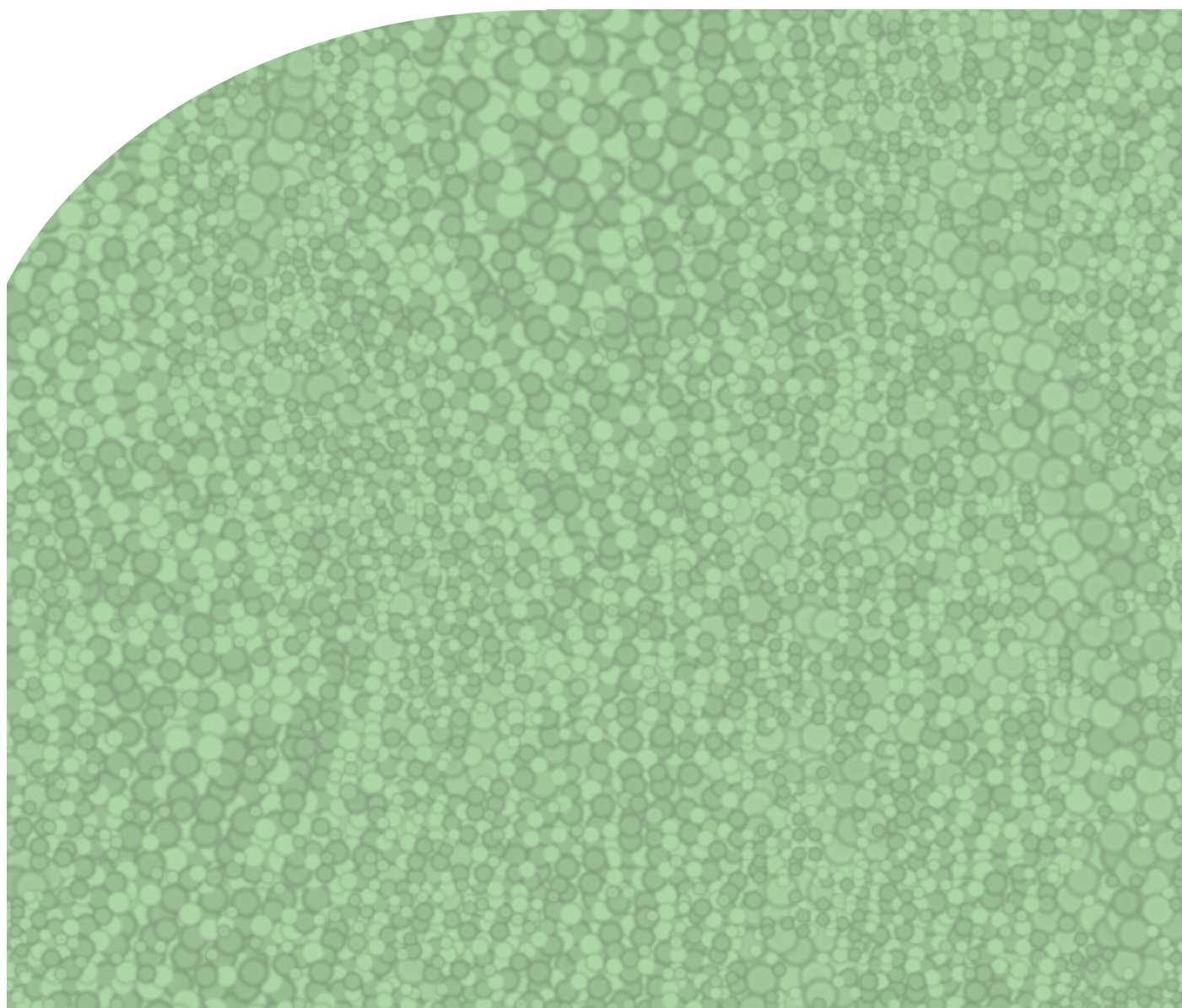
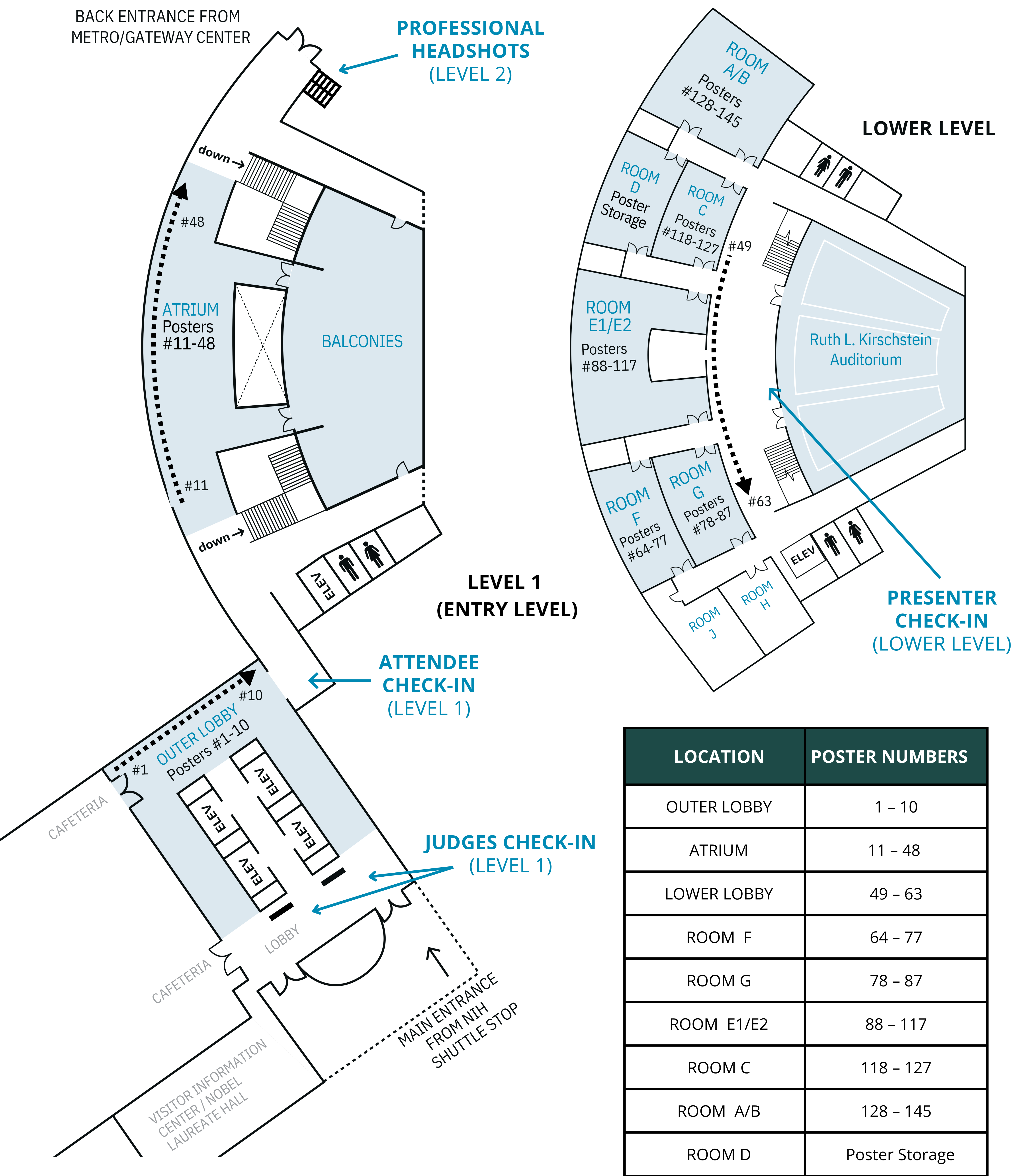

NIH POSTBAC POSTER DAY

April 30, 2026



NIH POSTBAC POSTER DAY

NATCHER CONFERENCE CENTER (BUILDING 45)



LOCATION	POSTER NUMBERS
OUTER LOBBY	1 – 10
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NIH POSTBACCALAUREATE POSTER DAY

Poster Session Information

NIH Postbac Poster Day 2026 is organized into seven in-person sixty-minute poster sessions.

