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

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

Postbaccalaureate Poster Day 2018 is organized by the Office of Intramural Training & Education, National Institutes of Health.
## NIH POSTBACCALAUREATE POSTER DAY 2018

### MORNING SESSION

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<td>10:00 AM - 12:00 PM</td>
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| 12:00 PM - 1:00 PM | KEYNOTE: Ending Health Disparities: The Role of Doctors, Scientists, and Public Health Officials  
Leana Wen, MD, MSc, FAAEM. Health Commissioner, Baltimore City Health Department |
| 1:00 PM - 1:30 PM  | POSTBAC DISTINGUISHED MENTOR AWARD                                      |
| 1:30 PM - 3:30 PM  | PM AFTERNOON SESSION                                                    |

### INSTITUTE OR CENTER

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<td>National Center for Advancing Translational Sciences [NCATS]</td>
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<td>National Center for Complementary and Integrative Health [NCCIH]</td>
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<td>National Cancer Institute – Center for Cancer Research [NCI-CCR]</td>
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**Note:** The complete program for Postbac Poster Day 2018, including poster titles, can be found at [https://www.training.nih.gov/assets/2018_Postbac_Poster_Day_Program.pdf](https://www.training.nih.gov/assets/2018_Postbac_Poster_Day_Program.pdf).
KEYNOTE SPEAKER: LEANA S. WEN, M.D. M.SC. FAAEM

As Baltimore City’s Commissioner of Health, Dr. Leana Wen leads the oldest, continuously-operating health department in the U.S., founded in 1793, with 1,000 employees committed to improving well-being and combatting disparities.

Facing an unprecedented number of people dying from opioid overdose, Dr. Wen issued a blanket prescription for the opioid antidote, naloxone, to all 620,000 residents of Baltimore. Since 2015, this program has saved over 1,700 lives. Dr. Wen has testified in front of the U.S. Senate and House on Baltimore’s efforts to combat the opioid epidemic, and has spoken on panels with President Obama and President Clinton about treating addiction as a public health crisis.

Under her direction, the Baltimore City Health Department leads the country in health innovations, including: B’More for Healthy Babies, a collective impact strategy resulting in a 38% reduction in infant mortality in just 7 years; Vision for Baltimore, an initiative to provide glasses to every child who needs them; Safe Streets, a program to engage returning citizens and hospitals in treating gun violence as a contagious disease; and Healthy Baltimore 2020, a blueprint for health and well-being that enlists all sectors to achieve the ambitious goal of cutting disparities in half in 10 years.

Dr. Wen is a board-certified emergency physician who received her medical training at Washington University School of Medicine and her completed residency at Brigham & Women’s Hospital and Massachusetts General Hospital. She was a Rhodes Scholar, a Clinical Fellow at Harvard, a consultant with the World Health Organization, and, until her appointment in Baltimore, a professor and Director of Patient-Centered Care Research at George Washington University.

She is the author of the book, *When Doctors Don’t Listen*; a TED speaker; and is regularly featured on NPR, CNN, New York Times, Washington Post, and USA Today. The Daily Record named her as one of the 100 most influential Marylanders and Modern Healthcare called her one of the country’s 50 most influential physician-executives. In 2016, Dr. Wen was honored to be the recipient of the American Public Health Association’s highest award for local public health work, the Milton and Ruth Roemer Award. In 2017, she was named one of Governing’s Public Officials of the Year.
Clinical Center (CC)

1-AM. Catherine Bradley  
*Effect of Reward on Implicit Learning in Children and Adolescents with and without Cerebral Palsy*  
Wake Forest University (North Carolina)  
Preceptors: Dr. Diane Damiano, Mr. Jesse Matsubara

2-AM. Kevin George  
*Comparing Upper Extremity Coordination in Children with and without Cerebral Palsy*  
Washington University in St. Louis (Missouri)  
Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

3-AM. Jamil Hashmi  
*Creating a Guideline for Standardized Functional Language: Manual Annotation and Extraction of Mobility Information from Medical Records*  
Georgetown University (District of Columbia)  
Preceptors: Dr. Elizabeth Rasch, Ms. Julia Porcino

4-AM. Jon Hochstein  
*Development of Control Strategies for a Portable Pediatric Robotic Exoskeleton*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Thomas Bulea, Dr. Diane Damiano

5-AM. Rahul Jayakrishnan  
*Revisiting the Association of HLA Alleles and Haplotypes with CYP21A2 Mutations in a Large Cohort of Patients with Congenital Adrenal Hyperplasia*  
University of Chicago (Illinois)  
Preceptors: Dr. Deborah Merke, Dr. Qizong Lao

6-AM. Annie-Lori Joseph  
*Functional Connectivity in TBI Patients with Comorbid PTSD or Depression: A Pilot Study*  
Wake Forest University (North Carolina)  
Preceptor: Dr. Leighton Chan

7-AM. Christina Kim  
*Design of an Embedded Electronics System for a Portable Pediatric Exoskeleton*  
University of Rochester (New York)  
Preceptors: Dr. Ji Chen, Dr. Diane Damiano
8-AM. Hannah Kim
Screening for Tenascin-X Deficiency among Patients with Congenital Adrenal Hyperplasia via Enzyme-Linked Immunosorbent Assay
Duke University (North Carolina)
Preceptors: Dr. Vipula Kolli, Dr. Deborah Merke

9-AM. Burk Loeliger
Effect of Computed Tomography on Differentiation of Human Embryonic Stem Cells into Neural Progenitors
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Igor Panyutin, Dr. Ronald Neumann

10-AM. Kira Lokhmatova
Do Aromatase Inhibitors Affect Vertebral Morphology? A Follow-Up Study of Patients with Congenital Adrenal Hyperplasia Treated with Aromatase Inhibitors during Childhood
University of Washington (Washington)
Preceptors: Dr. Deborah Merke, Dr. Ashwini Mallappa

11-AM. Rebecca Lorsung
Intracellular Calcium Signaling during Pulsed Focused Ultrasound Sonication Is Initiated by Mechanically-activated TRPC1 Sodium Currents
University of Minnesota: Twin Cities (Minnesota)
Preceptors: Dr. Scott Burks, Dr. Joseph Frank

12-AM. Amelia Loydpierson
Transcriptomic Profiling and Pharmacologic Targeting of Nociceptive Circuit Neurons
Kenyon College (Ohio)
Preceptor: Dr. Andrew Mannes

13-AM. María José Luna
HEALS: A Novel Psychometric for Psycho-Social-Spiritual Healing
McGill University (Non-U.S.)
Preceptors: Dr. Ann Berger, Dr. Rezvan Ameli

14-AM. Aron Mebrahtu
Presentation of Gait Parameters and Motor Function in Children with Giant Axonal Neuropathy
Clemson University (South Carolina)
Preceptors: Dr. Mina Jain, - Jesse Matsubara

15-AM. Chase Morgan
IQGAP Proteins Do Not Regulate MAPK Signaling through Direct Interaction with Ras
Columbia University (New York)
Preceptors: Dr. Andrew Hedman, Dr. David Sacks
16-AM. Sarah Mudra  
*Longitudinal Investigation of the Gut Microbiome in Patients Entering an Inpatient Alcohol Detoxification Treatment Program: A Preliminary Analysis*  
Wheaton College (Illinois)  
Preceptor: Dr. Nancy Ames

17-AM. Avery Perez  
*Health-promoting Behaviors in Cancer Caregivers*  
Ursinus College (Pennsylvania)  
Preceptor: Dr. Alyson Ross

18-AM. Luis Perez Valencia  
*Ebola Virus Glycoprotein Induces Leukocyte Death*  
Connecticut College (Connecticut)  
Preceptors: Dr. Kevin Vannella, Dr. Daniel Chertow

19-AM. Jenna Pollock  
*Application of the Model of Uncertainty-driven Employment Decisions: Study of Patients with Erdheim-Chester Disease (ECD) Under Differing Medication Conditions*  
Clemson University (South Carolina)  
Preceptor: Dr. Susan Robertson

20-AM. Shravya Raju  
*Sleep Quality as a Correlate of Relapse after an Inpatient Alcohol Treatment Program*  
Scripps College (California)  
Preceptor: Dr. Alyssa Brooks

21-AM. Gabrielle Reimann  
*Psychosocial Characteristics of Women with a Delayed Diagnosis of Turner Syndrome*  
James Madison University (Virginia)  
Preceptors: Dr. Martha Bernad Perman, - Leora Comis

22-AM. Theresa Rizk  
*The Evolution of Microbleeds in Traumatic Brain Injury*  
Harvard University (Massachusetts)  
Preceptors: Dr. Leighton Chan, Dr. Lawrence Latour

23-AM. Michele Ryan  
*The Effect of Ionizing Radiation on Human Embryonic Stem Cells and Their Competition with Non-irradiated Cells*  
Loyola University Maryland (Maryland)  
Preceptor: Dr. Irina Panyutin
24-AM. William Schreiber-Stainthorp
*Brain 18F-FDG PET of SIV-Infected Macaques after Treatment Interruption or Initiation*
Trinity College (Connecticut)
Preceptor: Dr. Dima Hammoud

25-AM. Vincent Shieh
*Validity and Clinical Utility of the Adult Myopathy Assessment Tool in GNE Myopathy*
University of Chicago (Illinois)
Preceptors: Mr. Joseph Shrader, Dr. Cris Zampieri

26-AM. Hannah Tandon
*Botulinum Toxin Treatment of Endometriosis-associated Chronic Pelvic Pain*
Amherst College (Massachusetts)
Preceptors: Dr. Jay Shah, Dr. Pamela Stratton

27-AM. Wanying Xu
B. anthracis *Lethal Toxin Increases Pulmonary Vascular Permeability and Resistance while Edema Toxin Negates the Resistance but not Permeability Changes in an Isolated Perfused Rat Lung Model*
Wake Forest University (North Carolina)
Preceptors: Dr. Peter Eichacker, Dr. Xizhong Cui

28-AM. Robert Zhu
*Deep Learning for Segmentation of the Lung in cine-MRI*
Northwestern University (Illinois)
Preceptor: Dr. Jack Yao

National Center for Advancing Translational Sciences (NCATS)

29-AM. Rosita Asawa
*Optimization of High-throughput Cellular Thermal Shift Assay (CETSA) Using Split Nano Luciferase*
Franciscan University of Steubenville (Ohio)
Preceptors: Dr. Natalia Martinez, Dr. Mark Henderson

30-AM. Amanda Baskfield
*Stem Cell-derived Hepatocytes for Disease Modeling of Niemann-Pick Disease Type B*
Ball State University (Indiana)
Preceptors: Dr. Rong Li, Dr. Wei Zheng
31-AM. Carina Danchik
SERCaMP: A Target Agnostic Approach for Identifying Modulators of ER Calcium
Franciscan University of Steubenville (Ohio)
Preceptor: Dr. Mark Henderson

32-AM. Mica Dashnyam
Therapeutic Targeting of Lineage-defining Transcription Factor T-bet to Limit Autoimmune Diseases
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Anju Singh, Dr. Suveena Sharma

33-AM. Richard Fisher
One Pot, Three-step Synthesis of Benzo[h][1,6]naphthyridin-2(1H)-ones with Alkyl Amines
George Washington University (District of Columbia)
Preceptors: Dr. Wenwei Huang, Dr. Hao Li

34-AM. Md Kabir
Understanding Important Role of CYP3A7 in Drug Metabolism to Advance Fetal and Neonatal Drug Development
City College of New York (New York)
Preceptors: Dr. Xin Xu, Dr. Pranav Shah

35-AM. Sara Kearney
Development of Small Molecule Modulators of TorsinA Protein for the Treatment of DYT1 Dystonia
Wheaton College, IL (Illinois)
Preceptor: Dr. Jason Rohde

36-AM. Kylie Konrath
UPLC-MS/MS Method Development and Pharmacokinetics of Hydroxynorketamines in Mice
University of Portland (Oregon)
Preceptor: Dr. Amy Wang

37-AM. Tobie Lee, Olivia Lee
A High-throughput Screen of an Annotated Small Molecule Library Identifies Substrates of P-Glycoprotein
Washington University in St. Louis (Missouri), Georgia Institute of Technology (Georgia)
Preceptor: Dr. Matthew Hall

38-AM. Isabelle Leibler
Characterization of Ipglyceramide Cyclic Peptide Analogs by Nuclear Magnetic Resonance Spectroscopy
Middlebury College (Vermont)
39-AM. Billy Lu  
*Development of High-throughput Screening Assay for Zika Virus NS5 RNA Polymerase*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Wei Zheng

40-AM. Manisha Pradhan  
*The Use of Mirrorball Technology to Conduct High-Throughput Screening on Cell-Based Fluorescence Assay*  
Marymount University (Virginia)  
Preceptor: Dr. Kirill Gorshkov

41-AM. Michael Ronzetti  
*Binding Studies of an in silico Optimized Peptide to CD206*  
The University of Michigan (Michigan)  
Preceptors: Dr. Bolormaa Baljinnyam, Dr. Udo Rudloff

42-AM. Jacob Roth  
*Integration of Biotherapeutics in Combination Screening with Small Molecule Libraries*  
Goshen College (Indiana)  
Preceptors: Dr. Matthew Hall, Dr. Daniel Urban

43-AM. Patrick Sutter  
*Discovery and SAR of Dual IRAK4/FLT3 Kinase Inhibitors for the Treatment of MDS and AML*  
Franciscan University (Ohio)  
Preceptor: Dr. Scott Hoyt

**National Center for Complementary and Integrative Health (NCCIH)**

44-AM. Cortney Dable  
*Brain Responses to Noxious Stimuli in a Pain-insensitive Patient: A Case Study*  
Duke University (North Carolina)  
Preceptors: Dr. Eleni Frangos, Dr. M. Catherine Bushnell

45-AM. Taylor Gordon  
*Functional Characterization of Sensory Neurons in the Trigeminal Ganglia Using in vivo Calcium Imaging*  
George Mason University (Virginia)  
Preceptors: Dr. Marcin Szczot, Dr. Alexander Chesler
46-AM. Aleisha Khan  
*Electrophysiological Characterization of Genetically Distinct Central Amygdala Neurons*  
Duke University (North Carolina)  
Preceptor: Dr. Yarimar Carrasquillo

47-AM. Aaron Necaise  
*Pupillary Responses to Transcutaneous Vagus Nerve Stimulation*  
University of Central Florida (Florida)  
Preceptors: Dr. Eleni Frangos, Dr. M. Catherine Bushnell

48-AM. Olga Oretsky  
*Do Depressive Symptoms Affect Pain Perception and Expectation?*  
University of Pennsylvania (Pennsylvania)  
Preceptors: Dr. Elizabeth Necka, Dr. Lauren Atlas

49-AM. Mathew Seltzer  
*Brainstem-Spinal Cord Circuits in Nocifensive Behaviors*  
St. Mary's College of Maryland (Maryland)  
Preceptors: Dr. Arnab Barik, Dr. Alexander Chesler

50-AM. Justin Tubbs  
*Probing the Role of Large Myelinated Fibers in Deep Pressure Sensation*  
Virginia Commonwealth University (Virginia)  
Preceptors: Dr. Laura Case, Dr. M. Catherine Bushnell

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

51-AM. Nicholas Aboreden  
*Using Functional Genetic Approaches to Create a Novel Screening System in Ewing’s Sarcoma.*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Natasha Caplen, Dr. Allison Cross

52-AM. Ben Akman  
*Mapping the Interactions of BRD4 and Myc*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Dinah Singer, Dr. Amit Singh

53-AM. Anne Albright  
*Characterization of the Unique Cues That Support Lymphomagenesis within Mesenteric Lymph Nodes*  
University of Chicago (Illinois)
Preceptor: Dr. Jagan Muppidi

54-AM. Farrah Alkhaleel
*The Role of B7-CD28 and CD40L-CD40 Costimulatory Signaling in Thymic Invariant NKT Cell Subset Development*
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Richard Hodes, Dr. Masashi Watanabe

55-AM. Elvira An
*TNIK Represents a Novel Therapeutic Target in Lung Squamous Cell Carcinoma*
University of North Carolina at Charlotte (North Carolina)
Preceptors: Dr. John Brognard, Dr. Pedro Torres-Ayuso

56-AM. Joseph An
*Murine ATM-Deficient Thymic Lymphomas Require CD3ε Expression for Their Generation and Survival: A Potential Model for Human T-ALL*
Georgetown University (District of Columbia)
Preceptors: Ms. Karen Hathcock, Dr. Richard Hodes

57-AM. Nima Assad
*Cooperative Binding of GABPA and CREB1 to Variants of the Composite ETS-CRE Motif Using Custom Protein Binding Microarrays*
University of California, San Diego (California)
Preceptor: Dr. Charles Vinson

58-AM. Peter Azorsa
*Effective Targeting of Rhabdomyosarcoma Using an Antibody Drug-Conjugate against FGFR4*
University of Arizona (Arizona)
Preceptors: Dr. Javed Khan, Dr. Adam Cheuk

59-AM. Sukriti Bagchi
*Super-enhancer Analysis in High-Risk Neuroblastoma Reveals Key Master Regulators of Self-renewal and Differentiation*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Deblina Banerjee

60-AM. George Baker
*Transforming Growth Factor-beta (TGF-β) Effects on Cancer Stem Cells in Advanced Metastatic Breast Cancer*
Northwestern University (Illinois)
Preceptor: Dr. Lalage Wakefield
61-AM. Alexis Barfield  
*Detection of Microsatellite Instability of Prostate Cancer Exosomes*  
Elizabeth City State University (North Carolina)  
Preceptors: Dr. Jennifer Jones, Dr. Joshua Welsh

62-AM. Adrian Baris  
*Sirt1 Protects the Genome by Preventing Excess Replication Initiation*  
Scripps College (California)  
Preceptors: Dr. Haiqing Fu, Dr. Mirit Aladjem

63-AM. Kurt Berckmueller  
*A Novel Activation Induced Marker Assay for Precise Recognition of Antigen Specific CD8 T-Cells*  
College of William and Mary (Virginia)  
Preceptor: Dr. Jay Berzofsky

64-AM. Sarah Bergholtz  
*Chemoproteomic Profiling of the Oncometabolite Fumarate*  
University of Michigan (Michigan)  
Preceptor: Dr. Jordan Meier

65-AM. Kylie Borden  
*The Role of a Peptidoglycan Recycling Enzyme in the Regulation of RpoS*  
Southwestern University (Texas)  
Preceptors: Dr. Susan Gottesman, Dr. Arti Tripathi

66-AM. Matthew Bowler  
*3D STORM/EM Analysis of the Centriole Distal Appendages*  
Salisbury University (Maryland)  
Preceptors: Dr. Jadranka Loncarek, Dr. Stephen Lockett

67-AM. Quinton Brail  
*CPF1 CRISPR-mediated Mutagenesis of m6A Reader Proteins*  
University of California, Berkeley (California)  
Preceptor: Dr. Pedro Batista

