wu, Dr. Michael Gottesman

77. Michael Caminear
Drugs Targeting Ovarian Cancer Tumor-initiating Cells Enhance Oxidative Stress and Prevent Disease Recurrence
Middlebury College (Vermont)
Preceptors: Dr. Christina Annunziata, Dr. Brittney Harrington
78. Morgan Carter
Exploring the Synergy Landscape of Camptothecin and GNF-7 as a Novel Combination Treatment for Ewing Sarcoma
University of Virginia (Virginia)
Preceptors: Dr. John Shern, Dr. Carly Sayers

79. Sakereh Carter
Epigenetic Cofactors KAT2A and G9a Mediate N-Myc’s Oncogenic Activity in N-Myc Amplified NB
California State University, Sacramento (California)
Preceptors: Dr. Carol Thiele, Dr. Zhihui Liu

80. Sofia Celli
Role of B7-CD28 Co-stimulation in NKT Cell Subset Development
University of Virginia (Virginia)
Preceptors: Dr. Masashi Watanabe, Dr. Richard Hodes

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

82. Michael Chang
Developing a High-throughput CRISPR Screen for Identification of Functional Targets of miR-19 in Myc-driven Prostate Carcinomas
Johns Hopkins University (Maryland)
Preceptors: Dr. Joana Vidigal, Dr. Pedro Batista

83. Samuel Chen
Investigation of the N-Myc and LDB1 Interactomes in Neuroblastoma Cells
Pomona College (California)
Preceptors: Dr. Zhihui Liu, Dr. Carol Thiele

84. Austin Chiappetta
Role of Oxidative Stress in mRNA Acetylation
University of Northwestern, St. Paul (Minnesota)
Preceptor: Dr. Shalini Oberdoerffer

85. Stephanie Choi
Preclinical Development of Chimeric Antigen Receptor T-cell Therapies Targeting CD30+ Lymphoma
University of Massachusetts Amherst (Massachusetts)
Preceptors: Dr. James Kochenderfer, Mr. Norris Lam

86. Monika Chung
The Contribution of Microglial Phenotype to Breast Cancer Metastasis in the Brain
University of Cambridge (Non-U.S.)
Preceptors: Dr. Alex Wu, Dr. Patricia Steeg
87. Alicia Cole
*Extracellular DNA Contributes to the Efficacy of Platinum-based Chemotherapy*
Fairleigh Dickinson University (New Jersey)
Preceptors: Dr. Amiran Dzutsev, Dr. Giorgio Trinchieri

88. Victor Collins
*The Efficacy of Standard Topoisomerase 2 Inhibitors Is Enhanced by Addition of DNA-PK Inhibitors in Preclinical Models of Ewing Sarcoma*
University of Akron (Ohio)
Preceptor: Dr. Christine Heske

89. Andie Conching
*Dendritic Spine Characterization of Neurons in Mouse Models of Development and Disease*
Dartmouth College (New Hampshire)
Preceptor: Dr. Lino Tessarollo

90. Dominique Daly
*Generation of anti-BCMA Immunotoxin Using Humanized Fab from BM306 mAb for the Treatment of Multiple Myeloma*
Hampton University (Virginia)
Preceptors: Dr. Tapan Bera, Dr. Ira Pastan

91. Emily Dangelmaier
*A Multifaceted Approach to Study the Post-transcriptional Regulation of a Potential Tumor Suppressor in Colorectal Cancer*
Colgate University (New York)
Preceptor: Dr. Ashish Lal

92. Julianie De La Cruz Minyety
*The Importance of PER2 in the Circadian Biology of IDH-mutant Glioma Stem Cells*
University of Puerto Rico, Rio Piedras Campus (Puerto Rico)
Preceptors: Dr. Terri Armstrong, Dr. Dorela Shuboni-Mulligan

93. Michael Dieffenbach – Will Present on April 30 in Poster Session 99: (649-653)
*Genome-scale CRISPR KO Screen Identifies the Role of Adenylate Cyclase 9 in Immunotoxin Resistance*
University of Oxford (Non-U.S.)
Preceptors: Dr. Ira Pastan, Dr. Tapan Bera

94. Catherine Domingo
*PARP Inhibition Facilitates 2C-like Conversion in ESCs*
Chapman University (California)
Preceptors: Dr. Sergio Ruiz Macias, Dr. Teresa Olbrich, Ms. Maria Vega Sendino

95. Bogdan Domrachev, Emily Major
*CD206 Activation Cooperates With TLR2 Signaling to Reprogram M2 Macrophages and Induce Tumor Suppression*
University of Maryland, Baltimore County (Maryland), Johns Hopkins University (Maryland)
Preceptors: Dr. Udo Rudloff, Dr. Rushikesh Sable

96. Bhargav Earla  
*Upregulation of Somatostatin Receptors Type 2 and Type 5 to Improve Targeted Imaging and Therapy in Gastro-Entero-Pancreatic Neuroendocrine Tumors*  
Georgia Institute of Technology (Georgia) BS; University of Alabama at Birmingham (Alabama) MS  
Preceptor: Dr. Samira Sadowski

97. Linsey Eldridge  
*State Level Indicators of Structural Racism and Incidence of Triple Negative Breast Cancer among Women Diagnosed with Breast Cancer between 2010-2016*  
Tulane University School of Public Health and Tropical Medicine (Louisiana)  
Preceptor: Dr. Paul Pearlman

98. Olivia Feehan-Nelson  
*Investigating the Regulation of PAX-FOXO1 Fusion-Negative Rhabdomyosarcoma Differentiation Through the Arf GTPase Pathway*  
Lawrence University (Wisconsin)  
Preceptor: Dr. Marielle Yohe

99. Sarah Flaherty  
*Metabolic Effects of Nitric Oxide Vary along Hypoxic Gradients in an in vitro Tumor Microenvironment*  
Smith College (Massachusetts)  
Preceptor: Dr. Will Heinz

100. Sandra Folarin  
*Trichothiodystrophy, a Multisystem Disorder with Early Onset Debilitating Hip Degeneration*  
University of Illinois at Urbana-Champaign (Illinois)  
Preceptors: Dr. John DiGiovanna, Dr. Kenneth Kraemer

101. Mariajose Franco  
*Chemical Screen to Identify Compounds Inducing Quiescence in ESCs*  
University of Arizona (Arizona)  
Preceptors: Dr. Sergio Ruiz Macias, Dr. Teresa Olbrich, Ms. Maria Vega Sendino

102. Melina Frantzeskakis  
*Developmental Disparity between B5t-dependent and B5t-independent Thymocytes*  
Grand Valley State University (Michigan)  
Preceptor: Dr. Yousuke Takahama

103. Karen Funderburk  
*Investigating Novel Lung Cancer Associated Genes through Transcriptome-wide Association Studies in Multiple Populations*  
Arizona State University (Arizona)  
Preceptors: Dr. Jiyeon Choi, Dr. Kevin Brown

104. Kelsey Gallant  
*High-Throughput Imaging of DNA Damage Biomarkers in Human Immune Cells*
Spelman College (Georgia)
Preceptors: Dr. Tom Misteli, Dr. Gianluca Pegoraro

105. Brittany Gardner
Distribution of Next-generation Sequencing Resources by Oncology Practice Setting: Implications for Health Equity
Duke University (North Carolina)
Preceptor: Dr. Shobha Srinivasan

106. Joseph Garvey
The Role of WASP-dependent Actin Polymerization in Stepwise T Cell Microcluster Assembly
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Lakshmi Balagopalan, Dr. Lawrence Samelson

107. Brittany Glassberg, Christian Okafor
Molecular Mechanism(s) of Resistance to Vandetanib in Medullary Thyroid Carcinoma
Icahn School of Medicine at Mount Sinai (New York), Townson University (Maryland)
Preceptor: Dr. John Glod

108. Marshall Godesil
Understanding a Three-species Interaction System in Cystic Fibrosis
University of California, Berkeley (California)
Preceptor: Dr. Anupama Khare

109. Harsha Gopalakrishnan
Using a CRISPR Library Screen to Identify Targets of KLF4-dependent Perivascular Plasticity
Rutgers University (New Jersey)
Preceptor: Dr. Meera Murgai

110. Brent Groubert
A Bioinformatic and Genetic Approach to Uncovering a New Set of Inefficiently Spliced Intron.
University of Wisconsin - Madison (Wisconsin)
Preceptors: Dr. Shiv Grewal, Dr. Martin Zofall, Dr. David Wheeler

111. Konnie Guo
Elucidating Functional Enhancers Governing Pancreas Cell Identity
Pomona College (California)
Preceptor: Dr. Efsun Arda

112. Nicholas Gutsche
Development of Imaging Probes for Hepatocellular Carcinoma
Kenyon College (Ohio)
Preceptor: Dr. Freddy Escorcia

113. Katherine Hall
Determination of an Alternative Splicing Protein Complex Responsible for the Maturation of the Oncogenic EWS-FLI1 Transcript Expressed in a Sub-group of Ewing Sarcoma
Johns Hopkins University (Maryland)
Preceptor: Dr. Natasha Caplen

114. Audrey Heffner
Substrate Binding by DnaJ, a Cochaperone of E. coli Hsp70
University of Maryland, College Park (Maryland)
Preceptor: Dr. Sue Wickner

115. Edjay Ralph Hernandez
Elucidating the Synergistic Mechanism between Cereblon modulation and MEK Inhibition in RAS-mutated Pediatric Cancer
Minot State University (North Dakota)
Preceptor: Dr. Marielle Yohe

116. Megan Hess
Unexpected Increase in Regulatory T Cells in the Context of Moderate Autoimmune Disease
Creighton University (Nebraska)
Preceptor: Dr. Howard Young

117. Naomi Hniang
Quantification of CD33 expression Using Quantibrite Bead Method: Setting the Stage for Chimeric Antigen Receptor (CAR) T-cell Therapy
Hood College (Maryland)
Preceptors: Ms. Mariela Monreal, Dr. Maryalice Stetler-Stevenson

118. Hanna Hong
Interrogation of Exportin-7 (XPO7) and STE20-like Kinase (SLK) as Therapeutic Targets in Cholangiocarcinoma
Johns Hopkins University (Maryland)
Preceptor: Dr. Jonathan Hernandez

119. Jordan Hotz
Characterization of ABC Transporter at the Zebrafish Blood-Brain Barrier
Rutgers University (New Jersey)
Preceptor: Dr. Michael Gottesman

120. Hannah Jaeger
Pomalidomide Induced Upregulation of Immune Surface Markers in an Epstein Barr Virus-infected Burkitt Lymphoma Cell Line Is Mediated through a Cereblon Dependent Pathway
University of Idaho (Idaho)
Preceptors: Dr. Robert Yarchoan, Dr. David Davis

121. Varna Jammula
Patient-reported Cognitive Functioning in Long-term Survivors of CNS Tumors
The Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Terri Armstrong

122. Morgan Johnson
Does Chronic Exposure to IFN-gamma Establish an Invariable Macrophage phenotype?
St. John Fisher College (New York)
Preceptors: Dr. Howard Young, Dr. Julio Valencia

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

124. Farrah Karimipour
*Adoptive T-Cell Therapy with High-avidity T-Cell Receptors Maximizes Regression of Less Immunogenic Tumors*
Florida State University (Florida)
Preceptor: Dr. John Davies

125. Fehad Khan
*Multiplexed CRISPR/Cas9 Knockout of Dual-specificity Phosphatases in BRAF Mutant Melanoma*
Boston College (Massachusetts)
Preceptor: Dr. Ji Luo

126. Haley Klimaszewski
*Testing Novel DNA Methyltransferase Inhibitors in a Murine Model of Myelodysplastic Syndrome*
Indiana University (Indiana)
Preceptors: Dr. Peter Aplan, Dr. Yang Jo Chung

127. Samuel Kouatcheu
*Increased Prevalence of Thyroid Nodules in Xeroderma Pigmentosum Patients: A feature of Premature Aging*
Florida A&M University (Florida)
Preceptor: Dr. Kenneth Kraemer

128. Thulasi Kulasinghe
*Biochemical Investigation on the Mechanism of Cisplatin Resistance in TMEM205 Families*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Xiaoyun Bai, Dr. Di Xia

129. Alex Kuznetsov
*Improving the Efficacy of an Anti-metastatic Biological Therapy*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. David Peeney, Dr. William Stetler-Stevenson

130. Sarah B. Lazar
*Investigating the Role of FOXA1 and Its Target Genes in Colorectal Cancer*
Women's Institute of Torah Seminary (Maryland)
Preceptor: Dr. Ashish Lal

131. Nicole Leggiero
*Use of Virtual Reality for Symptom Management in Solid Tumor Patients with Implications for Primary Brain Tumor Research: A Systematic Review*
Montgomery College (Maryland)
132. Iris Li
*Fracture Risk in Patients with Multiple Endocrine Neoplasia 2B*
University of California, Berkeley (California)
Preceptor: Dr. John Glod

133. Perry Lim
*Cancer Cells Stiffen to Efficiently Migrate in Confined Micro-environments*
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Kandice Tanner, Dr. Colin Paul

134. Hannah Lou
*Targeting PRC2-regulated Super Enhancer Driven Transcription Factors in Treating Malignant Peripheral Nerve Sheath Tumors*
University of Wisconsin - Madison (Wisconsin)
Preceptors: Dr. Jack Shern, Dr. Xiyuan Zhang

135. Tyler Lowe
*Quantification of BCMA and CD319 Expression in Multiple Myeloma prior to CAR T-Cell Therapy*
Hood College (Maryland)
Preceptor: Dr. Maryalice Stetler-Stevenson

136. Kimberly Lukasik
*CPAP Is Essential for Centriole Formation but Not for Pericentriolar Material Organization and Functioning*
Shepherd University (Maryland)
Preceptor: Dr. Jadranka Loncarek

137. Katie Lund
*Role of Gαs Signaling in Keratinocyte Proliferation and Differentiation*
Western Washington University (Washington)
Preceptors: Dr. Ramiro Iglesias-Bartolome, Dr. Pilar Pedro

138. Jodie Lunger
*Harnessing in silico Analysis of Natural Genetic Variation and Cellular Phenotype Screening to Understand the m6A Pathway*
University of Toronto (Non-U.S.)
Preceptor: Dr. Pedro Batista

139. Madison Marasco
*Changes in Hepatocyte Mitophagy in Response to Feeding and Fasting*
Clemson University (South Carolina)
Preceptors: Dr. Natalie Porat-Shliom, Dr. Daniel Feliciano

140. Erica Matich
*Development of PROTACs for Degradation of Jak1 in Acute Lymphoblastic Leukemia Cells*
University of Tampa (Florida)
Preceptors: Dr. Scott Durum, Dr. Wenqing Li

141. Jared May
RNA Biomarkers for Radiation Injury and Long Term Effects after Partial Body Radiation: NHP Model
The Pennsylvania State University (Pennsylvania)
Preceptors: Dr. C. Coleman, Dr. Molykutty Aryankalayil

142. Andrew McGowan
Transcription Regulation by Time-dependent and Locus-specific Interactions of Coregulators with the Glucocorticoid Receptor
Dickinson College (Pennsylvania)
Preceptors: Dr. Diana Stavreva, Dr. Gordon Hager

143. Joseph McKenna
The Ubiquitin Ligase HUWE1 Regulates WNT Signaling through a New Mechanism
University of California, Berkeley (California)
Preceptor: Dr. Andres Lebensohn

144. Ryan McLaughlin
Conformationally-constrained Fluorophores for Imaging in the Far Red Range
University of California, Los Angeles (California)
Preceptor: Dr. Martin Schnermann

145. Elizabeth McManus
Elucidating the Role of the General Transcription Factor TAF7 in Translation
University of Scranton (Pennsylvania)
Preceptors: Dr. Dinah Singer, Dr. Dan Cheng

146. Colin Moore
Elucidating mTOR Complex Signaling via CRISPR Guided Knockout
George Mason University (Virginia)
Preceptors: Dr. Joe Nguyen, Dr. Beverly Mock

147. Charlotta Mulder
A Prospective Validation of a Breast Cancer Risk Model Incorporating Classical Risk Factors, Polygenic Risk, and Mammographic Breast Density
University of Groningen (Non-U.S.)
Preceptor: Dr. Parichoy Pal Choudhury

148. Lwar Naing
Development of Second-generation HIV-1 Maturation Inhibitors
University of Maryland, College Park (Maryland)
Preceptors: Dr. Eric Freed, Ms. Sherimay Ablan

149. Jenny Nathans
Cell Cycle Inertia in Response to DNA Damage Leads to Probabilistic Checkpoint Control
Yale University (Connecticut)
150. Tristan Neal  
*Prediction of Virus-mediated Amplifications in Tumor Genomes*  
Arizona State University (Arizona)  
Preceptor: Dr. Gabriel Starrett

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

152. Thu-Lan Nguyen  
*Substrate Specificity of the Yeast Hsp70 Cochaperone, Ydj1, Reflects Multiple Substrate Binding Sites*  
California State University, Los Angeles (California)  
Preceptors: Dr. Sue Wickner, Dr. Shannon Doyle

153. Meredith Nix  
*Harnessing the Uptake of ICG for Targeted Drug Delivery in Pediatric Liver Cancer*  
Scripps College (California)  
Preceptor: Dr. Martin Schnermann

154. Chinelo Onyiah  
*Long-term Follow-up and Outcomes in Patients with SDHC Epimutant Gastrointestinal Stromal Tumor*  
Cornell University (New York)  
Preceptor: Dr. John Glod

155. Mary Piaskowski  
*BK Polyomavirus Infection in Normal and Malignant Bladder Epithelial-derived Cells to Identify Putative control factors*  
Marshall University (West Virginia)  
Preceptor: Dr. Gabriel Starrett

156. Katherine Polk  
*MARCH8 Inhibition of HIV-1 Envelope Glycoprotein Is Initiated in the Endoplasmic Reticulum*  
George Mason University (Virginia)  
Preceptors: Dr. Cheng man Lun, Dr. Eric Freed

157. Arati Rajeevan  
*Exploring the Developmental Origins of Enhancer Gain and Loss in Cancer*  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Sridhar Hannenhalli

158. Yuval Raviv  
*TGFβ Effect on Breast Cancer Stem Cell Dynamics in the Growing Metastatic Lesion*  
University of Maryland, College Park (Maryland)
Preceptors: Dr. Binwu Tang, Dr. Lalage Wakefield

159. Nelson Reyes
*The Role of Mesothelin in Mouse Lung Adenocarcinoma Development.*
Ana G Mendez University, Carolina Campus (Puerto Rico)
Preceptors: Dr. Jiang Qun, Dr. Raffit Hassan

160. Gabe Rice
*Can Immune Synapse Generation Be Used to Evaluate CAR T-Cell Construct Efficacy?*
Kalamazoo College (Michigan)
Preceptor: Dr. Naomi Taylor

161. Dillon Richardson
*Advanced 3D Cultures for Studying Cell-Matrix Biology*
Shenandoah University (Virginia)
Preceptors: Dr. William Stetler-Steveson, Dr. David Peeney

162. Nathan Ruchelman
*Expression of IL1R2 in Hairy Cell Leukemia and Hairy Cell Leukemia Variant*
Touro University (New York)
Preceptors: Dr. Robert Kreitman, Dr. Evgeny Arons

163. Ariana Sabzevari
*Anti Tumor Efficacy following Bintrafusp alfa (M7824) Treatment in a PBMC Humanized Mouse Model*
Binghamton University (New York)
Preceptors: Dr. John Greiner, Dr. Maurice Morillon

164. Kayla Schwartz
*RNA Polymerase I Inhibitor CX-5461 Enhances Tumor Cell Radiosensitivity*
George Washington University (District of Columbia)
Preceptor: Dr. Philip Tofilon

165. Claire Scott
*WNT/Frizzled Signaling: An Evaluation of WNT/Frizzled Expression during Early Embryonic Development*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Terry Yamaguchi, Mrs. Sara Thomas

166. Cassandra Singler
*Investigating the Mechanism of Enhancer-driven AR Expression in Advanced Prostate Cancer*
University of Michigan (Michigan)
Preceptor: Dr. David Takeda

167. Kinzie Smith
*Exploring the Interaction between the Epitranscriptome and Altered Metabolic Pathways in Cancer*
Davis & Elkins College (West Virginia)
Preceptor: Dr. Pedro Batista
168. Hayley Sowards
*Fine-mapping and Functional Analysis of Multiple Causal Variants at the 9p21.3 Melanoma Risk Locus*
Arizona State University (Arizona)
Preceptors: Dr. Kevin Brown, Dr. Rebecca Hennessey

169. Madeline Spetz
*CAR T Cells Targeting GPC2 for the Treatment of Neuroblastoma*
University of South Carolina (South Carolina)
Preceptors: Dr. Mitchell Ho, Dr. Nan Li

170. Megan Stefkovich
*Hepatocyte-specific LKB1 Loss Leads to Reduced Glucose Uptake in the Liver and Whole-body Metabolic Dysregulation*
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Natalie Porat-Shliom

171. Isaiah Taylor
*Determining the Molecular Basis of the Polyspecificity of P-glycoprotein (ABCB1): Generation of Variants with Narrow Substrate Specificity*
University of Dayton (Ohio)
Preceptors: Dr. Suresh Ambudkar, Dr. Sabrina Lusvarghi

172. Nicholas Terrigino
*Efficacy of Intense Neoadjuvant Androgen Deprivation Therapy as Measured by Quantitative Immunohistochemistry in Matched Pre- and Post-treatment Prostate Cancer Tissues*
State University of New York at Geneseo (New York)
Preceptor: Dr. Adam Sowalsky

173. Robel Tesfay
*Determinants of HPV Awareness and Knowledge of HPV Associated Cancers*
George Washington University (Maryland)
Preceptors: Dr. Richard Moser, Dr. Vidya Vedham

174. Andres Thorkelsson
*Modulation of Melanoma Plasticity to Overcome Immune Checkpoint Blockade Resistance*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Eva Perez-Guijarro

175. Annan Timon
*Differential Enhancer Vulnerability across Cancer Types*
Princeton University (New Jersey)
Preceptors: Dr. Shan Li, Dr. Sridhar Hannenhalli

176. Christopher Toy
*qPCR Assay Suite for Analysis of Retroviral Vector Supernatants and Transduced Cell Therapy Products in Immunotherapy Clinical Trials*
The Pennsylvania State University (Pennsylvania)
177. Avery Tytla  
*Probing the Murine Immune Repertoire for Germline Antibodies to Tumor-associated Carbohydrates*  
Vassar College (New York)  
Preceptor: Dr. Jeffrey Gildersleeve