Highlights

- The poster sessions will be held at the Natcher Conference Center (Building 45) on the main campus in Bethesda.
- Sessions are organized by Institutes and Centers with the first session starting at 9:00 am and the final session concluding at 5:00 pm. There is a ten-minute break in between sessions.
- Professional Headshots will be offered twice during the day, from 10:30–11:45 AM and 2:00–3:15 PM.

Session	Time (ET)	Institute/Center
1	9:00 – 10:00 AM	CC • NIDCR • NIDDK • NIEHS • NIMHD
2	10:10 – 11:10 AM	NCI • NCI-DCEG • NCI-Frederick • NIAID • NIDCD
3	11:20 – 12:20 PM	NCCIH • NIA • NIDA • NLM
4	12:30 – 1:30 PM	NCATS • NHGRI • NIMH
5	1:40 – 2:40 PM	NEI • NHLBI • NIAMS • NINDS
6	2:50 – 3:50 PM	NIAAA • NIBIB • NICHD
7	4:00 – 5:00 PM	NCI • NIAID

POSTER SESSION INFORMATION

Thursday, April 30, 2026

Institute/Center	Poster Numbers
Session 1: 9:00 – 10:00 AM ET	
CC – Clinical Center	001 - 036
NIDCR – National Institute of Dental and Craniofacial Research	037 - 056
NIDDK – National Institute of Diabetes and Digestive and Kidney Diseases	057 - 104
NIEHS – National Institute of Environmental Health Sciences	105 - 124
NIMHD – National Institute on Minority Health and Health Disparities	125 - 134
Session 2: 10:10 – 11:10 AM ET	
NCI – National Cancer Institute	001 - 019
NCI - DCEG – National Cancer Institute, Division of Cancer Epidemiology & Genetics	020 - 028
NCI - Frederick – National Cancer Institute (Frederick Campus)	029 - 045
NIAID – National Institute of Allergy and Infectious Diseases (& Rocky Mountain Laboratories)	046 - 114
NIDCD – National Institute on Deafness and Other Communication Disorders	115 - 127
Session 3: 11:20 – 12:20 PM ET	
NCCIH – National Center for Complementary and Integrative Health	001 - 009
NIA – National Institute of Aging	010 - 080
NIDA – National Institute on Drug Abuse	081 - 126
NLM – National Library of Medicine	127 - 134
Session 4: 12:30 – 1:30 PM ET	
NCATS – National Center for Advancing Translational Sciences	001 - 023
NHGRI – National Human Genome Research Institute	024 - 069
NIMH – National Institute of Mental Health	070 - 133
Session 5: 1:40 – 2:40 PM ET	
NEI – National Eye Institute	001 - 019
NHLBI – National Heart, Lung, and Blood Institute	020 - 057
NIAMS – National Institute of Arthritis and Musculoskeletal and Skin Diseases	058 - 074
NINDS – National Institute of Neurological Disorders and Stroke	075 - 135
Session 6: 2:50 – 3:50 PM ET	
NIAAA – National Institute on Alcohol Abuse and Alcoholism	001 - 037
NIBIB – National Institute of Biomedical Imaging and Bioengineering	038 - 057
NICHHD – <i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development	058 - 136
Session 7: 4:00 – 5:00 PM ET	
NCI – National Cancer Institute	001 - 045
NIAID – National Institute of Allergy and Infectious Diseases	046 - 115

Note: There may be additional posters in each session. Refer to the long program book for more information.

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Session 1: 9:00 am – 10:00 am (ET)

CC – Clinical Center (1-001 – 1-036)

1-001. Ofek Blivis

The Thalamic Mediodorsal Role in Utilizing CARTPT in Enhancing Addiction and Pain

University of Maryland, College Park (Maryland)

Preceptors: Dr. Michael Iadarola, Dr. Matthew Sapio

1-002. Brynn Conrad

PET imaging of CNS aspergillosis using fungal-specific antibody fragment

Vassar College (New York)

Preceptors: Dr. Dima Hammoud, Dr. Neysha Martinez-Orengo

1-003. Upamanyu Dass-Vattam

Analysis of CT Biomarkers of Pheochromocytomas: Utility for Automated and Non-Invasive Classification of Genotypes

Stanford University (California)

Preceptors: Dr. Ronald Summers, Dr. Tejas Mathai

1-004. Samuel Degenhard

Flourishing in the Kitchen: The Relationship of Cooking and PERMA Components of Well-Being

Otterbein University (Ohio)

Preceptor: Dr. Nicole Farmer

1-005. Djaina-shae Dervil

Relationship Between Social Vulnerability Index Socioeconomic Factors and Access to Care Among Adults with Sickle Cell Disease

Florida State University (Florida)

Preceptor: Dr. Nicole Farmer

1-006. Michael Dunkelberg

Peripheral and Central Longitudinal Gene Expression Signatures Following Full-Thickness Thermal Injury in Rats

College of William & Mary (Virginia)

Preceptors: Dr. Matthew Sapio, Dr. Andrew Mannes

1-007. Gabriel Gibson

Normalizing Patellofemoral Cartilage Contact following a Temporary Block of the Vastus Lateralis, a Non-invasive 3D Dynamic in Vivo study.

George Mason University (Virginia)

Preceptor: Dr. Frances Gavelli

1-008. Neha Gupta

Proteomic Profiling Identifies Autoantibody-Specific Signatures and Predicts Lung Function and Mortality Risk in Myositis-Associated Interstitial Lung Disease

University of California, Los Angeles (California)

Preceptors: Dr. Julio Huapaya, Dr. Anthony Suffredini

1-009. Yunju Ha

Predicting the Incidental Risk of Type 2 Diabetes using Abdominal CT Biomarkers

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Ronald Summers, Dr. Tejas Mathai

1-010. Clare Howard

Assessing Accuracy and Reliability of Research and Diagnostic Tests in Clinical Practice

College of William & Mary (Virginia)

Preceptors: Dr. Valeria De Giorgi, Dr. Amanda Henning

1-011. Arushi Kotru

Associations Between Postural Limits of Stability and Gait in Traumatic Brain Injury

University of Alabama at Birmingham (Alabama)

Preceptors: Dr. Adrienne Jackson, Dr. Cris Zampieri

1-012. Collin Le

PET Imaging with 18F-Fluorocellobiose to Assess Treatment Response in an Aspergillus Infection Model

University of California, Los Angeles (California)