68-AM. Ethan Brill  
*Prexasertib, a Cell Cycle Checkpoint Kinase 1/2 Inhibitor, in Combination with PI3K Inhibition Causes Synergistic Cytotoxicity in High-grade Serous Ovarian Cancer at Clinically Attainable Concentrations*  
Yale College (Connecticut)  
Preceptors: Dr. Jung-Min Lee, Dr. Tzu-ting Huang
69-AM. Chloe Briney
Fluorescent Probes for Imaging and Profiling of the Oncometabolite Fumarate
Grinnell College (Iowa)
Preceptor: Dr. Jordan Meier

70-AM. Grace Bugos
Characterization of the Role of Grb2-Recruited Effector Proteins in the Formation of TCR Signaling Microclusters
Case Western Reserve University (Ohio)
Preceptors: Dr. Lawrence Samelson, Dr. Ana Dios Esponera

71-AM. Hannah Burr
Real-Time Mapping of Zebrafish Brain Mechanics in vivo
McGill University (Non-U.S.)
Preceptor: Dr. Kandice Tanner

72-AM. Adrian Carcamo
High-throughput RNA FISH Imaging
University of Chicago (Illinois)
Preceptor: Dr. Gianluca Pegoraro

73-AM. Nicole Carrabba
Immunohistochemical Analysis of High Risk Prostate Cancer before and after Treatment with Neoadjuvant Intense Androgen Deprivation Therapy
University of Texas at Austin (Texas)
Preceptors: Dr. Adam Sowalsky, Dr. Scott Wilkinson

74-AM. Hannah Carter
Cell-type Dependent Utilization of FIP1C for HIV-1 Envelope Glycoprotein Incorporation into Virions
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Melissa Fernandez, Dr. Eric Freed

75-AM. Carissa Chan
An Uncharacterized Quality Control Pathway Mediating Bacterial Morphogenesis
University of California, Los Angeles (California)
Preceptors: Dr. Kumaran Ramamurthi, Dr. Thomas Delerue

76-AM. Megan Chen
Establishment of a Drug Screen to Repurpose Drugs to Target the Induction of DNMT3B
Rutgers University (New Jersey)
Preceptor: Dr. Li Yang
77-AM. Steven Chen  
_The Role of Primary Health Workers in Cervical Cancer Control: Lessons from India_  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Paul Pearlman

78-AM. George Chrisafis  
_Polarized RNA Distribution in Invading 3-Dimensional Cancer Spheroids_  
University of Vermont (Vermont)  
Preceptor: Dr. Stavroula Mili

79-AM. Susan Dang  
_Centriole Structure: Redefining the Resolution of Widefield Imaging with Expansion Microscopy_  
University of California, Santa Barbara (California)  
Preceptor: Dr. Jadranka Loncarek

80-AM. Kayla Dinshaw  
_Mechanisms of Chloride Intracellular Channel 4 (CLIC4) Nuclear Exclusion in Neoplastic Keratinocytes_  
University of Michigan (Michigan)  
Preceptors: Dr. Brandi Carofino, Dr. Stuart Yuspa

81-AM. Kwame Donkor  
_Investigation of U2 snRNP Spliceosomal Components in EWS-FLI1 mRNA Processing_  
Tufts University (Massachusetts)  
Preceptors: Dr. Natasha Caplen, Dr. Carla Neckles

82-AM. Salma El-Behaedi  
_Mesothelin Targeting Immunotoxin LMB-100 Alters the Profile of Tumor-secreted Proteins_  
University of North Carolina at Wilmington (North Carolina)  
Preceptor: Dr. Christine Alewine

83-AM. Srilakshmi Garikapati  
_Identifying Residues Involved in the Direct Interaction between the Hsp90 and Hsp70 Molecular Chaperones of E. coli_  
Hofstra University (New York)  
Preceptors: Dr. Shannon Doyle, Dr. Sue Wickner

84-AM. Anna Gibson  
_Nicotinamide Phosphoribosyltransferase (NAMPT) as a Target in Ewing Sarcoma_  
Virginia Polytechnic Institute and State University (Virginia)  
Preceptor: Dr. Christine Heske
85-AM. Caroline Gilmore
*NOS2 Modulates Hypoxic Gradients in the Tumor Microenvironment: An in vitro Model*
University of Richmond (Virginia)
Preceptors: Dr. Will Heinz, Dr. Veena Somasundaram

86-AM. Stefano Ginocchio
*Structure-Activity Relationship of Raloxifene Analogs as Potential Hepatitis B Virus Therapeutics, through Targeting of Encapsidation Signal, Epsilon, of Viral Pre-genomic RNA*
University of California, Davis (California)
Preceptors: Dr. Fardokht Abulwerdi, Dr. Stuart LeGrice

87-AM. Sofia Girald-Berlingeri
*Arf GAP, ASAP1, Regulates Signaling Related to Proliferation and Differentiation in Rhabdomyosarcoma.*
University of Puerto Rico at Cayey (Puerto Rico)
Preceptors: Dr. Paul Randazzo, Dr. Marielle Yohe

88-AM. Daniel Gorelik
*Assessment of Minimal Residual Disease in Patients with Hairy Cell Leukemia: Results from Phase I and III Trials of Anti-CD22 Recombinant Immunotoxin Moxetumomab Pasudotox*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Robert Kreitman, Dr. Evgeny Arons

89-AM. Lilly Gu
*Using Massively Parallel Reporter Assay (MPRA) to Screen for Functional Variants at Pancreatic Cancer GWAS Risk Loci*
Duke University (North Carolina)
Preceptors: Dr. Laufey Amundadottir, Dr. Ashley Jermusyk

90-AM. Sabina Gudmundsson
*Mycoplasma pulmonis as a Model Organism for the Study of Bacterial Histone-like Protein HU and Its Role in Genome Organization and Gene Expression*
Lehigh University (Pennsylvania)
Preceptors: Dr. Subhash Verma, Dr. Sankar Adhya

91-AM. Sean Hennigan
*Development of an Allele-specific Assay for Detecting Circulating Tumor DNA*
Endicott College (Massachusetts)
Preceptor: Dr. Adam Sowalsky
92-AM. Alyssa Indart  
*Identifying the Cellular Source of IL-2 and the Regulation of IL-2 Gene Expression in the Thymus*  
Columbia University (New York)  
Preceptors: Dr. Alfred Singer, Dr. Xuguang Tai

93-AM. Tianbo Jiang  
*Exploring the Efficacy of Beta-Mannosylceramide Analogs in NKT Cell Dependent Tumor Immunity*  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Masaki Terabe

94-AM. Sara Journey  
*Identification of Drug Like Small Molecules that Bind to the Promoter Region of the HRAS Oncogene*  
San Diego State University (California)  
Preceptor: Dr. Jay Schneekloth

95-AM. Devin Kenney  
*Identification of Regulatory Elements Controlling TCF-1 Expression in ILC and T Cells*  
Bridgewater State University (Massachusetts)  
Preceptor: Dr. Avinash Bhandoola

96-AM. Julia Kepley  
*Development of an Extracellular Vesicle (EV) Analysis Pipeline for Clinical Samples*  
Towson University (Maryland)  
Preceptors: Dr. Jennifer Jones, Dr. Joshua Welsh

97-AM. Sophia Khan  
*Mechanisms of Resistance to RET-targeting Tyrosine Kinase Inhibitors in Medullary Thyroid Carcinoma*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. John Glod, Dr. Brigitte Widemann

98-AM. Priyenka Khatiwada  
*Yeast Two Hybrid Screening for Kinetochore Protein-Protein Interactions*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Alex Kelly

99-AM. Ghanwa Khawaja  
*A Novel DNA Methyltransferase Inhibitor Is Effective in an in vivo Model of Myelodysplastic Syndrome (MDS)*  
Rutgers University (New Jersey)
100-AM. Kelsey Kines
Modifying Cancer Cell Radiation Response via Targeting Pyruvate-associated Metabolic Pathways
University of Richmond (Virginia)
Preceptor: Dr. Aparna Kesarwala

101-AM. Emily King
Mesothelin-targeted Immunotoxins Synergize with Anti-CTLA4 Checkpoint Blockade to Eradicate Tumors and Induce Anti-tumor Immunity in Murine Models
Bowdoin College (Maine)
Preceptor: Dr. Ira Pastan

102-AM. Serena Korkmaz
Conditional Expression of Endogenous HRASG12D and KRASG12D Alleles in Primary Keratinocytes Reveals a Dose Dependent Requirement for Tumor Formation
University of Illinois at Chicago (Illinois)
Preceptors: Dr. Christophe Cataisson, Dr. Luowei Li

103-AM. Joshua Kowalczyk
Defining the Mechanism of Action of Rigosertib in Pediatric Cancers
Liberty University (Virginia)
Preceptor: Dr. Marielle Yohe

104-AM. Stacey Krepel
Investigation of the Potential Role of Formyl-Peptide Receptors in the Development of Colon Crypt Organoids
University of Alaska Fairbanks (Alaska)
Preceptor: Dr. Ji Ming Wang

105-AM. Neal Lacey
The miR-155 SNP H4 Potentiates the Antitumor Activity of Human CD8 T Cells
New College of Florida (Florida)
Preceptors: Dr. Luca Gattinoni, Dr. Yun Ji

106-AM. Khiem Lam
Impact of Microbiota Derived Metabolites on the Tumor Microenvironment
Oregon State University (Oregon)
Preceptor: Dr. Romina Goldszmid
107-AM. Madeline Larkin  
Iron Homeostasis Regulates Facultative Heterochromatin Assembly in Adaptive Genome Control  
Pomona College (California)  
Preceptor: Dr. Shiv Grewal

108-AM. Roger Liang  
Novel Kinase MAP3K19 Activates the MAPK Pathway and May Be a Mechanism of Resistance in BRAFV600E Melanoma  
Rice University (Texas)  
Preceptors: Dr. Pedro Torres-Ayuso, Dr. John Brognard

109-AM. Yi Liu  
Global Genetics and Genomics Community: Online Interactive Simulated Patient Cases  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Kathleen Calzone, Ms. Grace-Ann Fasaye

110-AM. Tiffany Loo  
Transcription Factor T-bet Drives the Pathogenesis of Th17-Mediated Neuroinflammation  
University of Michigan (Michigan)  
Preceptor: Dr. Vanja Lazarevic

111-AM. Gaelyn Lyons  
Changes to the Human Mitochondrial Proteome Following Knockdown of ClpP or ClpX  
Eastern University (Pennsylvania)  
Preceptor: Dr. Lisa Jenkins

112-AM. Bridget Marcinkowski  
Analysis of the Cross-reactivity of a Novel KK-LC-1-Targeting T Cell Receptor  
Virginia Polytechnic Institute and State University (Virginia)  
Preceptor: Dr. Christian Hinrichs

113-AM. Aislinn McMillan  
Understanding the Immunological Origins of Anti-cancer Antibodies to Lewis Y  
Northwestern University (Illinois)  
Preceptor: Dr. Jeffrey Gildersleeve

114-AM. Caitlin Meeks  
Profiling of the Blood-Brain Barrier in Glioblastoma  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Sadhana Jackson
115-AM. Michael Mobaraki
*Investigating a Transcriptional Network of Pancreatic Homeostasis Genes*
Catholic University of America (District of Columbia)
Preceptors: Dr. Jason Hoskins, Dr. Laufey Amundadottir

116-AM. Zuena Mushtaq
*Towards Synergy in a Combined Vaccine/Microbicide Strategy: Induction of Mucosal Responses*
Arizona State University (Arizona)
Preceptor: Dr. Marjorie Robert-Guroff

117-AM. Susana Najera
*Combined HSP90 and TOP2A Inhibition in Multiple Myeloma*
San Diego State University (California)
Preceptors: Dr. Snehal Gaikwad, Dr. Tyler Peat

118-AM. Jenny Nathans
*Dormancy or Divide: A Live Cell Approach to Tracking Cell Fate*
Yale University (Connecticut)
Preceptor: Dr. Steven Cappell

119-AM. Julie Nyman
*Targeting RNA Motifs with Small Molecule Microarray Hits: A Molecular Dynamics and Computational Analysis*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Regan Leblanc

120-AM. Humberto J. Ochoa
*Novel Tumor Suppressor role of PADI4 Involves CSC Regulation in Breast Cancer Model*
Colgate University (New York)
Preceptors: Dr. Lalage Wakefield, Dr. Nellie Moshkovich

121-AM. Arman Odabas
*Cerebrospinal Fluid Penetration of Pexidartinib (PLX3397), a CSF1R Inhibitor, in a Nonhuman Primate Model*
Princeton University (New Jersey)
Preceptors: Dr. Cody Peer, Dr. Katherine Warren

122-AM. Akosua Osei-Tutu
*Elucidating the Immune Environment of Mouse Ovaries*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Christina Annunziata, Dr. Daniel Green
123-AM. Michelle Ozaki  
*Targeting the NF-κB Pathway to Inhibit Ovarian Cancer Tumor-initiating Cells*  
Scripps College (California)  
Preceptors: Dr. Christina Annunziata, Dr. Carrie House

124-AM. Ruchi Patel  
*Combination of the Histone Deacetylase Inhibitor Romidepsin and the Dual PI3K/BRD4 Inhibitor SF2523 Is Effective in KRAS-Mutant Models of Rhabdomyosarcoma*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Robert Robey, Dr. Michael Gottesman

125-AM. Shil Patel  
*Mesenchymal Stem Cells Promote Disseminated Tumor Cell Break in Dormancy*  
University of Pittsburgh (Pennsylvania)  
Preceptors: Dr. Meera Murgai, Dr. Rosandra Kaplan

126-AM. Emily Peluso  
*Single Molecule Analysis of the Localization and Assembly of a Bacterial Supramolecular Structure*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptors: Dr. Kumaran Ramamurthi, Dr. Jiji Chen

127-AM. Phuong Pham  
*Progress in Developing Broadly Active and Highly Potent HIV-1 Maturation Inhibitors*  
Macalester College (Minnesota)  
Preceptor: Dr. Eric Freed

128-AM. Zaw Phyo, Daniel Connors  
*Cell Death Mechanism of a Novel Drug Targeting the Human MYC G-Quadruplex (G4)*  
University of California, Los Angeles (California); State University of New York at Geneseo (New York)  
Preceptor: Dr. Beverly Mock

129-AM. Anusha Ponduri  
*Expansion and Persistence of CD22-targeted Chimeric Antigen Receptor T-Cells in a Phase I Clinical Trial*  
Columbia University (New York)  
Preceptors: Dr. Nirali Shah, Ms. Haiying Qin
130-AM. Jennifer Pugh
Use of Hierarchical Clustering and Principal Component Analysis for Deep Phenotyping of Patients with Mutations in XPD (ERCC2): Trichothiodystrophy (TTD), Xeroderma Pigmentosum (XP) and XP/TTD
Spelman College (Georgia)
Preceptor: Dr. Kenneth Kraemer

131-AM. Azhar Ravji
SV-5-153, a Benchmark for TDP2 Inhibitors.
St. Mary’s College of Maryland (Maryland)
Preceptor: Dr. Evgeny Kiselev

132-AM. Raud Razzaghi
MyD88 L265P Promotes B Cell Survival in Spontaneous Splenic Germinal Centers
Arizona State University (Arizona)
Preceptor: Dr. Jagan Muppidi

133-AM. Andrea Robinson
Co-Expression of ABCB1 and ABCG2 Reveals Compensatory Transporter Function
University of North Texas (Texas)
Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

134-AM. Uriel Rose
Role of Gut/Lung Microbiota in Primary Lung Cancer Initiation and Progression
Alabama State University (Alabama)
Preceptor: Dr. Marie Vetizou

135-AM. Austin Rossi
Mislocalization of Centromeric Histone H3 Variant CENP-A Contributes to Chromosomal Instability (CIN) in Human Cells
Birmingham-Southern College (Alabama)
Preceptors: Dr. Munira Basrai, Dr. Roshan Shrestha

136-AM. Natalia Salinas Parra
Testing PDE Inhibitors in Basal Cell Carcinoma Treatment
Yale University (Connecticut)
Preceptor: Dr. Ramiro Iglesias-Bartolome

137-AM. Alex Schmiechen
The Impact of Mis-regulated Metabolism on Post Transcriptional m6A RNA Modifications
Grinnell College (Iowa)
Preceptor: Dr. Pedro Batista
138-AM. Zoe Shancer
Recombinant Immunotoxins Targeting B-Cell Maturation Antigen for the Treatment of Multiple Myeloma
Vanderbilt University (Tennessee)
Preceptors: Dr. Ira Pastan, Dr. Tapan Bera

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

140-AM. Alexandra Stream
Pomalidomide Restores Immune Recognition in HTLV-1 and EBV Infected Cells by Upregulating Natural Killer Cell Ligands
University of California, Los Angeles (California)
Preceptors: Dr. David Davis, Dr. Robert Yarchoan

141-AM. Michael Stueland
Exploiting an RNA Motif to Understand the Functions of APC-Dependent mRNAs
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Stavroula Mili

142-AM. Megan Tigue
HSP90 Inhibitors Disrupt a Transient HSP90-HSF1 Interaction and Identify a Noncanonical Model of HSP90-Mediated HSF1 Regulation
Colgate University (New York)
Preceptor: Mrs. Kristin Beebe

143-AM. Edmundo J Torres González
Affordable HPV Screening for Communities That Lack Cervical Cancer Prevention: HybriBio H13 Compared to Qiagen Hybrid Capture 2
University of Puerto Rico at Mayaguez (Puerto Rico)
Preceptor: Dr. Michael Dean

144-AM. Zachary Torrey
Binding and Inhibition of NRAS mRNA with Druglike Small Molecules
George Mason University (Virginia)
Preceptor: Dr. John Schneekloth

145-AM. Akriti Trehan
Acidovorax Temperans Is a Key Component of Lung Microbiome in Lung Cancer
Georgetown University (District of Columbia)
Preceptors: Dr. Ana Robles, Dr. Tomer Cooks
146-AM. Andrew Trexler
2,4,6-Tribromophenol Decreases P-Glycoprotein and BCRP Function in Rat Brain Microvessels
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Ronald Cannon, Dr. Linda Birnbaum

147-AM. Josh Turek-Herman
Visualizing E. coli Transcriptional Regulatory Signals and Errors in vivo
Swarthmore College (Pennsylvania)
Preceptors: Dr. Maria Kireeva, Dr. Mikhail Kashlev

148-AM. Aniekanabasi Ufot
The bZIP Mutant CEBPB(V285A) Elicits DNA Binding Propensities Similar to CREB1
University of Maryland, College Park (Maryland)
Preceptor: Dr. Charles Vinson

149-AM. Racquel Valadez
Interplay of Various Cytokines and Immune Cells in Kikuchi Fujimoto Disease
University of Colorado at Colorado Springs (Colorado)
Preceptor: Dr. Stefania Pittaluga