178. Kyra Ungerleider  
*Delta133p53alpha Prevents Amyloid-beta Induced Astrocyte Senescence and Neurotoxicity*  
Ohio State University (Ohio)  
Preceptors: Dr. Curtis Harris, Dr. Delphine Lissa

179. Jasmin Vargas  
*An Evaluation of Cultural Competency Programs in National Immunization Programs for the Global Latinx Population and Transnational Applications*  
Lafayette College (Pennsylvania)  
Preceptor: Ms. Kalina Duncan

180. Ariana Vitale  
*Comparison of 3D Culture Conditions to Develop an in vitro Model for Breast Cancer Cell Emboli Formation*  
Edward Waters College (Florida)  
Preceptors: Dr. Balamurugan Kuppusamy, Dr. Esta Sterneck

181. Nathan Watson  
*Production and Characterization of Shed mMesothelin and Mesothelin Released by Phospholipase C*  
Duke University (North Carolina)  
Preceptor: Dr. Ira Pastan

182. Max Xu  
*Elucidating the Role of Cyclin D3 in T Cell Development*  
Duke University (North Carolina)  
Preceptor: Dr. Jeffrey Chiang

183. Maryam Yamadi  
*Galpalpha13 Signaling in Germinal Center B Cells Suppresses Lymphomagenesis in the Mesenteric Lymph Node*  
American University (District of Columbia)  
Preceptor: Dr. Jagan Muppudi

184. Naomi Yamamoto  
*Engineering Antibody Architecture to Improve Therapeutic Effects*  
University of Chicago (Illinois)  
Preceptor: Dr. Jeffrey Gildersleeve

185. Jie Yin  
*Stabilizing IFN-Gamma Biological Activity: Impact of Linking IFN-Gamma to an Inert Backbone*  
University of Washington, Seattle (Washington)
186. Jennifer Yoo  
*Gag Determinants of Specific Genome Packaging in HIV-1 and HIV-2*  
La Sierra University (California)  
Preceptors: Dr. Jonathan Rawson, Dr. Olga Nikolaichik

187. Kimberly Zaldana  
*RNAi Screening of Chromatin Modifiers Identifies EP400 as a Regulator of CENP-A Expression and Localization*  
Emory University (Georgia)  
Preceptors: Dr. Roshan Shrestha, Dr. Munira Basrai

188. Ray Zhang  
*CD40 Function in Immune Development and Response: Cell Type and Cytoplasmic Domain Requirements*  
Duke University (North Carolina)  
Preceptors: Dr. Richard Hodes, Dr. Ying Lu

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

189. Daina Eiser  
*Post-GWAS Functional Study of the PDX1 Pancreatic Cancer Risk Locus*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Jason Hoskins, Dr. Laufey Amundadottir

190. Naomi Gordon  
*Elucidating Mechanisms Contributing to Pancreatic Cancer Risk at the chr22q12.1 Locus*  
University of Pennsylvania (Pennsylvania)  
Preceptor: Dr. Laufey Amundadottir

191. Joy Jiang  
*Comparison of SEER-Medicare and Death Certificate Data for Identifying Liver Cancer Deaths Due to Hepatitis Virus Infections*  
Brown University (Rhode Island)  
Preceptors: Dr. Thomas O'Brien, Dr. Meredith Shiels

192. Ankur Patel - *Cancelled*  
*Analysis of Cataract in Relation to Occupational Radiation Dose Accounting for Dosimetric Error in a Cohort of US Radiologic Technologists*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptors: Dr. Mark Little, Dr. Paul Albert

193. Radhika Srivastava  
*The Bull’s Eye: A Research Tool to Characterize Family, Friends and Social Networks within a Li-Fraumeni Syndrome Family*  
Duke University (North Carolina)  
Preceptor: Dr. Jennifer Loud
194. Armaan Akbar
Visionally Evoked Defensive Behaviors Are Selectively Affected by Loss of Distinct Retinal Ganglion Cell Subpopulations
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Tudor Badea

195. Charles DeYoung
Human Retinal Pigment Epithelium Secretes IGF2 in vitro
Vanderbilt University (Tennessee)
Preceptors: Dr. Aman George, Dr. Brian Brooks

196. Annie Fuller
Characterization of FoxP2 and Brn3a in Mouse Retinal Ganglion Cells
College of William & Mary (Virginia)
Preceptor: Dr. Tudor Badea

197. Sheridan Goldstein
Stimulus Driven Attention in Mice
Tulane University (Louisiana)
Preceptor: Dr. Richard Krauzlis

198. Adam Lazere
Free-Motion Has Minimal Effects on Neuronal Response in Macaque
Oberlin College (Ohio)
Preceptor: Dr. Hendrikje Nienborg

199. Nadege Lebert
Eye to Eye: Test-Retest Variability in Spinocerebellar Ataxia Type 7
College of William & Mary (Virginia)
Preceptor: Dr. Laryssa Huryn

200. Emily Meyer
Using t-SNE to Dissect Microsaccadic Patterns in Learning and Performance of a Visual Discrimination Task
Tulane University (Louisiana)
Preceptor: Dr. Hendrikje Nienborg

201. William Montgomery
Transcriptomic and Epigenomic Analysis Reveals the Importance of the -70 CTCF Site at the IFNg Locus
Pomona College (California)
Preceptor: Dr. Han-Yu Shih

202. George Morcos
Molecular Modeling and Biochemistry of Tyrosinase-Related Proteins 1 and 2
University of Virginia (Virginia)
Preceptor: Dr. Yuri Sergeev

203. Ameera Mungale
Transcriptional Mapping of the Macaque Retina and RPE-Choroid Reveals Conserved Inter-tissue Function
University of California, Santa Barbara (California)
Preceptors: Dr. Robert Hufnagel, Dr. Temesgen Fufa

204. Malika Nimmagadda
Epithelial Phenotype Restoring Drugs Suppress Macular Degeneration Phenotypes in an iPSC and a Rat Model
Vanderbilt University (Tennessee)
Preceptors: Dr. Kapil Bharti, Dr. Ruchi Sharma

205. Rosalie Nolen
Quantitative Assessment of Retinal Vessel Tortuosity in Williams Syndrome
Temple University (Pennsylvania)
Preceptor: Dr. Laryssa Huryn

206. Shabnam Parsa
Retbindin Binds Retinoids and Regulates Sensitivity to Light-induced Retinal Damage
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Jianguo Fan, Dr. Graeme Wistow

207. Milan Patel
Functional in silico Analysis of Human Tyrosinase and OCA1 Associated Mutations
Johns Hopkins University (Maryland)
Preceptor: Dr. Yuri Sergeev

208. Lauren Reich
Control of Interferon-gamma Mediated Neuroinflammation in Aging
University of Delaware (Delaware)
Preceptor: Dr. Han-Yu Shih

209. Cuilee Sha
A Genetic Screen and Validation in Danio rerio Using CRISPR/Cas9 to Identify Genes Involved in Uveal Coloboma
University of Michigan (Michigan)
Preceptor: Dr. Sunit Dutta

210. Whitney Teagle, Audrey Chang
Neural Mechanisms of Decoding in V4
Grinnell College (Iowa), Johns Hopkins University (Maryland)
Preceptors: Dr. Daniel Garside, Dr. Bevil Conway

211. Elliott Vanderford
Quantitative Analysis of Longitudinal Changes in Multimodal Imaging of Late-onset Retinal Degeneration
University of Oklahoma (Oklahoma)
Preceptor: Dr. Catherine Cukras

212. Paul Varghese
*Understanding the Melanogenesis Pathway by Isolating the Products of Tyrosinase*
University of Virginia (Virginia)
Preceptor: Dr. Yuri Sergeev

National Heart, Lung, and Blood Institute (NHLBI)

213. Maliha Ahmad
*Mitochondrial DNA Variation in Individuals with Sickle Cell Disease*
College of William and Mary (Virginia)
Preceptors: Dr. Swee Lay Thein, Dr. Laxminath Tumburu

214. Peter Ajayi
*Myofibrillar Network Structures in Drosophila melanogaster Muscles*
Cornell University (New York)
Preceptors: Dr. Brian Glancy, Dr. Brad Willingham

215. Gregory Alspaugh
*Measuring c-Myc Multimerization States Using Fluorescence Fluctuation Spectroscopy*
Davidson College (North Carolina)
Preceptors: Dr. Jay Knutson, Dr. David Levens

216. Jeffrey Cifello
*Prediction of Viral Antigen-specific CD8 ab TCR by Machine Learning*
University of Massachusetts Amherst (Massachusetts)
Preceptor: Dr. Nan-ping Weng

217. Saida Coreas
California State University, Los Angeles (California)
Preceptors: Dr. Eliseo Pérez-Stable, Dr. Erik Rodriquez

218. Kaveri Curlin
*CANVAS X PhotoVoice: Combining Quantitative and Qualitative Methods to Assess the Built Environment*
Yale University (Connecticut)
Preceptor: Dr. Tiffany Powell-Wiley

219. Nicole Debski
*In vivo Assessment of Cardiac Mitochondrial Metabolism Using Optical Absorbance Spectroscopy*
James Madison University (Virginia)
Preceptor: Dr. Robert Balaban
220. David Eik
Combined with BTK Inhibition, the CD19/CD3 Bispecific Antibody Induces More Potent T Cell-mediated Killing of Chronic Lymphocytic Leukemia Cells
Colorado College (Colorado)
Preceptors: Dr. Maissa Mhibik, - Erika Gaglione

221. Joseph Grech
Common Cardiovascular Disease Polygenic Risk Scores and Platelet Reactivity
Michigan State University (Michigan)
Preceptor: Dr. Andrew Johnson

222. Cristhian Gutierrez Huerta
LDL Drives Pro-inflammatory Monocyte Subset Differentiation and Increases Chemokine Profile Expression in African-American Women
University of California, Merced (California)
Preceptors: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer

223. Michael Harris
Endoplasmic Reticulum Stress Alters the Localization of the Prolyl Hydroxylase Ogfod1 in Adult Mouse Cardiomyocytes
Boston College (Massachusetts)
Preceptors: Dr. Leslie Kennedy, Dr. Elizabeth Murphy

224. Gabriella James
NRX0492 Induced BTK Degradation as a Therapeutic Strategy for Ibrutinib Resistant CLL
Fort Lewis College (Colorado)
Preceptors: Dr. Adrian Wiestner, Dr. Deyi Zhang

225. Rachel Kim
Probing Topological and Sequence Specificity of Topoisomerases with SHAN-SEQ
Wellesley College (Massachusetts)
Preceptors: Ms. Shannon McKie, Dr. Keir Neuman

226. Anna Kosmach
Investigating the Role of the Mitochondrial Calcium Uniporter (MCU) in Calcium Regulation of Cardiac Mitochondria Using Transmural Spectroscopy and an Integrating Sphere
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Elizabeth Murphy

227. Elise Kronquist
KATP Channel Opener, Minoxidil, Offers Potential Therapeutic Benefit for Treatment of Pulmonary Vascular Disease in Williams Beuren Syndrome: Considerations and Cautions
University of Oregon (Oregon)
Preceptor: Dr. Beth Kozel

228. Deepak Lakshmipathy
Chemical Identity and Morphology of Arterial and Joint Calcification in Patients with the Rare Genetic Disease of Arterial Calcification Due to Deficiency of CD73 (ACDC)
University of California, San Diego (California)
Preceptor: Dr. Han Wen

229. Dong Heon Lee
*Integrative Genomic Analysis and Functional Studies Reveal GP5, GRN, MPO and MCAM as Causal Protein Biomarkers for Platelet Traits*
Dartmouth Institute (New Hampshire)
Preceptors: Dr. Andrew Johnson, Dr. Daniel Levy

230. Gha Young Lee
*Identifying Putatively Causal Protein Biomarkers of Rheumatoid Arthritis through Integrative Genomic Analysis*
Harvard College (Massachusetts)
Preceptor: Dr. Daniel Levy

231. Jessica Lee
*Body Composition and Nutritional Status in Elderly Women with Nontuberculous Mycobacterial Lung Infections*
Cornell University (New York)
Preceptor: Dr. Kevin Fennelly

232. Timothy Lequang
*Lipid Distribution and Disturbances in Sickle Cell Disease: An Evolving Field*
Geisinger Commonwealth School of Medicine (Pennsylvania)
Preceptor: Dr. Swee Lay Thein

233. Katherine Lipsius
*Non-canonical Wnt5a Signaling Regulates Collateral Branching of Sympathetic Axons to Innervate Blood Vessels*
University of Maryland, Eastern Shore (Maryland)
Preceptor: Dr. Yosuke Mukoyama

234. Andrew Liu
*NM2A Deletion Promotes Cancer through Chromosomal Instability*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Xuefei Ma, Dr. Robert Adelstein

235. Richard Lozano
*Busulfan versus TBI Conditioning Regimens Results in Distinct Clonal Patterns following Rhesus Macaque Autologous Transplantation with Lentivirally-barcoded Hematopoietic Stem and Progenitor Cells*
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Chuanfeng Wu, Dr. Cynthia Dunbar

236. Larissa Lushniak
*Epigenetic Modulation of Human Endogenous Retrovirus Type E (CT-RCC HERV-E) Expression in Kidney Cancer Cells*
Washington University in St. Louis (Missouri)
Preceptors: Dr. Elena Cherkasova, Dr. Richard Childs
237. Brianna P. Matthew
Impact on Pulmonary Function of Small Pulmonary Cysts Detected by Ultra-high Resolution Regional CT in Patients with Lymphangioleiomyomatosis (LAM)
Florida Institute of Technology (Florida)
Preceptor: Dr. Han Wen

238. Corbin McElrath
Evaluation of a Novel Conditioning Regimen in MHC-mismatched Murine Allogeneic Transplantation
Old Dominion University (Virginia)
Preceptors: Dr. Courtney Fitzhugh, Dr. Arunakumar Gangaplara

239. Ryland Mortlock
Single Cell RNA Sequencing of Rhesus Macaque Natural Killer Cells Before and After CMV Infection
University of Southern California (California)
Preceptors: Dr. Stefan Cordes, Dr. Cynthia Dunbar

240. Sam Neally
Customizing Location-based Messaging Using a Mixed-methods Approach for Step It Up: A Physical Activity Mobile App Tailored to Neighborhood Environment
Mount Holyoke College (Massachusetts)
Preceptor: Dr. Tiffany Powell-Wiley

241. Arman Niknafs
Nitric Oxide Potentiates Drug Susceptibility of Non-tuberculosis Mycobacteria
Oglethorpe University (Georgia)
Preceptors: Dr. Shashank Gupta, Dr. Kenneth Olivier

242. Jenis Ortiz
Analysis of Telomere Length As a Predictive Marker of Inflammation and Atherosclerotic Risk Factors in Psoriasis
Trinity Washington University (District of Columbia)
Preceptors: Dr. Nehal Mehta, Dr. Martin Playford

243. Patricio Pichling
Advancements in Drug Discovery via the Structure-Activity Relationship of Bacterial RNA and Synthetic Ligands
Johns Hopkins University (Maryland)
Preceptors: Dr. Adrian Ferre-D’Amare, Dr. Christopher Jones

244. Stephanie Pierre
Exploring CT-RCC HERV-E’s Potential Role in ccRCC Tumorigenesis through CRISPR Deletion
University of Georgia (Georgia)
Preceptors: Dr. Elena Cherkasova, Dr. Richard Childs

245. Kathy Recto
Transcriptome-wide Association Study of Circulating IgE Levels: The Framingham Heart Study
Washington University in St. Louis (Missouri)
246. Branden Roarke  
*Metmyoglobin Detection in the Intracellular Environment Using Fluorescence Lifetime Imaging of YFPPhenMyoglobinPhenmCherry*  
University of Florida (Florida)  
Preceptors: Dr. Rozhin Penjweini, Dr. Jay Knutson

247. Emily Roney  
*Tracking mRNA into Stress Granules with Fluorogenic RNA Mango Aptamers*  
Northwestern University (Illinois)  
Preceptors: Dr. Adrian Ferré-D’Amaré, Dr. Natalia Demeshkina

248. Ujjawal Savani  
*Screening of Antibodies Targeting CT-RCC HERV-E for the Development of Immune-based Therapies for Clear Cell Renal Cell Carcinoma*  
University of Michigan (Michigan)  
Preceptors: Dr. Long Chen, Dr. Richard Childs

249. Allen Seylani  
*GCN5L1, a Noble Regulator of Lysosome Tubulation*  
California State University, San Marcos (California)  
Preceptor: Dr. Michael Sack

250. Sydney Shuster  
*Amyloid Formation of the C-Terminal Domain of TDP-43 Probed by Intrinsic Tryptophan Fluorescence*  
Middlebury College (Vermont)  
Preceptors: Dr. Dexter Dean, Dr. Jennifer Lee

251. Mickias Tegegn  
*Variants in Intron 2 of PKLR Gene Influence Its Expression and Are Associated with Hospitalization in Sickle Cell Disease Patients.*  
Duke University (North Carolina)  
Preceptors: Dr. Mykhaylo Artamonov, Dr. Swee Lay Thein

252. Leann To  
*Investigating Long-term Effects of Hydroxyurea Therapy on Genome Stability and Genotoxicity in Patients with Sickle Cell Disease*  
University of Oklahoma (Oklahoma)  
Preceptors: Dr. Mykhaylo Artamonov, Dr. Swee Lay Thein

253. Christina Tolete  
*Investigating the Prevalence of Clonal Hematopoiesis in Patients with Sickle Cell Disease*  
Virginia Commonwealth University (Virginia)  
Preceptors: Dr. Swee Lay Thein, Dr. Laxminath Tumburu

254. Briana Turner  
*Dopamine-mediated CCR2 Expression on Monocytes*
University of Chicago (Illinois)
Preceptors: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer

255. Shravani Vatti
Generation of Vascular Organoids from Mouse Embryonic Stem Cells
Michigan State University (Michigan)
Preceptor: Dr. Yosuke Mukoyama

256. Clara Wang
The role of UPF1 ATPase Activity in mRNA Decay Target Selection
Mount Holyoke College (Massachusetts)
Preceptors: Dr. Bobby Hogg, Dr. Sarah Fritz

257. Carlynn Winters
Radiographic Features of Idiopathic Bronchiectasis in Patients With and Without Pulmonary Nontuberculous Mycobacterial Disease
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Kenneth Olivier, Dr. Arlene Sirajuddin

258. Zoë Wong
Maternal Allergy Modifies Stenosis Risk in Williams Syndrome
University of Oregon (Oregon)
Preceptor: Dr. Beth Kozel

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

259. Jasmina Abdalla
The Regulatory Role of CB1R in Glutamate Signaling in Pulmonary Fibrosis
George Washington University (District of Columbia)
Preceptors: Dr. Resat Cinar, Dr. George Kunos

260. Erika Janella Almira
Working Memory Differences Between Populations With and Without Alcohol Use Disorder
California State University, Northridge (California)
Preceptor: Dr. Reza Momenan

261. Jacob Ballway
Post-Translational Protein Acetylation, Oxidative Stress, and Ethanol-induced Tissue Damage: Review of Notable Developments and Future Pursuits
Catholic University of America (District of Columbia)
Preceptor: Dr. Byoung-Joon Song

262. Catherine Biesecker
Cognitive Differences in CANTAB Tasks between Healthy Volunteers and People with Alcohol Use Disorder
College of William & Mary (Virginia)
263. Isabel Bleimeister  
*Mu-Opioid Receptors in Medium Spiny Neurons Regulate Alcohol Drinking Behavior*  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Veronica Alvarez

264. Nia Byrd  
*Exploring the Mediating Effects of Quality of Life on the Relationship between Childhood Trauma and Alcohol Consumption: Race and Sex Matter!*  
University of Michigan (Michigan)  
Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

265. Laura Castillo  
*Cortico-Amygdala Endocannabinoid System and Fear Extinction*  
Middlebury College (Vermont)  
Preceptor: Dr. Ozge Gunduz Cinar

266. Kendall Coden  
*Investigating the Role of Nucleus Accumbens Shell Medium Spiny Neuron Subtypes in Punished Decision-making*  
University of Michigan (Michigan)  
Preceptors: Dr. Patrick Piantadosi, Dr. Andrew Holmes

267. Alexandra Cowand - Cancelled  
*Quality of Life Is Related to Alcohol Consumption in the Laboratory and Recent Self-reported Alcohol Consumption*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

268. Dana Feldman - Cancelled  
*Behavioral and Neural Correlates of Emotional Dysfunction in Alcohol Use Disorder*  
University of Michigan (Michigan)  
Preceptors: Dr. Peter Manza, Dr. Corinde Wiers

269. Alexa Gracias  
*In vitro and in vivo Monitoring of eCB Transmission in Striatum Using the Genetically Encoded Fluorescent Sensor, GRABeCB*  
University of Virginia (Virginia)  
Preceptor: Dr. Shana Augustin

270. Claire Hunt  
*Delay Aversion: A Candidate Endophenotype for Impaired Reward Signaling and Steeper Delay Discounting in ADHD and AUD populations*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Reza Momenan
271. Mallory Kisner
*The Association between Alexithymia and Interpersonal Functioning in Alcohol Use Disorder*
Colorado State University (Colorado)
Preceptors: Dr. Samantha Fede, Dr. Reza Momenan

272. Danielle Kroll
*Inflammation and Sleep Disturbances in Substance Use Disorders*
Dartmouth College (New Hampshire)
Preceptor: Dr. Corinde Wiers

273. Lea Lecaj
*Ethanol Gavage Did Not Affect Striatal Transcriptomes in Female Mice as Compared to Male Mice*
Fairfield University (Connecticut)
Preceptor: Dr. Chuck Chen

274. Brandon Manor
*The Addictions Neuroclinical Assessment: Self-report Stress Measures Are Associated with Other Measures of Negative Emotionality Domain*
Morehouse College (Georgia)
Preceptors: Dr. Nancy Diazgranados, Dr. Vijay

275. Katherine McPherson
*The Interaction of Physical Activity and Brain Dopaminergic Signaling as Assessed by PET*
Cornell University (New York)
Preceptor: Dr. Gene-Jack Wang

276. Adriana Mendez
*Modulation of Fear and Extinction by Astroglial CB1 Receptors in the Basolateral Amygdala*
University of Washington (Washington)
Preceptor: Dr. Olena Bukalo

277. James Morris
*Executive Function Measures Are Related to Alcohol Consumption Behaviors in Heavy Drinkers*
Florida State University (Florida)
Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