Preceptors: Dr. Dima Hammoud, Dr. Sichen Liu

1-013. Peyton Lee

Healthcare Transition Readiness in Adolescents and Young Adults with Congenital Adrenal Hyperplasia: Substudy of the MEC Transition of Healthcare Subcommittee

Colgate University (New York)

Preceptors: Dr. Deborah P. Merke, Ruth Parker

1-014. Mattias Lenz

Investigating the BCR Repertoire in Peripheral B Cells and Tissue from Hepatitis Associated BNHL Patients

Loyola University Chicago (Illinois)

Preceptors: Dr. Valeria De Giorgi, Dr. Amanda Henning

1-015. Langston Locke

Quantification of Portal Vein Tapering on CT for Staging Liver Fibrosis

Howard University (District of Columbia)

Preceptors: Dr. Ronald Summers, Dr. Tejas Mathai

1-016. Payton McClarity Jones

The Effects of Immune Dysregulation on FDG PET in CNS Infections

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Dima Hammoud

1-017. Grace Monette

Heart Rate Dynamics in Post-Acute COVID-19: Effects of Exercise Intervention on the Autonomic Nervous System

Binghamton University (New York)

Preceptors: Dr. Leighton Chan, Dr. Lisa Chin

1-018. Prerna Mukherjee

Screening for Chitin-Specific Nanobodies to Develop Fungal-Specific Imaging Tracers

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Asma Khan, Dr. Dima Hammoud

1-019. Afreen Mushtaheed

Shear Wave Elastography For Targeted Botulinum Toxin Injection In Task-Specific Hamstring Dystonia: A Case Report

University of St. Francis (Illinois)

Preceptors: Dr. Frances Gavelli, Dr. Katharine Alter

1-020. Shubhi Nanda

Developing a framework for electronic data capture using REDCap to support human clinical research

University of Texas at Austin (Texas)

Preceptor: Dr. Jennifer Barb

1-021. Morin Nessim

Characterization of RYR1 variants in congenital myopathy zebrafish models

West Virginia University (West Virginia)

Preceptor: Dr. Tokunbor Lawal

1-022. Shreya Papneja

Metabolic and Microbial Effects of Ultra-Processed Food Additives: A Review of Mechanistic Evidence in Preclinical and Translational Research

George Washington University (District of Columbia)

Preceptor: Dr. Katherine Maki

1-023. Isha Patel

Endothelial Senescence in Acute and Late COVID-19 Vasculopathy Using a Pulmonary Artery-on-a-Chip Model

University of Virginia (Virginia)

Preceptor: Dr. Robert Danner

1-024. Olivia Poczatek

Pharmacokinetics of Post-Transplantation Cyclophosphamide and Its Metabolites in Allogeneic Bone Marrow Transplantation for Hematological Malignancies

Georgetown College (Kentucky)

Preceptors: Dr. William Figg, Dr. Oluwatobi Arisa

1-025. Amber Rayford

Pharmacokinetic Characterization of Ribavirin in LASV-Infected Rhesus Macaques Using a Validated Liquid Chromatography-Mass Spectrometry Workflow

University of Maryland (Maryland)

Preceptors: Dr. Daniel Chertow, Dr. Andrew Platt

1-026. Anna Roberts Giacalone

The Relationship Between Sleep Deprivation, Cognitive Outcomes, and Alcohol Use Disorder: Gut Microbiome Pathways of Influence

University of Maryland College Park (Maryland)

Preceptors: Dr. Katherine Maki, Dr. Jennifer Barb Smith

1-027. Molly Ruebusch

11-Oxyandrogens as Novel Biomarkers of Male Subfertility in Classic 21-Hydroxylase Deficiency

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Deborah Merke, Dr. Sonal Vaid

1-028. Mayra Saintilus

Successful Transfection of RYR1 into HEK293 Cells

Nova Southeastern University (Florida)

Preceptor: Dr. Tokunbor Lawal

1-029. Jason Simon

Preliminary Results for the Randomized Cross-Over Mediterranean-like Unprocessed (CLEAN-MED) Diet Intervention Study of the Gut Microbiome of Healthy Adults

University of Virginia (Virginia)

Preceptors: Dr. Allison Brichacek, Dr. David Sacks

1-030. Callista Smith

Measuring Meaningful Change: A Comparison of Anchors for the 6-minute walk test in Spinal and Bulbar Muscular Atrophy

University of Chicago (Illinois)

Preceptors: Mrs. Melissa Waite, Dr. Minal Jain

1-031. Jacob Trick

Paradoxical Response to Treatment in Patients with Familial Male-Limited Precocious Puberty

Northwestern University (Illinois)

Preceptor: Dr. Deborah Merke

1-032. Austin Wang

Design of 3D-Printed Generalized Orthotics for Ubiquitous Exoskeleton Use in Children

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Noah Rubin, Dr. Thomas Bulea

1-033. Ti-Shawn Wellington

Longitudinal Abundances of Plasma Proteins from a Nonhuman Primate Model of Ebola Virus Disease

Hollins University (Virginia)

Preceptors: Dr. Daniel Chertow, Dr. Kevin Vannella

1-034. Shirleen Xu

Differential Effects of Low- and High-Stress Sleep Deprivation on the Rodent Gut Microbiome

Rutgers University (New Jersey)

Preceptor: Dr. Katherine Maki

1-035. Isabelle Yaremenko

CD36 Regulates Adenoviral Transduction In Vitro and In Vivo

University of Denver (Colorado)

Preceptors: Dr. Alexander Bocharov, Dr. Thomas Eggerman

1-036. Jenny Yarmovsky

A Bioinformatics Workflow for Shotgun Metagenomic Profiling of the Gut Microbiome

University of Maryland College Park (Maryland)

Preceptors: Dr. Jennifer Barb, Dr. Lorenzo Leggio

NIDCR – National Institute of Dental and Craniofacial Research (1-037 – 1-056)

1-037. Emma Buxton

Physiological viscosity enhances cell metabolism and migration via LAT1/mTORC1

University of California, Los Angeles (California)

Preceptor: Dr. Ken Yamada

1-038. Lauren Cook

A Constriction Injury Model of Neuropathic Pain Reveals Cell Subtype-Specific Transcriptional Remodeling in Trigeminal Ganglion Neurons

University of Texas at Dallas (Texas)

Preceptors: Dr. Ashok Kulkarni, Dr. Kenneth Yamada

1-039. Ibrahim Elbashir

Increased Human Chorionic Gonadotropin as a Manifestation of McCune-Albright Syndrome

University of Central Florida (Florida)

Preceptors: Dr. Alison Boyce, Dr. Vivian Macdonald

1-040. Wakako Endo

Characterization of Cancer Spheroid Protrusions in 3D collagen

University of Virginia (Virginia)

Preceptor: Dr. Kenneth Yamada

1-041. James Foreman

Crosstalk Between Macrophages and Regulatory T Cells in Oral Chronic Graft-Versus-Host Disease: An In Vitro Study Using Human Peripheral Blood Mononuclear Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jacqueline Mays, Dr. Rubina Sharma

1-042. Kayleigh Hackett

Investigating DiGeorge Region Protein Loss in Control and Patient Cells

Yale University (Connecticut)

Preceptors: Dr. Laura Kerosuo, Dr. Ed Zandro Taroc

1-043. Damilola Killanin

Exhaustion By Design: Chemokines and Chronic Stimulation in Chronic Graft-versus-Host Disease