150-AM. Prasantha Vemu
Comparing Amplification of 12q13-q14 and 12q15 Chromosomal Regions across Cancer Types through Genomic and Transcriptome Analysis
University of California, San Diego (California)
Preceptors: Dr. Frederic Barr, Dr. Wenyue Sun

151-AM. Nicholas Verdini
Construction of a Tet-Regulatable IL7Rα Targeted CAR T-Cell for Treatment of ALL
Emmanuel College (Massachusetts)
Preceptor: Dr. Terry Fry

152-AM. Giselle Wallace
Adaptive focused Acoustics-based Microbiome Lysis for Unbiased Community Representation in NGS Data
Georgetown University (District of Columbia)
Preceptor: Dr. Shurjo Sen

153-AM. Theresa Wechsler
Targeting Ribosome Biogenesis in the Tumor Cell Radioresponse
Scripps College (California)
Preceptor: Dr. Philip Tofilon
154-AM. Max Weiss
*Characterizing the Spatial and Temporal Organization of Cytoskeletal Proteins on Large Secretory Granules in vivo*
University of Michigan (Michigan)
Preceptors: Dr. Seham Ebrahim, Dr. Roberto Weigert

155-AM. Jessica Welch
*Smoking Status Moderates Associations among Nicotine Beliefs and Willingness to Try Tobacco Products Advertised as Less Harmful and Less Addictive*
Grand Valley State University (Michigan)
Preceptor: Dr. Rebecca Ferrer

156-AM. Nicole Welch
*Adomaviruses: Putative New Virus Family Provides Insights into dsDNA Virus Evolution*
University of Texas at Austin (Texas)
Preceptor: Dr. Chris Buck

157-AM. Donnell White
*Evaluating the Function of KIR2DL1 Antisense Transcript in Natural Killer Cells Using CRISPR/Cas9*
University of Arkansas at Monticello (Arkansas)
Preceptor: Dr. Stephen Anderson

158-AM. Andrew Wilbur
*Cryo-Electron Tomography of a Patient-Derived X4-Tropic HIV-1 Envelope Glycoprotein*
University of California, San Diego (California)
Preceptors: Dr. Sriram Subramaniam, Dr. Erin Tran

159-AM. Matthew Williams
*Targeting the Mesothelin Stalk in Recombinant Immunotoxin (RIT) and CAR T-Cell Formats*
Johns Hopkins University (Maryland)
Preceptor: Dr. Ira Pastan

160-AM. Heather Wojcik
*Factor It In: A New Approach to Modeling the Pediatric Cancer, Wilms Tumor, in Culture*
Rutgers University (New Jersey)
Preceptor: Dr. Alan Perantoni

161-AM. Kenneth Wong
*Elucidating the Molecular Mechanism of ROCK Inhibitor Y-27632 in Primary Mouse Keratinocytes*
University of the Sciences (Pennsylvania)
Preceptors: Dr. Stuart Yuspa, Dr. Luowei
162-AM. Diborah Yimer
The effect of Glycogag, Serinc5, and IFTIM proteins on Murine Leukemia Virus
Denison University (Ohio)
Preceptors: Dr. Yadvinder Ahi, Dr. Alan Rein

163-AM. Oliver Yockey
Inhibition of KPNβ1 Blocks Nuclear Translocation of N-Myc and Leads to Apoptosis of Neuroblastoma
Central Michigan University (Michigan)
Preceptors: Dr. Carol Thiele, Dr. Zhihui Liu

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

164-AM. Sonia Bhala
Central Nervous System Structural, Neurologic, and Psychiatric Consequences of Very Short Telomeres
Lafayette College (Pennsylvania)
Preceptor: Dr. Sharon Savage

165-AM. Seraph Han-Yin Lin
Alternative Splicing of APOBEC3A and APOBEC3B as an Intrinsic Regulatory Mechanism of APOBEC-induced Mutagenesis across Human Cancers
University of Maryland, College Park (Maryland)
Preceptors: Dr. Ludmila Prokunina-Olsson, Dr. Rouf Banday

166-AM. Lindsey Mehl
Functional Assessment of a Recurrent Mutation in the Promoter of KDM5A in Melanoma
Northwestern University (Illinois)
Preceptors: Dr. Kevin Brown, Dr. Mai Xu

167-AM. Joselin Vargas
Evaluation of the Functional Impact of Natural Protein-changing Polymorphisms of IFN-λ4 in Relation to Infection and Cancer
Stony Brook University (New York)
Preceptor: Dr. Ludmila Prokunina-Olsson

168-AM. Andrew Vu
Post-GWA Functional Studies Identified MX2 as a Potential Melanoma Susceptibility Gene
University of Michigan (Michigan)
Preceptor: Dr. Kevin Brown
169-AM. Mark Flage
A Novel Developmental Disorder Linked to UBA2: Implications for SUMOylation
Johns Hopkins University (Maryland)
Preceptor: Dr. Robert Hufnagel

170-AM. Rachel Furhang
Knockin of a Presumptive Missense Mutation in Mouse RPE65 Gene Manifests as a Splicing Defect to Cause Phenotypic Changes in Retina
City University of New York, College of Staten Island (New York)
Preceptors: Dr. Yan yan li1@nih.gov, Dr. Michael Redmond

171-AM. Madeline Kwicklis
Integration of Retinal RNA Expression and Genetic Data of Age-related Macular Degeneration Patients Refines Existing GWAS Findings and Indicates Novel Gene-Disease Associations
Cornell University (New York)
Preceptor: Dr. Rinki Ratna Priya

172-AM. Rebecca Lees
Behavioral Responses to Visual Stimuli in Brn3b Knockout Mice
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Tudor Badea

173-AM. Joshua Lerner
The Klotho-related Protein KLPH (Lctl) Has Preferred Expression in Lens and Is Essential for Expression of clic5 and Normal Lens Suture Formation
Tulane University (Louisiana)
Preceptor: Dr. Jianguo Fan

174-AM. Hannah Mast
A Retina-specific Isoform of Frmpd1 Is Regulated by Nrl and Crx in Rod Photoreceptors
University of Wisconsin - Madison (Wisconsin)
Preceptors: Dr. Christie Campla, Dr. Anand Swaroop

175-AM. Jacqueline Minehart
smORFs in Photoreceptors Lead to New Insights on Characterizing Non-coding RNA
Towson University (Maryland)
Preceptors: Dr. Lina Zelinger, Dr. Anand Swaroop
176-AM. Malika Nimmagadda
Investigating the Mechanisms of Late-onset Retinal Degeneration Using Patient Specific Induced Pluripotent Stem Cells
Vanderbilt University (Tennessee)
Preceptors: Dr. Kapil Bharti, Dr. Kiyoharu Miyagishima, Dr. Ruchi Sharma

177-AM. Ryan Rebernick
Reconfiguration of DNA Methylation during Aging in Rod Photoreceptors
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Ximena Corso-Diaz

178-AM. Francisca Wood, Claudia Kassouf
Global Computational Mutagenesis of Protein Domains Identifies Residues Critical for Multi-domain Protein Stability
George Mason University (Virginia), University of Michigan (Michigan)
Preceptor: Dr. Yuri Sergeev

179-AM. Kenneth Young II
In vitro Characterization of Recombinant Human Tyrosinase & Tyrosinase Related Protein 1 Intra-Melanosomal Domains
Georgetown University (District of Columbia)
Preceptors: Dr. Yuri Sergeev, Dr. Monika Dolinska

National Heart, Lung, and Blood Institute (NHLBI)

180-AM. Mohsin Ahmad
Mutations in Non-muscle Myosin 2A Disrupt Sertoli Cell Junctions Resulting in Infertility in Mouse Models of MYH9-Related Disease
Wake Forest University (North Carolina)
Preceptors: Dr. Robert Adelstein, Dr. Xuefei Ma

181-AM. Katherine Almengo
CTLA-4Ig, Sirolimus, and Cyclophosphamide: Immunosuppressants to Stabilize Mixed Chimerism
Barry University (Florida)
Preceptors: Dr. Courtney Fitzhugh, Dr. Purevdorj Olkhanud

182-AM. Marcus Andrews
Relationship between Changes in Perceptions about Neighborhood Environment and Changes in Blood Pressure: Data from the Dallas Heart Study
George Washington University (District of Columbia)
Preceptor: Dr. Tiffany Powell-Wiley
183-AM. Kristijan Bogdanovski  
Characterization of Lung Disease in Autosomal Dominant Hyper IgE Syndrome  
Colgate University (New York)  
Preceptor: Dr. Kenneth Olivier

184-AM. Larisa Breden  
Selective Proliferation of Human Erythroid Cells with Truncated Erythropoietin Receptors  
University of New Mexico (New Mexico)  
Preceptors: Dr. Naoya Uchida, Dr. John Tisdale

185-AM. Nathan Burns  
High Resolution Imaging with a Tissue Clearing to Study the Patterning of Sympathetic Nerve Projection in Embryos  
Miami University (Ohio)  
Preceptor: Dr. Yoh-suke Mukouyama

186-AM. Shirley Chen  
Utilizing CRISPR/Cas9 Technology to Generate a Non-human Primate Model of Clonal Hematopoiesis  
University of Michigan (Michigan)  
Preceptors: Dr. Kyung-Rok Yu, Dr. Cynthia Dunbar

187-AM. Jevin Clark  
Cell Type Selective Markers Represented in Whole-kidney RNA-Seq Data  
Lehigh University (Pennsylvania)  
Preceptor: Dr. Mark Knepper

188-AM. Dylan David  
Detection of Mutations Associated with Drug Resistance in Patients with Chronic Lymphocytic Leukemia  
Virginia Commonwealth University (Virginia)  
Preceptor: Dr. Chingiz Underbayev

189-AM. Shohini Ghosh-Choudhary  
Cell-free Mitochondrial DNA as a Biomarker in Sickle Cell Disease  
Georgia Institute of Technology (Georgia)  
Preceptors: Dr. Swee Lay Thein, Dr. Laxminath Tumburu

190-AM. Abigail Giles  
Effects of Vasodilation on Cytosolic Oxygen Delivery and Mitochondrial Metabolism in an Isolated Working Heart  
Binghamton University (New York)  
Preceptor: Dr. Robert Balaban
191-AM. David Granadier
Clear Cell Renal Cell Carcinoma Immunotherapy: Targeting the Misexpression of our Hidden Viral Genome
University of Michigan (Michigan)
Preceptor: Dr. Richard Childs

192-AM. Kelsey Grolig
Pharmacological Agents Target the Volume of TSC2-null Fibroblast-like Cells Isolated from Tuberous Sclerosis Complex Skin Tumor
University of Maryland, College Park (Maryland)
Preceptor: Dr. Joel Moss

193-AM. Charlotte Harrington
The Role of Interleukin 37 in Psoriasis related Cardiovascular Disease
Duke University (North Carolina)
Preceptors: Dr. Martin Playford, Dr. Yvonne Baumer

194-AM. Bridgette Heine
Curvature of the Clathrin Lattice during Clathrin-mediated Endocytosis
University of Richmond (Virginia)
Preceptors: Dr. Kem Sochacki, Dr. Justin Taraska

195-AM. Brian Ho
Enteric Viruses Transmitted Non-lytically through Phosphatidylserine Lipid-enriched Vesicles
Florida International University (Florida)
Preceptor: Dr. Marianita Santiana

196-AM. Andrew Ingersoll
Development of a Multiplexed RT-qPCR System for Evaluating Primitive and Definitive Globin Production and Its Comparison to Protein Analysis
Michigan State University (Michigan)
Preceptors: Dr. Naoya Uchida, Dr. John Tisdale

197-AM. Shannon Lacy
Role of Cathepsin L in α-Synuclein Degradation
Colgate University (New York)
Preceptor: Dr. Jennifer Lee

198-AM. Thomas Larsen
Optimization of a Secondary VOI Scan for Lung Imaging in a Clinical CT Scanner
Arizona State University (Arizona)
Preceptor: Dr. Han Wen
199-AM. Katherine Lindblad  
*High-dimensional Characterization of Immune Subsets in Human Bone Marrow During Healthy and Leukemic States*  
University of Miami (Florida)  
Preceptor: Dr. Christopher Hourigan

200-AM. Hannah Lou  
*Exploring the Role of CTCF in Regulating Expression of Il2ra and Its Neighboring Genes*  
University of Wisconsin - Madison (Wisconsin)  
Preceptor: Dr. Warren Leonard

201-AM. Stephanie Mao  
*Trex1 Overexpression Leads to Longer Lifespans and Fragmented Sleep in Drosophila melanogaster*  
Yale University (Connecticut)  
Preceptors: Dr. Jay Chung, Dr. Jeonghan Kim

202-AM. Argit Marishta  
*Mitochondria DNA Mismatch Features in Lung Transplantation*  
Keystone College (Pennsylvania)  
Preceptors: Dr. Hannah Valantine, Dr. Sean Agbor-Enoh

203-AM. Alejandra Mendez  
*Beyond the Digital Divide: Disparities in Accessibility and Use of Health Information Technologies, Health Information National Trends Survey 2011-2017*  
University of Michigan School of Public Health (Michigan)  
Preceptors: Dr. Sherine El-Toukhy, Dr. Eliseo Perez-Stable

204-AM. Kellan Moorse  
*Fast Reconstruction Algorithm for Limited-angle Tomography*  
Bethel University (Minnesota)  
Preceptor: Dr. Han Wen

205-AM. Rachel Ng  
*SIP-2 Modulates PRC-1/FEO to Ensure Proper Cytokinesis and Ploidy*  
Northwestern University (Illinois)  
Preceptor: Dr. Nasser Rusan
206-AM. Phoebe Parrish  
**Burden and Enrichment Testing of Exome Sequences from 106 Williams Syndrome Cases Points to Extracellular Matrix and Immune Pathways as Key Modifiers of Variance in Blood Pressure and Supravalvular Aortic Stenosis**  
Davidson College (North Carolina)  
Preceptor: Dr. Beth Kozel

207-AM. Greg Sanda  
**Investigating the Role of S100a9 in Psoriasis and Related Cardiometabolic Disease**  
Wake Forest University (North Carolina)  
Preceptors: Dr. Nehal Mehta, Dr. Yvonne Baumer

208-AM. Kirklin Smith  
**Learning and Memory in Short and Long Sleeping Drosophila melanogaster**  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Susan Harbison

209-AM. Samantha Smith  
**Finding a New, Novel Nuclear Function for Asp**  
Carnegie Mellon University (Pennsylvania)  
Preceptors: Dr. Nasser Rusan, Dr. Todd Schoborg

210-AM. Andrea Solano  
**Acute Injury Causes Elevation of Chondroitin Sulfate Proteoglycans in the Rodent Visual System**  
Saint Thomas University (Florida)  
Preceptors: Mr. Craig Pearson, Dr. Herbert Geller

211-AM. Nicole Syder  
**Mitochondrial Ca2+ Uptake is Tightly Regulated by the C-terminal End of EMRE**  
Stanford University (California)  
Preceptors: Dr. Julia Liu, Dr. Elizabeth Murphy

212-AM. Brandon Tran  
**Screening for Small Molecule Binders to the ZTP Riboswitch, a Bacterial Regulator of the Folate Pathway**  
Case Western Reserve University (Ohio)  
Preceptors: Dr. Adrian Ferré-D'Amaré, Dr. Christopher Jones

213-AM. Angela Troia  
**Oxidative Stress Affects Hypertension in Elastin Haploinsufficiency**  
SUNY Binghamton University (New York)  
Preceptor: Dr. Beth Kozel
214-AM. Lauren Truitt  
*NK Clonal Relationships in CMV Positive and CMV Negative Rhesus Macaques Investigated by Genetic Barcoding*  
Cornell University (New York)  
Preceptor: Dr. Cynthia Dunbar

215-AM. Nevin Varghese  
*Neutrophil Extracellular Traps: A Potential Link to Early Onset Cardiovascular Disease in Psoriasis*  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Heather Teague, Dr. Nehal Mehta

216-AM. Anderson Watson  
*High-resolution Approach to Analyze Matrix Proteins of the Ascending Aorta in a Lox Deficient Mouse*  
Cheyney University of Pennsylvania (Pennsylvania)  
Preceptor: Dr. Beth Kozel

217-AM. Frances Welsh  
*Using Cross-species Evolutionary Analysis to Identify a Novel Centrosome Gene Duplication in Drosophila willistoni*  
University of Puget Sound (Washington)  
Preceptor: Dr. Nasser Rusan

218-AM. Yoo-Jung Yang  
*Rapid Mutant Screening via Single Molecule Measurements of in vitro Expressed Proteins*  
Cornell University (New York)  
Preceptors: Dr. Marie-Paule Strub, Dr. Keir Neuman

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

219-AM. Theresa Alexander  
*HLA Types of African Ancestry Increase Scleroderma Susceptibility in African Americans and Define Scleroderma-specific Autoantibodies*  
Case Western Reserve University (Ohio)  
Preceptor: Dr. Pravitt Gourh

220-AM. Savannah Barkdull  
*The Role of Hedgehog Signaling in Skin Development*  
University of Virginia (Virginia)  
Preceptor: Dr. Isaac Brownell
221-AM. Stephanie Cerritos  
*Patient Assistance Program Outcomes in a Community Clinic Setting*  
Loyola University Maryland (Maryland)  
Preceptors: Dr. James Katz, Ms. Yanira Ruiz-Perdomo

222-AM. Diana Chan  
*Lupus Mitochondrial DNA Modulates the Differentiation of Myeloid Cell Lines and Their Response to Toll-like Receptor Stimulation*  
University of Washington Seattle (Washington)  
Preceptors: Dr. Mariana Kaplan, Dr. Yaima Lightfoot

223-AM. Alyssa Coulter  
*Role of Interferon Regulatory Factor 8 (IRF8) in Osteoclast Regulation*  
George Washington University (District of Columbia)  
Preceptors: Dr. Vivek Thumbigere-Math, Dr. Martha Somerman

224-AM. Michael Cross  
*Disrupted Assembly of Keratin Filaments Due to Mutations in Wound-associated Keratins Contribute to the Pathogenesis of Pachyonychia Congenita*  
University of Rochester (New York)  
Preceptor: Dr. Maria Morasso

225-AM. Nicholas Frazzette  
*Nanoscale Imaging of Fas/CD95 Signaling Triggered by Membrane-bound Fas Ligand*  
Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Richard Siegel

226-AM. Nathalia Gazaniga  
*The Effects of JAK Inhibition on iNKT Cell Functions*  
Florida Atlantic University (Florida)  
Preceptor: Dr. Massimo Gadina

227-AM. Rose Graf  
*Cutaneous Overexpression of Transcription Factor Sox2 Accelerates Skin Wound Healing via Promotion of Re-epithelialization.*  
University of California, Los Angeles (California)  
Preceptors: Dr. Maria Morasso, Dr. Akihiko Uchiyama