278. Erin Murray
*Effect of Cocaine on Mice with Cell-specific Knockdown of D2 Receptors in Striatum and Midbrain*
Lafayette College (Pennsylvania)
Preceptors: Mr. Roland Bock, Dr. Veronica Alvarez

279. Jacob Nadel
*Ketone Ester Diet Improves Motor Dysfunction in a Mouse Model of Parkinson's Disease*
Oberlin College (Ohio)
Preceptors: Dr. Armando Salinas, Dr. David Lovinger

280. Sarvar Oreizi-Esfahani
*Ambiguous Threat Engages an Infralimbic-bed Nucleus of the Stria Terminalis Circuit*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Andrew Holmes

281. Emma Pearson
*Gender Differences in Emotional Face Processing in Individuals with Alcohol Use Disorder and Comorbid Anxiety*
University of Michigan (Michigan)
Preceptors: Dr. Reza Momenan, Dr. Samantha Fede

282. Luis Santos Molina
*Peripheral CB1 Cannabinoid Receptors Control Alcohol Drinking Behavior: Mechanisms and Therapeutic Implications*
Florida State University (Florida)
Preceptors: Dr. Grzegorz Godlewski, Dr. George Kunos

283. Julia Schaffer
*Corticomidbrain Signaling of Observational Fear*
Cornell University (New York)
Preceptor: Dr. Andrew Holmes

284. Nicole Schwab
*Dissecting Cortico-Limbic-Striatal Circuit Interactions during Punished Decision-making*
Georgetown University (District of Columbia)
Preceptor: Dr. Patrick Piantadosi

285. Sachin Sundar
*Relationship between Recent Drinking History, Subjective Response to Alcohol, and Cardiac Reactivity in Non-dependent Drinkers*
James Madison University (Virginia)
Preceptor: Dr. Vijay Ramchandani

286. Catherine Teresi
*Effects of Acute and Chronic Cocaine Administration on Prefrontal Cortex-triggered Striatal Dopamine Transients*
University of Virginia (Virginia)
Preceptor: Dr. Michael Authement

287. Emily Vogt
*The Addictions Neuroclinical Assessment: Lower Perceived Control Predicts Poorer Performance across a Battery of Executive Functioning Tasks*
Northwestern University (Illinois)
Preceptors: Dr. Nancy Diazgranados, Dr. Vijay Ramchandani

288. Chase Weinholtz
*Intercalated Cells of the Amygdala in Fear Extinction*
Pitzer College (California)
Preceptor: Dr. Olena Bukalo

289. Casey Wood
Synthesis and Biological Evaluation of Novel Substituted-adamantyl Ureas as Soluble Epoxide Hydrolase (sEH) Inhibitors
University of South Florida (Florida)
Preceptor: Dr. Malliga Iyer

290. Charles Zawatsky
Cannabinoids Induce Lung Inflammation via CB1R Which Is Potentiated by Vitamin E Acetate
Hillsdale College (Michigan)
Preceptors: Dr. Resat Cinar, Dr. George Kunos

291. Kaeli Zoretich
Structural and Functional Characterization of CB2 by Site Directed Mutagenesis and EPR Analysis
College of Wooster (Ohio)
Preceptors: Dr. Klaus Gawrisch, Dr. Alexei Yeliseev

292. Leo Zsembik
Input-Output Mapping of Alcohol-sensitive Prefrontal Neurons
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Mr. Andrew Holmes

Wednesday, April 29, 2020
National Human Genome Institute (NHGRI)

293. Ilya Andreev
The Enigmatic DUP240 Yeast Gene Family Has a Role in Defense against K28 Killer Toxin
University of Virginia (Virginia)
Preceptor: Dr. Meru Sadhu

294. Samuel Blizzard
Transcriptome-wide Association Study of ADHD and Mediation by Structural and Functional Phenotypes
University of Cincinnati (Ohio)
Preceptor: Dr. Philip Shaw

295. Alan Brown
Wilson-Interval Corrected Population Frequency Estimates for Reduced-coverage Areas in Population Reference Databases
North Carolina State University (North Carolina)
Preceptor: Dr. David Adams

296. Julia Byeon
The History of "Ethnicity" in Genetics Research
University of Chicago (Illinois)
297. Dennis Carter  
*Using Brain MRI to Compare Disease Progression in an Animal Model and Patients With GM1: Designing a Translational Model to Test Therapeutic Interventions*  
University of Maryland University College (Maryland)  
Preceptor: Dr. Maria Acosta

298. Kayla Cooper  
*Clinical Implications of Active Coping on Sleep: John Henryism in a Sickle Cell Disease Cohort*  
Vanderbilt University (Tennessee)  
Preceptor: Mr. Vence Bonham

299. Hannah Davidson  
*Assessing the Relationship between Growth through the Caregiving Role and Caregiver Sentiment*  
Hampshire College (Massachusetts)  
Preceptors: Dr. Laura Koehly, Dr. Christopher Marcum

300. Allison de Moya  
*Health Behavior Adherence and Family Communication among Recipients of Genomic Secondary Findings*  
Davidson College (North Carolina)  
Preceptors: Mrs. Katie Lewis, Mrs. Julie Sapp

301. Jenny Do  
*Longitudinal Behavioral Characterization of a Murine Model of Gaucher-associated Parkinson Disease*  
Middlebury College (Vermont)  
Preceptors: Dr. Nahid Tayebi, Dr. Ellen Sidransky

302. Alexander Dolwick  
*Parental Reward-based Eating Drive Predicts Child Feeding Practices*  
Washington and Lee University (Virginia)  
Preceptor: Dr. Susan Persky

303. Monica Duran-Martinez  
*Human Induced Pluripotent and Neural Stem Cells as Tools to Design Effective Therapies for Down Syndrome*  
University of Puerto Rico (Puerto Rico)  
Preceptors: Dr. Diana Bianchi, Dr. Faycal Guedj

304. Hermon Feron  
*Diagnostic Performance of Serum Fructosamine in Identifying Prediabetic and Diabetic Individuals in Africans With or Without Sickle Cell Trait*  
Austin College (Texas)  
Preceptor: Dr. Ayo Doumatey

305. Graeme Frost  
*Loss-Of-Function Variants in SNAPC4 Decrease Expression of snRNAs, and Are Associated with a Pediatric Neurological Disorder Characterized by Progressive Neuromuscular Spasticity*  
St. Mary’s College of Maryland (Maryland)
306. Eric Joshua Garcia
Multi-omic Analyses in a Family with Gaucher Disease and Gaucher-Parkinson Diseases Reveal Several Potential Modifier Genes in GBA1-associated Parkinson Disease
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Nahid Tayebi, Dr. Ellen Sidransky

307. Karolyn Garcia
Studies of Fibroblasts Isolated from Patients with Severe Developmental Delay Show Loss of Function Variants in Pseudouridine Synthase 7 (PUS7) Lead to Dysregulated Protein Translation
St. Mary’s College of Maryland (Maryland)
Preceptors: Dr. Ted Han, Dr. Cynthia Tifft

308. Meheret Gebreegziabher
THE Effect of Gata2 Transcription Factor Deficiency on the Leukemogenesis of Inv(16) Acute Myeloid Leukemia(AML)
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Paul Liu, Dr. Matthew Merguerian

309. Fiona Gilpin Macfoy
Assessing the Use of the Families SHARE Workbook among African Americans at Increased Risk for Type 2 Diabetes
Bowie State University (Maryland)
Preceptor: Dr. Laura Koehly

310. Madeleine Granovetter
Caregiving Roles and Expectations among Siblings of Children with Inborn Errors of Metabolism versus Siblings of Typically Developing Children
Harvard College (Massachusetts)
Preceptor: Dr. Laura Koehly

311. Meghan Grewal
Methylation Patterns in Stress-related Genes: Comparing Parents of Children with Rare Genetic Conditions to Parents of Typically Developing Children
Scripps College (California)
Preceptor: Dr. Laura Koehly

312. Marwan Hawari
Development and Implementation of a Novel Single Nucleotide Variant Simulation Tool for Benchmarking Somatic Variant Calling
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Celine Hong, Dr. Leslie Biesecker

313. Mia Hodges
Filling in the Gaps: Using Natural History Data to Evaluate Disease Progression in Patients with Proteus Syndrome
Davidson College (North Carolina)
314. Parker Houston
*Discovery of Novel Pathogenic Short Tandem Repeat Expansions Using ExpansionHunter DeNovo*
University of California, Davis (California)
Preceptor: Dr. David Adams

315. David Hoying
*A Metabolic Shift to Glycolysis Promotes Zebrafish Tail Regeneration through TGF-B Dependent Dedifferentiation of Notochord Cells to Form the Blastema*
The Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Jason Sinclair, Dr. Shawn Burgess

316. Charles Huang
*Findings From A Case Of Mosaic Genome-wide Paternal Uniparental Isodisomy in A Patient with Beckwith-Wiedemann Syndrome*
Duke University (North Carolina)
Preceptors: Dr. Thomas Markello, Dr. William Gahl

317. Reyna Huang
*Natural History Data Define Outcome Measures of Efficacy for First-In-Human Gene Therapy in GM1 Gangliosidosis*
University of Virginia (Virginia)
Preceptor: Dr. Cynthia Tifft

318. Trung Huynh
*Non-proliferation and Cell-to-cell Adhesion of EndoC-BetaH3*
University of Alabama at Birmingham (Alabama)
Preceptors: Dr. Francis Collins, Dr. Mike Erdos

319. Rupleen Kaur
*Arid1a Mutations Profoundly Alter the DNA Methylation and Transcription Landscapes in Mouse Models of Ovarian Tumors, Lacking Apc and Pten*
University of California, Davis (California)
Preceptor: Dr. Laura Elnitski

320. Megan Kazynski
*Late-onset Recurrent Aseptic Meningitis as the Presenting Symptom of Cryopyrin-associated Periodic Syndrome (CAPS) Responsive to Anakinra*
University of Minnesota (Minnesota)
Preceptors: Dr. Donna Novacic, Dr. Camilo Toro

321. Andrew Kim
*Introduction of PUS7 Missense Variants into HeLa Knockout Cells Is Expected to Mimic Patient Cells and Dysregulate Protein Synthesis*
Virginia Commonwealth University (Virginia)
322. Stefanos Koutsoukos
The First Viable Mouse Model of Combined Methylmalonic Acidemia and Homocystinuria, cblC Type Displays a Sustained Response to a Single Dose of AAV Gene Therapy That Is Comparable to the Response to Chronic Hydroxocobalamin Administration
University of Maryland, College Park (Maryland)
Preceptors: Dr. Jennifer Sloan, Dr. Charles Venditti

323. Paul Kundzicz
Exploring ADHD Symptom Ratings as Predictors of Anatomical Brain Differences
Vanderbilt University (Tennessee)
Preceptors: Dr. Philip Shaw, Dr. Gustavo Sudre

324. Ryan Laird
Discovering Novel Patterns of Autoinflammation via Phenotype-First Unsupervised Machine Learning
Messiah College (Pennsylvania)
Preceptors: Dr. Daniel Kastner, Dr. Amanda Ombrello

325. Nathaniel Laughner
Investigating Non-cell Autonomous Signaling in Proteus Syndrome
North Carolina State University (North Carolina)
Preceptor: Dr. Marjorie Lindhurst

326. Jessica Lewis
Association of Neighborhood Walkability and Fasting Glucose in Geneforecast
Swarthmore College (Pennsylvania)
Preceptors: Dr. Sharon K. Davis, Dr. Kristen Brown

327. Amelia Loydpierson
Potential Phenotypic Expansion of KLF7-related Syndrome in a Patient with Complex Neurodevelopmental, Neuromuscular, and Renal Abnormalities
Kenyon College (Ohio)
Preceptors: Dr. Cynthia Tifft, Dr. Precilla D'Souza

328. Linnea Lundh
A Natural History Study of Oculocutaneous Albinism
St. Mary's College of Maryland (Maryland)
Preceptor: Dr. David Adams

329. Samantha McCoy
Circulating Biomarkers of Mitochondrial Dysfunction to Inform Tissue-targeted Gene Therapies in Methylmalonic Acidemia: From Bench to Bedside
Michigan State University (Michigan)
Preceptors: Dr. Irini Manoli, Dr. Charles Venditti

330. Sangho Myung
Generating a Model of Methylmalonic Acidemia (MMA) in S. cerevisiae
Brown University (Rhode Island)
Preceptor: Dr. Pamelasara Head

331. Ugonna Nwannunu
*Genotype-Phenotype Correlations among Rubinstein-Taybi Syndrome Patients in Diverse Populations*
Howard University (District of Columbia)
Preceptors: Dr. Paul Kruszka, Dr. Cedrik Ngongang

332. Daniela Ospina Cardona
*Characterizing the Mechanism of Somatic UBA1 Variants in Disease*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. David Beck, Dr. Ivona Aksentijevich

333. Babajide Owosel
*The Comorbidity of Congenital Heart Defects and Holoprosencephaly*
Howard University (District of Columbia)
Preceptor: Dr. Paul Kruszka

334. Mary Pavia
*Transcriptome Signature of Declined Kidney Function in Hypertensive African Americans from the Minority Health-GRID Study*
American University (District of Columbia)
Preceptors: Dr. Amadou Gaye, Dr. Gary Gibbons

335. Chelsie Poffenberger
*EEG Abnormalities in Patients with Gaucher disease: A Retrospective Review*
Auburn University (Alabama)
Preceptors: Dr. Ellen Sidransky, Dr. Grisel Lopez

336. Alex Rodriguez
*Generation of Pseudo CADD Scores for Mitochondrial Gene Variants*
Johns Hopkins University (Maryland)
Preceptor: Dr. Thomas Markello

337. Sofia Rosenzweig
*Children Who Present with Low IgM and Recurrent Fevers of Unknown Origin Should be Tested for DADA2*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Ivona Aksentijevich

338. Richard Sam
*Dopaminergic Neuron Differentiation from GD/PD, GBA1-carrier PD, Idiopathic PD Patient-derived Induced Pluripotent Stem Cells*
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Ellen Sidransky, Dr. Yu Chen

339. Victoria Sanchez Guzman
*Exploring the Function of the gata2a Intron 4 Enhancer in a Zebrafish Mutant Model*
University of Puerto Rico (Puerto Rico)
Preceptors: Dr. Paul Liu, Dr. Erica Bresciani

340. Maxwell Sandler
**X-linked Recessive Variants in PDZD4 Are Likely Associated with a Syndromic Disorder Characterized by Microcephaly, Autism Spectrum Disorder, and Deafness**
Tulane University (Louisiana)
Preceptors: Dr. Jenny Serra-Vinardell, Dr. Christine May Malicdan

341. Emma Schopp
*Parental Responses to Messages about Epigenetics in Obesity Risk*
University of California, Los Angeles (California)
Preceptor: Dr. Susan Persky

342. Kamyar Sharifi
*The Clinical and Molecular Spectrum of Patients with Parenchymal Brain Calcification in the NIH Undiagnosed Diseases Program (UDP) Cohort*
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Camilo Toro

343. Anna Shetler
*Resource Accessibility for Families Affected by Rare Disease: How Relocation Impacts Health*
Goshen College (Indiana)
Preceptors: Dr. Laura Koehly, Dr. Christopher Marcum

344. Leila Shirvan
*New Perspectives From the Natural History of Adults With GM2 Gangliosidosis*
St. Mary's College of Maryland (Maryland)
Preceptor: Dr. Cynthia Tifft

345. Benjamin Steger
*Analysis of DNA Repair Protein Encoding Gene, RFC4, as a Candidate Gene in Two Individuals with a Novel Neurological Disorder*
Oberlin College (Ohio)
Preceptors: Dr. Marie Morimoto, Dr. May Malicdan

346. Courtney Stewart
*Spiritual, but Not Religious: Analyzing the Relationships Between Spirituality, Religiosity, and Sickle Cell Disease*
Lipscomb University (Tennessee)
Preceptor: Mr. Vence Bonham

347. Sydney Sumrall
*Measuring Social Support through Caregivers' Perceptions of their Social Network*
Emory University (Georgia)
Preceptors: Dr. Jasmine Manalel, Dr. Laura Koehly
348. Tracy Swan
*Caring for a Child with an Undiagnosed Condition: A Thematic Analysis of the Challenges Faced by Parent-Caregivers*
Northwestern University (Illinois)
Preceptor: Dr. Laura Koehly

349. Henry Taylor
*Single Cell Gene Expression and Chromatin Accessibility Elucidate Molecular Pathways of Type 1 Diabetes*
Duke University (North Carolina)
Preceptors: Dr. Francis Collins, Dr. Mike Erdos

350. Sydney Telaak
*Psychological Outcomes among Individuals With Diabetes: Considering Weight Status and Weight Satisfaction*
Kenyon College (Ohio)
Preceptors: Dr. Susan Persky, Dr. Kristi Costabile

351. Lauren Testa
*Advances in Therapeutic and Clinical Approaches for Hermansky-Pudlak Syndrome Pulmonary Fibrosis*
University of Rochester (New York)
Preceptor: Dr. May Malicdan

352. Rachel Weinstein
*Using Cytidine Base Editors to Generate Precise Nucleotide Substitutions in Zebrafish*
University of Miami (Florida)
Preceptor: Dr. Raman Sood

**National Institute on Aging (NIA)**

353. Raheel Ahmad
*Single-cell Transcriptomic Analysis Reveals Aging Signatures of Human CD8+ T Cells*
Rutgers University - New Brunswick (New Jersey)
Preceptor: Dr. Nan-ping Weng

354. Samuel Ajamu
*Effects of Lisinopril on Arterial Stiffness, Hippocampal Blood Flow, N-Acetyl Aspartate, and Cortical Thickness in Hypertensive Dahl-S Rats*
The Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Olga Fedorova

355. Joseph Alisch
*Sex- and Age-related Differences in Cerebral Blood Flow Using Pseudocontinuous Arterial Spin Labeling Magnetic Resonance Imaging*
Providence College (Rhode Island)
Preceptors: Dr. Richard Spencer, Dr. Mustapha Bouhrara

356. Ashley Appleton
*Characterization of Human Fungiform Papillae with Age*
Howard University (District of Columbia)
Preceptors: Dr. Josephine Egan, Dr. Gayan Premaratne

357. Ryan Arlinghaus
Detecting the Parkinsonian Protein Phosphorylated alpha-synuclein Using Proximity Ligation Assay
Purdue University (Indiana)
Preceptors: Dr. Mark Cookson, Dr. Natalie Landeck

358. Saipriya Ayyar
NAD+ Intervention Preserves Hematopoietic Stem Cell Function in Telomerase-deficient Bone Marrow
Davidson College (North Carolina)
Preceptor: Dr. Isabel Beerman

359. Joseph Blommer
Neuronal-origin Plasma EVs Provide Biomarkers for Parkinson’s Disease
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Dimitrios Kapogiannis

360. Defne Cezayirli
Analysis of Cerebrovascular Function in Aged Hypertensive Dahl Salt-sensitive Rats
Northwestern University (Illinois)
Preceptors: Dr. Olga Fedorova, Dr. Kenneth W. Fishbein

361. Shane Chambers, John Lammons
Organisomal Metabolic Consequences of Persistent Cardiac Stress
James Madison University (Virginia), University of Alabama at Birmingham (Alabama)
Preceptor: Dr. Edward Lakatta

362. Kyle Cochran
Systematic Identification of Circular RNA in Alzheimer's Disease
College of William & Mary (Virginia)
Preceptor: Dr. Supriyo De

363. Abigail Corkum
Metabolomic Signatures of High Red Blood Cell Distribution Width (RDW): Results from the Baltimore Longitudinal Study of Aging
College of William and Mary (Virginia)
Preceptor: Dr. Qu (Teresa) Tian

364. Sneha Dodaballapur
Heart Rate Variability Analysis at Thermoneutral Temperature in Transgenic Adenylyl Cyclase 8 Mice
University of Michigan (Michigan)
Preceptor: Dr. Edward Lakatta

365. Riley Driscoll
Loss of Ectodysplasin-A (EDA) promotes expression of type-1 myofiber genes, enhancing skeletal muscle endurance
Brigham Young University (Utah)
Preceptors: Dr. Myriam Gorospe, Dr. Chang-Yi Cui

366. Rebecca Fang
*Role of Antibodies in Atherosclerosis*
Johns Hopkins University (Maryland)
Preceptors: Dr. Robert Maul, Dr. Patricia Gearhart

367. Rachel Fenner
*Effect of Anti-hypertensive Treatment Lisinopril on Central Arterial Stiffness and Cognitive Function in Adult Hypertensive Dahl Salt-sensitive Rats*
Wofford College (South Carolina)
Preceptor: Dr. Olga Fedorova

368. Francis Grenn
*The Parkinson's Disease GWAS Locus Browser*
Georgetown University (District of Columbia)
Preceptors: Dr. Cornelis Baluwendraat, Dr. Andrew Singleton

369. Anika Hamilton
*A Proteomic Approach to Novel Micropptide Discovery in Skeletal Muscle Identifies Putative Micropptides*
Howard University (District of Columbia)
Preceptors: Dr. Ravi Tharakan, Dr. Ceereena Ubaida-Mohien

370. Emilio Haraldsson
*The Effects of Riboflavin Deficiency in the Murine 5XFAD Model of AD*
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Dushani Palliyaguru, Dr. Rafael de Cabo

371. Sophia Harris
*A Novel Method for Characterizing Circular RNA circPCNX Using BaseScope RNA FISH*
College of William & Mary (Virginia)
Preceptors: Dr. Fred Inding, Dr. Myriam Gorospe

372. Laila Hasnain
*Clock Genes and the Circadian Rhythm of Heart Rate and Heart Rate Variability in Transgenic Adenylyl Cyclase Type 8 Mice*
Emory University (Georgia)
Preceptor: Dr. Edward Lakatta

373. Yoo Jin Jung
*Activity of Novel Anti-inflammatory Agent 3,6’-dithiopomalidomide in Female 5XFAD mice*
University of Notre Dame (Indiana)
Preceptors: Dr. Nigel Greig, Dr. David Tweedie

374. Richard Kim
*Age-related Difference in g-Ratio of Subcortical White Matter Structures in the Human Brain Assessed Using Magnetic Resonance Imaging*
Johns Hopkins University (Maryland)
Preceptors: Dr. Mustapha Bouhrara, Dr. Richard Spencer