Johns Hopkins University (Maryland)

Preceptors: Dr. Jacqueline Mays, Dr. Ana Costa Da Silva

1-044. Nancy Kye

Mechanical Stretch Shifts Cancer Cell Metabolism: Effects on Glycolysis and Oxidative Phosphorylation

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Lisbeth Berrueta Carrillo, Dr. Helene Langevin

1-045. Bojun Li

A Computational Framework for TCR Repertoire Similarity Analysis and Similarity Evaluation in Sjogren's Disease

Carnegie Mellon University (Pennsylvania)

Preceptor: Dr. Blake Warner

1-046. [Presenter Withdrawal]

1-047. Sidharth Paparaju

A Targeted Ubiquitylation CRISPRi Screen Uncovers Candidate Regulators of Neural Crest Formation

University of California, Los Angeles (California)

Preceptor: Dr. Shaun Abrams

1-048. Kevin Rojas

Endoplasmic Reticulum Lipid Scramblases in Ca^{2+} Signaling

Johns Hopkins University (Maryland)

Preceptor: Dr. Shmuel Muallem

1-049. Amaya Rothrock

Effect of Copeptin on Megakaryocyte maturation and their platelet production

American University (District of Columbia)

Preceptors: Dr. Abhinav Parashar, Dr. Eva Mezey

1-050. Jacob Svoisky

Length-sensing deubiquitylases (IsDUBs) as a widespread mechanism for tuning ubiquitin signaling

University of Maryland, College Park (Maryland)

Preceptors: Dr. Achim Werner, Ms. Youmei Wu

1-051. Erin Thomas

NANOG-Interacting Proteins Confer Dual Roles in Pluripotency and Neural Crest Specification

Rensselaer Polytechnic Institute (New York)

Preceptors: Dr. Laura Kerosuo, Dr. Karla Barbosas Sabanero

1-052. Jacob Timko

Unveiling ANO6 Chloride Channel Activity in Response to Calcium and cAMP Stimuli

College of William and Mary (Virginia)

Preceptor: Dr. Shmuel Muallem

1-053. Bronson Vann

Copeptin and Vasopressin: Partners in gluconeogenesis

Purdue University (Indiana)

Preceptor: Dr. Eva Mezey

1-054. Z'Dhanne Williams

Quantifying vascular calcifications in a Hyperphosphatemic Familial Tumoral Calcinosis (hFTC) murine model

Molloy University (New York)

Preceptors: Dr. Kelly Rosko, Dr. Alison Boyce

1-055. Brendan Woodworth

An antimicrobial prodrug selectively inhibits Porphyromonas gingivalis and spares the oral microbiome

College of William & Mary (Virginia)

Preceptor: Dr. Akintunde Emiola

1-056. Danny Yi

Multi-omics Profiling of HCV-driven Salivary Gland Inflammation and Response to Direct-acting Antiviral Therapy

University of Maryland Baltimore County (Maryland)

Preceptors: Dr. John Chiorini, Dr. Natalie Atyeo

[NIDDK – National Institute of Diabetes and Digestive and Kidney Diseases \(1-057 – 1-104\)](#)

1-057. Minjun An

Prospective Paired Liver Biopsy Study of Histological Changes Post-Direct Acting Antiviral-Related Cure in Chronic Hepatitis C Infection

University of Michigan (Michigan)

Preceptor: Dr. Marc Ghany

1-058. Reem Araj

Expression of Human HSD17B13 in Mice Recapitulates Endogenous Mouse Hsd17b13-Mediated Hepatic Fibrosis under MASH-Inducing Conditions

McGill University (Canada)

Preceptors: Dr. Yaron Rotman, Dr. Lila Gonzalez Hodar

1-059. Seyedeh Yasaman Arefpour

High predicted cardiovascular event risk in patients with lipodystrophy versus pathogenic insulin receptor variants

The George Washington University (Maryland)

Preceptors: Dr. Rebecca Brown, Dr. Marissa Lightbourne

1-060. Ashley Bolds

A Preclinical Vancomycin-Induced Chronic Kidney Disease Model to Study the Unique Pathophysiology of Sepsis-induced Acute Kidney Injury in CKD Patients

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Robert Star, Dr. Peter Yuen

1-061. David Broughton

Mining Ultra-Large Chemical Space for Next-Generation P2Y₁₄ Receptor Antagonists to Treat Inflammatory Diseases

Franklin & Marshall College (Pennsylvania)

Preceptor: Dr. Kenneth Jacobson

1-062. Heather Bryant

Metreleptin reduces circulating BCAA independent of dietary intake in lipodystrophy

Vanderbilt University (Tennessee)

Preceptors: Dr. Rebecca Brown, Dr. Marissa Lightbourne

1-063. Neha Channamraju

Studying the mechanism of Target-Directed miRNA Degradation in C. elegans

University of Virginia (Virginia)

Preceptor: Dr. Katherine Mcjunkin

1-064. Olivia Charles

Photograph-based AI Features in Calorie-tracking Apps Underestimate Energy Content of Meals

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Stephanie Chung, Dr. Aaron Hengist

1-065. Isabel Cohen

Developing a Fos-TRAP-Cre Rat Model to Molecularly and Functionally Define Neurons Activated by Semaglutide and Cagrilintide

University of California, San Diego (California)

Preceptor: Dr. Michael Krashes

1-066. Ceanna Cooney

How E. coli manages growth in cold temperatures is highly dependent on growth conditions

Grove City College (Pennsylvania)

Preceptor: Dr. Deborah Hinton

1-067. Phoenix Davis

Engineering Nanobody-Peptide Conjugates to Dissect GPCR Function in Diabetes and Obesity

University of Washington (Washington)

Preceptor: Dr. Ross Cheloha

1-068. Eleanor Flacke

Day-to-Day Reproducibility of Exercise Energy Expenditure and Respiratory Exchange Ratio on a Ketogenic Diet

George Washington University (District of Columbia)

Preceptors: Dr. Stephanie Chung, Dr. Aaron Hengist

1-069. Madilyn Gaydos

Early Vascular Aging in Youth-onset Type 2 Diabetes: Associations with Glucose and Insulin Responses in the Young at Heart Study

University of Michigan (Michigan)

Preceptors: Dr. Stephanie Chung, Dr. Noemi Malandrino

1-070. Mishkat Habib

A Machine Learning Method to Measure Heart Motion and Strain from Cardiac MRI

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Ahmed Gharib, Dr. Khaled Abd-Elmoniem

1-071. Emma Harms

Identifying and Defining Regulatory Pathways Involved in Centriole Stability

San Francisco State University (California)

Preceptor: Dr. Kevin O'Connell

1-072. Hibo Hassan

Establishing a Degron System in Drosophila Ovarian Somatic Sheath Cells (OSCs) to Better Understand the PIWI-Interacting RNA (piRNA) Pathway

George Mason University (Virginia)

Preceptor: Dr. Astrid Haase

1-073. Diana Gabriella Hume Rivera

Why "Eat Fewer Ultra-Processed Foods (UPF)" is Challenging: Evidence for Transient Devaluation of Minimally Processed Foods (MPF) in Humans

Case Western Reserve University (Ohio)

Preceptor: Dr. Valerie Darcey

1-074. Puja Iyer

Validation of Proteins Identified from a Proximity Ligation Screen (PLS) for their Role in FMR1 Gene Silencing in Fragile X Syndrome