228-AM. Katherine Gribbons  
*Discovery and Validation Of Novel Disease Subsets in 827 Patients with Takayasu's Arteritis across Four International Cohorts*  
Boston College (Massachusetts)
229-AM. Umara Khalique
Upregulation of the Beta-Tubulin Tubb6 Is a Sign of Muscle Regeneration in the Mdx Mice, the Model of Duchenne Muscular Dystrophy
University of California, Los Angeles (California)
Preceptors: Dr. Evelyn Ralston, Dr. Davide Randazzo

230-AM. Johnny Le
Assessing the Role of 41BB C78W Mutation in Behcet’s Like Disease
Pomona College (California)
Preceptors: Dr. Richard Siegel, Dr. Kelly Hudspeth

231-AM. Mimi Le
Elucidating the Role of Cytokine Signaling in the Development and Homeostasis of ILC1 and iNKT Cells with JAK Inhibitors
Brown University (Rhode Island)
Preceptors: Dr. Massimo Gadina, Dr. Giuseppe Sciume

232-AM. Eries Lee
Immune Dysregulation and Immunodeficiency Due to U4ATAC Mutation Is Linked to Defective IL-2Ra Induction and Cytokine Signaling
Washington University in St. Louis (Missouri)
Preceptor: Dr. Eric Hanson

233-AM. Anders Lindstedt
Effect of MYD88 Gain-of-Function Mutation on Osteoclast Formation and Activity
University of Wisconsin - Madison (Wisconsin)
Preceptors: Dr. Keith Sikora, Dr. Robert Colbert

234-AM. Ali Mazhar
Pilot Study Characterizing Aerobic Exercise in Women with Systemic Lupus Erythematosus
Lincoln Memorial University (Tennessee)
Preceptor: Dr. Sarfaraz Hasni

235-AM. Breanna Nguyen
The Role of Tensile Mechanical Stress in Osteogenesis and Gene Expression in HLA-B27 Transgenic Mesenchymal Stem Cells
Williams College (Massachusetts)
Preceptors: Dr. Gerlinde Layh-Schmitt, Dr. Robert Colbert
236-AM. Joel Rosenblum  
**Development of a Semi-Quantitative Score to Measure Vascular Inflammation by Positron Emission Tomography in Patients With Large-vessel Vasculitis**  
Tulane University (Louisiana)  
Preceptors: Dr. Peter Grayson, Dr. Mark Ahlman

237-AM. Nicole Schwardt  
**Optimization of Sample Processing for the Culturable Gut Microbiome**  
Cornell University (New York)  
Preceptors: Dr. Heidi Kong, Dr. Jayhyun Jo

238-AM. Malika Waschmann  
**Novel Gene-edited Mouse Reveals Effects of Myd88-S209R Mutation on Arthritis**  
Stanford University (California)  
Preceptors: Dr. Keith Sikora, Dr. Robert Colbert

**National Institute on Drug Abuse (NIDA)**

239-AM. Anum Afzal  
**Effects of Intravenous Oxycodone on Brain Metabolic Parameters and Skin Vascular Tone in Awake, Freely-moving Rats**  
Loyola University Chicago (Illinois)  
Preceptor: Dr. Eugene Kiyatkin

240-AM. Patrick Brown  
**Imaging and Manipulating Rat Prelimbic Cortex in Methamphetamine Self-administration**  
University of Oregon (Oregon)  
Preceptor: Dr. Yuzheng Hu

241-AM. Sophie Cemaj  
**Novel Bitopic D3 Receptor Agonists Inspired by PD-128907 and PF-592379 Pharmacophores**  
Emory University (Georgia)  
Preceptors: Dr. Amy Newman, Dr. Alessandro Bonifazi

242-AM. Michael Chojnacki  
**DREADD-mediated Inhibition of Striatal Dopamine D1 Receptor and Compulsive Methamphetamine Self-administration**  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Jean Cadet, Dr. Martin Job

243-AM. Emily DeMarco  
**Preclinical Evaluation of Experimental Compounds on the Neurochemistry of Sprague Dawley Rats via Microdialysis**
244-AM. Reuben Don  
*Stimulation of Medial Septum Glutamate Neurons Reinforces Compulsive-like Behavior*  
The Ohio State University (Ohio)  
Preceptors: Dr. Satoshi Ikemoto, Dr. Andrew Kesner

245-AM. Megan Dwyer  
*Do People Start with Prescription Opioids or Heroin; Potential Reasons for Continued Use*  
University of Illinois at Urbana-Champaign (Illinois)  
Preceptor: Dr. Kenzie Preston

246-AM. Julie Fedorko  
*FUB-AMB and Related 'Spice' Cannabinoids Induce Gene-dose Effects in Mice Lacking CB-1 Receptors*  
Pomona College (California)  
Preceptor: Dr. Michael Baumann

247-AM. Alexandra Gadiano  
*Investigation of Highly Selective Dopamine D3 Receptor Antagonists/Partial Agonists as Potential Treatments for Opioid Use Disorders: Nonhuman Primate Studies*  
Colgate University (New York)  
Preceptor: Dr. Amy Newman

248-AM. JoLynn Giancola  
*Discovery of Novel Dopamine Transporter Inhibitors Based on the Modafinil Scaffold for the Treatment of Psychostimulant Abuse*  
Ohio State University (Ohio)  
Preceptor: Dr. Amy Newman

249-AM. Elias Hilaire  
*Use of Fluorescence Activated Synaptoneurosome Sorting (FASS) to Study Dorsal Striatum Glutamatergic Inputs from Prelimbic and Motor Cortices following Acute Methamphetamine*  
University Of Maryland, College Park (Maryland)  
Preceptor: Dr. Javier Rubio

250-AM. Reece Hoerle  
*Molecular Neuroadaptations in the Rat Dorsal Striatum Associated with Forced Abstinence from Escalated Oxycodeone Self-administration*  
Virginia Polytechnic Institute and State University (Virginia)  
Preceptor: Dr. Jean Cadet
251-AM. Jennifer Hoots  
*Modeling Opioid Maintenance Therapy in Rats: Effects of Chronic Buprenorphine and the Biased μ-opioid Receptor Agonist TRV130*  
Cornell University (New York)  
Preceptor: Dr. Jennifer Bossert

252-AM. Michelle Jin  
*Compulsive Addiction-like Aggressive Behavior in Mice*  
Cornell University (New York)  
Preceptor: Dr. Sam Golden

253-AM. Louisa Kane  
*Distinct Neuronal Ensembles within the vmPFC Mediate Self-administration of Food and Cocaine*  
University of Michigan (Michigan)  
Preceptors: Dr. Brandon Warren, Dr. Bruce Hope

254-AM. Sherry Lam  
*Novel DREADD Ligand for Translational Neurotheranostic Applications*  
Binghamton University (New York)  
Preceptor: Dr. Jordi Bonaventura

255-AM. Michael Leary  
*Differential Effects of Oxycodone Self-administration on Striatal mRNA Expression of Members of the Fibroblast Growth Factor Family*  
Harriet Wilkes Honors College of Florida Atlantic University (Florida)  
Preceptor: Dr. Christopher Blackwood

256-AM. Olivia Lofaro  
*A Rodent Model of Relapse to Fentanyl Seeking after Voluntary Abstinence*  
Wesleyan University (Connecticut)  
Preceptors: Dr. David Reiner, Dr. Yavin Shaham

257-AM. Alejandra Lopez  
*Aversive Learning Drives Behavioral Despair and Anhedonia by Increasing Intrinsic Excitability of D1 MSNs in the Nucleus Accumbens*  
Boston University (Massachusetts)  
Preceptors: Dr. Hugo Tejeda, Dr. Marco Pignatelli

258-AM. Andrea Maxwell  
*Assessment of Increased Neuromotor Excitability Elicited by Transcranial Magnetic Stimulation in Cocaine-dependent and Healthy Individuals*  
University of Michigan (Michigan)
Preceptor: Dr. Vaughn Steele

259-AM. Sett Naing
*Development of a Novel Cell-based Binding Assay to Mechanistically Characterize Sigma-1 Receptor*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Lei Shi, Dr. Hideaki Yano

260-AM. Ravish Patel
*Transcriptional and Epigenetic Aspects of Incubation of Methamphetamine Craving*
University of Georgia (Georgia)
Preceptor: Dr. Jean Cadet

261-AM. McKenzie Prillaman
*Changes in Nicotinic Receptor Density in the Rat Prelimbic Cortex and Insula in Response to Nicotine Dose and Exposure Age*
University of Virginia (Virginia)
Preceptor: Dr. Robin Keeley

262-AM. Richard Quintana Feliciano
*Neuronal Ensembles within the Ventromedial Prefrontal Cortex Associated with Self-administration and Extinction of Cocaine Seeking Project to Distinct Subregions of Nucleus Accumbens*
University of Puerto Rico, Río Piedras Campus (Puerto Rico)
Preceptors: Dr. Brandon Warren, Dr. Bruce Hope

263-AM. Trinity Russell
*Sex Differences in the Potentiation of Intermittent Self-administration on Incubation of Cocaine Craving: Effect of Estrous Cycle*
Wesleyan University (Connecticut)
Preceptors: Dr. Celine Nicolas, Dr. Satoshi Ikemoto

264-AM. Divya Seth
*Vulnerability to Higher Stress Levels in People Who Use Drugs Linked to Maladaptive Coping Mechanisms*
Emory University (Georgia)
Preceptors: Dr. David Epstein, Dr. Landhing Moran

265-AM. Arta Seyedian
*Synergistic Locomotor Activation Induced by Dopamine D2-D3 and Serotonin 5-HT2C Agonists in Reserpinized Mice*
George Mason University (Virginia)
Preceptors: Dr. Sergi Ferre, Mr. William Rea
266-AM. Samuel Stull
Predicting Opioid and Cocaine Use Trajectory with Objective and Subjective Neighborhood Measures
Ohio Wesleyan University (Ohio)
Preceptors: Dr. David Epstein, Dr. Landhing Moran

267-AM. Dylan Sucich
Impact of Alcohol Dependence on Brain Lipidomic Profile in Rats
University of Texas at Austin (Texas)
Preceptor: Dr. Leandro Vendruscolo

268-AM. Eleanor Towers
Extended Access to Heroin Induces Heroin Dependence in Male and Female Mice
Washington College (Maryland)
Preceptors: Dr. George Koob, Dr. Leandro Vendruscolo

269-AM. Shehzad Ukani
Therapeutic Potential of Focal Transcranial Magnetic Stimulation on a Rat Model of Cocaine Self-administration and Reinstatement
Princeton University (New Jersey)
Preceptors: Dr. Hanbing Lu, Dr. Yihong Yang

270-AM. Sophia Weber
Incubation of Discriminative Stimulus-induced Cocaine Craving
University of Washington (Washington)
Preceptor: Dr. Rajtarun Mandangopal

271-AM. Kelsey Wright
Differential Gene Expression of Zinc Deficient Diets
University of Rhode Island (Rhode Island)
Preceptor: Dr. Juan Gomez

272-AM. Lia Zallar
Ghrelin Receptor Deletion Reduces Alcohol Consumption in a Binge Model
Reed College (Oregon)
Preceptors: Dr. Lorenzo Leggio, Dr. Leandro Vendruscolo

273-AM. Wenxin Zhu
Simultaneous fMRI-Optogenetics in the Rat Insula
Rutgers University (New Jersey)
Preceptors: Dr. Yuzheng Hu, Dr. Yihong Yang
274-AM. Yi (Patrick) An
Combination of Birinapant and TRAILR2 Agonist Antibody Enhances Cell Death in HPV-Positive Head and Neck Squamous Cell Carcinomas
University of Maryland, College Park (Maryland)
Preceptors: Dr. Carter Van Waes, Dr. Zhong Chen

275-AM. Alejandro Anaya-Rocha
Characterizing the Role of Sall1 in Development of the Mouse Cochlea
University of California, Santa Cruz (California)
Preceptors: Dr. Matthew Kelley, Dr. Elizabeth Driver

276-AM. Wengqian Chen
Mutations of Mouse Tbc1d24 Recapitulate the Epilepsy of Pathogenic Variants of Human TBC1D24
University of California, Berkeley (California)
Preceptors: Dr. Risa Tona, Dr. Thomas Friedman

277-AM. Juleh Eide
Identification and Characterization of Slc26a4 Isoforms
Stanford University (California)
Preceptors: Dr. Isabelle Roux, Dr. Andrew Griffith

278-AM. Randall Harley
Characterization of a New Isoform of MYO15 That Is Required for Hearing
Georgetown University (District of Columbia)
Preceptors: Dr. Thomas Friedman, Dr. Jonathan Bird

279-AM. Connor Hill
Hair Cell Knockout of Grhl2
University of Connecticut (Connecticut)
Preceptor: Dr. Robert Morell

280-AM. Victoria Idowu
Auditory Phenotype of Persons with Neurofibromatosis Type 1
University of Minnesota Twin Cities (Minnesota)
Preceptor: Dr. Carmen Brewer

281-AM. Helen Maunsell
Lrm1, a Potential Notch Interactor, Regulates Epithelial Cell Patterning During Mouse Cochlear Development
McGill University (Non-U.S.)
Preceptors: Dr. Elizabeth Driver, Dr. Matthew Kelley

282-AM. Czarina Ramos
Investigating the Impact of Hair Cell Activity on Synapse Formation and Maintenance in the Zebrafish Lateral Line
Georgetown University (District of Columbia)
Preceptor: Dr. Katie Kindt

283-AM. Ian Taukulis
Identification and Validation of Hematopoietic Cell Types in the Mammalian Stria Vascularis Using Single Cell RNA-Seq
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Michael Hoa

284-AM. Nora Welsh
Exosome-associated HSP70 Protects against Aminoglycoside-induced Hair Cell Death
Georgetown University (District of Columbia)
Preceptors: Dr. Lisa Cunningham, Dr. Andrew Bregio

National Institute of Dental and Craniofacial Research (NIDCR)

285-AM. Raira Ank
Resolving the Topology of SURF4: the ER Exit Cargo Receptor of DSPP
Georgia College and State University (Georgia)
Preceptor: Dr. Larry Fisher

286-AM. Jessi Becker
Members of the GalNAc-T family of Enzymes Utilize Distinct Golgi Localization Mechanisms
City College of New York (New York)
Preceptors: Dr. Duy Tran, Dr. Lawrence Tabak

287-AM. Nicholas Bhaskaran
Generation of Reactive Oxygen Species (ROS) Affects Mitochondrial Dynamics in HEK293 Cells
Midwestern University (Illinois)
Preceptor: Dr. Indu Ambudkar

288-AM. Sydney Brown
The Regulation of Fibroblast Growth Factor 23 Correlates with Changes in Erythropoietin in Humans
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Michael Collins, Dr. Kelly Roszko
289-AM. Sophie Choi
Analysis of Molecular Changes in Salivary Glands of Hs3st3a1;Hs3st3b1 Double Knockout Mice
University of Virginia (Virginia)
Preceptors: Dr. Vaishali Patel, Dr. Matthew Hoffman

290-AM. Caitlynn De Preter
Viral Tracing of Noradrenergic Neurons Involved in Pain Modulation
East Tennessee State University (Tennessee)
Preceptors: Dr. Xinglong Gu, Dr. Mark Hoon

291-AM. Joshua Dodge
Profile of IL-17 Producing Cells in Oral Chronic Graft-Versus-Host Disease Effector Sites
Jefferson College of Health Sciences (Virginia)
Preceptor: Dr. Jacqueline Mays

292-AM. Amy Fernandez
Structural Basis of GalNAc-T12’s Distinct and Non-conserved Mechanism for Modifying Glycopeptide Substrates
West Virginia University (West Virginia)
Preceptors: Dr. Nadine Samara, Dr. Lawrence Tabak

293-AM. Sarah Lake
Anoctamin 8 Tethers the Endoplasmic Reticulum and Plasma Membrane to Assemble Ca^{2+} Signaling Complexes at ER/PM Junctions
Middlebury College (Vermont)
Preceptors: Dr. Shmuel Muallem, Dr. Archana Jha

294-AM. Gavrel Pacheco
Emerging Differences of Mesenchymal and Epithelial Cancer Cell Migration in Three-Dimensions
University of Chicago (Illinois)
Preceptors: Dr. Andrew Doyle, Dr. Kenneth Yamada

295-AM. Gabriella Peluso
Characterization of Mucin-Type O-Glycosylation in Mouse Salivary Glands
Rutgers University (New Jersey)
Preceptors: Dr. E Tian, Dr. Kelly Ten Hagen

296-AM. Kathryn Reindel
Developing Mouse Models of Neuropathic Pain
College of Wooster (Ohio)
Preceptor: Dr. Mark Hoon
297-AM. Megan Sibree
The Role of CCR2 Macrophages in Fibrin Clearance in vivo
Elon University (North Carolina)
Preceptor: Dr. Thomas Bugge

298-AM. Jan Simper
Effectiveness of an Anthrax-based Tumor Targeting Toxin against Experimental Metastasis
Arizona State University (Arizona)
Preceptors: Dr. Thomas Bugge, Dr. Stephen Leppla

299-AM. Thomas Wolz
Secretory Gland Function in the Oral and Gut Microbiome
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Shmuel Muallem, Dr. Malini Ahuja

300-AM. Carlos Zuazo
Assessing a Functional Role for the Oral Microbiome in Fibrin-mediated Immunopathology
University of California, Berkeley (California)
Preceptor: Dr. Niki Moutsopoulos

National Institute of Mental Health (NIMH)

301-AM. Oyindamola (Dee) Adedipe
Does Communication and Socialization Adaptive Functioning at 18 Months Predict Autism Spectrum Disorder at 36 Months in Toddlers with Language Delay?
University of Maryland, College Park (Maryland)
Preceptor: Dr. Audrey Thurm

302-AM. Abdullah Adil
Inducible Silencing of Tonically Active Neurons Using MicroRNA and CRISPR-based Repressors
University of Illinois at Chicago (Illinois)
Preceptor: Dr. Walter Lerchner

303-AM. Megan Airey
Examining the Role of Adult Hippocampal Neurogenesis in Social Motivation Using Operant Conditioning
Emory University (Georgia)
Preceptors: Dr. Mumeko Tsuda, Dr. Heather Cameron
304-AM. Talia Akoh-Arrey
*Development of an Animal Model for Irritability Using an Operant Conditioning Paradigm Involving Frustrative Non-reward*
Emory University (Georgia)
Preceptors: Dr. Mumeko Tsuda, Dr. Heather Cameron

305-AM. Kimberlyn Bailey
*Epileptic Seizure Forecasting with EKG and ECoG Supports Cardiac-Seizure Connection*
Le Moyne College/SUNY Oswego (New York)
Preceptor: Dr. Dietmar Plenz

306-AM. Julia Brooks
*Mapping Associations between Cortical Structure and Unique versus Shared Variances of Anxiety and Irritability Symptoms*
Union College (New York)
Preceptor: Dr. Elise Cardinale