375. Linda Krasniewski
*Studying Macrophage Characterization in Murine Skeletal Muscle*
Johns Hopkins University (Maryland)
Preceptors: Dr. Myriam Gorospe, Dr. Chang-Yi Cui

376. Somin Kwon
*Inhibition of p38 Kinase Activity with SKF86002 Protects against p38gamma-mediated Neurodegeneration and Behavioral Deficits in a Mouse Model of Lewy Body Disease*
Johns Hopkins University (Maryland)
Preceptor: Dr. Eliezer Masliah

377. Kristina Landino
*Plasma Proteomic Signature of Frailty*
George Washington University (District of Columbia)
Preceptor: Dr. Toshiko Tanaka

378. Stephanie Lazo
*Mid-life Mortality Is Associated with Extracellular Vesicle Inflammatory Proteins*
Florida Atlantic University (Florida)
Preceptors: Dr. Nicole Noren Hooten, Dr. Michele Evans

379. Sophie Li
*Investigating the Age-associated Changes in DNA Methylation and Gene Expression in Human Killer Cells*
Georgia Institute of Technology (Georgia)
Preceptor: Dr. Nan-ping Weng

380. Sydney Modrow
*Mouse Exploratory Behavior in the Open Field Test: Effects of Environmental Novelty*
University of Florida (Florida)
Preceptors: Dr. Ross McDevitt, Dr. Kathy Perdue

381. John Nam
*Trends in Metabolic Measures across Species*
Case Western Reserve University (Ohio)
Preceptors: Dr. Eric Shiroma, Dr. Dushani Palliyaguru

382. Ryan Palaganas
*Peripheral and Central Auditory Dysfunction in Models of Alzheimer's Dementia*
Rowan University (New Jersey)
Preceptors: Dr. Chandrakala Puligilla, Dr. Vilhelm Bohr

383. Isabella Perone
*Exploring the Role of RNA-binding Proteins in the Progression of Alzheimer's Disease*
Johns Hopkins University (Maryland)
Preceptors: Dr. Aiwu Cheng, Dr. Myriam Gorospe

384. Larry Reser
*Profiling Mitochondrial DNA Variants at Single-cell Resolution*
University of Florida (Florida)
Preceptor: Dr. Jun Ding

385. Jackson Roberts
*A Brain Proteomic Signature of Incipient Alzheimer’s Disease in Young APOE4 Carriers*
Washington and Lee University (Virginia)
Preceptors: Dr. Vijay Varma, Dr. Madhav Thambisetty

386. Alyssa Rodriguez
*Using Olfactory Memory as a Longitudinal Approach to Study Neuronal Circuits in Aging*
Rutgers University - New Brunswick (New Jersey)
Preceptors: Dr. Perla Moreno-Castilla, Dr. Peter Rapp

387. Stephanie Rodriguez
*Ginger and its Constituents as a Potential Novel Senolytic*
Hunter College (New York)
Preceptor: Dr. Ruin Moaddel

388. Faysal Shaikh
*Associations between tau and White Matter Lesion Burden in Cognitively-normal Older Adults*
George Mason University (Virginia)
Preceptor: Dr. Murat Bilgel

389. Jennifer Shearon
*The Effects of an ACE Inhibitor, Lisinopril, on Cardiovascular and Cognitive Function in Dahl-S Model of Hypertension and Aging*
University of Tennessee (Tennessee)
Preceptors: Dr. Olga Fedorova, Dr. Edward Lakatta

390. John Shin
*Associations between Amyloid Status, Brain Volume, and Cognitive Changes in Non-demented Older Individuals: A Retrospective Analysis*
Johns Hopkins University (Maryland)
Preceptors: Dr. Murat Bilgel, Dr. Susan Resnick

391. Sonali Singh
*The Effect of Transcription Factor TFII-I on Murine T-cells*
University of California, Riverside (California)
Preceptors: Dr. Amit Singh, Dr. Mary Kaila

392. Kevin Spehar
Investigating Plasmapheresis as a Technique to Restore Aged Hematopoietic Stem Cell Function
Washington University in St. Louis (Missouri)
393. Margaret Stelzner  
*Increased Occurrence of Spike-Wave-Discharges in Cognitively Impaired Aged Animals*  
Macalester College (Minnesota)  
Preceptor: Dr. Craig Myrum

394. Breanna Takacs  
*Dissecting Functional Motifs of the E mu Enhancer*  
University of Texas at Austin (Texas)  
Preceptors: Dr. Ranjan Sen, Dr. Fatima-Zohra Braikia

395. Lynde Wangler  
*Odor Recognition Memory Task Reflects Individual Differences in Hippocampal Circuit Engagement in Neurocognitive Aging*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Perla Moreno-Castilla

396. Julia Whitten  
*The Use of Lentiviral Expression to Restore the Functional Potential of Aged Hematopoietic Stem Cells*  
University of Rochester (New York)  
Preceptors: Dr. Isabel Beerman, Dr. Mayuri Tanaka

397. Sharon Wu  
*Extracellular Vesicles in Diabetes Mellitus Induce Alterations in Endothelial Cell Morphology and Migration*  
Carnegie Mellon University (Pennsylvania)  
Preceptors: Dr. Nicole Noren Hooten, Dr. Michele Evans

398. Eleni Zahariadis  
*Steroidal Inhibitors of the Sodium Potassium ATPase in a Mouse Model of Alzheimer's Disease*  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Olga Fedorova

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

399. Kate Aberman  
*Investigating Molecular Mediators in an Iron Overload Model of Ferroptosis*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Eduardo Amaral

400. Jessica Aduwo  
*Background Rates of Adverse Events in Malian Adults*  
Smith College (Massachusetts)  
Preceptor: Dr. Patrick Duffy
401. Nina Aiosa
18-FDG PET/CT Imaging Is a Biomarker for Inflammation in Low-lethality Mouse-adapted Ebola Virus Disease in Nonhuman Primates in the BSL-4
Grand Canyon University (Arizona)
Preceptor: Dr. Irwin Feuerstein

402. Mohammadali Alishahedani
Application of Scratch Assay on Non-cancerous Cell Lines
University of Florida (Florida)
Preceptor: Dr. Ian Myles

403. Alec Allee-Munoz
Development of an Extraction Method for AMA1-RON2 Complex to Be Formulated in Liposomal Formulations
George Washington University (District of Columbia)
Preceptors: Dr. Daming Zhu, Dr. Patrick Duffy

404. Cassandra Almasri
Investigating Mechanisms of Reactogenicity Induced by an HIV-1 Specific Broadly Neutralizing Antibody, 10E8VLS
University of Kentucky (Kentucky)
Preceptor: Dr. Amarendra Pegu

405. Larissa Ault
In vitro Affinity Maturation of Broadly Neutralizing HIV Antibody CAP256-VRC26.25 Using Yeast Display Technology
University of Hawaii at Manoa (Hawaii)
Preceptors: Dr. Nicole Doria-Rose, Dr. John Misasi

406. Phillip Baker
Tissue-Resident Macrophage Turnover in SIV-Infected Macaques
Clemson University (South Carolina)
Preceptor: Dr. Jason Brenchley

407. Alexis Berry
Myeloid Hypereosinophilic Syndrome: Retrospective Analysis of Clinical Features and Methods of Molecular Detection
Brown University (Rhode Island)
Preceptors: Dr. Paneez Khoury, Dr. Amy Klion

408. Rebecca Beuschel
High Dimensional Imaging of Human and mMurine Thymus across Development
George Mason University (Virginia)
Preceptors: Dr. Andrea Radtke, Dr. Ronald Germain

409. KEVIN BIRUNGI
Autologous and Heterologous neutralization by a Lineage of MPER-directed HIV Antibodies
Dickinson College (Pennsylvania)
Preceptor: Dr. Nicole Doria-Rose

410. Dara Bradley
Comparison of Atlas-based and Feature Pyramid Network Liver Segmentation Methods for Nonhuman Primates with Infectious Diseases
North Carolina Agricultural and Technical State University (North Carolina)
Preceptor: Dr. Irwin Feuerstein

411. Caleb Bridgwater
Proteomic Analysis of the Immune-challenged Macrophage Myddosome
University of Louisville (Kentucky)
Preceptors: Dr. Joseph Gillen, Dr. Aleksandra Nita-Lazar

412. Beniah Brumbaugh
Glycoprotein Density in Coronavirus Virions: A Comparison of SARS-CoV-2 and MERS by Electron Tomography
University of Vermont (Vermont)
Preceptor: Mrs. Elizabeth Fischer

413. Lauren Chang
A Prefusion RSV F Vaccine Elicits a Distinct Serological Profile from a Postfusion RSV F Vaccine in Humans
University of California, San Diego (California)
Preceptors: Dr. Tracy Ruckwardt, Dr. Barney Graham

414. Eva Chebishev
A Single Mutation in the Tick-borne Flavivirus NS3 Helicase Confers Resistance to TRIM5
Ithaca College (New York)
Preceptor: Dr. Sonja Best

415. Jessica Chen
Rescued Replication of Codon-pair Deoptimized Human Respiratory Syncytial Virus by Compensatory Non-Synonymous Mutations in the Viral Phosphoprotein
University of Hawaii at Manoa (Hawaii)
Preceptor: Dr. Cyril Le Nouen

416. Nathalie Chen
A Biochemical Characterization of the alpha4 beta7:CD4 Complex That Forms on the Surface of Primary CD4+ T Cells
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. James Arthos, Dr. Claudia Cicala

417. Yang Chen
Epidemiological Monitoring of Protozoan Parasites in Cattle and Definitive Hosts in British Columbia, Canada
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Michael Grigg

418. Saavan Chintalacheruvu
Differential 20S Proteasome Activity between Classical Dendritic Cell Subsets Is Associated with Distinct CD8 T Cell Reactivity Patterns to Respiratory Syncytial Virus M and M2 Epitopes
419. Claire Conarroe
*Early Interferon-Gamma Is Critical for Host Resistance to Toxoplasma gondii*
Georgetown University (District of Columbia)
Preceptor: Dr. Anthony DiPiazza

420. Angela Corrigan
*Fusion Peptide Priming Leads to HIV-1 Fusion Peptide Directed Neutralization Activity Predictable by Early B-cell Signature in Nonhuman Primates*
Washington and Lee University (Virginia)
Preceptor: Dr. Dragana Jankovic

421. Emily Daykin
*Determining Molecular Markers to Expedite Malaria Transmission Blocking Interventions*
University of Central Florida (Florida)
Preceptors: Dr. Cheng Cheng, Dr. John Mascola

422. Megan DeMouth - Cancelled
*Potent Anti-viral Activity of Trispecific Broadly Neutralizing HIV Antibodies*
Luther College (Iowa)
Preceptor: Dr. Amarendra Pegu

423. Elizabeth Emanuel
*Understanding the Role of Prostaglandin E2 Receptor 4 (EP4) in Controlling Macrophage Function during Experimental Murine Colitis*
Macalester College (Minnesota)
Preceptors: Dr. Erik Karmele, Dr. Brian Kelsall

424. Keenan Ernste
*Reduced FcgammaR Binding Results in a Minor Decrease in mAb-Mediated Protection from *P. falciparum* in a Mouse Model*
St. Olaf College (Minnesota)
Preceptor: Dr. Mangai Asokan

425. Nicole Fama
*Identifying T Cell Responses to the Gene-corrected gp91phox Protein in Chronic Granulomatous Disease Patients*
West Virginia University (West Virginia)
Preceptors: Dr. Uimook Choi, Dr. Elizabeth Kang

426. Elyssa Feuer
*The Role of HAPX in Cryptococcus neoformans and C. gattii*
Hamilton College (New York)
Preceptors: Dr. June Kwon-Chung, Dr. Yun Chang
427. Jeanine Gezelle
*What’s in This Channel? Functional Subunit Stoichiometry in a Malaria Nutrient-uptake Pore*
Ohio State University (Ohio)
Preceptor: Dr. Sanjay Desai

428. Grace Gleason
*Designing and Implementing a Quality of Life Study of a Rare Disease Population*
University of Delaware (Delaware)
Preceptors: Dr. Christa Zerbe, Mrs. Samantha Kreuzburg

429. Kyndal Goss
*Impact of V Pseudogene Rearrangements on AID Activity in B Cells*
University of Georgia (Georgia)
Preceptors: Dr. Chaim Schramm, Dr. Daniel Douek

430. Spencer Grant
*DeePlexing: A Deep Learning-based Approach to Expanding Tissue Multiplex Imaging*
Macalester College (Minnesota)
Preceptors: Dr. Nishant Thakur, Dr. Andrea Radtke

431. Kelly Hagadorn
*Autoreactive Antibodies Correlate with Protection from Febrile Malaria in Mali*
San Diego State University (California)
Preceptors: Dr. Peter Crompton, Dr. Christine Hopp

432. Paavali Hannikainen
*Immunophenotyping of Blood and Cerebrospinal Fluid Cells by Flow Cytometry in Multiple Sclerosis*
Emory University (Georgia)
Preceptor: Dr. Bibiana Bielekova

433. Christopher Heijjer
*Identification of a Functional CD38-LRRK2-TFEB Signaling Pathway in Immune Cells*
Clemson University (South Carolina)
Preceptor: Dr. John Heijjer

434. Myndi Holbrook - Cancelled
*Detecting Viruses in Jordan Bats*
Montana State University (Montana)
Preceptors: Dr. Vincent Munster, Dr. Neeltje van Doormalen

435. Katelin Honer
*Systematic Overview of the Translational Autoinflammatory Disease Section Natural History Protocol Cohort of Patients*
Rutgers University (New Jersey)
Preceptor: Dr. Adriana de Jesus
436. Alex Huber
*Functional Characterization of anti-RH5 Antibodies from a Malaria Endemic Area for Future Vaccine Development*
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Carole Long

437. Yaser Iftikhar
*Using Unsupervised Analysis to Characterize Innate T Cell Populations in Humans*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Thomas Liechti

438. Kathleen Jevtich
*The Contribution of Rare Copy Number Variants in FAS in Autoimmune Lymphoproliferative Syndrome Patients*
Fairfield University (Connecticut)
Preceptor: Mrs. Morgan Similuk

439. Dana Kahle
*Novel Auto-activating STING Mutation Unveils Limitations of Cryo-EM Structural Models*
George Mason University (Virginia)
Preceptors: Dr. Bin Lin, Dr. Raphaela Goldbach-Mansky

440. Megan Kalomiris
*Exploring the Role of Exosomes in Murine Norovirus Infection*
California State University, Fresno (California)
Preceptors: Dr. Kim Green, Dr. Eric Levenson

441. Morgan Keruly
*Factors Associated With HIV, HCV, and HSV-2 Sero-status Among Transgender Women*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Oliver Laeyendecker, Dr. Thomas Quinn

442. Ji Won Kim
*Identification of the Novel Human Serine Protease Sigma-Tryptase: A Fusion Gene Product at TPSB2*
University of California, Davis (California)
Preceptor: Dr. Jonathan Lyons

443. Moses Kitakule
*Systematic Analysis of Allergic Features in Autoinflammatory Diseases Reveals Unexpected Association of NLRP3-mediated Disease with Eosinophilia*
Yale University (Connecticut)
Preceptor: Dr. Daniella Schwartz

444. Caroline Kreitzer
*Development of a Lentiviral Gene Therapy Vector for CARD9 Deficiency*
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Elizabeth Kang
445. Charlotte Langner  
*Characterization of Microvesicles from Epithelial Cells of SIV-infected Rhesus Macaques and Their Potential Antibacterial Effects*  
University of Montana (Montana)  
Preceptor: Dr. Jason Brenchley

446. Ajinkya Limkar  
*Airway Hyperresponsiveness following Recovery From Acute Infection with Pneumonia Virus Of Mice*  
University of Minnesota (Minnesota)  
Preceptor: Dr. Helene Rosenberg

447. Qing (Taylor) Liu  
*CRISPR/AAV Correction of CD40L Mutation Restores Physiological Expression of Protein*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Suk See De Ravin, Dr. Julie Brault

448. Meng Lou  
*Dynamic Protein Heterogeneity in Naive Clonal T-cells Confers States of Responsiveness*  
University of Wisconsin - Madison (Wisconsin)  
Preceptors: Dr. Ronald Germain, Dr. Harikesh Wong

449. Elliot Lowe, Mara Short  
*A Novel Method of Converting Salivary Gland mRNA to Recombinant Proteins*  
Towson University (Maryland), Macalester College (Minnesota)  
Preceptor: Dr. Jesus Valenzuela

450. Jeremy Mahr  
*Phenotypic Characterizations of Patients with Gain of Function Polymorphisms in the Phosphoinositide 3-Kinase Signaling Pathway Suggest Its Possible Role in Mediating Eosinophilia*  
Rutgers University (New Jersey)  
Preceptors: Dr. Pamela Guerrerio, Dr. Ameya Gokhale

451. Ayelet Makovoz  
*The Utility of Trabecular Bone Scores in Assessing Fracture Risk in patients with Systemic Mastocytosis*  
Charter Oak State College (Connecticut)  
Preceptor: Dr. Hirsh Komarow

452. Dominique Mata  
*Urine Levels of Eosinophil-derived Neurotoxin: A Better Biomarker of Eosinophil Disease Activity*  
University of Texas at El Paso (Texas)  
Preceptors: Mrs. Michelle Makiya, Dr. Amy Klion

453. Morgan McCullough  
*The Role of Aspergillus fumigatus-secreted Alkaline Protease 1 (Alp1) in Airway Hyperresponsiveness*  
University of Minnesota (Minnesota)  
Preceptor: Dr. Kirk Druey
454. Taryn McFadden
Impact of Maternal IL-6 Exposure on Offspring Immune Response to Salmonella typhimurium
Guilford College (North Carolina)
Preceptors: Dr. Ai Ing Lim, Dr. Yasmine Belkaid

455. Maria Merolle
Polymer-linked Sting Agonists as a Potent in situ Vaccine for Cancer Immunotherapy in Mice
University of Chicago (Illinois)
Preceptors: Dr. Andrew Ishizuka, Dr. Robert Seder

456. Stephanie Mills
Effect of Aedes triseriatus Salivary Gland Extract on La Crosse Virus Infection in Mice
Colorado State University (Colorado)
Preceptors: Dr. Karin Peterson, Mr. Tyson Woods

457. Jacob Mitchell
Interferon Response Gene Expression Differs in Whole Blood, Peripheral Blood Mononuclear Cells, Monocytes, T Cells, and B Cells in Patients with the Autoinflammatory Interferonopathies, SAVI and CANDLE
Towson University (Maryland)
Preceptors: Dr. Adriana Almeida de Jesus, Dr. Raphaela Goldbach-Mansky

458. Damee Moon
TCR Repertoire Analysis of Zika Virus Vaccine Responses Reveals Cross-reactivity with Other Flaviviruses
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Daniel Douek, Dr. Noemia Santana Lima

459. Lyra Morina
Lessons from Humanized Mice: Characterizing the Activation of Human Regulatory and Effector T Cells
University of Maryland, College Park (Maryland)
Preceptors: Dr. Maja Buszko, Dr. Ethan Shevach

460. Steven Nadakal
Dynamics of the Immunoregulatory IL-27 and TIGIT Axis during a Malaria Transmission Season
London School of Hygiene and Tropical Medicine (Non-U.S.)
Preceptors: Dr. Irfan Zaidi, Dr. Patrick Duffy

461. Grace Okpali
Outcomes of Facial Palsy in Early Lyme Neuroborreliosis
University of Maryland, College Park (Maryland)
Preceptor: Dr. Adriana Marques

462. Meha Patel
Understanding the Metabolic Profile of B Cell Subsets
University of Michigan (Michigan)
Preceptor: Dr. Munir Akkaya
463. Jessica Pederson
*Immunogenicity of a Replication-competent Ad4-HIV Vaccine Carrying Stabilized/non-stabilized Clade C HIV Envelope in Combination with Soluble Trimer Boosts*
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Kenta Matsuda

464. Lizzette Perez-Perez
*The Development of a Minigenome System for Nipah Virus*
Smith College (Massachusetts)
Preceptors: Dr. Emmie de Wit, Brandi Williamson

465. Georgios Petrellis
*Developing a Marker of Vector Exposure to Phlebotomus argentipes, the Sand Fly Vector of Visceral Leishmaniasis in the Indian Subcontinent, Provides a Much-needed Tool for Post-elimination Surveillance*
University of Antwerp (Non-U.S.)
Preceptors: Dr. Shaden Kamhawi, Dr. Jesus Valenzuela

466. Jake Plagenz - Cancelled
*Discrimination of Parkinson's Disease and Lewy Body Dementia via Detection of Tau Aggregates*
Carroll College (Montana)
Preceptor: Dr. Byron Caughey

467. Jacob Raiten
*T Cell Dynamics during Chemoprophylaxis Vaccinations Using Either Chloroquine or Pyrimethamine That Confers Sterile Immunity against Plasmodium falciparum Infection*
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Irfan Zaidi, Dr. Patrick Duffy

468. Andre Rastegar
*Post-transcriptional Regulation of Human Endogenous Retroviruses by RNA-Binding Motif Protein 4, RBM4*
Johns Hopkins University (Maryland)
Preceptors: Dr. Stefan Muljo, Dr. Amir Foroushani

469. Nadia Raytselis
*Plasmodium falciparum Pfs47: A Novel Marker for Malaria Parasite Geographic Origin and Risk of Transmission*
University of Massachusetts Amherst (Massachusetts)
Preceptors: Dr. Alvaro Molina-Cruz, Dr. Carolina Barillas-Mury

470. Emily Ridge - Cancelled
*No title submitted*
University of Michigan (Michigan)
Preceptor: Dr. John Kehrl

471. Denise Rogers
*Evaluation of an m-RNA Based HIV-1 Vaccine in Rhesus Macaques*
Southern Illinois University (Illinois)
Preceptor: Dr. Paolo Lusso

472. Christina Rohmer
*Role of the Microbiome in the Development of Eosinophilic Esophagitis in Loeys-Dietz Syndrome*
Texas Woman's University (Texas)
Preceptor: Dr. Pamela Guerrerio

473. Emma Rowley
*Investigating the Effect of Hypoxia on Plasmodium vivax in vitro Culture*
Wake Forest University (North Carolina)
Preceptors: Dr. Karthigayan Gunalan, Dr. Louis Miller

474. Edward Sarfo
*Immunization with Diverse HIV-1 Envelope Trimers Elicits both CD4 Binding Site and Fusion Peptide Directed Neutralizing Antibodies in Non-human Primates*
City University of New York, City College (New York)
Preceptors: Dr. Cheng Cheng, Dr. John Mascola