University of California, Berkeley (California)

Preceptors: Dr. Karen Usdin, Dr. Daman Kumari

1-075. Angel Jaimes

A small affinity peptide streamlines piRNA sequencing across mammals

Kennesaw State University (Georgia)

Preceptor: Dr. Astrid Haase

1-076. Gaurav Kalkunte

Understanding How Cdc37 Regulates the Conformational Dynamics of the Essential Chaperone Hsp90 Using Forward Genetic Screens and Biophysical Characterization

University of California, Los Angeles (California)

Preceptors: Dr. Michael Reidy, Dr. Daniel Masison

1-077. Ju Hee Kim

Bone Morphogenetic Protein 7 Increases the Thermogenic Capacity of Human White and Brown Adipocytes

Cornell University (New York)

Preceptor: Dr. Aaron Cypess

1-078. Patrick Klees

Nuclear elongation in the Saccharomyces cerevisiae mating response requires expression and proper localization of the inner nuclear membrane protein Prm3

Cornell University (New York)

Preceptor: Dr. Orna Cohen-Fix

1-079. Kathleen Kwon

Structural Investigation of the Klebsiella pneumoniae Ton Motor Complex

St. Olaf College (Minnesota)

Preceptor: Dr. Susan Buchanan

1-080. Olivia Lambertson

Cryo-EM structure of the sickle hemoglobin fiber at 1.9 Å... resolution

University of Richmond (Virginia)
Preceptors: Dr. William Eaton, Dr. Hans Ackerman

1-081. Somin Lee
Pharmacologic and Physiologic Brown Adipose Tissue Activation Reveal Divergent Circulating Molecular Profiles in Humans
Columbia University in the City of New York (New York)
Preceptor: Dr. Aaron Cypess

1-082. Jonathan Lim
Prevalence and Impact of Hepatic Steatosis on Clinical Outcomes in a U.S. Multi-Ethnic Cohort of Chronic Hepatitis B
Dartmouth College (New Hampshire)
Preceptors: Dr. Christine Hsu, Dr. Marc Ghany

1-083. Naomi Liu-Abramowicz
Liver-Directed Gene Therapy Enables Brain Delivery of GCase and Extends Survival in Neuronopathic Gaucher Disease Mice
University of California, Los Angeles (California)
Preceptors: Dr. Richard Proia, Dr. Maria Laura Allende

1-084. Veronica Locker
AI-based approach for automated quantification of inflammation severity on liver histopathology images in chronic hepatitis B
American University (District of Columbia)
Preceptor: Dr. Marc Ghany

1-085. John McKenna Soto
Circular Dichroism of A β 240 monomers reveals temperature-dependent conformational changes that may affect amyloid fibril formation
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Robert Tycko

1-086. Rob Mirabello
Fluorescent Tags Affect SPD-5 Distribution During Centrosome Disassembly in the Early C. elegans Embryo
Swarthmore College (Pennsylvania)
Preceptors: Dr. Orna Cohen-Fix, Dr. Richa Maheshwari

1-087. Alexis Moore
How does the IFNL4 Genotype Affect Liver Immunology?
Davidson College (North Carolina)
Preceptors: Dr. Keisuke Fukutomi, Dr. Barbara Rehmann

1-088. Jenny Nguyen
The effect of PMS1 on repeat expansions in a mouse model of Fragile X related disorders
University of Maryland College Park (Maryland)
Preceptors: Dr. Karen Usdin, Dr. Xiaonan Zhao

1-089. Eden Obodum-Kusi Appiah
Relationships between Vitamin C dietary intake, plasma concentration, and Vitamin C status in cohorts with and without chronic metabolic disease
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Ifechukwude Ebinuwa, Dr. Pierre Christian-Violet

1-090. Jenny Oh

Performance of an Automated Anti-HDV Immunoassay Compared With Manual Laboratory-Developed Tests Using a Composite Reference Method

Dartmouth College (New Hampshire)

Preceptor: Dr. Marc Ghany

1-091. Alexandria Primich

Designing Heterodimeric Zinc-Finger piggyBat Transpososomes for Targeted Genomic Integrations

University of Texas at Austin (Texas)

Preceptors: Dr. Frederick Dyda, Dr. Alison Hickman

1-092. Andrej Radoja

Establishing a Pan-Mammalian PIWI Affinity Peptide

University of Maryland, College Park (Maryland)

Preceptor: Dr. Astrid Haase

1-093. Sheidy Rios-Vazquez

Natural History Study on Body Size and Composition and Metabolic Health

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Kong Chen, Dr. Amber Courville

1-094. Nathan Grant Sala

Agreement of Continuous Glucose Monitoring During Oral Glucose and Mixed Meal Tests in Youth-Onset Type 2 Diabetes

University of Oxford (England)

Preceptor: Dr. Stephanie Chung

1-095. Hanna Salus

Cognitive Restraint and Socioeconomic Status Associated with Reduced Energy Intake from Ultra-Processed Foods in an Inpatient Controlled Feeding Study

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Valerie Darcey

1-096. Janan Semseddin

Accurate and Personalized Alzheimer's Disease Risk Assessment for Individuals of African Ancestry in the All of Us Research Program

George Washington University (District of Columbia)

Preceptors: Dr. William Simonds, Dr. Jianhua Zhang

1-097. Anika Shah

Insulin Resistance May Enhance the Diagnostic Reproducibility Of The 1h-Oral Glucose Tolerance Test

University of Wisconsin-Madison (Wisconsin)

Preceptor: Dr. Anne Sumner

1-098. Yodahe Shimelis

Improving Drug Discovery for Sickle Cell Disease Using a Whole Blood Assay

St. Mary's College of Maryland (Maryland)

Preceptor: Dr. William Eaton

1-099. Grace Smith

Body Mass Index in the Obese Category Is Not the Preferred Body Size for Either African Immigrant or African American Women

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Anne Sumner

1-100. Madeline Snyder

Development of a robust in vitro system to track C3 fragment deposition on human glomerular cells

University of Virginia (Virginia)

Preceptors: Dr. Behdad Afzali Khoshkbijari, Dr. Md Tajmul

1-101. Mabel Tong

Adrenergically Activated Human Brown and White Adipose Tissues Modulate Systemic Bile Acid Metabolism

Pennsylvania State University (Pennsylvania)

Preceptor: Dr. Aaron Cypess

1-102. Eeshi Uppalapati

Central Amygdala Astrocytes Encode Food Consumption but Not Reward-Predictive Cues

University of California, San Diego (California)

Preceptor: Dr. Andrew Lutas

1-103. Nivedha Vaidy

Succinate in Chronic Hepatitis C Virus-induced Cirrhosis

College of William and Mary (Virginia)

Preceptor: Dr. Theo Heller

1-104. Joelyz Wolcott

An amygdalopontine pathway promotes motor programs of ingestion

Florida State University (Florida)

Preceptor: Dr. Andrew Lutas

NIEHS – National Institute of Environmental Health Sciences (1-105 – 1-124)

1-105. Julia Bondareva

Sex-specific encoding and function of amygdala neurons during social behavior

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Julieta Lischinsky

1-106. Salvador Castillo

Making HiBiT stick around: Creation of a HiBiT-tagged ACE2 system in SMCHD1KO cells

Reinhardt University (Georgia)