307-AM. Carolina Caban Rivera
*Development of Single Nucleus RNA Sequencing for the Post Mortem Human Brain*
Temple University (Pennsylvania)
Preceptors: Dr. Pavan Auluck, Dr. Stefano Marenco

308-AM. Sofia Cardenas
*Fontal Networks Track Face Emotion Ambiguity: A Pilot Study*
University of California, Los Angeles (California)
Preceptor: Dr. Simone Haller

309-AM. Nicole Ciesinski
*Heightened Affective Responses Following Subtotal Lesions of Macaque Orbitofrontal Cortex*
Emory University (Georgia)
Preceptors: Dr. Maia Pujara, Dr. Elisabeth Murray

310-AM. Michal Clayton
*The Longitudinal Course of Irritability and ADHD Symptoms in Disruptive Mood Dysregulation Disorder*
Brown University (Rhode Island)
Preceptor: Dr. Katharina Kircanski

311-AM. Spencer Cooke
*Effect of Amino Acid Starvation on DHPG Response in WT and Fmr1 KO Hippocampal Slices*
Colorado College (Colorado)
Preceptor: Dr. Carolyn Smith
312-AM. Daniel Coppersmith  
*Network Analysis of Anxiety Symptoms in Children and Adolescents*  
Brown University (Rhode Island)  
Preceptors: Dr. Rany Abend, Dr. Daniel Pine

313-AM. Chelsie Crossen  
*Effect of Psychosocial Stress on Monocyte Recruitment to the Blood Brain Barrier*  
Auburn University (Alabama)  
Preceptor: Dr. Michael Lehmann

314-AM. Kelsey Csumitta  
*Do Task Negative Responses Reflect Cortico-Cortical Competition from Task Positive Brain Regions?*  
University of Rochester (New York)  
Preceptors: Dr. Stephen Gotts, Dr. Alex Martin

315-AM. Kiana Dash  
*Analyzing a Prefrontal-Striatum-Temporal Lobe Circuit Involved in Integrating Perception, Reward, and Motivation by Utilizing Retrograde Virus in Rhesus Macaques*  
Hampton University (Virginia)  
Preceptor: Dr. Walter Lerchner

316-AM. Amanda Del Giacco  
*Bottom-Up Processing of Curvilinear Visual Features is Sufficient for Animate/Inanimate Object Categorization*  
University of California, Los Angeles (California)  
Preceptors: Dr. Valentinos Zachariou, Dr. Leslie Ungerleider

317-AM. Bernadette Deschaine  
*Generating a Transgene for Neuron-specific Imaging*  
College of William and Mary (Virginia)  
Preceptor: Dr. James Pickel

318-AM. Joshua DeSon  
*Suicidal Behaviors and Non-suicidal Self Injury in a Schizophrenia Sample*  
Stanford University (California)  
Preceptor: Dr. Dwight Dickinson

319-AM. Adam Dickter  
*Developing Real-world Expertise: Moby Dick vs Shamu*  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Chris Baker
320-AM. Quyen Do
*Ecological Momentary Assessment in Pediatric Anxiety*
Yale University (Connecticut)
Preceptors: Dr. Daniel Pine, Dr. Ashley Smith

321-AM. Gunner Drossel
*Conditional Knockout of the PACAP Gene Locus: A Genetic Approach to Functional Mapping of PACAPergic Circuits Involved in Stress in the Mouse*
Hamline University (Minnesota)
Preceptors: Dr. Wenqin Xu, Dr. Zhihong 'Sunny' Jiang

322-AM. Jean Etersque
*Influence of Solvent on Regioisomer Formation in the Radiofluorination of Iodonium Ylides and Diaryliodonium Salts*
Fairleigh Dickinson University (New Jersey)
Preceptors: Dr. Victor Pike, Dr. Sanjay Telu

323-AM. Michael Frankland
*In vivo Demonstration of COX-2 Upregulation after Neuroinflammation in Monkey Brain Using the Novel PET Radioligand [11C]MC1*
Vanderbilt University (Tennessee)
Preceptor: Dr. Stal Shrestha

324-AM. Christina Galiano
*Resting State Oscillatory Power and Risk of Suicide in Depressed Patients*
University of Virginia (Virginia)
Preceptor: Dr. Jessica Gilbert

325-AM. Nimesha Gerlus
*Differences in Emotional Attention Biases Between Suicide Attempters and Depressed Non-attempters*
Brown University (Rhode Island)
Preceptor: Dr. Elizabeth Ballard

326-AM. Madeline Goodwin
*Impact of Threat and Clinical Anxiety on the Monetary Incentive Delay Task*
Johns Hopkins University (Maryland)
Preceptors: Dr. Monique Ernst, Dr. Christian Grillon

327-AM. Andrew Hall
*Using Machine Learning to Assess Sleep Deprivation in Structural Brain MRI*
College of William and Mary (Virginia)
Preceptor: Dr. Peter Bandettini
328-AM. Elizabeth Hall
*Investigating Neural Signatures of Visual Encoding and Recall in Hippocampal and Perceptual Regions*
Universidad del Pais Vasco (Non-U.S.)
Preceptors: Dr. Wilma Bainbridge, Dr. Chris Baker

329-AM. J. Douglas Harrison Jr.
*Measuring Executive Functioning in Youth with Intellectual Disability Using the Behavior Rating Inventory of Executive Function*
George Washington University (District of Columbia)
Preceptor: Dr. Audrey Thurm

330-AM. Sandy Hoang
*The Neural System Underlying Learning from Gains and Losses*
University of Virginia (Virginia)
Preceptors: Dr. Bruno Averbeck, Dr. Craig Taswell

331-AM. Jefferson Huggins
*Sex and the Pubertal Transition: Impact on the Awakening Cortisol Response*
University of Baltimore (Maryland)
Preceptors: Dr. Peter Schmidt, Dr. Pedro Martinez

332-AM. Emilia-Marie Jaskot
*New Chemogenetic Tool for Systems Neuroscience in Monkeys: Preliminary Testing*
George Mason University (Virginia)
Preceptor: Dr. Mark Eldridge

333-AM. Jessica Jordan
*Evidence for the Facial Feedback Hypothesis from Patients with Moebius Syndrome*
Wake Forest University (North Carolina)
Preceptors: Dr. Shruti Japee, Dr. Leslie Ungerleider

334-AM. Benjamin Jung
*Hierarchical Parcellation of the Rhesus Macaque Brain*
McGill University (Non-U.S.)
Preceptor: Dr. Adam Messinger

335-AM. Ruby (Lu-Yi) Kang
*The Role of Oxytocin Receptors in Avpr1b-expressing Neurons of the Hippocampal CA2 in a Social Novelty Task*
University of Texas at Dallas (Texas)
Preceptor: Dr. Scott Young
336-AM. Ali Kara
*Modulation of Anion Channel Gating in Excitatory Amino Acid Transporters by C-terminal Domains*
University of Texas at Dallas (Texas)
Preceptors: Dr. Delany Torres Salazar, Dr. Susan Amara

337-AM. Kiana Khosravian
*A Transdiagnostic Study of Reward Processing Alterations in Adolescents Using the Monetary Incentive Delay Task*
Emory University (Georgia)
Preceptors: Dr. Hanna Keren, Dr. Argyris Stringaris

338-AM. Alexis Kidder
*Medial Parietal Cortex Contains Category-specific Subdivisions during Memory Recall*
State University of New York at Geneseo (New York)
Preceptor: Dr. Christopher Baker

339-AM. Billy Kim
*Exploring Cell Type Diversity in Human Brains with Schizophrenia Using Single Nucleus RNA-Sequencing*
Johns Hopkins University (Maryland)
Preceptor: Dr. Stefano Marenco

340-AM. Donghyun Kim
*Exploring the Role of Th17 T Cells in Promoting Depressive Behavior in Mice.*
Johns Hopkins University (Maryland)
Preceptors: Dr. Stacey Kigar, Dr. Miles Herkenham

341-AM. Omar Koita
*The Potential Role of the Paraventricular Thalamus in Thermoregulation*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Mario Penzo

342-AM. Sindhura Kolachana
*Characterizing Transgenesis in the Common Marmoset*
College of William and Mary (Virginia)
Preceptors: Dr. James Pickel, Dr. Dave Bodine

343-AM. Amanda Kuhn
*Sleep Spindle Measures as Potential Biomarkers for Autism and Developmental Delay*
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Ashura Buckley, Dr. Omar Khan
344-AM. Franchesca Kuhney
Alterations and Developmental Trajectories of Relative Hippocampus and Amygdala Volume in Williams Syndrome
University of Connecticut (Connecticut)
Preceptor: Dr. Karen Berman

345-AM. Elizabeth Lanzillo
The Importance of Screening Pre-teens for Suicide Risk in the Emergency Department
Brown University (Rhode Island)
Preceptors: Dr. Lisa Horowitz, Dr. Maryland Pao

346-AM. Abigail Lemons
What’s Wrong with My Mouse? Caveats of Behavior Testing
Colgate University (New York)
Preceptors: Dr. Rachel Sare, Dr. Carolyn Smith

347-AM. Michael B. Leventhal
Hippocampal-Prefrontal Interactions in Adaptive Decision-making
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Gloria Laryea, Dr. Yogita Chudasama

348-AM. Margaret Mahoney
NIMH Support for Academic and Research Psychiatry Careers: 30 Year Outcomes for the Outstanding Resident Award Program
Dartmouth College (New Hampshire)
Preceptor: Dr. Joyce Chung

349-AM. Adrienne Manbeck, Madeline Goodwin
The Impact of State and Clinical Anxiety on Risk Preference and Loss Aversion
University of Minnesota (Minnesota), Johns Hopkins University (Maryland)
Preceptors: Dr. Monique Ernst, Dr. Christian Grillon

350-AM. Emily Masi, Camille Roberts
Assessing Repetitive Transcranial Magnetic Stimulation to the Right Dorsolateral Prefrontal Cortex on Anxiety Potentiated Startle in Healthy Volunteers
The College of William and Mary (Virginia), George Washington University (District of Columbia)
Preceptors: Dr. Christian Grillon, Dr. Nicholas Balderston

351-AM. Chika Matsumoto
An fMRI and Psychophysiology Study of Safety Learning in Anxious and Healthy Youth and Healthy Adults
University of California, Los Angeles (California)
Preceptors: Dr. Anita Harrewijn, Dr. Daniel Pine

352-AM. Cassidy McDermott
*Longitudinally Mapping Childhood Socioeconomic Status Relationships with Cortical and Subcortical Morphology*
Dartmouth College (New Hampshire)
Preceptor: Dr. Armin Raznahan

353-AM. Emalie McMahon
*Understanding Subtle Preparatory Movements in Human Action through Human Behavior and Machine Learning*
University of Tennessee (Tennessee)
Preceptors: Dr. Maryam Vaziri-Pashkam, Dr. Leslie Ungerleider

354-AM. Sarah Millan
*The Behavioral Outcome of Amphetamine after Inhibition of EAAT3 Trafficking in DAT-Cre Rats*
Vanderbilt University (Tennessee)
Preceptors: Dr. Susan Amara, Dr. Suzanne Underhill

355-AM. Katherine Miller
*Relationships between Depression and Anxiety Symptomology in Depressed Adolescents Undergoing Behavioral Activation Therapy*
Colorado College (Colorado)
Preceptor: Dr. Kathryn DeLonga

356-AM. Ajay Nadig
*Patterning of Amygdala and Hippocampus Macrostructure across Sex and Sex Chromosome Complement*
Northwestern University (Illinois)
Preceptor: Dr. Armin Raznahan

357-AM. Laura Padilla
*Nucleus Accumbens Functional Connectivity during Reward Differs in Pre-pubertal and Pubertal Children and Adolescents*
Northwestern University (Illinois)
Preceptors: Dr. Karen Berman, Dr. Peter Schmidt

358-AM. Madeleine Perkins
*The Role of Chemogenetic Hippocampal Inactivation on Performance in a Spatial Navigation Paradigm*
Cornell University (New York)
Preceptor: Dr. Yogita Chudasama
359-AM. Samantha Perlstein
Gaze Fixation during Face-emotion Labeling in a Transdiagnostic Sample of Youth with Irritability
Barnard College (New York)
Preceptor: Ms. Simone Haller

360-AM. Dominique Phillips
The Precursors of Mood and Anxiety Disorders: Behavioral Reactivity and Approach-Avoidance Tendencies in Infants
University of Maryland, College Park (Maryland)
Preceptors: Dr. Courtney Filippi, Dr. Daniel Pine

361-AM. Nicholas Ringelberg
Characterization of a Thalamic-extended Amygdala Anxiety Circuit
Cornell University (New York)
Preceptor: Dr. Mario Penzo

362-AM. Camille Roberts, Emily Masi
Optimizing fMRI-Guided Transcranial Magnetic Stimulation through Iterative Electric-field Modeling
George Washington University (District of Columbia), William and Mary University (Virginia)
Preceptors: Dr. Christian Grillon, Dr. Nicholas Balderston

363-AM. Andrew Ross
Examining the Relationship between Pediatric Bipolar Disorder and Anxiety: A Diffusion Tensor Imaging Study
Emory University (Georgia)
Preceptor: Dr. Julia Linke

364-AM. Shweta Sahu
The Effects of Oxytocin Receptor Knockout in Hippocampal CA2 Avpr1b Neurons on Social Recognition Memory
Emory University (Georgia)
Preceptor: Dr. Scott Young

365-AM. Bethany Sauls
Parent Reported Sensory Processing in Children with Phelan McDermid Syndrome
University of Texas at Dallas (Texas)
Preceptors: Dr. Audrey Thurm, Dr. Zenaide Quezado
366-AM. Jamie Schafroth  
Role of the Primate Amygdala and Anterior Cingulate Cortex in Viewing Biologically Relevant Stimuli  
Grinnell College (Iowa)  
Preceptor: Dr. Benjamin Basile

367-AM. Jalene Shim  
Size Does Matter? Effect of Inferotemporal Cortex Lesions on Visual Categorization in Monkeys  
University of California, Berkeley (California)  
Preceptor: Dr. Mark Eldridge

368-AM. Christopher Song  
Rare Coding Variants in Treatment-resistant Depression  
Pomona College (California)  
Preceptor: Dr. Francis McMahon

369-AM. Noah Steinberg  
Cortical Activity Measured during a Visual Position Shift Illusion  
Lafayette College (Pennsylvania)  
Preceptor: Dr. Elisha Merriam

370-AM. Anni Subar  
Does Cognitive Control Moderate the Relation between Risk Factors for Psychopathology and Later Outcomes?  
University of Michigan (Michigan)  
Preceptors: Dr. Courtney Filippi, Dr. Daniel Pine

371-AM. Sean Sweat  
The Role of Rapgef2 in the Behavioral Effects of Cocaine  
Duke University (North Carolina)  
Preceptors: Dr. Lee Eiden, Dr. Sunny Jiang

372-AM. Jeena Thomas  
Effects of Low Field Magnetic Stimulation in Depression and Structural Brain Connectivity  
Georgetown University (District of Columbia)  
Preceptor: Dr. Zhi-De Deng

373-AM. Natasha Topolski  
How Characterization of Individual Differences in Functional Connectivity Impacts Subject Identification and Behavioral Prediction  
Tulane University (Louisiana)  
Preceptors: Dr. Emily Finn, Dr. Peter Bandettini
374-AM. Anita Torossian  
*Rates of Cerebral Protein Synthesis in a Mouse Model of Tuberous Sclerosis Complex*  
City University of New York at Queens College (New York)  
Preceptors: Dr. Carolyn Smith, Dr. Rachel Sare

375-AM. Katherine Traino  
*The Cognitive Profile of Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy vs. Alzheimer’s Disease*  
Baylor University (Texas)  
Preceptor: Dr. Joseph Snow

376-AM. Melbaliz Velez Afanador  
*Resting-state EEG Source Analysis in Depressed Patients Treated with Electroconvulsive Therapy and Magnetic Seizure Therapy*  
University of Puerto Rico at Arecibo (Puerto Rico)  
Preceptors: Dr. Zhi De Deng, Dr. Sarah Lisanby

377-AM. Aria Vitale  
*Associations between Self-reported Anxiety, Depression, and Momentary Mood Using a Computational Reward Model*  
Georgetown University (District of Columbia)  
Preceptor: Dr. Hanna Keren

378-AM. Elena Waidmann  
*Unique Image Component Determinants of Face-selective Neural Responses in AM and AF Macaque Face Patches*  
Washington University in St. Louis (Missouri)  
Preceptors: Dr. David Leopold, Dr. Kenji Koyano

379-AM. Steven Wasserman  
*Characterization of an Intramolecular Interaction of IL5 and the C-terminus of hDAT*  
Brandeis University (Massachusetts)  
Preceptors: Dr. Jennie García-Olivares, Dr. Susan Amara

380-AM. Adrianna Wilson  
*Translational Pharmacology of the Pac1 Receptor*  
Virginia Polytechnic Institute and State University (Virginia)  
Preceptor: Dr. Lee Eiden

381-AM. Kailyn Witonsky  
*Familial Associations of Mood Disorders with Chronotypes and Sleep Patterns*  
Swarthmore College (Pennsylvania)  
Preceptor: Dr. Kathleen Merikangas
382-AM. Yao Xiao
*Modeling Diurnal and Weekly Patterns of Affect in Ecological Momentary Assessment Data*
Emory University (Georgia)
Preceptors: Dr. Kathleen Merikangas, Dr. Vadim Zipunnikov

383-AM. Marissa Yetter
*Curved Features Are Critical for Animate/Inanimate Categorization in Macaques*
Grinnell College (Iowa)
Preceptors: Dr. Xiaomin Yue, Dr. Leslie Ungerleider

**National Institute on Minority Health and Health Disparities (NIMHD)**

384-AM. Mary Andrews
*Understanding How Cigarette Direct Mail Marketing Influences Smoking Behaviors among High and Low Socioeconomic Status Young Adult Smokers*
Hampshire College (Massachusetts)
Preceptor: Dr. Kelvin Choi

385-AM. Launick Saint-Fort
*Tobacco Use Behaviors within the U.S. Black Population: Variations per Global Region of Birth*
Penn State Berks (Pennsylvania)
Preceptor: Dr. Kelvin Choi

**National Library of Medicine (NLM)**

386-AM. Brittney Blackburne
*Bacterial Genome Mining for Gene Clusters Encoding Novel Natural Products*
Rutgers University (New Jersey)
Preceptor: Dr. Anastasia Nikolskaya
1-PM. Nicholas Balanda
*Insights from the Development of a Comprehensive Cohort Sequence Database for the NIH Undiagnosed Diseases Program*
Davidson College (North Carolina)
Preceptor: Dr. David Adams

2-PM. Courtney Benoit
*Identification and Characterization of Novel Cobalamin-binding Proteins in Zebrafish*
Colgate University (New York)
Preceptor: Dr. Lawrence Brody