475. Matthew Scandura
*Predictions of the Association Constants for the Proteins in the Toll-like Receptor Signaling Pathway*
University of Arizona (Arizona)
Preceptors: Dr. Nathan Manes, Dr. Aleksandra Nita-Lazar

476. Samantha Shafer
*Genomic-wide CRISPR Screen to Identify AMBRA1 as a Novel Regulator of FAS-mediated Cell Death*
Oklahoma State University (Oklahoma)
Preceptor: Dr. Yikun Yao

477. Juncheng Shen
*Novel Targeting of Cellular Inflammation Components Suppresses HIV Release in Experimental Infections*
Johns Hopkins University (Maryland)
Preceptors: Dr. Peter Sun, Dr. Jason Segura

478. Kyle Shifflett
*Construction of a Tetracistronic Minigenome System for Marburg Virus Angola*
University of Montana (Montana)
Preceptors: Dr. Andrea Marzi, Dr. Wakako Furuyama

479. Tulley Shofner
*Stabilized and Non-stabilized HIV-1 Env Constructs Expressed in a Replicating Ad4 Vector Induce Autologous Tier 2 Neutralization in Rabbits*
Dickinson College (Pennsylvania)
Preceptor: Dr. Andy Patamawenu

480. Mary Sievers
*Activating Ability of Bacillus anthracis Virulence Regulator AtxA Correlates with its DNA Binding Potential*
The Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Andrei Pomerantsev, Dr. Stephen Leppla

481. Margaret Smith
*Seeking Genes and Their Expression Profiles That Control Male/Female Assignment in Malaria*
Appalachian State University (North Carolina)
Preceptor: Dr. Carole Long

482. Rachel Smith
*Assessing Alpha Globin and Endothelial Nitric Oxide Synthase Binding Interactions Using Time-resolved Fluorescence Techniques*
College of William & Mary (Virginia)
Preceptor: Dr. Hans Ackerman

483. Cody Stein
*Engineering pH-dependent HIV Neutralizing Monoclonal Antibodies for Treatment*
University of Colorado Colorado Springs (Colorado)
Preceptors: Dr. Mangai Asokan, Dr. John Mascola

484. William Stone
*The Importance of Measuring Neutralizing Antibody Response to Flavivirus Infection*
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Matthias Lingemann, Dr. Steve Whitehead

485. Christopher Stringham
*Treatment of Ebola Virus Disease in Non-human Primates with Bispecific Immunotherapy*
University of Utah (Utah)
Preceptor: Dr. Nancy Sullivan

486. Kriza Sy
*Using TEV Protease to Examine Anthrax Toxin-mediated Nuclear Delivery*
University of Chicago (Illinois)
Preceptor: Dr. Stephen Leppla

487. Sophia Vrba
*ILC1 and TRM Occupy the Same Mucosal Barrier Niche and Provide Non-overlapping Protection against Infection*
University of Minnesota (Minnesota)
Preceptor: Dr. Heather Hickman

488. Samuel Wachamo
*Mystery of MRZ Reaction in Multiple Sclerosis*
University of Virginia (Virginia)
Preceptors: Dr. Ruturaj Masvekar, Dr. Bibiana Bielekova

489. Jenna Wade
*Development of Large Vessel Vasculitis Including Aortitis in a Patient with Deficiency of the IL-1 Receptor Antagonist (DIRA) Points to Converging Roles of IL-1 and TNF in Vascular Pathogenesis, Recapitulating Findings from a Murine Model*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Rapaela Goldbach-Mansky, Dr. Adriana De Jesus

490. Yiran Wang
*Structural and Computational Analysis of Antibody Repertoire against HIV-1 Fusion Peptide Reveals Modular Recognition as the Basis for Antibody-Antigen Interactions*
Cornell University (New York)
Preceptors: Dr. Gwo-Yu Chuang, Dr. Peter Kwong

491. Daniel Williams
*Tbet Provides Survival Advantage to Tregs during Systemic IFN-γ Driven Immune Responses*
Bowdoin College (Maine)
Preceptor: Dr. Billur Akkaya

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

493. Hastings Williamson
*Spontaneous Gastrointestinal Perforations in LOF STAT3 Patients and the Role of Impaired IL-6 Signaling*
Longwood University (Virginia)
Preceptor: Dr. Alexandra Freeman

494. Danielle Xie
*HIV-1 Trimer Interface Antibodies 35O22 and VRC44 Are Members of a Reproducible Cass*
Bryn Mawr College (Pennsylvania)
Preceptors: Dr. Evan Cale, Dr. John Mascola

495. Christina Yap
*Structure-based Design of Stabilized Neuraminidase as a Universal Influenza Vaccine*
University of California, Davis (California)
Preceptors: Dr. Julia Lederhofer, Dr. Masaru Kanekiyo

496. Teja Yeramosu
*Coronary Artery Endothelial Function in Young Adults with Perinatally-transmitted or Transfusion-acquired HIV*
Johns Hopkins University (Maryland)
Preceptor: Dr. Colleen Hadigan

497. Yunting (Mary) Yu
*Negative Report Comprehension: Patient Understanding of Inconclusive Exome-sequencing Results*
Johns Hopkins University (Maryland)
Preceptors: Mrs. Morgan Similuk, Ms. Leila Jamal

498. EJun Yun
*A Robust Kinetic Assay Reveals Functional Polymorphisms in Human Erythrocyte Ca++ Pump Activity*
Indiana University - Bloomington (Indiana)
Preceptor: Dr. Sanjay Desai
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

499. Sarah Aitken
*Effects of Pan Fibroblast Growth Factor Receptor Inhibitor on Dentoalveolar and Craniofacial Development*
Clemson University (South Carolina)
Preceptors: Dr. Emily Chu, Dr. Martha Somerman

500. Chloe Borden
*Interaction of Mimivirus Antigens with HLA Drives Autoimmunity in Scleroderma through Molecular Mimicry*
Wake Forest University (North Carolina)
Preceptor: Dr. Pravitt Gourh

501. Loren Collado
*The Paranuclear Dot Sequesters FADD to Inhibit Extrinsic Apoptosis in Merkel Cell Carcinoma*
Union College (New York)
Preceptor: Dr. Isaac Brownell

502. Himanshu Dashora
*Longitudinal Analysis of Large Vessel Vasculitis*
Johns Hopkins University (Maryland)
Preceptor: Dr. Peter Grayson

503. Jeremy Fischer
*Osteogenesis and Oxidative Stress in Spondyloarthritis*
Yale University (Connecticut)
Preceptor: Dr. Fatemeh Navid

504. Julia Hartman
*Ancestry-specific Variants in Regulatory Elements Increase Scleroderma Risk in African-Americans*
University of Virginia (Virginia)
Preceptor: Dr. Pravitt Gourh

505. Amelia Hurley-Novatny
*Fibroblasts from Melorheostosis Patients Promote Angiogenesis in Healthy Endothelial Cells through Secreted Factors*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Fatemeh Navid, Dr. Timothy Bhattacharyya

506. Alexis Jacob
*RNA Binding Proteins NANOS3 and DND1 Jointly Regulate Transcript Stability*
Georgia Institute of Technology (Georgia)
Preceptor: Dr. Markus Hafner

507. Mama Kaba
*Histone Methyltransferase Ezh1 Impacts Muscle Regeneration by Regulating Key Pathways in Maintaining Muscle Stem Cell Quiescence*
Smith College (Massachusetts)
Preceptors: Dr. Vittorio Sartorelli, Dr. Aster Juan

508. Bernice Kear
*Alkaline phosphatase: An Attractive Candidate for Regeneration of Periodontal Tissue*
University of Mary Washington (Virginia)
Preceptors: Dr. Martha Somerman, Dr. Atsuhiro Nagasaki

509. Anna Lin
*Disulfiram, Copper, and Etoposide Demonstrate Synergistic Killing of Merkel Cell Carcinoma*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Natasha Hill, Dr. Isaac Brownell

510. Christopher Lopez
*The Immediate Early Gene Egr1 Maintains Stemness of Muscle Stem Cells by Regulating ECM and Inflammatory Response through TGF Beta Signaling Pathway.*
University of California, Davis (California)
Preceptors: Dr. Vittorio Sartorelli, Dr. Aster Juan

511. Spencer Mehdizadeh
*Does Dlx3 Function in Keratinocytes to Protect Against Cutaneous Lupus?*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Maria Morasso

512. Jessica Portillo
*Investigating Bacterial Colonization in Low Biomass Samples*
George Mason University (Virginia)
Preceptors: Dr. Jay-Hyun Jo, Dr. Heidi Kong

513. Sadie Signorella
*A 17bp CTCF Site of the Interferon Gamma Locus Facilitates Initial Th1 Differentiation*
Dickinson College (Pennsylvania)
Preceptors: Dr. Han-Yu Shih, Dr. John O'Shea

514. Kaushik Venkatesh
*Gfi1 Controls a Dependence Receptor Pathway Critical for the Postnatal Maintenance of Sensory Merkel Cells*
George Washington University (District of Columbia)
Preceptors: Dr. Isaac Brownell, Dr. Lingling Miao

515. Janet Wang
*Whole Exome Sequencing Identifies Functional Variants Increasing Scleroderma Risk in African-Americans*
Case Western Reserve University (Ohio)
Preceptor: Dr. Pravitt Gourh

516. Kristina Wells
*Clinical Value of Anti-collagen II Testing in Relapsing Polychondritis*
Cornell University (New York)
Preceptors: Dr. Peter Grayson, Dr. Marcela Ferrada
517. Daniel Del Toro-Pedrosa, Gabi Schwartz  
*Generating a Cell Position and Neurodevelopment Atlas in the Post-Twitching Caenorhabditis Elegans Embryo*  
University of Puerto Rico, Río Piedras Campus (Puerto Rico), The Pennsylvania State University (Pennsylvania)  
Preceptors: Dr. Hari Shroff, Dr. Ryan Christensen

518. Ereny Gerges  
*Cytotoxicity Analysis of 3D Grown Tumor Cultures under Controlled Oxygen Delivery*  
University of North Carolina at Pembroke (North Carolina)  
Preceptors: Dr. Nicole Morgan, Dr. Michael Gottesman

519. David Grosh  
*Novel Microfluidic Device Setup to Combine the Controlled Delivery of Oxygen with Real-time Measurement of Intracellular Oxygen Concentration and Metabolism in vitro*  
Case Western Reserve University (Ohio)  
Preceptors: Mrs. Nicole Morgan, Mr. Michael Gottesman

520. Jamie Neal  
*Characterizing the Changes in Mechanical Properties of the Actin Cortex in Highly Metastatic Cancers: It’s Intense!*  
Arizona State University (Arizona)  
Preceptor: Dr. Alexander Cartagena-Rivera

521. Samuel To  
*Using 3D Printing for Enhanced Sample Handling in Analytical Ultracentrifugation*  
Pomona College (California)  
Preceptors: Dr. Peter Schuck, Dr. Huaying Zhao

522. Stephen Xu  
*Tracking Caenorhabditis elegans Behavior in Late-stage Embryogenesis*  
Duke University (North Carolina)  
Preceptors: Dr. Ryan Christensen, Dr. Hari Shroff

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

523. Kelly Abshire  
*Effects of Exogenous Ghrelin Administration and Ghrelin Receptor Blockade, in Combination with Alcohol, on Peripheral Inflammatory Markers in Heavy-drinking Individuals: Results from Two Human Laboratory Studies*  
University of Texas at Austin (Texas)  
Preceptor: Dr. Lorenzo Leggio

524. Savana Agyemang  
*Obitofrontal Cortex Activity Is Necessary for Encoding Valueless Sensory Associations*  
University of Maryland, College Park (Maryland)
Preceptor: Mr. Evan Hart

525. Megan Anderson
*Robust Fight-or-Flight Responses Induced by Anterior Hypothalamic Activation*
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Brenton Laing, Dr. Yeka Aponte

526. Alexandranda Angebrandt
*Addiction Phenotype among Health Care Professionals under Physician Health Program Mandatory Monitoring*
University of California, San Diego (California)
Preceptors: Dr. Osama Abulseoud, Dr. Elliot Stein

527. Sarah Applebey
*Role of Projections between Piriform Cortex and Orbitofrontal Cortex in Relapse to Fentanyl Seeking after Palatable Food Choice-induced Voluntary Abstinence*
Lake Forest College (Illinois)
Preceptors: Dr. David Reiner, Dr. Yavin Shaham

528. Helena Baffoe-Bonnie
*A Cre-dependent Gluc-SERCaMP Reporter Mouse for Monitoring Dysregulation of Endoplasmic Reticulum Calcium Homeostasis and Proteostasis*
Emory University (Georgia)
Preceptor: Dr. Brandon Harvey

529. Jillian Battista
*Investigating the Relationship between Childhood Trauma and Inflammatory Biomarkers in Alcohol Use Disorder Patients*
The Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Lorenzo Leggio, Dr. Daria Piacentino

530. Alexandria Bernal
*Morphine and Methadone's Differential Effect on Acetylcholine Release in the Lateral Striatum Is Suggestive of a Heteromeric Complex between Mu-Opioid and Galanin 1 Receptors*
University of California, Santa Barbara (California)
Preceptors: Dr. César Quiroz-Molina, Dr. Sergi Ferré

531. Megan Brenner
*Neurobiological Substrates Underlying Discriminative Stimulus-Controlled Cocaine Craving*
Rowan University (New Jersey)
Preceptors: Dr. Rajtarun Madangopal, Dr. Bruce Hope

532. Brittney Browning
*The Relationship between Leptin and Anxiety: Preliminary Genetic, Endocrine, and Neuroimaging Findings*
Liberty University (Virginia)
Preceptors: Dr. Lorenzo Leggio, Dr. Mehdi Farokhnia

533. Erika Carlson
*Characterization of Opioid-induced Respiratory Depression in Female and Male Rats*
534. Meghan Carlton
*Influence of Synaptic Zinc on Cocaine-induced Conditioned Place Preference and [18F]Fallypride and [18F]FDG Uptake as Measured by Positron Emission Tomography*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Juan Gomez, Dr. Mike Michaelides

535. Ian Chambers
*Glutamate and GABA Co-release in the Lateral Habenula*
Rhode College (Tennessee)
Preceptor: Dr. Jorge Miranda-Barrientos

536. Vicky Chuong
*Semaglutide Decreases Ethanol Intake in a Mouse Model of Binge-drinking*
University of Central Florida (Florida)
Preceptors: Dr. Lorenzo Leggio, Dr. Leandro Vendruscolo

537. Sophie Elvig
*A History of a Ketogenic Diet Prevents Escalation of Alcohol Drinking during Dependence*
University of Colorado Boulder (Colorado)
Preceptor: Dr. Leandro Vendruscolo

538. McKenzie Himelein-Wachowiak
*Do Addiction and Non-suicidal Self-injury Share a Common Language? A Natural Language Processing Study Using Reddit*
Swarthmore College (Pennsylvania)
Preceptors: Dr. Brenda Curtis, Mr. Salvatore Giorgi

539. Lacey Kennedy
*Dynamic KDEL Receptor Expression Regulates Protein Homeostasis*
University of Alabama (Alabama)
Preceptors: Dr. Brandon Harvey, Dr. Emily Wires

540. Amy Kwarteng
*The Impact of Familial Substance Use History on Reward Processing in the Adolescent Brain*
Yale University (Connecticut)
Preceptors: Dr. Brenda Curtis, Dr. Muhammad Rahman

541. Anysia Lee
*Drug Users and Their Neighborhoods: A Study of Perceived and Objective Individual- and Neighborhood-level Characteristics*
Johns Hopkins University (Maryland)
Preceptor: Dr. David Epstein

542. Pallavi Mannava
*Thyroid Hormones, Impulsivity, and Alcohol Use Disorder*
Ohio State University (Ohio)
Preceptor: Dr. Lorenzo Leggio

543. Madeline Merriman
*Characterization of Fos-mRFP Rats to Map Neuronal Ensembles Underlying Reward-related Learned Behaviors*
Westmont College (California)
Preceptors: Dr. Katherine Savell, Dr. Bruce Hope

544. Katie Nolan
*Characterization of MANF Antibodies Specific for the N and C Terminus*
Stockton University (New Jersey)
Preceptors: Dr. Brandon Harvey, Dr. Kathleen Trychta

545. Jeffrey Rogers
*Risky Business: Examining the Relationship between Reported Drug Use and Allostatic Load in a 2009 – 2016 NHANES Cohort*
University of Arkansas (Arkansas)
Preceptor: Dr. David Epstein

546. Christie Sanders
*A Role for the Nucleus Accumbens Core in Encoding Fear-conditioned Stimuli*
Vanderbilt University (Tennessee)
Preceptor: Dr. Chase Francis

547. Destiny Schriefer
*Obtaining and Processing Input Data to Build a Neighborhood-disorder Scale for Detection and Prediction of Health Outcomes*
University of Maryland, College Park (Maryland)
Preceptor: Dr. David Epstein

548. Navan Shah
*The Validity of the Brief Scale for Anxiety and the State-trait Anxiety Inventory in an Inpatient Sample with Alcohol Use Disorder*
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Lorenzo Leggio

549. Aniruddha Shekara
*Role of Ventral Subiculum in Incubation of Oxycodone Craving after Electric Barrier-induced Voluntary Abstinence*
Vanderbilt University (Tennessee)
Preceptors: Dr. Ida Fredriksson, Dr. Yavin Shaham

550. Abigail Smith
*Biomarkers and Questionnaires Used in the Assessment of Alcohol Use or Exposure in Pregnant Women and Neonates*
University of Colorado Denver (Colorado)
551. Chase Smitterberg  
*How Individuals with Substance Use Disorders Experience Stigma Online: An Analysis of Social Media Communities*  
Michigan State University (Michigan)  
Preceptors: Dr. Brenda Curtis, - Sal Giorgi

552. Shruthi Thomas, David Perekopkiy  
*Cocaine Added to Heroin Fails to Affect Heroin-induced Brain Hypoxia*  
University at Buffalo (New York), California State University, Sacramento (California)  
Preceptor: Dr. Eugene Kiyatkin

553. Phuong Tran  
*The Role of the Head Group in Determining the Pharmacology and Potentially the Toxicity of Synthetic Cannabinoids*  
University of California, Los Angeles (California)  
Preceptor: Dr. Lei Shi

554. Antonia Vrana, Miranda Scarlata  
*Nicotine Vapor Exposure Produces Dependence in Adolescent and Adult Rats*  
University of Michigan (Michigan), Vassar (New York)  
Preceptor: Dr. Robin Keeley

National Institute of Environmental Health Sciences (NIEHS)

555. Nicholas Alagna  
*Nucleotide Pool Regulation: Consequences for Mutability*  
University of Montevallo (Alabama)  
Preceptor: Dr. Roel Schaaper

556. Leonardo Albertini Sanchez  
*Single-cell Approaches to Evaluating Smoking-associated Phenotypic Variation Using an in vitro Hematopoietic Stem Cell Differentiation Model*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Douglas Bell

557. Celyn Bregio  
*Single-cell Sorting by Gene States Identifies Factors That Modulate Variability of the Estrogen Response*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Joseph Rodriguez

558. Briana Cervantes  
*Development of a Computed Tomography and Calcium Scoring Technique for Assessing Calcinosis Distribution, Pattern, and Burden in Dermatomyositis*  
Florida International University (Florida)
559. Sydney Fry
*Development of 3D Printed Capacitive Touch Objects for Use in Object Recognition Assays*
American University (District of Columbia)
Preceptor: Dr. Jesse Cushman

560. Camille Giacobone
*The Characterization of Genome-wide Somatic Mutation Signatures in Healthy Human Cells*
Kalamazoo College (Michigan)
Preceptors: Dr. Dmitry Gordenin, Dr. Natalie Saini

561. Jacob Gordon
*Nol9 Is a Spatial Regulator for the Essential Human ITS2 pre-rRNA Endonuclease-Kinase Complex*
Appalachian State University (North Carolina)
Preceptor: Dr. Robin Stanley

562. Kiana Gunn
*Determining the Role of BAF60a, a Core BAF Subunit, in the Glucocorticoid Receptor Response of A549 Cells*
University of Richmond (Virginia)
Preceptors: Dr. Laura Bisogno, Dr. Trevor Archer

563. Nicholas Kobzar
*Differentiating Corticostriatal Projections to Direct and Indirect Pathway Spiny Projection Neurons*
University of Central Florida (Florida)
Preceptor: Dr. Guohong Cui

564. Sanya Mehta
*TLR5 Activation Protects against Pulmonary Fibrosis by Ameliorating Dysbiosis*
North Carolina State University (North Carolina)
Preceptors: Dr. Stavros Garantziotis, Dr. Yosuke Sakamachi

565. Samir Nacer
*Loss of Alpha 7 Nicotinic Acetylcholine Receptors in Gabaergic Interneurons Causes Sex-dependent Impairments in Postnatal Neurogenesis and Cognitive and Social Behavior*
Nova Southeastern University (Florida)
Preceptor: Dr. Jesse Cushman

566. Ryan Oldridge
*Phenotyping of dGTPase Mutants*
Longwood University (Virginia)
Preceptor: Dr. Roel Schaaper

567. Madison Ortega
*AMH Is Higher Across the Menstrual Cycle in Early Postmenarchal Girls than in Ovulatory Women*
University of Missouri (Missouri)
Preceptor: Dr. Natalie Shaw

568. Tejas Patel
*Structural and Biochemical Analysis of APE2 Informs the Development of a Synthetic Peptide Inhibitor*
Illinois State University (Illinois)
Preceptors: Dr. Robert Williams, Dr. Jessica Wojtaszek

569. Nyree Riley
*Traumatic Childhood Experiences and Type 2 Diabetes Mellitus Risk among White, Black, and Hispanic/Latina US Women*
University of Georgia (Georgia)
Preceptors: Dr. Chandra Jackson, Dr. Symielle Gaston

570. Zachary Stewart
*Structural Characterization of a tRNA Processing Complex*
University of Richmond (Virginia)
Preceptors: Dr. Robin Stanley, Dr. Cassandra Hayne

571. Nancy Urbano
*In vitro High-throughput Screening of Chemical Induced Oxidative Stress Using 2D- and 3D-HepaRG and 3D-Primary Human Hepatocyte Models*
St. Mary's University (Texas)
Preceptor: Dr. William Gwinn

**National Institute of Nursing Research (NINR)**

572. Jedidiah Acott
*Brain-derived Exosomes as Biomarkers in TBI*
Portland State University (Oregon)
Preceptor: Dr. Vivian Guedes