Preceptors: Dr. Kaoru Inoue, Dr. Natalie Shaw

1-107. Margaret Copeland

Diphenhydramine Worsens Sleep Quality in 5XFAD Alzheimer's Mouse Model and Wild-Type Mice

University of Chicago (Illinois)

Preceptor: Dr. Jesse Cushman

1-108. Samantha Giammo

Hormonal Regulation of Adenosine in Orexin Neurons: Implications for Adolescent Sleep Efficiency

Ohio State University (Ohio)

Preceptor: Dr. Natalie Shaw

1-109. Kate Goodrich

PrestoGP Enables Penalized Multivariate Spatiotemporal Modeling of Heavily Censored PM2.5 Trace Metals

Baylor University (Texas)

Preceptor: Dr. Kyle Messier

1-110. Cameron Grant

A urinary metabolite links progesterone exposure to decreased sleep efficiency in adolescent girls

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Natalie Shaw

1-111. Jazmin Gutierrez-Hernandez

Creation of a LC-MS/MS Method for 2'-O-Methyladenosine and Isomers from Dried Urine Strips

University of North Carolina Greensboro (North Carolina)

Preceptor: Dr. Alan Jarmusch

1-112. Carl Hayes

Evaluating Sodium Thiosulfate as a Treatment for Calcinosis in Dermatomyositis Patients using Quantitative Longitudinal Computed Tomography Imaging.

Wake Forest University (North Carolina)

Preceptors: Dr. Lisa Rider, Dr. Adam Schiffenbauer

1-113. Ethan Levy

Temporal Relationship Between Peripheral Glucose Levels and Brain Activity in Humans

Johns Hopkins University (Maryland)

Preceptor: Dr. Leping Li

1-114. Meili Luther

Intra-amygdala circuits for territorial aggression

University of Washington (Washington)

Preceptors: Dr. Julieta Lischinsky, Dr. Jingheng Zhou

1-115. Grace Mallo

Human Embryonic Stem Cell-Derived Dopaminergic Neuron Reporter Line for Neurodevelopmental Toxicology Screening

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Erik Tokar, Dr. Guang Hu

1-116. Elizabeth Meyer

*Characterizing the *isfA* mutation in the major *E. coli* helicase *uvrD**

University of Michigan (Michigan)

Preceptors: Dr. Roel Schaaper, Mr. David Shock

1-117. Yazmin Munoz

APOL1 risk variants are associated with augmented pro-inflammatory Toll-like Receptor 7 signaling

University of California San Diego (California)

Preceptors: Dr. Michael Fessler, Dr. Mohammad Uddin

1-118. Bryan Ochoa

Can Nicotine Increase Voluntary Physical Activity?

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Jerrel Yakel

1-119. Katherine Patterson

Investigation of genetics modulators of the DENND1A locus, a top GWAS hit for polycystic ovarian syndrome (PCOS)

Florida Gulf Coast University (Florida)

Preceptor: Dr. Natalie Shaw

1-120. Vamshi Pothireddy

Investigation of Relationship of LINE1 Genetic Variability to Inflammatory and Disease Phenotypes in Human Subject

UT Austin (Texas)

Preceptor: Dr. Michael Fessler

1-121. Amelia Roselli

NLR4 Activation Drives Microbiome-Mediated Pulmonary Fibrosis

Davidson College (North Carolina)

Preceptors: Dr. Stavros Garantziotis, Dr. Yosuke Sakamachi

1-122. Lauren Taylor

Investigating the Genetic Determinants of Increased UV-Induced Genome Instabilities in Healthy Human Skin

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Dmitry Gordenin, Dr. Safia Mahabub Sauty

1-123. Arnav Thakar

Evaluation of Mutational Signatures in Rat Tumors Resulting from Chronic Inhalation Exposure to Vinyl Chloride

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Arun Pandiri, Mr. Thai Ton

1-124. Maya YUN

Neurobehavioral Effects of Altering Cholesterol Production in T-Cell Mediated Immunity

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Jesse Cushman

NIMHD – National Institute on Minority Health and Health Disparities (1-125 – 1-134)

1-125. Mikayla Cole

Biopsychosocial pathways linking perceived socioeconomic status-related stressors to mean arterial pressure

Tufts University (Massachusetts)

Preceptor: Dr. Allana T. Forde

1-126. Saketh Damera

Telehealth Experiences Among Spanish-prefering Rheumatology Patients at the NIH Community Health Clinic (CHC)

University of Florida (Florida)

Preceptor: Dr. Sherine El-Toukhy

1-127. Natalia Halachev

Understanding Mental Health Views and Stigma Among Ghanaians Living in the United States: The Influence of Social Proximity

College of Charleston (South Carolina)

Preceptors: Dr. Faustine Williams, Dr. David Adzrago

1-128. Roman Kassaraba

Perceived Neighborhood Walkability and Type 2 Diabetes: Insights from A Cross-Sectional Analysis of the 2024 National Health Interview Survey

University of Maryland, College Park (Maryland)

Preceptor: Dr. Kosuke Tamura

1-129. Sana Khan

Associations between Neighborhood Social Environment and Well-being, Stratified by Personality among the 2022 Health and Retirement Study Participants

University of Maryland, College Park (Maryland)

Preceptor: Dr. Kosuke Tamura

1-130. Joyce Lokanga Milandu

Demographic Correlates of Secondhand Cigarette, Cigar, Electronic Vapor Product, and Cannabis Smoke Exposure among US Adults

University of Maryland, College Park (Maryland)

Preceptor: Dr. Kelvin Choi

1-131. Gabriela Recinos

Enhancing Cardiometabolic Health Through Improved Interpersonal Processes of Care: Findings from Hispanic Community Health Study/Study of Latinos

University of Denver (Colorado)

Preceptors: Dr. Kelvin Choi, Dr. Eliseo Perez-Stable

1-132. Katherine Salko

Acceptance of ambulatory assessment tools: A cross-sectional study

University of Maryland, College Park (Maryland)

Preceptor: Dr. Sherine El-Toukhy

1-133. Jacob Schneider

Differences in barriers and facilitators to exercise promotion for breast cancer survivors across health care provider professions

University of Maryland: College Park (Maryland)

Preceptor: Dr. Jinani Jayasekera

1-134. Emma Tian

Tailored Exercise Strategies and Mortality Among Postmenopausal Breast Cancer Survivors: A Target Trial Emulation and Extension

University of Southern California (California)

Preceptor: Dr. Jinani Jayasekera

Session 2: 10:10 am – 11:10 am (ET)

NCI – National Cancer Institute (2-001 – 2-019)

2-001. Michael Ack

Exploring the Role of the TAU Protein in DNA Replication

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Mirit Aladjem, Dr. Christophe Redon

2-002. Claive Asiedu

Do Adintoviruses Infect Humans? A Serological Investigation

University of Tennessee-Knoxville (Tennessee)

Preceptor: Dr. Chris Buck

2-003. Frimpong Boateng

Peroxiredoxin 1 Safeguards the Nucleolar Genome from Oxidative Damage

University of Texas at Austin (Texas)

Preceptors: Dr. Urbain Weyemi, Dr. Vaibhavi Gujar

2-004. Brian Bui

Using Patient-Derived Tumor Organoids to Investigate Tumor Immunotherapy Escape in Metastatic Gastrointestinal Cancers

University of California, Los Angeles (California)

Preceptor: Dr. James Yang

2-005. Justine Burke

In-line dialysis mitigates metabolic waste to prolong ex vivo sustainability of perfused human tissue

Cornell University (New York)

Preceptor: Dr. Jonathan Hernandez

2-006. Ethan Caine

A novel enzyme responsible for the acp3U20 modification in P. aeruginosa

Carnegie Mellon University (Pennsylvania)

Preceptor: Dr. Pedro Batista

2-007. Allison Chang

Humanized single-domain antibody-based B7H3 CAR-T cells for increased immunogenicity in CAR T therapy

Emory University (Georgia)

Preceptor: Dr. Mitchell Ho

2-008. John Ching

Therapeutic Vulnerabilities and Characterization of Paired African American Prostate Cancer Cell Lines for Drug Development

Virginia Commonwealth University (Virginia)

Preceptors: Dr. William Figg, Dr. Cindy Chau

2-009. Eric Cho

NRP1 is a novel biomarker for a group of KSHV-infected Primary Effusion Lymphomas and has vital roles in virus replication.