3-PM. Sarah Boland
*Understanding Type I and Type II Diabetes: Identity and Its Association with Health*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Susan Persky

4-PM. Liesl Broadbridge
*Mutation in the Splicing Factor zrsr2 Disrupts Normal Hematopoietic Development in Zebrafish*
University of Wisconsin - Madison (Wisconsin)
Preceptors: Dr. Paul Liu, Dr. Erica Bresciani

5-PM. Jennifer Cleary
*Family History Is Associated with Support Exchange in Familial Caregiving Networks of Individuals with Alzheimer’s Dementia*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Christopher Marcum, Dr. Laura Koehly

6-PM. STACY DESINE
*Investigation of Inflammation and Serotonin Biomarkers in Sickle Cell Patients with Depression*
University of Florida (Florida)
Preceptors: Mr. Vence Bonham, Dr. Brittney Hollister

7-PM. Gabrielle Dotson
*Taxonomic Analysis of Metagenomic and Metatranscriptomic Microbial Samples from Immunodeficient Patients*
Stanford University (California)
Preceptors: Dr. Julie Segre, Dr. Sean Conlan

8-PM. Jeff Dudley
*Allele-specific, Positon-based Error Modeling for Processing Next-generation Sequencing Data Provides a Flexible Multi-faceted Approach to Somatic Mosaic Variant Filtering*
9-PM. Colten Eberhard
Are Pathways that Regulate Yellow Pigment Production in Mouse Conserved in Zebrafish?
George Washington University (District of Columbia)
Preceptors: Dr. William Pavan, Dr. Dawn Watkins-Chow

10-PM. Katharine Ellis
Muscle-specific Rescue of a Zebrafish Model of mut0 Methylmalonic Acidemia Reveals Insights to Tissue-specific Role in Disease Mechanisms
Duke University (North Carolina)
Preceptors: Dr. Charles Venditti, Dr. Oleg Shchelochkov

11-PM. Lena Eskin
Factors Associated with the Inclusion of Healthcare Providers in Social Networks of Families Affected by Inborn Errors of Metabolism
Cornell University (New York)
Preceptors: Dr. Laura Koehly, Dr. Christopher Marcum

12-PM. Jennifer Frederick
Mapping Associations between Polygenic Risk for ADHD, Cognition and Core Symptoms
Johns Hopkins University (Maryland)
Preceptors: Dr. Philip Shaw, Dr. Gustavo Sudre

13-PM. Ashleigh Gill
 Noonan Syndrome in Diverse Populations
Virginia State University (Virginia)
Preceptors: Dr. Paul Kruszka, Dr. Maximilian Muenke

14-PM. Brianna Glase
Genetic Variation May Impact Progression of Monogenic Lysosomal Storage Disorder
St. Mary’s College of Maryland (Maryland)
Preceptor: Dr. Cynthia Tifft

15-PM. Tansy Gu
Enhanced Efficacy of Gene Therapy Treatment for Niemann-Pick C1 Disease Using a Novel Serotype, AAV-PHP.B
University of California, Davis (California)
Preceptor: Dr. Bill Pavan
16-PM. Mary Hackbarth  
Novel CLCN7 Mutation and Lysosomal Disease in a UDP Patient  
Rensselaer Polytechnic Institute (New York)  
Preceptor: Dr. May Malicdan

17-PM. Chen Han  
Telomeres in Hermansky-Pudlak Syndrome Pulmonary Fibrosis  
Georgetown University (District of Columbia)  
Preceptors: Dr. Heidi Dorward, Dr. Bernadette Gochuico

18-PM. Sara Haroutunian  
Alveolar Macrophage Phenotype In a HPS-2 Murine Model of Pulmonary Fibrosis  
University of California, Los Angeles (California)  
Preceptors: Dr. May Malicdan, Mr. Kevin O’Brien

19-PM. Shahzeb Hassan  
Looking beyond the Realm of Traditional Genetics: DNA Methylation Differences in Discordant Gaucher Disease Twins  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Nahid Tayebi, Dr. Ellen Sidransky

20-PM. Blythe Hospelhorn  
Development of a Structural Variant Detection Pipeline for the Undiagnosed Diseases Program  
University of Rochester (New York)  
Preceptor: Dr. David Adams

21-PM. Maxim Jestin  
TNF-α Mediates Hepatic Metabolic Decompensation due to Influenza in a Mouse Model of Mitochondrial Hepatopathy  
University of Nevada, Reno (Nevada)  
Preceptor: Dr. Peter McGuire

22-PM. Jessica Kang  
Consistent Differences in the Epigenetic Profile or Cultured Erythroid Cells from Transfusion Dependent, Steroid Responsive and Remission DBA Patients  
Duke University (North Carolina)  
Preceptor: Dr. David Bodine

23-PM. Parkes Kendrick  
Construction of a Custom Genomic Sequence Analysis Pipeline to Generate Novel Candidates for Undiagnosed Diseases  
University of Portland (Oregon)  
Preceptor: Dr. David Adams
24-PM. Cyrus Keyvanfar
A Type II Congenital Disorders of Glycosylation Disease with Biallelic Variants in COG6
University of Virginia (Virginia)
Preceptor: Dr. May Malicdan

25-PM. Austin Kim
High-speed Mosaicism Detection for Agnostic Genome-wide Detection, Using the DGX-1 Array Processor on an NHGRI Website for the Genetic Community
Macalester College (Minnesota)
Preceptors: Dr. William Gahl, Dr. Thomas Markello

26-PM. Srikar Kuppa
Assay Development for the Analysis of Platelet Storage Pool Diseases
University of Virginia (Virginia)
Preceptors: Dr. May Christine Malicdan, Dr. Thomas Markello

27-PM. Alexander Lesser
No Sham: Antibiotic Therapy Ameliorates Disease in a Mouse Model of cblA Methylmalonic Acidemia
Cornell University (New York)
Preceptors: Dr. Charles Venditti, Dr. Oleg Shchelochkov

28-PM. David McKellar
Establishment of RUNX1-Reporter hiPSC Lines to Identify Compounds That Promote Hematopoietic Differentiation
Georgia Institute of Technology (Georgia)
Preceptors: Dr. Paul Liu, Dr. Erika Kwon

29-PM. Laura Meissner
SUSD4: A Complement Regulator Involved in Neural Function
Villanova University (Pennsylvania)
Preceptor: Dr. Hongling Zhu

30-PM. Ilana Miller
Health Behaviors amongst Unaffected Participants following Receipt of Variants of Uncertain Significance in Cardiomyopathy-associated Genes
University of Michigan (Michigan)
Preceptors: Mrs. Katie Lewis, Dr. Leslie Biesecker
31-PM. Kelsey Murphy
*The First Viable Mouse Model of cblC Type Combined Methylmalonic Acidemia and Homocysteinemia: A Single Dose of AAV Rescues Neonatal Lethality and Is Comparable to Chronic B12 Injection Therapy*
Case Western Reserve University (Ohio)
Preceptors: Dr. Charles Venditti, Dr. Jennifer Sloan

32-PM. Tito Onyekweli
*GPI Anchor Disorders Demonstrate Abnormal Cholesterol Transport*
University of Maryland, College Park (Maryland)
Preceptor: Ms. Lynne Wolfe

33-PM. Bradley Power
*A Tale of Two Conditions: Similar Presentations of OCA and HPS in Adopted Chinese Patients*
St. Mary's College of Maryland (Maryland)
Preceptors: Dr. David Adams, Dr. Bernadette Gochuico

34-PM. Emily Rapp
*Use of in vitro and in vivo Methods for Mechanistic Studies of the Anti-Leukemic Compound Ro5-3335*
University of Missouri (Missouri)
Preceptors: Dr. Paul Liu, Dr. Jamie Diemer

35-PM. Sarah Sadozai
*Network Compositions of Families Affected by Sickle Cell Disease and Sickle Cell Trait*
Catholic University of America (District of Columbia)
Preceptors: Dr. Laura Koehly, Dr. Christopher Marcum

36-PM. Natalia Sampaio Moura
*Investigation of the Role of TAX1BP1 in Autoinflammatory Disease*
University of Maryland, College Park (Maryland)
Preceptors: Dr. David Beck, Dr. Ivona Aksentijevich

37-PM. William Simmons
*Modifying the Interaction of Deoxyhemoglobin and Band 3 Alters Hemoglobin S Polymerization in Sickle Cell Disease*
Colby College (Maine)
Preceptor: Dr. David Bodine

38-PM. Claire Slevin
*Hair Cell Regeneration in Zebrafish after Targeted Ablation of Hair Cells with Diphtheria Toxin*
Wesleyan University (Connecticut)
Preceptors: Dr. Shawn Burgess, Dr. Erin Jimenez
39-PM. Jason Swinderman  
*Integrating Transcriptomics and Live Cell Imaging to Compare Trisomy 21 and Euploid Cellular Phenotypes*  
Reed College (Oregon)  
Preceptors: Dr. Diana Bianchi, Dr. Faycal Guedj

40-PM. Apoorva Thatavarty  
*Mapping Protein-DNA Interactions in situ and at a Single Molecule Resolution*  
North Carolina State University (North Carolina)  
Preceptors: Dr. Daniel Bar, Dr. Francis Collins

41-PM. Tara Weixel  
*Abnormalities in the Lipid Profiles of Two PMM2-CDG Patients: Expanding the Phenotype or a Secondary Diagnosis?*  
American University (District of Columbia)  
Preceptor: Ms. Lynne Wolfe

42-PM. Tyler Wisniewski  
*Effect of Providing Education about Carrier Results via Web versus Genetic Counselor on the Subsequent Therapeutic Relationship*  
Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Lori Erby

43-PM. Anchi Wu  
*Improving Completeness in Automated Agnostic Genome Wide Analysis, Ethnic Specific Priors and Automated Deleted Exon Detection*  
Duke University (North Carolina)  
Preceptors: Dr. Thomas Markello, Dr. William Gahl

44-PM. Haley Yaremych  
*Recruiting Fathers for Participation in Health Research: A Method Comparison Study*  
University of Michigan (Michigan)  
Preceptor: Dr. Susan Persky

45-PM. David Yarnell  
*Establishing Mouse Models for Chediak-Higashi Disease Using Conventional Genetics and CRISPR/Cas9 Gene Editing*  
Oberlin College (Ohio)  
Preceptors: Dr. May Malicdan, Dr. Elena-Raluca Nicoli
46-PM. Luli Zou  
*Differentially Methylated Regions in Whole-genome Bisulfite Sequencing of Type 2 Diabetes-relevant Tissues*  
University of Wisconsin - Madison (Wisconsin)  
Preceptor: Dr. Francis Collins

**National Institute on Aging (NIA)**

47-PM. Sarah Ahmed  
*Genome Sequencing in Frontotemporal Dementia and Lewy Body Dementia: an Update*  
University of Massachusetts Boston (Massachusetts)  
Preceptor: Dr. Sonja Scholz

48-PM. Juan Alvarez-Gonzalez  
*Identification and Characterization of Small Molecule Inhibitors to Activation-induced Deaminase*  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Patricia Gearhart, Dr. Robert Maul

49-PM. Jessie Axsom  
*A Thermoneutral Environment Abolishes Age-associated Reduction in Heart Rate Variability in Mice*  
James Madison University (Virginia)  
Preceptor: Dr. Edward Lakatta

50-PM. Stephanie Baringer  
*The Role of ATM in Base Excision Repair in Chronic and Acute Systems of Loss*  
University of New Haven (Connecticut)  
Preceptors: Dr. Beverly Baptiste, Dr. Vilhelm Bohr

51-PM. Matthew Bigman  
*Structural and Physiological Alterations with Aging in Hetero- and Homo-geneous Mouse Species*  
James Madison University (Virginia)  
Preceptors: Dr. Edward Lakatta, Dr. Rafael de Cabo

52-PM. Kelsey Bullock  
*Impact of Metformin and Exercise on Phenotypes of Aging in Mice*  
University of California, Los Angeles (California)  
Preceptors: Dr. Rafael de Cabo, Dr. Ignacio Navas-Enamorado
53-PM. Sahil Chawla  
*Exosome Biomarkers of Iron Metabolism in Restless Legs Syndrome*  
University of Virginia (Virginia)  
Preceptor: Dr. Dimitrios Kapogiannis

54-PM. Meghan Davis  
*New Construct for High-efficiency Gene Editing in Mouse Cells*  
Loyola University Chicago (Illinois)  
Preceptors: Dr. Kirill Tarasov, Dr. Edward Lakatta

55-PM. Jameice DeCoste  
*Distinct Neuronal Subtype Project from Medial Septal Nuclei to Adult Born Neurons*  
Thomas Jefferson University (Pennsylvania)  
Preceptors: Dr. Henriette van Praag, Dr. Nirnath Sah

56-PM. Kate DeMeulenaere  
*Effects of Lipid Peroxidation Products on Viability of Human Neuronal Stem Cells*  
Carleton College (Minnesota)  
Preceptor: Dr. Chris Ramsden

57-PM. Margaux Ehrlich  
*Regulation of Insulin Signaling by NQO1*  
Florida Atlantic University (Florida)  
Preceptor: Dr. Rafael de Cabo

58-PM. Patrick Ellsworth  
*Association of Dietary Misreporting and Health Outcomes.*  
Oberlin College (Ohio)  
Preceptor: Dr. Eric Shiroma

59-PM. Katrina Estep  
*G-quadruplexes Stall the Mitochondrial Replisome and Are Associated with Sites of Mitochondrial Genetic Variation*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Robert Brosh

60-PM. David Figueroa  
*Effects of Ionizing Radiation on Neil1-/- Mice*  
Rutgers University (New Jersey)  
Preceptor: Dr. Vilhelm Bohr
61-PM. David Freeman
_Diabetes Mellitus Alters Extracellular Vesicle Characteristics and Function_
Hamilton College (New York)
Preceptor: Dr. Michele Evans

62-PM. Logan George
_Subcellular Distribution of HSP70 in Response to Arsenite_
College of William and Mary (Virginia)
Preceptor: Dr. Myriam Gorospe

63-PM. Nathaniel Ghena
_Evidence that Mitochondrial Sirt3 Protects Neuronal Networks Against Amyloid-Beta Peptide Toxicity by Constraining Excitability_
Central Michigan University (Michigan)
Preceptors: Dr. Mark Mattson, Dr. Aiwu Cheng

64-PM. Julia Gichimu
_Aberrant Regulation of Fanconi Anemia Protein FANCD2 Expression during Senescence in a Variant Cell Line_
Minnesota State University (Minnesota)
Preceptor: Dr. Michael Seidman

65-PM. Erin Goodstein
_The Role of Insulin Signaling in Gut Cell Proliferation_
College of William and Mary (Virginia)
Preceptors: Dr. Maire Doyle, Dr. Josephine Egan

66-PM. Jay Gupta
_Anatomical Distribution and Biological Modulators of Extracerebral AV1451 Binding Among Non-demented Older Adults_
University of California, Berkeley (California)
Preceptors: Dr. Murat Bilgel, Dr. Susan Resnick

67-PM. Madeleine Hagood
_Age-dependent Hypertension Development Is Associated with Cognitive Function Decline and Behavioral Activity Changes in Dahl Salt-sensitive Rats_
Tulane University (Louisiana)
Preceptors: Dr. Olga Fedorova, Dr. Yulia Grigorova

68-PM. Samuel Hamilton
_Study of Longitudinal Aging in Mice: Perspectives on Morbidity and Mortality_
Northwestern University (Illinois)
Preceptor: Dr. Rafael de Cabo
69-PM. Nicholas Huang
*Identification of Novel Rodent CB1R Isoforms and Their Regulation in Liver and Brain by Mouse Models of Hyperinsulinemia*
University of Michigan (Michigan)
Preceptors: Dr. Qing-Rong Liu, Dr. Josephine Egan

70-PM. Joshua Hunt
*Varied Profiles of Basal Forebrain Single-unit Activity during Forced Choice*
Kansas State University (Kansas)
Preceptors: Dr. Peter Rapp, Dr. Shih-Chieh Lin

71-PM. Kielee Jennings
*Physiological Effects of Alfaxalone Anesthesia in Nonhuman Primates*
Hood College (Maryland)
Preceptor: Dr. Julie Mattison

72-PM. Jennifer Jensen
*Effects of Heated Oil and Hydroperoxy Fatty Acid Consumption on Biochemistry and Histology in Murine Blood and Brain*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Anthony Domeniciello, Dr. Chris Ramsden

73-PM. Noel Jones-Camp
*Characterization of the Ectopic Recombination of Brain-specific Promoter Driven Cre*
Central Michigan University (Michigan)
Preceptor: Dr. Simonetta Camandola

74-PM. Danielle June
*Concussion and the Aging Brain*
University of Rochester (New York)
Preceptor: Dr. Lori Beason-Held

75-PM. Krystle Kalafut
*Regulation of Protein Synthesis by NQO1 and Its Implications for Cancer*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Rafael de Cabo, Dr. Andrea di Francesco

76-PM. Joshua Kittleson
*Is Hippocampal Interneuron Activation Disrupted in Aged Rats with Memory Impairment?*
University of California, Los Angeles (California)
Preceptor: Dr. Peter Rapp
77-PM. Justin Kung  
*Mapping the Direct Inputs and Outputs of ALDH1a1+ Nigrostriatal Dopamine Neurons in Mice*  
Columbia University (New York)  
Preceptors: Dr. Junbing Wu, Dr. Huaibin Cai

78-PM. Andrew Lachance  
*Mitochondrial Function and Metabolomics Analysis of High and Low Running Capacity Rats*  
Bates College (Maine)  
Preceptor: Dr. Miguel Aon

79-PM. Diana Lee  
*Investigating Myelin Content Changes in Normative Aging, Mild Cognitive Impairment, Alzheimer’s Disease, and Vascular Dementia Using Myelin Water Fraction, Diffusion Tensor Imaging, and g-Ratio Measurements*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Mustapha Bouhrara, Dr. Richard Spencer

80-PM. Michael Leone  
*Interstrand Crosslink Resolution in the Hematopoietic Stem Cell Population*  
University of Rochester (New York)  
Preceptor: Dr. Isabel Beerman

81-PM. Kristen Maiden  
*Synthesis of an Endogenous Lipid Mediator Derived from Linoleic Acid*  
University of North Carolina Wilmington (North Carolina)  
Preceptors: Dr. Chris Ramsden, Mr. Greg Keyes

82-PM. Tykeemi Manor  
*Anti-CD3/CD28 Antibody Conjugated with Microbubble Offers Superior Stimulation-induced Expansion of Human T Cells*  
University of Missouri (Missouri)  
Preceptor: Dr. Nan-ping Weng

83-PM. Christopher Mays  
*Characterization of CSB Paralogs and NER Related Proteins*  
Georgia Southern University (Georgia)  
Preceptor: Dr. David Wilson III