573. Sarah Alshawi
*Blocking Inflammation Reduces the Effect of Pelvic Irradiation on Fatigue-like Behavior and Cytokine Expression*
Georgetown University (District of Columbia)
Preceptors: Dr. Leorey Saligan, Dr. Brian Wolff

574. Brianna Brooks
*Effects of High-fat Diet on Gene Expression in Mouse Hypothalamus and Striatum*
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Rosario Jaime-Lara, Dr. Paule Joseph

575. Saloni Kumar
*Creation and Use of Common Data Elements for Nursing Research*
Johns Hopkins University (Maryland)
Preceptors: Mr. Michael Steele, Dr. Leorey Saligan
576. Jacqueline Leete  
Exosomes: A Promising Fluid Biomarker for Traumatic Brain Injury  
Wesleyan University (Connecticut)  
Preceptors: Dr. Jessica Gill, Dr. Vivian Guedes

577. India Little  
Tracking Human Body Movement in a Virtual Space: A Prospective Study  
Davidson College (North Carolina)  
Preceptors: Dr. Patti Brennan, Dr. Jim Holdnack

578. Rodrigo Ortiz Figueroa  
A Pilot Study of Metabolomic Pathways in Subcutaneous Adipose Tissue of Bariatric Surgical Patients with Type 2 Diabetes  
University of Puerto Rico at Ponce (Puerto Rico)  
Preceptors: Dr. Carlotta Vizioli, Dr. Paule Joseph

579. Jeniece Regan  
Measuring the Motor Aspect of Cancer-related Fatigue Using a Handheld Dynamometer  
Huntington University (Indiana)  
Preceptors: Dr. Rebekah Feng, Dr. Leorey Saligan

Thursday, April 30, 2020
National Institute of Child Health and Human Development (NICHD)

580. Elizabeth Altman  
Investigating the Role of MC3R in the Liver  
Union College (New York)  
Preceptors: Dr. Jack Yanovski, Dr. Tusharkumar Patel

581. Victoria Andriessen  
Mosaicism for a PRKAR1-Alpha Defect Causing Primary Pigmented Nodular Adrenocortical Disease  
University of Michigan (Michigan)  
Preceptors: Dr. Constantine Stratakis, Dr. Crystal Kamilaris

582. Kaitlin Ballenger  
Resting Energy Expenditure (REE) and Adiposity in Osteogenesis Imperfecta (OI)  
Georgetown University (District of Columbia)  
Preceptor: Dr. Jack Yanovski

583. Keith Barnes  
Use of Novel Epigenetics Reporter Line to Study Liver Development  
University of Delaware (Delaware)  
Preceptor: Dr. Aniket Gore

584. Grace Betts  
Associations of the Internal and External School Food Environment with High Schoolers’ Diet and Weight Outcomes
University of Michigan (Michigan)
Preceptors: Dr. Leah Lipsky, Dr. Tonja Nansel

585. Emily Blick
*Measurements of Blood Volume and Oxygenation Using Multispectral Imaging*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Kosar Khaksari, Dr. Amir Gandjbakhche

586. Kimberly Bress
*Neural Correlates of Action Execution and Action Imagination: An fNIRS Study*
University of Tennessee (Tennessee)
Preceptors: Dr. Helga Miguel, Dr. Emma Condy

587. Jancarlos Camacho
*Prevalence Of Renal Cysts in Patients with Primary Aldosteronism*
Stockton University (New Jersey)
Preceptor: Dr. Fady Hannah-Shmouni

588. Fountane Chan
*Regulation of Engrailed and Invected Expression in the Drosophila Central Nervous System*
University of Oregon (Oregon)
Preceptors: Dr. Judith Kassis, Dr. Yuzhong Cheng

589. Catherine Chang
*Characterization of Small Objects in the *Loligo paeleii* Squid Optic Lobe*
University of Washington-Seattle (Washington)
Preceptor: Dr. Joshua Zimmerberg

590. Nickolas Chu
*Developing New Zebrafish Models for Autism Spectrum Disorder Genes*
University of Washington (Washington)
Preceptor: Dr. Harold Burgess

591. Jacob Clarin
*A Behavioral Phenotypic Screen of CRISPR/Cas9 Knockout Autism Candidate Genes in Zebrafish*
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Harold Burgess

592. Lauren Clubb
*Lysine Specific Histone Demethylase 1A Plays a Critical Role in T Cell Development*
Claremont McKenna College (California)
Preceptor: Dr. Paul Love

593. Abigail Daniels
*Role of an Oxidative Stress-induced Small, Regulatory RNA in Sponging an Anaerobic Stress-induced Small RNA in E. coli*
Brandeis University (Massachusetts)
Preceptors: Dr. Lauren Walling, Dr. Gisela Storz

594. Ariel Eraso
A Tale of a Tail: fgf Signals Fine-tuned by ctcf Sites throughout Mesodermal Development
Franklin & Marshall College (Pennsylvania)
Preceptor: Dr. Pedro Rocha

595. Sara Felsen
Characterization of the Pineal Transcriptome in Developing Rats
Brandeis University (Massachusetts)
Preceptors: Mrs. Lynne Holtzclaw, Dr. Vincent Schram

596. Frances Anne Fernando
Qualitative Acceptability Comparison of 28-day Orally Administered Dimethandrolole undecanoate vs 11Beta-methyl-19-nortestosterone dodecylcarbonate vs Placebo for Male Contraception
George Washington Milken Institute of Public Health (District of Columbia)
Preceptors: Dr. Diana Blithe, Dr. Jill Long

597. Alexandra Fister
Developmental Lymphangiogenesis Requires Regulation of the Transcription Factor NFATC1
Purdue University (Indiana)
Preceptors: Dr. Hyun Min Jung, Dr. Brant Weinstein

598. Viswanath Gorti, Ravi Malpani
Analyzing Cellular Dynamics Using Dynamic Full Field Optical Coherence Tomography
University of Maryland, College Park (Maryland), University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Dr. Amir Gandjbakhche

599. Mahad Gudal
Developmental Origins of Premature Mortality in the U.S. Collaborative Perinatal Project
University of Massachusetts Amherst (Massachusetts)
Preceptor: Dr. Stephen Gilman

600. Brianna Halasa
Non-nutritive Sweetener Exposure Begins Prenatally and Extends into Adult Life
Smith College (Massachusetts)
Preceptor: Dr. Kristina Rother

601. Samuel Hernandez
A CRISPR-Cas9 Genome Wide Screen to Discover Mediators Of Enhancer-Promoter Interactions
Knox College (Illinois)
Preceptors: Dr. Pedro Rocha, Dr. Shreeta Chakraborty

602. Sydney Hertafeld
Computational Design of DNA Donor Oligo Templates for Detection of Precise CRISPR Edits
Cornell University (New York)
Preceptors: Dr. Ryan Dale, Dr. Benjamin Feldman

603. Michael Hilzendeger
*A Two-way Street: Interactions between Biomechanics and Signaling in the Zebrafish Lateral Line Primordium*
University of Virginia (Virginia)
Preceptor: Dr. Ajay Chitnis

604. Anisa Holloman
*Iron Status from Early through Late Pregnancy and Neonatal Anthropometric Measures: Friend or Foe?*
Spelman College (Georgia)
Preceptors: Dr. Cuilin Zhang, Dr. Stefanie Hinkle

605. Anna Horacek
*Disruption of Promoter-Enhancer Communication Leads to Engrailed Misexpression*
University of Oregon (Oregon)
Preceptor: Dr. Judith Kassis

606. Michael Jayson
*Pediatric Glycemic Variability: Associations with Adiposity and Insulin Resistance in Youth without Diabetes Mellitus*
The Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Jack Yanovski

607. Nicholas Johnson
*Transcriptomic Response to Cyclodextrin in Cell Lines Derived from NPC1 Patients*
University of Colorado Colorado Springs (Colorado)
Preceptors: Dr. Ryan Dale, Dr. Jorge Rodriguez-Gil

608. Ana Johnson Escauriza
*Phenotypic Characterization of dhcr7 Mutant Zebrafish Model of Human SLO Syndrome*
University of Massachusetts Boston (Massachusetts)
Preceptors: Dr. Wei-Chia Tseng, Dr. Forbes Porter

609. Jenna Kanner
*Risk of Cardiovascular Events during Labor and Delivery Associated with Acute Ambient Temperature Changes*
University of Wisconsin - Madison (Wisconsin)
Preceptors: Dr. Pauline Mendola, Dr. Danielle Stevens

610. Emily Katz
*Optimizing a Pipeline for Cryopreservation of Zebrafish Germ Cells*
University of Michigan (Michigan)
Preceptor: Dr. Benjamin Feldman

611. Katherine Klier
*LLN3: Identification and Characterization of a Potential Regulator of Axonal Transport*
University of Michigan (Michigan)
612. Joseph Krzeski  
*KChIP4 Ubiquitination Sites Regulate Kv4.2 Function*  
Xavier University (Ohio)  
Preceptors: Dr. Jia-Hua Hu, Dr. Dax Hoffman

613. Gracia Luoma-Overstreet  
*Measuring Bending of Membrane Bilayers Induced by Myomerger, a Muscle-specific Protein Required for Myoblast Fusion*  
College of William & Mary (Virginia)  
Preceptors: Dr. Kamran Melikov, Dr. Leonid Chernomordik

614. Anna Lyons  
*Abnormal LAMP1 Glycosylation May Play a Role in Niemann-Pick Disease, Type C Pathology*  
University of Notre Dame (Indiana)  
Preceptor: Dr. Niamh Cawley

615. Katherine Maultsby  
*Relations between Peer Engagement and Suicidal Behaviors in Adolescence and Early Adulthood*  
Davidson College (North Carolina)  
Preceptors: Dr. Denise Haynie, Dr. Stephen Gilman

616. Bryttany McClendon-Weary  
*Associations between Maternal Smoking and DNA Methylation in the Upstate KIDS Study*  
Howard University (District of Columbia)  
Preceptors: Dr. Edwina Yeung, Dr. Sonia Robinson

617. Leah Meuter  
*Pheochromocytoma and Paraganglioma: Disease Overview for a Multidisciplinary Health Care Team*  
California Polytechnic State University, San Luis Obispo (California)  
Preceptor: Dr. Karel Pacak

618. John Millerhagen  
*Understanding Relationships between Resting State Functional Connectivity and Fine Motor Task Performance*  
University of Wisconsin - Madison (Wisconsin)  
Preceptors: Dr. Amir Gandjbakhche, Dr. Emma Condy

619. John Oh  
*Cell Cycle Arrest and Apoptosis Are p53-Independent Prior to Embryonic Stem Cell Differentiation*  
University of Illinois at Urbana-Champaign (Illinois)  
Preceptor: Dr. Melvin DePamphilis

620. Sahil Parikh  
*The Design and Creation of Microfluidic Chambers for Imaging, Biochemistry, and Isolation of Neuronal Axons*  
Stockton University (New Jersey)
Preceptor: Dr. Raffaella de Pace

621. Reeya Patel  
*Prenatal Social Disadvantage, Separation From Parents, and Adulthood Mortality*  
University of Michigan (Michigan)  
Preceptors: Dr. Stephen Gilman, Dr. Risë Goldstein

622. Joshua Price  
*Analyzing the Function of Polycomb Group Protein Targets Outside of h3k27me3 Domains*  
The Pennsylvania State University (Pennsylvania)  
Preceptors: Dr. Judith Kassis, Dr. Lesley Brown

623. Nicholas Radant  
*Dynamic Morphological Relationships in the Growth Plate of Long Bones*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Edward Mertz, Dr. Sergey Leikin

624. Leana Ramos  
*Dual Leucine Zipper Kinase Is Required for Proper Olfactory Neuron Development*  
St. Thomas University (Florida)  
Preceptor: Dr. Claire Le Pichon

625. Elijah Reische  
*Does Iodine Deficiency during Pregnancy Increase Risk for Preeclampsia?*  
Swarthmore College (Pennsylvania)  
Preceptor: Dr. James Mills

626. William Rosencrans  
*A Dynamic Plasticity of Mitochondrial VDAC2 Revealed by Single-molecule Electrophysiology*  
Colgate University (New York)  
Preceptor: Dr. Tatiana Rostovtseva

627. Bakary Samasa  
*Live Imaging of Intracranial Lymphatic Vessels in the Zebrafish*  
Dickinson College (Pennsylvania)  
Preceptors: Mr. Daniel Castranova, Dr. Marina Galanternik, Dr. Brant M. Weinstein

628. LauraAnn Schmidberger  
*Exploring the Role of Autism-linked Chromatin Remodelers during Development*  
Denison University (Ohio)  
Preceptors: Dr. Harold Burgess, Dr. David Clark

629. Risha Sheni  
*Acute Sleep Change, Energy Intake, and Glucose Metabolism in Children*  
Cornell University (New York)  
Preceptor: Dr. Jack Yanovski
630. Stacey Slavutsky
*Investigating Relative Contributions of MAP Triple Kinases LZK and DLK to Vincristine-induced Stress in Human Neurons*
Stony Brook University (New York)
Preceptor: Dr. Claire Le Pichon

631. Andrew Smith
*Exploration of Sysphagia in Niemann-Pick Disease, Type C*
University of San Diego (California)
Preceptors: Mr. Forbes Porter, Mrs. Beth Solomon

632. Taylor Swanson
*Negative Affect and Disinhibited Eating Correlates in Youth at Risk of Type 2 Diabetes*
University at Albany (New York)
Preceptors: Dr. Marian Tanofsky-Kraff, Dr. Jack Yanovski

633. Avery Swearer
*Characterizing Zebrafish Heart Regeneration Using a Novel Epigenetic Reporter Line*
Carleton College (Minnesota)
Preceptors: Dr. Aniket Gore, Dr. Brant Weinstein

634. Adrian Temnycky
*Genetic Evidence That Combined Pituitary Hormone Deficiency Frequently Has a Digenic/Oligogenic Etiology*
Colgate University (New York)
Preceptors: Dr. Jeffrey Baron, Dr. Youn Jee

635. Ndeah Terry
*Using Deep Learning to Identify Patterns of Sleep among Adolescents from the NEXT Plus Cohort*
William Paterson University (New Jersey)
Preceptor: Dr. Rajeshwari Sundaram

636. Nicol Tugarinov
*Investigating the Effects of Bimagrumab on the MC3R-deficient Model of Obesity*
McGill University (Non-U.S.)
Preceptors: Dr. Jack Yanovski, Dr. Tusharkumar Patel

637. Jessica Tung
*Identifying Critical Legionella Virulence Factors Using a Multiplex Gene Silencing Approach*
University of Texas at Arlington (Texas)
Preceptors: Dr. Matthias Machner, Dr. Nicole Ellis

638. Franchesca Uribe-Rheinbolt
*Small Protein Interactions with Multiple Bacterial Efflux Pumps*
Appalachian State University (North Carolina)
Preceptors: Dr. Gisela Storz, Dr. Mona Orr

639. Claire Weinstein
*Ras Guanine Nucleotide Exchange Factors Encoded by the Human Pathogen Legionella pneumophila*
Vanderbilt University (Tennessee)
Preceptors: Dr. Stephanie Lehman, Dr. Matthias Machner

640. Kathleen Wendover
Retrotransposon Insertion Independent of Integrase in Fission Yeast
Hendrix College (Arkansas)
Preceptor: Dr. Henry Levin

641. Serena Wisner
Characterizing the HOPS Complex and VPS18's Role in Axon Maintenance
University of Washington (Washington)
Preceptor: Dr. Catherine Drerup

642. Adrian Wong
Effects of Adipose Tissue Specific Reactivation in MC3R Knockout Obesity Model
Occidental College (California)
Preceptors: Dr. Jack Yanovski, Dr. Tushar Patel

643. Rachel Wurth
A Novel Procedure for the Genetic Characterization of Aldosterone Producing Adenomas
Albany College of Pharmacy and Health Sciences (New York)
Preceptors: Dr. Constantine Stratakis, Dr. Christina Tatsi, Dr. Neysha Martínez-Orengo

644. Joseph Yano
Adapting TurboID Proximity Labeling to Study Endothelial Cell Protein Interactions in vitro and in Zebrafish
Washington & Jefferson College (Pennsylvania)
Preceptors: Dr. Brant Weinstein, Dr. Laura Pillay

645. Julia Yerger
Riluzole Treatment Delays Disease Progression in a Mouse Model of Niemann-Pick Disease, Type C1.
Washington and Lee University (Virginia)
Preceptors: Dr. Antony Cougnoux, Dr. Forbes Porter

646. Maxime Zamba-Campero
Characterization of an RNA Binding Protein and Small RNA in the Lyme Disease Spirochete, Borrelia burgdorferi
St. Mary's College of Maryland (Maryland)
Preceptors: Dr. Gisela Storz, Dr. Philip Adams

647. Stella Zhu
Transcription Factor IRF8 Regulates Anxiety-related Behavior in a Sex Dependent Manner
University of California, Berkeley (California)
Preceptor: Dr. Keiko Ozato

648. Joseph Zoeller, Anna Lyons
Niemann-Pick Disease Type C: RNAseq Analysis of Model i3 Neurons throughout Development
Washington and Lee University (Virginia), University of Notre Dame (Indiana)
Preceptors: Dr. Chris Wassif, Dr. Forbes Porter
649. Taimur Chaudhry
*Single-molecule Functional Analysis of DIAPH1 Hearing Loss Variants*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Takushi Miyoshi, Dr. Thomas Friedman

650. Tucker Costain
*Engineering Exosomes as a Therapeutic Tool for the Inner Ear*
University of Montana (Montana)
Preceptor: Dr. Lisa Cunningham

651. Benjamin Gersten
*Ototoxic Profiles of Platinum-based Chemotherapy Drugs in Mice*
Columbia University (New York)
Preceptors: Dr. Lisa Cunningham, Dr. Katharine Fernandez

652. Kelly Kim
*Characterizing the Role of Pou4f1 in Spiral Ganglion Neuron Development*
Colgate University (New York)
Preceptors: Dr. Tessa Sanders, Dr. Matthew Kelley

653. Samuel Leitess
*Temporal and Spatial Profiling of Hgf Alternative Splicing in a Mouse Model of Human Deafness DFNB39*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Robert Morell

654. Natalie Mosqueda
*High Resolution Imaging of Hair-cell Ribbon Synapse Formation and Stabilization*
University of Oregon (Oregon)
Preceptors: Dr. Katie Kindt, Dr. Qiuxiang Zhang

655. Alia Pederson
*Electrical Measurements of Vesicle Release and Recycling at a High-speed Auditory Synapse*
University of Texas at Austin (Texas)
Preceptor: Dr. Catherine Weisz

656. Erica Sadler
*Single Nucleus Sequencing of the Mouse Cochlea with Cisplatin Treatment*
Cornell University (New York)
Preceptors: Dr. Lisa Cunningham, Dr. Michael Hoa

657. Ian Taukulis
*Cell Type-specific Effects in Cisplatin-treated Stria Vascularis Using Single-cell RNA-Seq*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Michael Hoa
658. Felicia Badillo  
*Use of 3D Quantitative Morphometrics to Assess Structural Craniofacial Parameters in OPG-Fc Treated Bgn/Fmod Deficient Mice*  
George Mason University (Virginia)  
Preceptors: Dr. Marian Young, Dr. Priyam Jani

659. James Ball  
*Investigating MAPK Signaling in the Submandibular Glands and Kidneys of Hs3st3a1;Hs3st3b1 Double Knockout Mice*  
University of Missouri (Missouri)  
Preceptors: Dr. Matthew Hoffman, Dr. Vaishali Patel

660. Andrew Bynum  
*The Role of TGF-Beta in Macrophage Immunometabolism*  
James Madison University (Virginia)  
Preceptor: Dr. Thierry Gauthier

661. Hannah Carlin  
*The Effects of Mechanical Stretching on Tumor Growth in a Mouse Mammary Tumor Model*  
University of Minnesota (Minnesota)  
Preceptors: Dr. Lisbeth Berrueta, Dr. Helene Langevin

662. Olivia Fish  
*Single-cell Transcriptome Analysis of the Drosophila Larval Salivary Gland*  
University of Alabama (Alabama)  
Preceptors: Dr. Kelly Ten Hagen, Dr. Liping Zhang

663. Jenny Hsin  
*Studies on Neural Crest Stemness*  
California Institute of Technology (California)  
Preceptor: Dr. Laura Kerosuo

664. Gabrielle Law  
*Structural Characterization of CsaA, a Bacterial Glycosyltransferase That Synthesizes Capsular Polysaccharide*  
Montana State University (Montana)  
Preceptor: Dr. Nadine Samara

665. Carolyn May  
*Differential Splicing of the Lectin Domain of an O-glycosyltransferase Modulates Peptide Preferences*  
University of Richmond (Virginia)  
Preceptors: Dr. Kelly Ten Hagen, Dr. Zulfeqhar Syed

666. Madison Mehlferber  
*The Microtubule Motor Protein Kif5b Facilitates Collagen Secretion in Mouse Epithelial Cells*  
Saint Vincent College (Pennsylvania)
667. Zachary Michel  
_Skeletal and Dermal Contributions of FGF23 Excess in HRAS Mutations_  
New College of Florida (Florida)  
Preceptors: Dr. Michael Collins, Dr. Luis Fernandez de Castro Diaz

668. Tracy Okine  
_Ameliorative Effect of Cdk5 Inhibitor TPS on Ligation-induced Periodontitis in Mice_  
Oho State University (Ohio)  
Preceptors: Dr. Ashok Kulkarni, Dr. Michaela Prochazkova

669. Yuting Pan  
_Characterization of Subpopulations DRG Neurons of the Somatosensory_  
Georgetown University (District of Columbia)  
Preceptor: Dr. Mark Hoon

670. Mary Pasquale  
_Myoepithelial NGF Regulates Acinar Cell Differentiation in Salivary Glands_  
Georgetown University (District of Columbia)  
Preceptors: Dr. Alejandro Chibly, Dr. Matthew Hoffman

671. Caroline Rothermel  
_MicroCT Analysis of Trabecular and Cortical Bone in Mice Deficient for the O-glycosyltransferase Galnt11_  
University of Virginia (Virginia)  
Preceptors: Dr. E Tian, Dr. Kelly Ten Hagen

672. Oscar Safairad  
_Exploring the Impact of Stretching on Macrophage Localization during Resolution of Inflammation_  
University of Illinois at Urbana-Champaign (Illinois)  
Preceptors: Dr. Helene Langevin, Dr. Lisbeth Berrueta