Johns Hopkins University (Maryland)

Preceptors: Dr. Anna Serquina, Dr. Joseph Ziegelbauer

2-010. Yetzali Claudio-Medina

Engineering NK Cells to Express Membrane-Tethered IL-15 Strengthens Therapeutic Antibody-Mediated ADCC in Hypoxia

University of North Florida (Florida)

Preceptor: Dr. Sigrid Dubois

2-011. Soumili Dey

Development of potent FGFR4-targeted antibody-drug conjugates for rhabdomyosarcoma and other cancers expressing FGFR4

Northeastern University (Massachusetts)

Preceptor: Dr. Javed Khan

2-012. Stevie Fawcett

Targeting Cancer Stem Cells with a Novel Virus-Like Drug Conjugate

Washington State University (Washington)

Preceptor: Dr. John Schiller

2-013. Sarah Firdaus

Enhancing MAIT Cell-Mediated Anti-Tumor Immunity Through Chemically Stable Agonists

University of Maryland, College Park (Maryland)

Preceptors: Dr. Firouzeh Korangy, Dr. Tim Greten

2-014. Pia Gabrielle Gorme

Persistent Immune Activation in Persons with HIV-2 During Antiretroviral Therapy

Yale School of Public Health (Connecticut)

Preceptors: Dr. Frank Maldarelli, Dr. Chuen-Yen Lau

2-015. Maya Groff

Development of a novel high-throughput assay for discovering drugs that boost antigen presentation in cancer

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Javed Khan, Dr. David Milewski

2-016. Jamie Gudyka

Synergistic inhibition of rhabdomyosarcoma proliferation and survival by a hyperbolic NAMPT inhibitor in combination with pyrimidine agonist antimetabolites floxuridine and 5-FU

Iona University (New York)

Preceptor: Dr. Christine Heske

2-017. Lucas Guerrero

Identification of ATP binding cassette transporters at the zebrafish blood-brain barrier

Colorado State University (Colorado)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

2-018. Rebecca Gunnin

CRISPR-guided multiomics unveils direct mTOR phosphorylation of CDCP1

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Joe Nguyen

2-019. Eber Guzman-Cruz

A T-cell Engager Antibody Targeting the Non-Shed Site of Mesothelin in Solid Tumors

Towson University (Maryland)

Preceptor: Dr. Mitchell Ho

[NCI-DCEG – National Cancer Institute, Division of Cancer Epidemiology & Genetics \(2-020 – 2-028, 2-128\)](#)

2-020. Sumaja Bandreddi

A Comparison of Statistical Methods for Analyzing Semi-Continuous Longitudinal Data: Application to Studying the Dynamics of Mosaicism in a Population-Based Cohort

University of Virginia (Virginia)

Preceptors: Dr. Paul Albert, Dr. Pei Zhang

2-021. Caroline Esposito

Retrospective Calculation of Linear Energy Transfer Distributions for Pediatric Patients Treated with Passive Scattering Proton Therapy

Wellesley College (Massachusetts)

Preceptors: Dr. Keith Griffin, Dr. Choonsik Lee

2-022. Alanah McKeever

Implementing Biologically Relevant Promoters in MPRA to Assess Allele Specific Activity of GWAS Risk Variants for Pancreatic Ductal Adenocarcinoma

Harvard University (Massachusetts)

Preceptors: Dr. Laufey Amundadottir, Dr. Minal Patel

2-023. Sama Mikhail

Functional Validation of Lung Cancer Susceptibility Genes from Single-Cell Lung eQTL Dataset of Asian Never-Smokers

San Diego State University (California)

Preceptors: Dr. Jiyeon Choi, Dr. Jinhu Yin

2-024. Sophie Papiernik

Rare CDKN2B variants drive CDKN2A suppression via CTCF disruption in high-risk melanoma families

George Washington University (District of Columbia)

Preceptor: Dr. Kevin Brown

2-025. Elelta Sisay

Smoking and environmental-exposure related chromatin interaction of lung cells identifies target genes of lung cancer-associated variants

Pomona College (California)

Preceptor: Dr. Jiyeon Choi

2-026. Nicholas Syracuse

Integrative Genomics Identifies PI3K Pathway Drivers and Sensitivity to Targeted Inhibitors in Cervical Cancer

North Carolina State University (North Carolina)

Preceptor: Dr. Michael Dean

2-027. Luz Villanueva

Drinking Water Contaminants and Risk of Lymphohematopoietic Malignancies in the Iowa Women's Health Study

University of Maryland, College Park (Maryland)

Preceptor: Dr. Rena Jones

2-028. Andrew Wang

Characterization of Susceptibility Genes for Cutaneous Melanoma Via High-Throughput CRISPRi/a Screening

Pepperdine University (California)

Preceptor: Dr. Kevin Brown

2-128. Aiswarya Suriaprakash

Mutational Signature Landscape from 2770 Lung Cancers from Smokers and Never-Smokers

University of Maryland, College Park (Maryland)

Preceptors: Dr. Maria Landi, Mr. John Mcelderry

NCI - Frederick – National Cancer Institute (Frederick Campus) (2-029 – 2-045)

2-029. Thomas Abney-Lidahl

Investigating the Structural Basis of HIV-1 Capsid Inhibitor Dependence

University of Minnesota - Twin Cities (Minnesota)

Preceptor: Dr. Eric Freed

2-030. Leanna Bai

Discovery and Optimization of Anti-Glycan Antibodies Through Mammalian Cell Display

Brown University (Rhode Island)

Preceptor: Dr. Jeffrey Gildersleeve

2-031. Nicolas Bertuol

Uncovering the Basis for the Widespread Phenomenon of Autocrine Non-Responsiveness to Sonic hedgehog Signals

University of Chicago (Illinois)

Preceptor: Dr. Susan Mackem

2-032. Natalie Daigle

Investigating the role of AER-FGF signaling in pelvic girdle development

Vassar College (New York)

Preceptor: Dr. Mark Lewandoski

2-033. Weronika Damek Valvano

Investigating the Role of Spacer Peptide 2 (SP2) on HIV-1 Infectivity.