84-PM. Waverly McClusky  
*Analysis of Senescent Cells by CDKN2A/P16Ink4a Immunohistochemistry in Tissue Arrays*  
College of William and Mary (Virginia)  
Preceptors: Dr. Myriam Gorospe, Dr. M. Idda
85-PM. Taylor McNeely  
*Examining Differences in DNA Damage Accumulation in Human Blood Cell Populations*  
Bucknell University (Pennsylvania)  
Preceptor: Dr. Isabel Beerman

86-PM. Jacqueline Moats  
*Changes in Body Composition across Lifespan: A View from the Study of Longitudinal Aging in Mice.*  
Florida International University (Florida)  
Preceptor: Dr. Rafael de Cabo

87-PM. Keelin Moehl  
*Exploring the Effects of Exercise and Intermittent Fasting on Neuronal Function and Morphology in Mice*  
Amherst College (Massachusetts)  
Preceptor: Dr. Mark Mattson

88-PM. Emily Murphy  
*Longitudinal Analysis of Behavior in Brain Knockout SLC2A9-/- Mice*  
University of Colorado at Boulder (Colorado)  
Preceptor: Dr. Simoneta Camandola

89-PM. Natalie Murphy  
*Genome-wide Analyses Identify KIF5A as a Novel ALS Gene*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Bryan Traynor

90-PM. Alay Nanavati  
*ARA290, a Small Non-Hematopoietic Peptide Derived from Erythropoietin, Prolongs Healthspan and Attenuates Age-associated Declines in the Heart’s Structure and Function*  
College of the Holy Cross (Massachusetts)  
Preceptor: Dr. Edward Lakatta

91-PM. Akshay Naraine  
*Effect of Aging and Hypertension on Cerebral Artery Volume as Measured by MRI in Dahl Salt-sensitive Rats*  
Nova Southeastern University (Florida)  
Preceptors: Dr. Olga Fedorova, Dr. Rebecca McPherson

92-PM. Thomas Nguyen  
*Diversity, Sharing, and Linearity of αβ TCR Repertoires in Mouse Naïve, Memory, and Regulatory CD4+ T Cells*  
North Carolina State University (North Carolina)
93-PM. Ritu Pandey  
*Is p21 the Vehicle that Drives Senescence in Human Wound Healing?*  
Virginia Commonwealth University (Virginia)  
Preceptors: Dr. Ranjan Sen, Mrs. Cheryl Sherman-Baust

94-PM. Natalie Plick  
*The Impact of Weight and Sex Differences on the Metabolic and Neurological Effects of Chronic Caffeine Administration in Mice*  
Kenyon College (Ohio)  
Preceptor: Dr. Simonetta Camandola

95-PM. Daniel Pupo  
*Motor Learning and the Aging Brain; A Pilot Study*  
Texas A&M University (Texas)  
Preceptors: Dr. Qu Tian, Dr. Eleanor Simonsick

96-PM. Christopher Ramirez  
*Cardiac Anxiety*  
University of Central Florida (Florida)  
Preceptors: Dr. Edward Lakatta, Dr. Ismayil Ahmet

97-PM. Abinand Rejimon  
*Steady State Double Angle Method for Fast and Practical B1 Mapping*  
Indiana University (Indiana)  
Preceptors: Dr. Mustapha Bouhrara, Dr. Richard Spencer

98-PM. Tyler Rhinesmith  
*Importance of Dietary Composition in Periodic Fasting*  
Michigan State University (Michigan)  
Preceptor: Dr. Rafael de Cabo

99-PM. Aileen Rivell  
*Sonic Hedgehog: Activity and Modulation Beyond Development*  
Emory University (Georgia)  
Preceptor: Dr. Pamela Yao

100-PM. Carolyn Rutishauser, Elise Bonin  
*A Longitudinal Study of Voluntary Wheel Running in an Aging Rat Model*  
Michigan State University (Michigan), University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Edward Lakatta
101-PM. Maggie Schmaedick
Roles for Mitochondrial SIRT3 in the Regulation of Brain EEG Activity in Mice Subjected to Intermittent Bioenergetic Challenges and Acute Stress
University of Oregon (Oregon)
Preceptors: Dr. Ruiqian Wan, Dr. Mark Mattson

102-PM. Jay Sharma
Longitudinal Analysis of Alpha and Beta TCR Repertoire of Human Naive and Memory CD4+ and CD8+ T Cells
Lamar University (Texas)
Preceptor: Dr. Nan Ping Weng

103-PM. Lillian Shipp
Dissecting Functions of Individual Motifs of a Complex Eukaryotic Enhancer
University of Michigan (Michigan)
Preceptors: Dr. Ranjan Sen, Dr. Fatima Braikia

104-PM. Hannah Starnes
Development of an Ethogram for Assessing the Influence of Early Life Rearing Experience on Emotional Reactivity in Young and Aged Monkeys
St. Mary's College of Maryland (Maryland)
Preceptors: Dr. Jeffrey Long, Dr. Jennifer Young

105-PM. Kevin Stieger
Neurobiological Effects of Transcranial Magnetic Stimulation Are Age-dependent
Ohio State University (Ohio)
Preceptor: Dr. Peter Rapp

106-PM. Joyce Tran
Extracellular Vesicle Biomarkers of Insulin Resistance in Psychiatric Diseases
University of California, Los Angeles (California)
Preceptors: Dr. Dimitrios Kapogiannis, Dr. Maja Mustapic

107-PM. Erin Wade
Does Gait Speed Change in Aging Mice and Does It Mean Anything?
Florida Atlantic University (Florida)
Preceptor: Dr. Rafael de Cabo

108-PM. Ashley Wirth
Adenosine Decreases Sinoatrial Node Cell Firing Rate by Uncoupling its Membrane and Calcium Clocks
Williams College (Massachusetts)
Preceptors: Dr. Kenta Tsutsui, Dr. Edward Lakatta
109-PM. Annie Yang  
*Repairing a Broken Heart: Cardiomyocyte Proliferation and Regeneration*  
Dartmouth College (New Hampshire)  
Preceptors: Dr. Dongmei Yang, Dr. Edward Lakatta

110-PM. Eduardo Zavala  
*Transcriptional Changes from the Liver and Brain after NR Supplementation in AD Mouse Models*  
University of Texas - MD Anderson Cancer Center (Texas)  
Preceptors: Dr. Deborah Croteau, Dr. Vilhelm Bohr

111-PM. Jacob Ziontz  
*Modifiers of Tau PET Imaging Measures in Non-demented Older Adults*  
Grinnell College (Iowa)  
Preceptors: Dr. Murat Bilgel, Dr. Andrea Shafer

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

112-PM. Yeni Ait Ahmed  
*Kupffer Cell Repopulation during Liver Regeneration Is Independent of IL-6 and GM-CSF*  
University of Paris-Est (Non-U.S.)  
Preceptors: Dr. Bin GAO, Dr. Fouad LAFDIL

113-PM. Ryan Beckner  
*Development of Human Type-II Cannabinoid Receptor Constructs for Biophysical Characterization*  
University of Chicago (Illinois)  
Preceptors: Dr. Alexei Yeliseev, Dr. Klaus Gawrisch

114-PM. Jamie Burns  
*Impulsive Choice and BMI: An fMRI Study*  
George Washington University (District of Columbia)  
Preceptor: Dr. Peter Manza

115-PM. Nia Byrd  
*Why We Work for Alcohol: Determinants of Progressive-ratio Intravenous Alcohol Self-administration in Humans*  
University of Michigan (Michigan)  
Preceptors: Dr. Bethany Stangl, Dr. Vijay Ramchandani
116-PM. Nathan Coffey  
*Deletion of Cannabinoid Receptor 1 (CB1R) in Myeloid Cells Prevents the Progression of Bleomycin-induced Pulmonary Fibrosis in Mice*  
University of Missouri (Missouri)  
Preceptors: Dr. Resat Cinar, Dr. George Kunos

117-PM. Caroline Grant  
*Alcohol Withdrawal Trajectory Analysis and Clinical Outcomes*  
Northwestern University (Illinois)  
Preceptor: Dr. Laura Kwako

118-PM. James Hollingsworth  
*Actigraphy-derived Sleep Duration Is Associated with Relapse Following Inpatient Treatment for Alcohol Use Disorder*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Vijay Ramchandani

119-PM. Christopher Kure Liu  
*Interaction between Task-positive Network and Default Mode Network Dissociates Active versus Passive Reward Expectation and the Level of the Monetary Reward Feedback*  
University of California, Los Angeles (California)  
Preceptor: Dr. Sukru Demiral

120-PM. Abby Lieberman  
*Dorsal Striatal Modulation of Choice Learning and Flexibility*  
George Washington University (District of Columbia)  
Preceptor: Dr. Andrew Holmes

121-PM. Audrey Luo  
*Regulation of PCSK9 in Rodent Models Using Liquid Alcohol Diet*  
Yale University (Connecticut)  
Preceptors: Dr. Falk Lohoff, Dr. Jisoo Lee

122-PM. Kerry McFadden  
*Ambiguous Threat Governs Generalization of Anxiety-like Behavior and Differentially Recruits Cortico-Amygdala Regions in the Mouse*  
Northwestern University (Illinois)  
Preceptor: Dr. Andrew Holmes

123-PM. Josh Park  
*Tracheal Bleomycin Delivery Induces Drug Efflux Activity in the Lungs: A Pitfall for Pharmacological Studies on Experimental Pulmonary Fibrosis*  
Johns Hopkins University (Maryland)
Preceptors: Dr. Resat Cinar, Dr. George Kunos

124-PM. Gabrielle Pollack
*The Role of the Endocannabinoid System in Cortico-Amygdala Circuit Manipulation during Fear Extinction*
Vassar College (New York)
Preceptors: Dr. Andrew Holmes, Dr. Ozge Gunduz-Cinar

125-PM. Veronica Ramirez
*Personality and Emotionality Traits in Healthy Volunteers and Patients with Substance Use Disorders and Obesity*
University of San Diego (California)
Preceptors: Dr. Corinde Wiers, Dr. Nora Volkow

126-PM. Tanner Rigg
*Network Analysis of Intercalated Cells Associated with Context-dependent Fear and Extinction Memories*
University of New Mexico (New Mexico)
Preceptors: Dr. Andrew Holmes, Dr. Olena Bukalo

127-PM. Daniel Rosoff
*High-intensity Binge Drinking Is Associated with Harmful Cholesterol and Liver Function Enzyme Levels*
Brown University (Rhode Island)
Preceptor: Dr. Falk Lohoff

128-PM. Cody Savage
*The Role of Synthetic Cannabinoids in Kidney Injury*
University of Alabama at Birmingham (Alabama)
Preceptor: Dr. Janos Paloczi

129-PM. Alyssa Schneider
*Susceptibility to Social Influence Is Associated with Alcohol Consumption and Subjective Alcohol Effects*
Allegheny College (Pennsylvania)
Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

130-PM. Khalifa Stafford
*Transcriptomic Analysis of a Rat Model of Fetal Alcohol Syndrome*
Hunter College of the City University of New York (New York)
Preceptors: Dr. Kornel Schuebel, Dr. David Goldman
131-PM. Tyler Stodden
Understanding Fentanyl Pharmacokinetics in the Brain: Radiolabeling and PET Study Design
University of Missouri (Missouri)
Preceptor: Dr. Sunny Kim

132-PM. Lauren Sussman
White Matter Microstructural Differences between Men and Women with Alcohol Use Disorder
Wake Forest University (North Carolina)
Preceptor: Dr. Reza Momenan

133-PM. Julia Swan
Influence of Alcohol Use Disorder and Comorbid Psychopathology on Discounting of Delayed Rewards
University of Michigan (Michigan)
Preceptor: Dr. Vijay Ramchandani

134-PM. William Taylor
Structural and Fear Learning Changes Following Blast Induced Mild Traumatic Brain Injury
American University (District of Columbia)
Preceptors: Dr. Andrew Holmes, Dr. Mio Nonaka

135-PM. Courtney Vaughan
Alcohol Expectancy Effects in Social Drinkers
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

136-PM. Olubukola Abiona
Novel MERS Coronavirus Spike Antigen Elicits Antibodies to Conserved Epitopes
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Kizzmekia Corbett

137-PM. Jafar Al Souz
Tetracysteine Tagged OVA(323-339) Peptide as a Novel Tool for Visualizing Peptide-MHCII Complexes in Primary Mouse Cells
University of California, Irvine (California)
Preceptor: Dr. Billur Akkaya

138-PM. Jenna Andrews, Jessica Medrano
Detection of Anti-mycobacterial Metabolites from Bog Bacteria
Colorado State University (Colorado), University of Florida (Florida)
Preceptor: Dr. Clifton Barry, III

139-PM. Avan Antia
*Single Cell Sequencing of Paired Heavy and Light Immunoglobulin Chains*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Daniel Douek, - Amy Henry

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

141-PM. Sahaana Arumugam
*PathSeq: Sequencing the Circulating Microbiome*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Daniel Douek, - Amy Henry

142-PM. Alice Bell
*Optimization of Fluorescent Proteins for Studying Mycobacterial Biology*
Bryn Mawr College (Pennsylvania)
Preceptors: Dr. Gareth Prosser, Dr. Clifton Barry, III

143-PM. Lars Berg
*Phenotypic Analysis of Clinical Isolates of Granulibacter bethesdensis, an Emerging Pathogen in Patients with Chronic Granulomatous Disease*
Wesleyan University (Connecticut)
Preceptors: Dr. Kol Zarember, Dr. John Gallin

144-PM. Nathan Board
*Isolation of Epstein-Barr Virus-Specific Monoclonal Antibodies from an Immunized Cynomolgus Macaque*
University of California, San Diego (California)
Preceptor: Dr. Jeffrey Cohen

145-PM. Alexie Carletti
*Characterization of the Cytokine Response of Murine Monocytes during Toxoplasma gondii Infection*
University of Washington (Washington)
Preceptors: Dr. Dragana Jankovic, Dr. Alan Sher
146-PM. Jack Chovanec
A Novel Promoter Commonly Linked to Duplicated TPSAB1 Causes Pro-Alpha-Tryptase Over-expression in Hereditary Alpha Tryptasemia
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Jonathan Lyons

147-PM. Kimberly Church
Virus-like Particle Vaccine Carrier for Placental Malaria Epitope Display
Johns Hopkins University (Maryland)
Preceptors: Dr. David Narum, Dr. Nicholas MacDonald

148-PM. Clare Cimperman
The Role of Transcription Factor T-bet in B Cell Mediated Responses to Plasmodium Infection
University of Wisconsin - Madison (Wisconsin)
Preceptors: Dr. Munir Akkaya, Dr. Susan Pierce

149-PM. John Collins
The Chlamydia Inclusion Membrane Protein CT135 Evades Neutrophil Host Cell Defense by Activating the Inflammasome and Exacerbates Pathology
University of Tennessee (Tennessee)
Preceptor: Dr. Harlan Caldwell

150-PM. Kristina Edwards
Purification of HIV Gag Polyprotein
University of Edinburgh (Non-U.S.)
Preceptor: Dr. Joe Marcotrigiano

151-PM. Anna Eisenberg
High Incidence and Burden of HIV Infection in East London, South Africa
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Thomas Quinn, Dr. Bhakti Hansoti

152-PM. Razan Eltilib
The Role of HIV-1 Envelope Protein gp120 N-Linked Glycans in Binding to and Signaling through Integrin α4β7 on CD4+ T cells
Duke University (North Carolina)
Preceptor: Dr. James Arthos

153-PM. Robert Emeh
Siglec-7 on Human Eosinophils: Modulation of Expression and Effect on Cellular Activation
Alabama State University (Alabama)
Preceptors: Dr. Fanny Legrand, Dr. Amy Klion
154-PM. Omar Escobedo
Functional Characterization of a NOX5 in-Frame Deletion Detected in Very Early Onset Inflammatory Bowel Disease (VEO-IBD)
University of California, San Diego (California)
Preceptor: Dr. Thomas Leto

155-PM. Jacob Flynn
Isolation of Translocating Bacteria in Progressive SIV Infection of Rhesus Macaques
Cornell University (New York)
Preceptors: Dr. Jason Brenchley, Dr. Alexandra Ortiz

156-PM. Meera Garriga
An Optimized Protocol for CRISPR-Cas9 Transfection in Malaria Parasites
University of Chicago (Illinois)
Preceptor: Dr. Sanjay Desai

157-PM. Alex George
ITK Is a Magnesium Sensor during T Cell Activation
Georgia Institute of Technology (Georgia)
Preceptor: Dr. Chrysi Kanellopoulou

158-PM. Wendy Geslewitz
Lung Eosinophils Isolated from Allergen-challenged Mice Display Prolonged Viability and Upregulate Nucleoside Diphosphate Kinase Homolog 5 (NME5).
Denison University (Ohio)
Preceptor: Dr. Helene Rosenberg

159-PM. Jenny Gong
Phase 1 Challenge Infection of Healthy Adult Volunteers with Respiratory Syncytial Virus
University of Michigan (Michigan)
Preceptors: Dr. Lesia Dropulic, Dr. Jeffrey Cohen

160-PM. Lea Graber
Testing Protein Tags for Mass Marking and Tracking of Mosquitoes under Field Conditions
University of Minnesota (Minnesota)
Preceptor: Dr. Tovi Lehmann

161-PM. Jada Hackman
Population Level Diversification of Hepatitis C Viral Strains over Time among People Who Inject Drugs in Baltimore, Maryland
Juniata College (Pennsylvania)
Preceptor: Dr. Oliver Laeyendecker
162-PM. Kurt Hill
*Immunization with HIV-1 Fusion Peptide and BG505 Envelope Trimer Elicits Broadly Neutralizing Antibodies Against Diverse HIV-1 Strains in Rhesus Macaques*
Georgetown University (District of Columbia)
Preceptor: Dr. Cheng Cheng

163-PM. Lutfi Huq
*Mining Adaptive Immunity for Immunostimulatory Bacteria in HIV*
Cornell University (New York)
Preceptor: Dr. Ivan Vujkovic-Cvijin

164-PM. Geoffrey Hutchinson
*Assay Development to Assess Heterosubtypic Immunogenicity Profile of Universal Flu Vaccine Candidates*
Ball State University (Indiana)
Preceptors: Dr. Barney Graham, Dr. Seyhan Boyoglu-Barnum

165-PM. Jarrett Jackson
*Large-scale Genetic Screening for α-Thalassemia: Workflow and Implementation at the NIH Clinical Center*
Howard University (District of Columbia)
Preceptor: Dr. Parker Ruhl

166-PM. Moriah Jackson
*Evaluating the Efficacy of Clostridium butyricum MIYAIRI 588 in the Clinical Improvement of Colitis and Diarrhea in Rhesus Macaques*
University of Georgia (Georgia)
Preceptor: Dr. Diana Scorpio

167-PM. Emma Johnson
*Design and Synthesis of Menaquinone Probes for Protein Profiling Study of Electron Transport System in Mycobacterium tuberculosis*
Colgate University (New York)
Preceptors: Dr. Sangmi Oh, Dr. Clifton Barry III