673. Amanda Saikali  
_Nomogram of Intact and C-terminal FGF23 Levels in Phosphate Disorders: A New Diagnostic Tool for Clinicians_  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Michael Collins, Dr. Rachel Gafni

674. Susan Schmidt  
_Insights into GalNAc-T1 Glycopeptide Substrate Recognition and Glycosylation_  
University of Wyoming (Wyoming)  
Preceptor: Dr. Nadine Samara

675. Hulya Taner  
_Role of Th17 cells in Periodontitis: How IL-17 Triggers Bone Loss_  
University of North Carolina at Wilmington (North Carolina)  
Preceptors: Dr. Niki Moutsopolous, Dr. Tomoko Ikeuchi
676. Carlos Villapudua  
*Acinar Cell Differentiation Requires MAPK-dependent FGFR2b Signaling*  
University of La Verne (California)  
Preceptor: Dr. Marit Aure

677. Sean Wang  
*Identifying the Molecular Causes of Severe Enamel Defects in Loeys-Dietz Syndrome*  
Vanderbilt University (Tennessee)  
Preceptors: Dr. Olivier Duverger, Dr. Janice Lee

678. Rita Yazejian  
*The Role of Pluripotency Factors in Neural Crest Development*  
University of Oregon (Oregon)  
Preceptor: Dr. Laura Kerosuo

679. Yizhen Zhang  
*Role of the Rostral Ventromedial Medulla in Pain Modulation*  
University of California, Berkeley (California)  
Preceptors: Dr. Xinglong Gu, Dr. Mark Hoon

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

680. Ruth Adewale  
*BRAF-like and RAS-like Thyroid Cancer Is Characterized by a Distinct Metabolic Phenotype.*  
Howard University (District of Columbia)  
Preceptor: Dr. Joanna Klubo-Gwiezdzinska

681. Asma Azam  
*Autoantibodies from Patients with Graves' Hyperthyroidism and Graves' Orbitopathy Elicit Distinct TSH Receptor Signaling Responses Depending on Tissue Context*  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Marvin Gershengorn, Dr. Christine Krieger

682. Stephanie Cardenas  
*Exploring the Effects of T3, T4, and TSH on Thyroid Cancer Growth and Survival*  
Loyola University Chicago (Illinois)  
Preceptor: Dr. Joanna Klubo-Gwiezdzinska

683. Nardos Cheru  
*Intrinsic Expression of Complement by Human and Mouse Kidney Cells*  
University of Virginia (Virginia)  
Preceptor: Dr. Behdad Afzali

684. Celeste Cravalho  
*Dyslipidemia of Insulin Resistance Is Associated with Subclinical Inflammation in Youth with Type 2 Diabetes*  
Hawaii Pacific University (Hawaii)
Preceptor: Dr. Stephanie Chung

685. Benjamin Davies
*Racial Differences in Disease Severity among Chronic Hepatitis B Patients*
University of Cincinnati (Ohio)
Preceptor: Dr. Marc Ghany

686. Joshua Dawson
*Illuminating the Role of O-GlcNAcylation on PPAR Activation*
University of Washington (Washington)
Preceptors: Dr. Lara Ambramowitz, Dr. John Hanover

687. Emma Fikse
*Association of Mouse Vulnerability to Alzheimer’s Disease Pathology with Mutations of Gnb5: A Modulator of G-protein Coupled Receptor Signaling.*
College of Wooster (Ohio)
Preceptors: Dr. William Simonds, Dr. Jianhua Zhang

688. Isabelle Gallagher
*Ad libitum Energy Intake Differences between a Plant-based, Low-fat and an Animal-based, Low-carbohydrate Diet: An Inpatient Randomized Crossover Study*
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Kevin Hall

689. Acadia Grimme
*Utilizing Genetic Screens in C. elegans to Examine the Role of the miR-100 Family*
University of Delaware (Delaware)
Preceptor: Dr. Katherine McJunkin

690. Andrew Grover
*The Effect of Leptin Treatment on Blood Pressure and Autonomic Nervous System Function in Patients with Lipodystrophy*
Duke University (North Carolina)
Preceptor: Dr. Rebecca Brown

691. Lila Hoachlander-Hobby
*Genome-wide CRISPR/Cas9 Screening for Genes Important in Sphingosine-1-Phosphate Uptake and Recycling*
University of Massachusetts Amherst (Massachusetts)
Preceptors: Dr. Mari Kono, Dr. Richard Proia

692. Xylia Horgan
*Small Size, Big Impact: Understanding How Hepatitis Delta Virus, the Smallest of All Viruses Infecting Humans, Causes the Most Severe Form of Chronic Hepatitis*
Florida Gulf Coast University (Florida)
Preceptors: Dr. Barbara Rehermann, Dr. Helenie Kefalakes

693. Vienna Huso
*Correction of a Pathogenic Point Mutation in Late-onset Tay Sachs Disease Using Adenine Base Editing*
The Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Richard Proia, Dr. Laura Allende

694. Nikita Israni
**Single-dose Effects of Anti-obesity Drugs on Human Basal Metabolic Rate**
Columbia University in the City of New York (New York)
Preceptor: Dr. Kong Chen

695. Noor Khalil
**Partitioning the Renal Syndrome of Focal Segmental Glomerulosclerosis into Mechanistic Subsets Using Clinical and Pathologic Data**
Johns Hopkins University (Maryland)
Preceptor: Dr. Jeffrey Kopp

696. Hannah Lea, Kenneth Zhu
**Stimulation of the β3 Adrenergic Receptors Primes Human White and Brown Adipocytes for Increased Lipolysis and Thermogenesis**
Willamette University (Oregon), Dartmouth College (New Hampshire)
Preceptors: Dr. Cheryl Cero, Dr. Aaron Cypess

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

698. Celine Marlin Andrews
**Harnessing CRISPR-Cas9 to Effectively Tag and Knock Out Genes of Interest within Various Culture Systems**
Colgate University (New York)
Preceptor: Dr. Astrid Haase

699. Samantha Matta, Celeste Cravalho
**Branched-chain Amino Acids Are Poor Markers of Insulin Resistance in Women: The Federal Women’s Study**
Arizona State University (Arizona), Hawaii Pacific University (Hawaii)
Preceptor: Dr. Stephanie Chung

700. Kaitlin McKernan
**Interplay of BAF.com and Mll4.com Regulates Enhancer Activation in Adipogenesis**
University of Michigan (Michigan)
Preceptors: Dr. Young-Kwon Park, Dr. Kai Ge

701. Lauren Milley
**Postprandial Responses to Isocaloric Low-carbohydrate vs Low-fat Meals after 2 Weeks of Inpatient ad libitum Feeding**
Vanderbilt University (Tennessee)
Preceptor: Dr. Kevin Hall

702. Nikola Mizgier
**Do Distinct Coiled Coil Mediated Homotrimers Form Heterotrimers When Coexpressed?**
Trinity College (Connecticut)
Preceptors: Dr. Anthony Furano, Dr. Charles Jones

703. Nana Osei-Tutu
Undiagnosed Diabetes Is Associated With Stress-related Behaviors In African Immigrants
London School of Hygiene and Tropical Medicine (Non-U.S.)
Preceptor: Dr. Anne Sumner

704. Monique Pedroza
Regulation of the Maternal Transcriptome during Oocyte Development by DIS3L2-mediated RNA Decay
University of Oxford (Non-U.S.)
Preceptors: Dr. Jurrien Dean, Dr. Di Wu

705. Danica Pratta
Investigating the Function of Fes1 in Cell Wall Integrity
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Daniel Masison

706. Farial Rahman
Clinical Risk Factors for Hepatitis Delta Infection: Are the Current AASLD Screening Recommendations Enough?
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Christopher Koh

707. Philippa Rogers
Using C. elegans to Study the Neuromuscular Junction of a Mitochondrial Disease
Catholic University of America (Maryland)
Preceptors: Dr. Andy Golden, Dr. Peter Kropp

708. Alex Schick
Effects of ad libitum Low Carbohydrate Versus Low Fat Diets on Body Weight and Fat Mass
University of Maryland, College Park (Maryland)
Preceptor: Dr. Kevin Hall

709. Elyssa Shoup
Random Glucose May Be an Effective Tool to Screen for Undiagnosed Diabetes: The Africans in America Study
Guilford College (North Carolina)
Preceptor: Dr. Anne Sumner

710. Glenda Smerin
Disruption of Gβ5 Signaling Decreases Pain Response
Stanford University (California)
Preceptor: Dr. William Simonds

711. Daniel Stoyko
Characterization of piRNA Populations in Drosophila melanogaster
Stockton University (New Jersey)
Preceptors: Dr. Astrid Haase, Dr. Pavol Genzor

712. Lauren Sullivan
*Prospective Assessment of Efficacy and Safety of Tenofovir Versus Its Combination with Emtricitabine in Patients with Chronic Hepatitis B*
George Washington University (District of Columbia)
Preceptor: Dr. Marc Ghany

713. Aisha Tepede
*The Role of 68GALLIUM DOTATATE PET/CT versus 18F-FDOPA PET/CT in the Detection of Neuroendocrine Tumors in Patients with Multiple Endocrine Neoplasia type 1 (MEN1)*
University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Dr. Jenny Blau

714. Nhien Tran
*MED1 Is a Lipogenesis Coactivator Required for Postnatal Adipose Tissue Development/Expansion*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Kai Ge

715. Alfredo Villalobos-Perez
*GlycA Is a mMarker of Cardiometabolic Disease Risk in Youth with Type 2 Diabetes*
Grinnell College (Iowa)
Preceptors: Dr. Stephanie Chung, Mrs. Lilian Mabundo

716. Isabella Zafra Martinez
*Modeling COPA Syndrome in C. elegans*
York College of Pennsylvania (Pennsylvania)
Preceptor: Dr. Andy Golden

717. Kenneth Zhu, Hannah Lea
*Chronic Adrenergic Stimulation of Human Brown and White Adipose Tissue Increases Bile Acid Synthesis Enzyme Expression and Plasma Bile Acid Levels*
Dartmouth College (New Hampshire), Willamette University (Oregon)
Preceptors: Dr. Cheryl Cero, Dr. Aaron Cypess

**National Institute of Mental Health (NIMH)**

718. Nicole Antkiewicz
*The Effect of Physical and Psychological Stressors on the Expression of the Opioid Peptide Dynorphin in the Nucleus Accumbens*
The Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Hugo Tejeda, Dr. Huikun Wang

719. Robert Atkinson
*Stress-induced Immune Cell Responses at the Blood-Brain Barrier*
University of Georgia (Georgia)
Preceptor: Dr. Stacey Kigar

720. Lindsey Becker
*Development of a Novel Measure for Matching Categories*
Colgate University (New York)
Preceptors: Dr. Audrey Thurm, Dr. Emma Condy

721. Jessica Bezek
*A Latent Variable Approach to Examining Inhibitory Control in Pediatric Psychopathology*
Vassar College (New York)
Preceptor: Dr. Elise Cardinale

722. Simon Bohn
*Visual Input Influences detection of an Optogenetic Stimulation in Macaque Inferior Temporal Cortex*
Johns Hopkins University (Maryland)
Preceptor: Dr. Arash AfrazD

723. Christian Botz-Zapp
*Piloting a Novel Motor Inhibition Paradigm in Irritable Youth via Mobile Application*
Emory University (Georgia)
Preceptor: Dr. Melissa Brotman

724. Rhasaan Bovell
*The HPA Axis and Cortisol Awakening Response: Effects of Sex and Puberty*
Yale University (Connecticut)
Preceptors: Dr. Peter Schmidt, Dr. Pedro Martinez

725. Christopher Camp
*One-year Reliability of Functional and Resting State Connectivity Matrices in Depressed Patients*
Duke University (North Carolina)
Preceptor: Dr. Argyris Stringaris

726. Antoinette Charles
*Who Participates in Research Funded by the National Institute of Mental Health? Examining Race and Ethnicity to Inform Interventions to Increase the Diversity of NIMH Intramural Studies*
Georgia State University (Georgia)
Preceptor: Dr. Joyce Chung

727. Yenho Chen
*Mental Mazes in Mice: Decoding Location from mPFC Spiking Patterns*
University of Texas at Dallas (Texas)
Preceptors: Dr. Francisco Pereira, Dr. Charles Zheng

728. Michaela Cooke
*Characterization of the Fasciola Cinereum in the Avpr1b-Cre Mouse*
Dartmouth College (New Hampshire)
729. Samuel Dahlke

*ERK Acts as a Memory Molecule in Mediating Signaling from Gs-GPCRs to Gene Targets*
Grinnell College (Iowa)
Preceptors: Dr. Wenqin Xu, Dr. Lee Eiden

730. Riya Dange

*Genetic and Neural Predictors of Mood and Anxiety Disorder Risk in Patients with Schizophrenia and Their Siblings*
Duke University (North Carolina)
Preceptors: Dr. Joseph Callicott, Dr. Karen Berman

731. Gwyneth DeLap

*Neural Responses to a Scary Movie in Children With and Without Anxiety Disorders*
University of Wisconsin - Madison (Wisconsin)
Preceptors: Dr. Anita Harrewijn, Dr. Rany Abend

732. Joseph Denning

*Category-related Activation in the Brain Is Independent of Stimulus Modality, Format, and Task*
University of Kansas (Kansas)
Preceptor: Dr. Andrew Persichetti

733. Rachel Dick

*Development of a Novel GluN2B-selective PET Radioligand: In vitro and in vivo Discrepancies*
University of Virginia (Virginia)
Preceptor: Dr. Robert Innis

734. Kelly Dombek

*Multi-informant Reporting of Symptom Severity in a Novel Psychotherapy Treatment: The Affective Reactivity Index (ARI)*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Ramaris German, Dr. Melissa Brotman

735. Laila Drury

*Risk Factors Predicting Violence in a Large Schizophrenia Sample*
College of William & Mary (Virginia)
Preceptor: Dr. Dwight Dickinson

736. Sarah Ethridge

*Thriving in Fragile X Syndrome*
Davidson College (North Carolina)
Preceptor: Dr. Audrey Thurm

737. R'ay Fodor

*Exploring the Mechanism of the Negative Compatibility Effect: Evidence from Individuals Missing a Limb*
McGill University (Non-U.S.)
Preceptors: Mr. Hunter Schone, Dr. Chris Baker

738. Grace Fomani
*Lesion Reconstructions Support Evidence against a Straight-forward, High-level Visual Object Processing in Monkeys*
Tuskegee University (Alabama)
Preceptor: Dr. Mark Eldridge

739. Katherine Foray
*Individual Differences in Uncertainty and Decision-making in Healthy Volunteers*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Christian Grillon, Dr. Monique Ernst

740. Jason Fu
*Spatio-temporal Dynamics and Spectral Profile of Facial Valence Processing in V1*
Swarthmore College (Pennsylvania)
Preceptor: Dr. Tong Liu

741. Jessica Gerner
*Wakefulness after Sleep Onset as Predicting Suicidal Ideation*
University of Cincinnati (Ohio)
Preceptor: Dr. Elizabeth Ballard

742. Alison Gibbons
*The Utility of Self-perceived Health Ratings in Screening Volunteers for Mental Health Research*
Haverford College (Pennsylvania)
Preceptor: Dr. Joyce Chung

743. Hannah Goldbach
*Optogenetic Inhibition Reveals a Behavioral Role for Mouse Secondary Visual Areas*
American University (District of Columbia)
Preceptors: Dr. Mark Histed, Dr. Bradley Akitake

744. Lisa Gorham
*Family History of Mental Illness and Clinical Outcomes in Adolescents with MDD*
Washington University in St. Louis (Missouri)
Preceptor: Dr. Argyris Stringaris

745. Shivani Goyal, Hannah Wild
*Processing of Facial Expressions in Developmental Prosopagnosia*
Georgetown University (District of Columbia), Haverford College (Pennsylvania)
Preceptors: Dr. Shruti Japee, Dr. Leslie Ungerleider

746. Maximillian Greenwald
*Do Acute Experiences during Ketamine Infusions Influence Ketamine's Antidepressant Effects?*
Middlebury College (Vermont)
Preceptor: Dr. Lawrence Park

747. Lillian Ham
*Depression, Cognition, and Other Health Factors in Virally Suppressed People Living with HIV (PLWH) and Well-matched Controls*
Temple University (Pennsylvania)
Preceptor: Dr. Joseph Snow

748. Madeline Hamborg
*7q11.23 Copy Number Variation Affects Hippocampal Volume Development over Time in Children and Adolescents*
College of William & Mary (Virginia)
Preceptor: Dr. Karen Berman

749. Breonda Harris
*Effects of Amygdala Lesions on Stimulus Based vs. Action Based Learning*
George Washington University (District of Columbia)
Preceptor: Dr. Bruno Averbeck

750. Alexander Hay
*Investigating the Brain Regions and Circuitry that mediate Visual Statistical Learning*
University of Rochester (New York)
Preceptors: Dr. Leslie Ungerleider, Dr. Susheel Kumar

751. Allison Jaffe
*Using Drift Diffusion Modeling to Explore the Effect of Irritability on Threat-related Attentional Processing in a Pediatric ADHD Sample*
Rice University (Texas)
Preceptor: Dr. Reut Naim

752. Ogeneitsega Joseph
*Factor Structure of the Hamilton Depression Rating Scale during Electroconvulsive Therapy and Magnetic Seizure Therapy in the Treatment of Major Depression*
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Zhi-De Deng, Dr. Sarah Lisanby

753. E. Brandon Kelly
*Neuronal Responses to Naturalistic Movies in the Primate Amygdala*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. David Leopold, Dr. Kenji Koyano

754. Arman Khojandi
*Exploring k-Space Based Physiological Noise Correction for 3D-EPI Acquired fMRI Data*
George Mason University (Virginia)
Preceptors: Dr. Peter Bandettini, Dr. Yuhui Chai
755. Morgan Kindel

Identifying Neuronal Populations in the Paraventricular Nucleus of the Thalamus Differentially Involved in Passive and Active Fear Responses

Chapman University (California)
Preceptor: Dr. Mario Penzo

756. Andrew Kittleson - Cancelled

Sex Difference in the Effects of Adrenarche on Cortical Thickness in Children Prior to Gonadarche

Northwestern University (Illinois)
Preceptor: Dr. Karen Berman

757. Elizabeth Kruse

Deciphering Temporal and Spatial Dynamics in Response to Face and Chair Configuration Using MEG

University of Michigan (Michigan)
Preceptor: Dr. Kunjan Rana

758. Kaylin Langer

Asymmetry of Gray Matter Volume in Children with Williams Syndrome

University of Wisconsin - Madison (Wisconsin)
Preceptors: Mrs. Tiffany Nash, Dr. Karen Berman

759. Kate Lawson

Image Processing and Computational Analysis of Whole Brain Imaging Data

Vassar College (New York)
Preceptors: Dr. Sarah Williams Avram, Dr. Ted Usdin

760. Alexander Liu

Viewing Pictures of Foods Elicits Taste-specific Activity in Gustatory Insular Cortex

Emory University (Georgia)
Preceptors: Dr. Jason Avery, Dr. Alex Martin

761. Charday Long

Getting Ahead in Animal Welfare Practice: An Analysis of the Efficacy and Longevity of Head Restraint Devices in Rhesus Macaques (Macaca mulatta)

Kansas State University (Kansas)
Preceptors: Dr. Elisabeth Murray, Dr. Maia Pujara

762. Niharika Loomba

Dynorphin/Kappa Opioid Receptor System Modifies Cortical Circuits to Shape Stress-induced Behaviors

University of Alabama at Birmingham (Alabama)
Preceptors: Dr. Hugo Tejeda, Dr. Huikun Wang

763. Colin Lynch

Preparation of Thee Radioligands ([18F]FPEB, [18F]Nifene, [18F]PK14105) via Diarylselenone Precursors

Northwestern University (Illinois)
Preceptors: Dr. Victor Pike, Dr. Fabrice Simeon
764. Lester Manly
Aspirin’s Ability to Block [11C]PS13 from Binding to COX-1 Is Attenuated by Rapid Plasma Metabolism during Human PET Imaging Studies: An in vitro Explanation
University of North Florida (Florida)
Preceptors: Dr. Sami Zoghbi PhD, Dr. Robert Innis MD PhD

765. Maria Mazzu
Identification of Novel Genetic Variants in Women with Premenstrual Dysphoric Disorder Using Exome Sequencing
University of Massachusetts Amherst (Massachusetts)
Preceptors: Dr. Peter Schmidt, Dr. Sarah Rudzinskas

766. Nanami Miyazaki
Chemogenetic Inhibition of Rostromedial Caudate Alters Relative Reward Value in Rhesus Monkeys
Purdue University (Indiana)
Preceptors: Dr. Barry Richmond, Dr. Mark Eldridge

767. Ellora Mohanty
Developmental Milestones and Regression in Phelan-McDermid Syndrome (PMS)
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Audrey Thurm

768. Annabelle Mournet
Have you ever tried to kill yourself?: A Comparison of Positive Suicide Risk Screen Responses by Pediatric and Adult Medical Inpatients
University of Rochester (New York)
Preceptor: Dr. Lisa Horowitz

769. Glennis Muldoon
The Relationship between Sensory Processing Patterns and Externalizing Behaviors in Children with ASD
University of California, San Diego (California)
Preceptors: Dr. Emma Condy, Dr. Audrey Thurm

770. Julia Napoli
Neural Correlates of an Auditory Decision-making Task in Macaques
Boston College (Massachusetts)
Preceptor: Dr. Bruno Averbeck

771. Stephany Nti
Effects of Doxycycline on the Expression of Calcium Indicator in Non-human Primate Brain
West Virginia University (West Virginia)
Preceptors: Dr. Soo Hyun Park, Dr. David

772. Sanika Paranjape
Mr. or Mrs. Potato Head? Biased perception of gender in illusory faces
Case Western Reserve University (Ohio)
Preceptors: Dr. Christopher Baker, Dr. Susan Wardle

773. Amanda Patterson  
*An fMRI Study of Expressive Human Body Valence in Macaques*  
Virginia Tech (Virginia)  
Preceptors: Dr. Leslie Ungerleider, Dr. Jessica Taubert

774. Claire Punturieri  
*Variations in Estimated Biological Brain Age in Treatment-resistant Depression*  
McGill University (Non-U.S.)  
Preceptors: Dr. Jennifer Evans, Dr. Carlos Zarate

775. Naria Quazi  
*Differential Relationships between Hippocampal Brain-derived Neurotrophic Factor (BDNF) Imputed Expression and Gray Matter Volume in Children and Adolescents*  
University of California, Berkeley (California)  
Preceptors: Dr. Karen Berman, Dr. Peter Schmidt

776. Cambria Revsine  
*A Biologically Constrained Network Model Accounts for Commonalities and Inconsistencies across Face Recognition Neuroimaging Studies*  
University of Pennsylvania (Pennsylvania)  
Preceptors: Dr. Fernando Ramírez, Dr. Elisha Merriam

777. Joseph Reyelts  
*Using Analysis of Functional NeuroImaging (AFNI) to Map Excitotoxic Amygdala and Cortical Damage in Rhesus Monkeys (Macaca mulatta)*  
Brigham Young University (Utah)  
Preceptor: Dr. Maia Pujara

778. Chandler Richards  
*Context-sensitive Models of Naturalistic Stimuli Reveal Unique Patterns of Brain Activity*  
Duke University (North Carolina)  
Preceptors: Dr. Emily Finn, Dr. Peter Bandettini

779. Sonia Ruiz  
*Modeling Avoidance in Pediatric Anxiety*  
Yale University (Connecticut)  
Preceptors: Dr. Daniel Pine, Dr. Rany Abend

780. Joshua Samuels  
*The Innate Immune System Heals the Brain Following Stress-induced Vascular Damage*  
Washington College (Maryland)  
Preceptor: Dr. Michael Lehmann

781. Linnea Sepe-Forrest  
*The Evidence for Cannabis Use as a Risk Factor for Schizophrenia: A Review Poster*  
University of California, Los Angeles (California)
Preceptors: Dr. Frederick Carver, Dr. Allison Nugent

782. Leah Sorcher - Cancelled
*Altered Hemispheric Asymmetry of White Matter Integrity in Children with Williams Syndrome*
University of Pennsylvania (Pennsylvania)
Preceptor: Dr. Karen Berman

783. Melanie Swang
*Visualizing and Quantifying Nociception-Mediated Neuronal Activation Using Whole-brain Clearing and Light Sheet Microscopy*
Howard University (District of Columbia)
Preceptors: Dr. Ted Usdin, Dr. Sarah Williams-Avram

784. Soma Umeozulu
*[11C]/[18F]TMI: PET Radioligands for Imaging COX-2 in the Brain*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Victor Pike, Dr. Fabrice Simeon

785. Ramya Varadarajan
*Identifying and Decoding Cognitive States during Repeated Movie Viewing*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Peter Bandettini, Dr. Daniel Handwerker, Dr. Javier Gonzalez-Castillo

786. Caroline Walsh
*Oxytocin Receptor Knockout in Hippocampal CA2 Subfield Drives Novelty Detection Deficit While Combined Knockout of Oxtr-Avpr1b Suggests a Compensatory Mechanism*
Colgate University (New York)
Preceptors: Dr. Adi Cymberblit-Sabba, Dr. W. Scott Young

787. Allys Warling
*Altered Cognitive-Neuroanatomical Relationships in Sex Chromosome Aneuploidy*
Colorado College (Colorado)
Preceptor: Dr. Armin Raznahan

788. Spencer Waters
*Forgetting the Hippocampus: A Meta-analysis on the Behavioral Effects of Selective Neurotoxic Lesions in Nonhuman Primates Suggests the Hippocampus Is Not Necessary for Recognition Memory*
Brigham Young University (Utah)
Preceptors: Dr. Elisabeth Murray, Dr. Benjamin Basile

789. Tenley Weil
*Decoding Neuronal Circuitry Driving the Effects of Light on Mood*
University of Washington (Washington)
Preceptors: Dr. Diego Fernandez, Dr. Samer Hattar

790. Emily Weiss
*The Probability of Shock's Influence on Anxiety Responses*
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Christian Grillon

791. Ethan Whitman
Patterns of Altered Resting State Functional Connectivity in Klinefelter’s Syndrome (47, XXY)
Tufts University (Massachusetts)
Preceptor: Dr. Armin Raznahan

792. Hannah Wild, Shivani Goyal
Cross-species Characterization of Facial Expression and Head Orientation Processing
Haverford (Pennsylvania), Georgetown (District of Columbia)
Preceptors: Dr. Shruti Japee, Dr. Leslie Ungerleider

793. Kathleen Wilson
A Framework for Modeling Familial Predictors of Proband Outcomes in Neurogenetic Disorders: Initial Application and Findings in XYY Syndrome
Middlebury College (Vermont)
Preceptor: Dr. Armin Raznahan

794. Kristin Woodard
Similarity of Objects Based on the Way They Are Grasped
Kenyon College (Ohio)
Preceptors: Dr. Maryam Vaziri-Pashkam, Dr. Leslie Ungerleider

795. Christina Wusinich
Electrophysiological Correlates of the Monetary Incentive Delay Task in Mood Disorders
Teachers College, Columbia University (New York)
Preceptors: Dr. Jessica Gilbert, Dr. Carlos Zarate

796. Ellie Xu
White Matter Characteristics: Predictors of Phasic and Tonic Irritability
University of Chicago (Illinois)
Preceptor: Dr. Julia Linke

797. Jean Ye
Altered Vertical Occipital Fasciculus (VOF) White Matter Microstructure Relates to Structural Abnormalities in the Intraparietal Sulcus (IPS) in Children with Williams Syndrome
University of California, Berkeley (California)
Preceptor: Dr. Karen Berman

798. Andrea Zhang
Whole-body PET Imaging in Humans Shows that 11C-PS13 Is Selective for Cyclooxygenase-1 and Can Measure the in vivo Potency of Non-steroidal Anti-inflammatory Drugs
Vanderbilt University (Tennessee)
Preceptor: Dr. Robert Innis

799. Kevin Zhu
Allele Specific Expression in the Transcriptome of Human Subgenual Anterior Cingulate Cortex
Johns Hopkins University (Maryland)
Preceptors: Dr. Nirmala Akula, Dr. Francis McMahon

800. Corina Zisman
*Quantifying Individual Motivation: Development of an Effort-based Paradigm*
Johns Hopkins University (Maryland)
Preceptor: Dr. Monique Ernst

National Institute of Minority Health and Health Disparities (NIMHD)

801. Aniruddh Ajith
*Longitudinal Associations between Adolescent Smoking and College Completion by Parent Education*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Kelvin Choi

802. Zahra Ansari
University of California, Berkeley (California)
Preceptor: Dr. Sherine El-Toukhy

803. Jackie Bonilla
*The Importance of Patient Engagement to Patient Satisfaction and Quality of Life among Latina Breast Cancer Survivors*
University of Georgia (Georgia)
Preceptor: Dr. Anna Napoles

804. Aaron Broun
*Parental Anti-smoking Encouragement as a Longitudinal Predictor of Young Adult Cigarette and E-Cigarette Use in a National Study*
Oberlin College (Ohio)
Preceptors: Dr. Kelvin Choi, Denise Haynie

805. Isaiah Brown
*Evaluating Differences in Quality Health Monitoring among US Adult Diabetics*
University of Kentucky (Kentucky)
Preceptor: Dr. Sharon Jackson

806. Charmaine Chan
*Micro- and Macro-level Factors in Cancer Screening: Evidence from the Health Information National Trends Survey, 2011-2019*
Vassar College (New York)
Preceptor: Dr. Sherine El-Toukhy

807. Danielle Duarte
*State Tobacco Control Effort and Education-related Smoking Disparities*
University of New Mexico (New Mexico)
808. Koya Ferrell
*Quantifying Systemic Inflammation and Its Association With Sagittal Abdominal Diameter in US Adults*
Georgetown University (District of Columbia)
Preceptor: Dr. Sharon Jackson

809. Sean Lee
*Molecular Profiling and Environmental Exposure Associated with Racial Disparities in Breast Cancer Mortality*
Johns Hopkins Bloomberg School of Public Health (Maryland)
Preceptor: Dr. Jung Byun

810. Toluwa Omole
*Inclusion of E-Cigarette Use in State-wide Clean Indoor Air Policies and Changes in Youth E-Cigarette Use*
Arizona State University (Arizona)
Preceptor: Dr. Kelvin Choi

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

811. Elizabeth Akinsoji
*The Effect of HHV6 on Hippocampal Subfield Volumes in Patients with Mesial Temporal Lobe Epilepsy*
University of Miami Miller School of Medicine (Florida)
Preceptor: Dr. William Theodore

812. Abigail Atkinson
*Regulation of Human Endogenous Retrovirus K (HERV-K) by Androgen Receptor: Implications for Amyotrophic Lateral Sclerosis*
Brown University (Rhode Island)
Preceptors: Dr. Tara Doucet-O'Hare, Dr. Avindra Nath

813. Idris Ayantoye
*Malate Binding Protein (MatC): Testing a Candidate Single-molecule Sensor for C4-Dicarboxylates*
Illinois Institute of Technology (Illinois)
Preceptors: Dr. Gabriel Fitzgerald, Dr. Joseph Mindell

814. Elena Bagatelas
*GluN2B Variants Differentially Regulate Trafficking of Synaptic NMDARs*
University of Tennessee Knoxville (Tennessee)
Preceptors: Dr. Sehoon Won, Dr. Katherine Roche

815. Courtney Battles
*Improving Memory with Neurofeedback: Candidate Brain Signals and Task Design*
Duquesne University (Pennsylvania)
Preceptors: Dr. John Wittig, Dr. Kareem Zaghoul
816. Srijan Bhasin
Representational Similarity Analysis Reveals a Shared Mental State Underlying Accurate Retrieval of Distinct Memory Content
College of William & Mary (Virginia)
Preceptors: Dr. Kareem Zaghloul, Dr. Weizhen Xie

817. Mitchell Bishop
Deep Learning Approaches for Analysis of Vocalization-related Facial Expressions
Western Washington University (Washington)
Preceptor: Dr. Shahriar SheikhBahaei

818. Crystal Burgess
Characterizing the Role of NG2 Expression in Glioma Stem Cell-Pericyte Interactions
Agnes Scott College (Georgia)
Preceptor: Dr. Sadhana Jackson

819. Brice Calco, Snigdha Chigurupati
Examining Total Body Energetics and Cellular Bioenergetics in Patients and Healthy Volunteers with Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS)
University of Michigan (Michigan), University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Brian Walitt

820. Julia Casazza
Development of a Dopaminergic Neurodegeneration Assay Using Laser Cytometry of Caenorhabditis elegans Models of Parkinson’s Disease
Princeton University (New Jersey)
Preceptors: Dr. David Sibley, Dr. Emmanuel Akano

821. Nikita Chapagain
Traumatic Meningeal Enhancement at 30 Days Post-injury and Patient Outcomes
Baylor University (Texas)
Preceptors: Dr. Lawrence Latour, Dr. L. Christine Turtzo

822. Snigdha Chigurupati, Brice Calco
Examining Cellular Bioenergetics in Patients with Myalgic Encephalomyelitis/ Chronic Fatigue Syndrome (ME/CFS)
University of Maryland, Baltimore County (Maryland), University of Michigan (Michigan)
Preceptor: Dr. Brian Walitt

823. Annaliese Clauze
Increased Detection of Epstein-Barr Virus in Multiple Sclerosis Patient Cohort
Colgate University (New York)
Preceptors: Dr. Steven Jacobson, Dr. Maria Chiara Monaco-Kushner

824. Aleksandra Dagunts
Improving Working Memory in the 22q11.2 Deletion Model of Schizophrenia Predisposition
George Washington University (District of Columbia)
825. Melanie Delgado
*MS Patients Show Decreased T-cell Response to Epstein-Barr Virus Compared to Normal Donors*
American University (District of Columbia)
Preceptors: Dr. Steven Jacobson, Dr. Maria Chiara Monaco

826. Sarah Dembling
*Cortical Network Plasticity following Unilateral Whisker Denervation*
Dickinson College (Pennsylvania)
Preceptors: Dr. Emily Petrus, Dr. Alan Koretsky

827. Katherine Dembny
*Altered Resting State Functional Connectivity in Seizure Onset Zones*
University of Texas at Austin (Texas)
Preceptor: Dr. Sara Inati

828. Ciana Deveau
*Trbeta2 Mutant Zebrafish Exhibit Altered Physiological Function in the Inner Retina*
University of Virginia (Virginia)
Preceptor: Dr. Ralph Nelson

829. Brianna DiSanza
*In Atypical Teratoid Rhabdoid Tumors (AT/RT), Absence of SMARCB1 Results in Overexpression of HERV-K (HML-2) Envelope Leading to Tumorigenesis*
University of Virginia (Virginia)
Preceptors: Dr. Tara Doucet-O'Hare, Dr. Avindra Nath

830. Eric Esposito
*Development of an AAV Based Gene Therapy Platform for treatment of Rare CMS Diseases*
Virginia Polytechnic and State University (Virginia)
Preceptors: Dr. Janelle Geist-Hauserman, Dr. Carsten Bonnemann

831. Stephen Farmer
*Drebrin Regulates Cytoskeletal Dynamics in Migrating Neurons through Interaction with CXCR4*
University of Central Florida (Florida)
Preceptors: Dr. Susan Wray, Dr. Yufei Shan

832. Cynthia Fioriti
*Inferior Parietal-Precuneal White Matter Integrity Predicts the Effect of Parietal Stimulation on Hippocampal-Cortical FC and Episodic Memory*
Catholic University of America (District of Columbia)
Preceptors: Dr. Eric Wassermann, Dr. Michael Freedberg

833. Brandon Foster
*Ibrutinib Impairs Malignant Rat Glioma by BMX Kinase Inhibition*
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Sadhana Jackson

834. Kirsten Gilchrist, Rachel Mikofsky
*Differential Engagement of Mouse Prefrontal Cortex Neuron Types during hippocampal Input Stimulation and Hippocampal-dependent Working Memory*
University of Washington (Washington), Columbia University (New York)
Preceptor: Dr. Dave Kupferschmidt

835. Matthew Gooden
*Optimizing Risk-Based Monitoring in Human Subjects Research*
Tufts University School of Medicine (Massachusetts)
Preceptor: Ms. Sandra Martin

836. Aasma Hossain
*Enhanced Axonal Mitochondrial Transport Facilitates Newborn Neuron Survival in Adult Hippocampal Neurogenesis*
The Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Zuhang Sheng, Dr. Guijing Xiong

837. Lucy Jia
*From Individual Proteins to Their Molecular Organization at Neuronal Synapses: Tales of PSD-95, SAP102, NL2, and Myosin VI*
Brown University (Rhode Island)
Preceptor: Dr. Xiaobing Chen

838. Hannah Kelly
*Histopathological Validation of MRI-detected Cortical Lesions in a Nonhuman Primate Model of Multiple Sclerosis*
Emory University (Georgia)
Preceptors: Dr. Maxime Donadieu, Dr. Daniel Reich

839. Sae-Jin Lee
*EEG Correlates of Deciding and Being Instructed to Go or No-go*
The Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Mark Hallett

840. Suhwan Paul Lee
*Refining Structural Models of Serotonin Transporter (SERT) Termini Using Biophysical Data*
University of Mississippi (Mississippi)
Preceptor: Dr. Lucy Forrest

841. Riley McCarty
*Milder Disease Severity in a Patient Identified With Mosaicism for a Novel COL6A1 Pseudoxon-inducing Mutation*
University of Missouri (Missouri)
Preceptors: Dr. Carsten Bönnemann, Dr. Véronique Bolduc
842. Mark Morrison
*The Association of Leptomeningeal Enhancement and Cortical Lesions in Multiple Sclerosis*
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Daniel Reich

843. Jorge Dorado Murillo
*Parietal rTMS Enhances Hippocampal-Cortical Functional Connectivity, but also Affects Other Memory Networks*
University of California, Davis (California)
Preceptors: Dr. Michael Freedberg, Dr. Eric Wassermann

844. Tandees Najimi
*Cerebrospinal Fluid Catechols and End-products of Catecholamine Metabolism in Autonomic Synucleinopathies*
University of Texas at Austin (Texas)
Preceptor: Dr. David Goldstein

845. Matthew Nalls
*Unrestrained Sphingolipid Synthesis Causes Motor Neuron Degeneration in a Novel Form of Childhood ALS*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Payam Mohassel, Dr. Carsten Bonnemann

846. Sriya Namagiri
*PRMT5 Depletion Sensitizes Glioblastoma Models to Trametinib*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Yesh Banasavadi-Siddegowda

847. Shreya Nandi
*A CRISPRi Screen in iPSC Models of Hereditary Motor Neuron Disease*
Cornell University (New York)
Preceptors: Dr. Christopher Grunseich, Dr. Kenneth Fischbeck

848. Marianne Naval
*Illuminating the Cell Surface Expression of the Elusive Squid NaV alpha/beta Complex*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Miguel Holmgren, Dr. Pablo Miranda

849. Kamsi Nwangwu
*Evaluating Candidate Mechanisms of a Disease-causing Mutation in the Lysosomal Chloride Transporter CLC-7*
Yale University (Connecticut)
Preceptor: Dr. Joe Mindell

850. Anthony Nwankwo
*The Effects of Immunotherapy Treatment in Labeled versus Unlabeled GL261 Tumor Bearing Mice*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Edjah Nduom

851. Andrew Oh
*Can GnRH Cells Respond to a Second Kisspeptin Signal? Challenging the Literature*
University of Michigan (Michigan)
Preceptors: Dr. Susan Wray, Dr. Stephanie Constantin

852. Thomas Osterholt III
*Exploring the Mechanism of Bradykinesia in Parkinson's disease*
Truman State University (Missouri)
Preceptor: Dr. Debra Ehrlich

853. Eduardo Paredes
*Assessing Autonomic Dysfunction in a Cohort of Giant Axonal Neuropathy Natural History Patients*
Johns Hopkins University (Maryland)
Preceptors: Dr. Diana Bharucha-Goebel, Dr. Dimah Saade

854. Jacob Parker
*Dynamic Functional Network Connectivity Correlates of Functional Movement Disorders*
New York University (New York)
Preceptors: Dr. Silvina Horovitz, Dr. Mark Hallett

855. Katherine Pizano
*VIP Excites GnRH neurons*
Princeton University (New Jersey)
Preceptors: Dr. Susan Wray, Dr. Stephanie Constantin

856. Makayla Portley
*Genome Sequencing in Lewy Body Dementia: Generation of a Public Resource for the Research Community*
Swarthmore College (Maryland)
Preceptor: Dr. Sonja Scholz

857. Julia Rocereta
*Optimization of a Novel D2 Dopamine Receptor Antagonist with Unprecedented Selectivity as a Therapeutic to Treat Psychosis and Other Neuropsychiatric Disorders*
Muhlenberg College (Pennsylvania)
Preceptors: Dr. David Sibley, Dr. R. Benjamin Free

858. Adit Sabnis
*The Müller Report: An Examination of Neuro-Glial-Vascular Coupling in the Mouse Retina*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Jeffrey Diamond

859. Nathan Sarkar
*Exome Sequencing, Deep Phenotyping, and Candidate Gene Filters Enhance Diagnosis of Patients with Rare Neurogenetic Diseases*
Cornell University (New York)
Preceptor: Dr. Ami Mankodi

860. 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 (New Jersey)
Preceptors: Dr. David Sibley, Dr. R Benjamin Free

861. Emma Spillman
*Brain-specific Lipoprotein Receptors Interact with Astrocyte Derived Apolipoprotein and Mediate Neuron-Glia Lipid Shuttling*
University of Delaware (Delaware)
Preceptors: Dr. Quan Yuan, Dr. Jun Yin

862. Amelia Stapleton
*Visuospatial Attention and Its Asymmetries: From Behavior to Neurophysiology*
Smith College (Massachusetts)
Preceptors: Dr. Selene Schintu, Dr. Eric Wassermann

863. Hannah Sur
*Programmed Death-Ligand 2 Expression in Glioblastoma*
University of Southern California (California)
Preceptor: Dr. Edjah Nduom

864. Stephanie Tam
*Investigating the Functional Roles of an Unusual Cytoplasmic Cap in P2X Receptor Channels*
American University (District of Columbia)
Preceptors: Dr. Mufeng Li, Dr. Kenton Swartz

865. Kia Thomas
*Exploring Phosphorous Metabolites in Parkinson's Disease at 7Tesla*
Emory University (Georgia)
Preceptor: Dr. Silvina Horovitz

866. Ariana Turk
*Morphometric Analysis of Astrocytes in Brain Regions Associated with Affective Vocalization in the Common Marmoset*
Georgetown University (District of Columbia)
Preceptor: Dr. Shahriar Sheikhbahaei

867. Perel Wein
*Neuro-Diagnostic Modeling in HIV+ and Matched Control Subjects Using Combinatorial MRI Scores*
Gratz College (Pennsylvania)
Preceptors: Dr. Kory Johnson, Dr. Govind Bhagavatheeshwaran

868. Victoria Williams
*In vivo Assessment of Mitophagy in Parkinson’s Models Using Imaging Mass Spectrometry*
Davidson College (North Carolina)
Preceptors: Dr. Derek Narendra, Dr. Rachel Cox

869. Beverly Wu
*Key Determinants of CHCHD2/CHCHD10 Pathogenicity and Function Identified by Systematic Mutagenesis*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Derek Narendra

870. Emily Yaklich
Investigating the Relationship between Structural Symmetry and Function in Membrane Proteins
University of Minnesota (Minnesota)
Preceptors: Dr. Antoniya Aleksandrova, Dr. Lucy Forrest

871. Esther (Ye Eun) Yoon
Associations between Genetic Risk Factors and Imaging Phenotypes in Parkinson’s Disease
Indiana University (Indiana)
Preceptors: Dr. Silvina Horovitz, Dr. Debra Ehrlich

872. Dave Youssef
Single Unit Spiking Responses to Microstimulation in Humans
Ohio State University (Ohio)
Preceptors: Dr. Kareem Zaghloul, Dr. John Wittig

873. William Zhu
Whole Genome Sequencing of Early Onset PD Cohort Allows Comprehensive Analysis of SNPs, Genomic Rearrangements, and MtDNA Mutations
Georgetown University (District of Columbia)
Preceptor: Dr. Derek Narendra

874. Asher Moldwin
Analyzing Medical Concept Mentions in Longitudinal Clinical Notes
University of Maryland, College Park (Maryland)
Preceptors: Dr. Travis Goodwin, Dr. Dina Demner-Fushman

875. Max Savery
Using Deep Learning to Summarize Answers to Health Questions
Montgomery College (Maryland)
Preceptor: Dr. Dina Demner-Fushman