168-PM. Tristan Jordan
*Mucosal Delivery of a Live-attenuated Replication-competent Herpes Simplex Virus 2 Vaccine Confers Complete Protection from a Lethal Virus Challenge in Mice*
University of Southern California (California)
Preceptors: Dr. Kening Wang, Dr. Jeffrey Cohen
169-PM. Sahand Kalhori  
*Volunteer Recruitment and Enrollment in a Malaria Vaccine Study*  
Vanderbilt University (Tennessee)  
Preceptor: Dr. Agnes Mwakingwe-Omari

170-PM. Pauline Kaplan  
*Assessing the Impact of PARP Inhibitors on Cancer Immunology*  
University of California, Davis (California)  
Preceptors: Dr. Casey Daniels, Dr. Aleksandra Nita-Lazar

171-PM. Morgan Karetnick  
*Fusing the Old to the New: PpSP15-143 as a Novel Vaccine Candidate*  
Princeton University (New Jersey)  
Preceptor: Dr. Fabiano Oliveira

172-PM. Daniel Kim  
*Detection of an Emerging GII.4 Norovirus Recombinant in Immunocompromised Patients*  
Emory University (Georgia)  
Preceptor: Dr. Kim Green

173-PM. Megan Kober  
*Activating Mutations in Human GNAI2 Impair T Cell Chemotaxis and Enhance Activation by Affecting Translational Machinery*  
University of Puget Sound (Washington)  
Preceptors: Dr. Hyoungjun Ham, Dr. Helen Su

174-PM. Stephen Lai  
*Equal Distribution of SIV DNA in Memory T Helper Subsets of Asian Macaques*  
University of California, Los Angeles (California)  
Preceptors: Dr. Jason Benchley, Dr. Joseph Mudd

175-PM. Matthew Liu  
*The HIV Envelope Protein gp120 Mimics the Natural Ligand of the Principal Gut Homing Receptor for CD4+ Lymphocytes*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. James Arthos, Dr. Claudia Cicala

176-PM. Sarah Lucas  
*Optimization of Antibody Lineage-specific Primer Sets for VH:VL Paired Sequencing*  
University of Minnesota Twin Cities (Minnesota)  
Preceptor: Dr. John Misasi
177-PM. Anna Maximova
Chimeric Simian-Human Immunodeficiency Virus Infection Elicits HIV-1 Neutralizing Antibodies to the V1V2 Apex of the Surface Envelope Glycoprotein
College of William and Mary (Virginia)
Preceptors: Dr. John Mascola, Dr. Mangai Asokan

178-PM. Rita McCall
Virulence Gene Regulation in Bacillus anthracis by Anthrax Toxin Activator
Grinnell College (Iowa)
Preceptors: Dr. Andrei Pomerantsev, Dr. Stephen Leppla

179-PM. Jessica Medrano, Jenna Andrews
Screening of Bog Bacteria for Production of Anti-mycobacterial Metabolites
University of Florida (Florida), Colorado State University (Colorado)
Preceptor: Dr. Clifton Barry, III

180-PM. Danielle Mensah
Association of High Sub-telomeric Gene Expression and Brain Dissemination in Solid Organ Transplant Recipients with Cryptococcal Infection
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Peter Williamson, Dr. Guowu Hu

181-PM. Shannon Moyer
Swiss Webster Mice Display Both Resistance and Susceptibility to Cryptococcosis
Duke University (North Carolina)
Preceptors: Dr. June Kwon-Chung, Dr. Michael Davis

182-PM. Jessica Nino de Rivera
Genotyping α-Globin Variants in South East Asian Populations Using Droplet Digital PCR
Cornell University (New York)
Preceptors: Dr. Hans Ackerman, Dr. Dongying Ma

183-PM. Chinwoike Osigwe
Biomarkers of Active Infection with Onchocerca volvulus
Case Western Reserve University (Texas)
Preceptors: Dr. Thomas Nutman, Dr. Sasisekhar Bennuru

184-PM. Monica Paneru
Genome Comparison of Six Roseomonas mucosa Isolates: a Treatment for Atopic Dermatitis
James Madison University (Virginia)
Preceptors: Dr. Craig Martens, Dr. Ian Myles
185-PM. Jennifer Peek
*In vitro Culturing of Plasmodium vivax Parasites*
College of William and Mary (Virginia)
Preceptors: Dr. Karthigayan Gunalan, Dr. Louis Miller

186-PM. Vinay Penna
*Helios Plays a Critical Role in Naive CD4 T Cells in Vivo*
Washington University in St. Louis (Missouri)
Preceptors: Dr. Ethan Shevach, Dr. Angela Thornton

187-PM. Brent Piligian
*Eosinophil Depletion Therapy (anti-IL5Rα) for Patients with Hypereosinophilic Syndromes: Elucidating Predictors of Response and Relapse*
Central Michigan University (Michigan)
Preceptor: Dr. Fei Li Kuang

188-PM. Nicole Potchen
*Knockout of the Plasmodial Nutrient Channel Gene clag3 Halts Parasite Propagation and Elicits Compensatory Changes*
University of Michigan (Michigan)
Preceptor: Dr. Sanjay Desai

189-PM. Hayley Raquer
*Loss of Function Mutation in RHBD2 Causes Defects in TACE Maturation and Immunodeficiency*
Santa Clara University (California)
Preceptors: Dr. Jill Fritz, Dr. Michael Lenardo

190-PM. Jamie Redes
*The Role of Aspergillus fumigatus in Asthma*
Lafayette College (Pennsylvania)
Preceptor: Dr. Kirk Druey

191-PM. Catherine Redmond
*High Resolution Architecture of HPV Replication Foci*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Alison McBride

192-PM. Ariana Rowshan
*Elicitation of Fusion Peptide-directed Broadly Neutralizing Antibodies in Immunized Rhesus Macaques*
Occidental College (California)
Preceptor: Dr. Rui Kong
193-PM. Alia Sajani  
*HIV-1 and SIV gp120 Costimulation through Integrin α4β7 Promotes Activation of Memory CD4+ T cells*  
Grinnell College (Iowa)  
Preceptor: Dr. James Arthos

194-PM. Zoe Schmiechen  
*The Effects of Altered TGF-β Signaling on Human T Follicular Helper Cell Development and Function*  
Grinnell College (Iowa)  
Preceptors: Dr. Pamela Guerrero, Dr. Kate Weissler

195-PM. Ashley Schwarzer  
*Modeling Flea-borne Plague Dynamics in Wild Rodent Populations to Assess the Relative Importance of Two Transmission Mechanisms*  
Yale University (Connecticut)  
Preceptor: Dr. B. Joseph Hinnebusch

196-PM. Jeremiah Sims  
*Erythrocyte Ca++ ATPase Pump Activity Measured with Two Methods: Towards Novel Inhibitors as Antimalarials*  
Yale University (Connecticut)  
Preceptor: Dr. Sanjay Desai

197-PM. Ethan Strayer  
*A Structural and Mechanistic Study of a Family of Novel Protein Inhibitors of the Human Complement*  
Middlebury College (Vermont)  
Preceptor: Dr. John Andersen

198-PM. Andrew Tak  
*Experimental Evolution of Poxviruses: Increased Fitness Acquired during in vitro Passaging of a Vaccinia Virus Mutant with a Deletion of the O3 Entry Protein Gene*  
Georgetown University (District of Columbia)  
Preceptors: Dr. Bernard Moss, Dr. Ulrike Diesterbeck

199-PM. Sameha Tariq  
*Profiling microRNAs of Brugia malayi and Their Potential Roles in Regulation of Innate Immune Response*  
State University of New York at Old Westbury (New York)  
Preceptors: Dr. Roshanak Tolouei-Semnani, Dr. Thomas Nutman
200-PM. Brandon Theall

*Elucidating Synergistic and Antagonistic Effects of B Cell Receptor and Toll-Like Receptors 3, 4, and 9 in B Cell Activation*

University of Miami (Florida)
Preceptor: Dr. Munir Akkaya

201-PM. Christine Tin

*Limited Replication of GII.4/Rockville Norovirus in Transfected Human Cells*

Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Stanislav Sosnovtsev

202-PM. Laura Verú

*Long-Distance Wind Migration of Malaria Mosquitos in the Context of Sahelian Insects*

Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Tovi Lehmann

203-PM. Yiran Wang

*Structural Comparison of Vaccine-elicited Neutralizing Antibodies in Rhesus Macaques Provides Hints for Development of HIV-1 Fusion Peptide-based Vaccine*

Cornell University (New York)
Preceptors: Dr. Kai Xu, Dr. Peter Kwong

204-PM. Timothy Watkins

*B Cell Immortalization for Antibody Discovery and Cell Line Development*

Case Western Reserve University (Ohio)
Preceptors: Dr. Kristin Boswell, Dr. Richard Koup

205-PM. Adeline Williams

*Engineering Viral-like Particles as a Malaria Transmission-blocking Vaccine Platform for Plasmodium falciparum Pfs47 Antigen*

Yale School of Public Health (Connecticut)
Preceptors: Dr. Carolina Barillas-Mury, Dr. Gaspar Canepa

206-PM. Nicole Winchester

*Using Inpatient Directly Observed Therapy to Identify True Art Failure and Improve Treatment Outcomes*

State University of New York at Geneseo (New York)
Preceptor: Dr. Alice Pau

207-PM. Sean Windle

*Investigation of Plasmodium falciparum Susceptibility to the Antimalarial, Lumefantrine Using a Genetic Cross*

George Mason University (Virginia)
Preceptor: Dr. Thomas Wellems

208-PM. Gordon Wong  
*RGS4 Deficiency Protects Mice from Airway Hyper-responsiveness*  
State University of New York at Geneseo (New York)  
Preceptor: Dr. Kirk Druey

209-PM. Charles Wyatt  
*Comparison of Immune Cell Dynamics during Chemoprophylaxis Vaccination with Chloroquine or Pyrimethamine*  
Vanderbilt University (Tennessee)  
Preceptors: Dr. Irfan Zaidi, Dr. Agnes Mwakingwe-Omari

210-PM. Erik Zhivkoplias  
*Experimental Evolution of Poxviruses: Point Mutations in RNA Pol Compensate for Species Differences in Transcription Factors*  
St. Petersburg State University (Non-U.S.)  
Preceptor: Dr. Bernard Moss

211-PM. Kenneth Zhou  
*Evolution of an MPER-directed Broadly Neutralizing Lineage in an HIV-infected Individual*  
University of Pennsylvania (Pennsylvania)  
Preceptors: Dr. Nicole Doria-Rose, Dr. John Mascola

212-PM. Emily Zurales  
*Characterization of the Longitudinal Antibody Response to Prospective Malaria Vaccine Target Pfs230 in a Naturally Infected Population from an Endemic Region of Mali.*  
Loyola University Chicago (Illinois)  
Preceptors: Dr. Carole Long, Dr. Kazutoyo Miura

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

213-PM. Nathan Arnett  
*Assessment of Media pH Modulation on Bladder Cancer Tissue*  
Pennsylvania State University (Pennsylvania)  
Preceptors: Dr. Alexander Gorbach, Dr. Svetlana Pack

214-PM. Rohan Desai  
*3-D Ultrastructural Investigation of Human Pancreatic Islets of Langerhans by Serial Block-face Scanning Electron Microscopy*  
University of Michigan (Michigan)  
Preceptors: Dr. Maria Aronova, Dr. Richard Leapman
215-PM. Brandon Harvey, Michael Levin, Nensi Karaj
Creating a 4D Nuclear Atlas in Embryonic Caenorhabditis elegans
University of Florida (Florida), Temple University (Pennsylvania), University of Massachusetts Amherst (Massachusetts)
Preceptors: Dr. Ryan Christensen, Dr. Hari Shroff

216-PM. Sung Kim
Studying Protein Interactions of HIV-1 Gag by Sedimentation Velocity Analytical Ultracentrifugation
University of Maryland, College Park (Maryland)
Preceptors: Dr. Peter Schuck, Dr. Huaying Zhao

217-PM. Hans Prakash
Quantitative Nailfold Video Capillaroscopy Parameters Correlate with Dermatomyositis Activity and Damage
University of Virginia (Virginia)
Preceptors: Dr. Alexander Gorbach, Dr. Adam Schiffenbauer

218-PM. Michael Tobin
Structural Analysis of Activated Human and Mouse Platelets Using Serial Block-face Scanning Electron Microscopy
University of Maryland, College Park (Maryland)
Preceptors: Dr. Maria Aronova, Dr. Richard Leapman

219-PM. William Wulftange
Bioreactor Mimicry of Blood Vessel Oxygen Gradients Alters Cancer Cell Growth and Gene Expression Patterns
Friedrich-Alexander Universität (Non-U.S.)
Preceptors: Dr. Nicole Morgan, Dr. Michael Gottesman

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

220-PM. Natalie Aloi
Identifying Novel Vascular Genes in the Zebrafish Using AngioTag Profiling
St. Olaf College (Minnesota)
Preceptors: Dr. Brant Weinstein, Dr. Mayumi Miller

221-PM. Oluwadamilola Bankole
Investigating in-vivo interactions of Heterochromatin Proteins Identified by Transposon-based Integration Profiling in Fission Yeast
University of Illinois at Chicago (Illinois)
Preceptors: Dr. Si Young Lee, Dr. Henry Levin
222-PM. Jillian Belgrad
Anticholinesterase Gulf War Agents Induce Atypical Calcium Signaling in Oligodendrocyte Precursor Cells
Colgate University (New York)
Preceptor: Dr. Richard Fields

223-PM. Alaina Bever
Maternal Lipoprotein Levels in Relation to Birthweight Outcomes in the Effects of Aspirin in Gestation and Reproduction (EAGeR) Trial
Seattle University (Washington)
Preceptor: Dr. Katherine Grantz

224-PM. Lauren Correia
Investigating the Role of H19 IncRNA Expression on P53 Protein Activity
Haverford College (Pennsylvania)
Preceptors: Dr. Ki-Sun Park, Dr. Karl Pfeifer

225-PM. Joy Cui
Neural Correlates of Face Recognition during Early Adolescence
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Clay Mash, Dr. Marc Bornstein

226-PM. Reilly Curtin
Bone Growth and Function Is Regulated by Cilia-mediated Signalling
University of Massachusetts Amherst (Massachusetts)
Preceptor: Dr. Dan Sackett

227-PM. Anne Davidson
Towards a Randomized Library for Gene Silencing in Bacteria
Wheaton College, IL (Maryland)
Preceptor: Dr. Matthias Machner

228-PM. Elisabeth Davis
Setmelanotide to Treat Obesity Due to Proximal Leptin Signaling Pathway Defects
University of Chicago (Illinois)
Preceptor: Dr. Jack Yanovski

229-PM. Elizabeth Fishman
Investigating the Role of Wapl in Mammalian Development
Haverford College (Pennsylvania)
Preceptors: Dr. Karl Pfeifer, Dr. Judith Kassis
230-PM. Arianne Foster  
*Altered Distribution of ATG9A and Accumulation of Axonal Aggregates in Neurons from a Mouse Model of AP-4 Deficiency Syndrome*  
Stockton University (New Jersey)  
Preceptors: Dr. Juan Bonifacino, Dr. Raffaella De Pace

231-PM. Christina Freeman  
*Computationally Determined Free Energy Profiles of the Mucin-1 Transmembrane Homodimer*  
Saint Joseph's University (Pennsylvania)  
Preceptor: Dr. Alexander Sodt

232-PM. Natalie Gehred  
*Active Gene Transcription Halts the Spreading of a Polycomb Domain*  
Washington University in St. Louis (Missouri)  
Preceptors: Dr. Judith Kassis, Dr. Sandip De

233-PM. Nejla Ghane  
*Break It Up: A Study Evaluating Breaking up Daily Sedentary Behavior in Youth*  
Knox College (Illinois)  
Preceptors: Dr. Miranda Broadney, Dr. Jack Yanovski

234-PM. Jacob Gluski  
*Dual Leucine Zipper Kinase Is Rapidly Activated in Inducible TDP-43 Mouse Models of ALS*  
University of Michigan (Michigan)  
Preceptor: Dr. Claire Le Pichon

235-PM. Ryan Gober  
*Assessing the Role of Chemokine Signaling in the Development and Migration of Fluorescent Granular Perithelial Cells in the Zebrafish Brain*  
University of Miami (Florida)  
Preceptor: Dr. Marina Venero Galanternik

236-PM. Melissa Gonzales  
*Clinical, Genetic, and Molecular Characterizations of Pheochromocytoma in MEN2*  
Bucknell University (Pennsylvania)  
Preceptors: Dr. Rami Alrezk, Dr. Karel Pacak

237-PM. Dylan Hammond  
*Incidence in Niemann-Pick Type C in US Black Population*  
Howard University (District of Columbia)  
Preceptors: Dr. Simona Bianconi, Dr. Forbes Porter
238-PM. Elise Heisler
Parental Obesity and Offspring Failures on the Modified Checklist for Autism in Toddlers (M-CHAT) at ages 18 and 24 months
University of Michigan (Michigan)
Preceptors: Dr. Edwina Yeung, Dr. Hyojun Park

239-PM. Christine Hill
A Prospective Study of the Relationship of Sleep Quality and Duration with Gestational Weight Gain and Body Composition Change
University of Delaware (Delaware)
Preceptors: Dr. Leah Lipsky, Dr. Tonja Nansel

240-PM. Tiffany Holland
The Association between Preconception Fasting Glucose and Insulin with Anovulation or Time to Pregnancy
College of the Holy Cross (Massachusetts)
Preceptor: Dr. Enrique Schisterman

241-PM. Michelle Hong
Effect of Preso1 on Adult Hippocampal Neurogenesis
University of Washington (Washington)
Preceptor: Dr. Dax Hoffman

242-PM. Ciara Hu
MicroRNA-mediated Control of Lymphatic Vessel Development
University of Chicago (Illinois)
Preceptors: Dr. Hyun Min Jung, Dr. Brant Weinstein

243-PM. Akansha Jain
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Duke University (North Carolina)
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376-PM. Beverly Wu

Heterodimerization of Parkinson’s Disease-related CHCHD2 and ALS/FTD-related CHCHD10
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Preceptor: Dr. Derek Narendra

377-PM. Pomi Yun

Dynamic Breathing MRI: A Promising Biomarker of Diaphragmatic Function in COL6-related Dystrophy Patients and LAMA2-Related Dystrophy Patients
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Preceptors: Dr. Carsten Bonnemann, Dr. A. Foley

National Institute of Nursing Research (NINR)

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Preceptor: Dr. Wendy Henderson

379-PM. Kierra Butler

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380-PM. Mary Margaret Cosgrove

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*Gene Expression Profiling of Adipose Tissue in Kidney Transplant Recipients*
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Preceptors: Dr. Wendy Henderson, Dr. Jeffrey Robinson
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