University of Michigan - Ann Arbor (Michigan)

Preceptors: Dr. Eric Freed, Dr. Yuta Hikichi

2-034. Krushnangi Das

Enrichment for Intact Proviruses Identifies Clinically Relevant Archived HIV-1 Resistance Mutations

University of Maryland, College Park (Maryland)

Preceptor: Dr. Frank Maldarelli

2-035. Samantha Hoge

*A whole-animal transcriptomic atlas for the highly regenerative flatworm *Macrostomum lignano**

University of Georgia (Georgia)

Preceptor: Dr. Erin Davies

2-036. Luke Kelley

Solo LTR Proviruses are Transcriptionally Quiescent But Retain tat Responsiveness Tat-mediated transcriptional activation in HIV solo LTR

University of Maryland (Maryland)

Preceptor: Dr. Frank Maldarelli

2-037. Maya Lines

The Dishevelled C-terminus interacts with the centrosomal protein Kizuna to regulate microtubule organization during ciliogenesis

Lawrence University (Wisconsin)

Preceptors: Dr. Ira Daar, Dr. Jaeho Yoon

2-038. Rameesha Mustafa

Rare Variants in DIS3L2 Implicate RNA surveillance in the Pathogenesis of Systemic Lupus Erythematosus

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Sandra Wolin, Dr. Sandra Williams

2-039. Anneka Nestvogel

The LacDiNAc Tumor-Associated Disaccharide: Development of Multivalent Tools to Further our Understanding of its Role in Cancer

University of North Carolina at Wilmington (North Carolina)

Preceptor: Dr. Joseph Barchi

2-040. Aleah Nguyen

Encapsulating HIV-Infected CD4+ T cells in Semi-Permeable Capsules (SPCs)

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Mary Kearney, Dr. Jason Rausch

2-041. Hannah Perry

Investigating the Requirement for Fgfs in Mesoderm Formation

The University of Edinburgh (Scotland)

Preceptor: Dr. Mark Lewandoski

2-042. Dylan Rothbort

Let-7 miRNAs are Uniquely Sensitive to Changes in Dicer Expression

Haverford College (Pennsylvania)

Preceptors: Dr. Shuo Gu, Dr. Sharan Malagobadan

2-043. Noah Salewski

Is Pericentrin Cleaved during Plk1-induced Centriole Disengagement in S-phase?

Gettysburg College (Pennsylvania)

Preceptors: Dr. Jadranka Loncarek, Dr. Dong Kong

2-044. Ahmed Sikder

The role of SNPs in transcription factor binding sites on KIR2DL1 gene expression

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Stephen Anderson

2-045. Alana Thomas

Characterization of HIV Proviruses in Brain Microglia in People with HIV on ART

College of William & Mary (Virginia)

Preceptors: Dr. Mary Kearney, Dr. Sean Patro

NIAID – National Institute of Allergy and Infectious Diseases (& Rocky Mountain Laboratories)
(2-046 – 2-114)

2-046. Sasha Abielmona

WHO-Recommended Artemisinin-Based Combination Therapies for Plasmodium falciparum and the Role of DHA-Induced Parasite Dormancy in vitro

American University (District of Columbia)

Preceptors: Dr. Thomas Wellems, Dr. Juliana Sa

2-047. Jasmine Adam

Role of cellular CD16 expression in antibody-dependent enhancement of dengue virus infection

University of Minnesota (Minnesota)

Preceptors: Dr. Leah Katzelnick, Dr. Rosie Aogo

2-048. Ricky Agyekum

Quality Control and Analytical Stability Assessment of P. falciparum Malaria Vaccine: cGMP Drug Product Intermediate Pfs230D1-EPA Conjugate

University of Maryland Baltimore County (Maryland)

Preceptors: Dr. Patrick Duffy, Mrs. Daming Zhu

2-049. Isaac Ali

Building a CITE-seq Cell Atlas of Rhesus Macaque Respiratory Tissue

North Carolina State University (North Carolina)

Preceptors: Dr. Daniel Douek, Dr. Cillian Gartlan

2-050. Taha Ali

Structure-based design of a Plasmodium Cpn60 nanoparticle vaccine fused with CSP protects mice from malaria

Marist University (New York)

Preceptors: Dr. Thayne Dickey, Dr. Niraj Tolia

2-051. Kaja Arusha

Immunoregulatory gene GIMAP6 suppresses lethal atherosclerotic vasculopathy and ischemic heart failure

Swarthmore College (Pennsylvania)

Preceptors: Dr. Chen Xiang, Dr. Helen Su

2-052. Sarah Ash

Biological role of virus-associated Vif proteolytic processing on viral infectivity

Washington University (Missouri)

Preceptors: Dr. Klaus Strebel, Dr. Luciana Morellatto Ruggieri

2-053. Nora Auma

Identifying and Characterization of Single HIV Outgrowth Viruses from the Viral Reservoir of ART Suppressed Ugandans

Howard University (District of Columbia)
Preceptors: Dr. Steven Reynolds, Dr. Andrew Redd

2-054. Keona Banks
Microbiome and Metabolomic Changes In Early Tracking of Childhood Health Determinants (ETCHED)
Howard University (District of Columbia)
Preceptor: Dr. Suchitra Hourigan

2-055. Marliece Barrios
Anti-T and B cell specificities and lytic function of IgM antibodies cloned from a patient with Idiopathic CD4 Lymphopenia
University of Notre Dame (California)
Preceptors: Dr. Ainhua Perez-Diez, Dr. Irini Sereti

2-056. Wesley Beckham
An Antibody-Based Transcriptional Analysis of Toxin Genes in Bacillus anthracis
University of Colorado at Boulder (Colorado)
Preceptor: Dr. Stephen Leppla

2-057. Remy Benoit-Smith
A549 as a Model System for Studying an Endothelial Nitric Oxide Synthase—Hemoglobin Complex.
Imperial College of Science, Technology and Medicine (England)
Preceptor: Dr. Hans Ackerman

2-058. Aislinn Bloom
Common polygenic background modifies risk for asthma among individuals with primary atopic disorders
Towson University (Maryland)
Preceptor: Dr. Jia Yan

2-059. Daniel Bloor
Unloading the Oligopeptide Binding Proteins of Lyme disease's Borrelia burgdorferi
Liberty University (Virginia)
Preceptor: Dr. David Garboczi

2-060. Grace Bodykevich
Evaluating Evans Blue dye as a measurement of intestinal barrier permeability during SIV infection
University of British Columbia (Canada)
Preceptors: Dr. Alexandra Ortiz, Dr. Jason Brenchley

2-061. Hanan Brower
Maternal Hypothyroidism as a Mediator of PFAS-Induced Alterations in Fetal Neurological Development
University of Texas at Austin (Texas)
Preceptor: Dr. Ian Myles

2-062. Julianne Bullock
A Recombinant Consensus Chiroptera IFN- β is Effective across Diverse Bat Taxa
Texas Tech University (Texas)
Preceptors: Dr. Vincent Munster, Dr. Sarah Van Tol

2-063. Naomi Butler
Glucose Control to Enhance Lactate Metabolism in CHO Clone
University of Maryland College Park (Maryland)
Preceptors: Dr. Theodore Pierson, Dr. Daniel Gowetski

2-064. Rohit Chebbi

Baculovirus: a Potential Tool for Tissue-Specific Gene Silencing in Mosquitoes

Birla Institute of Technology and Science, Pilani (India)

Preceptors: Dr. Joel Vega-Rodriguez, Dr. Thiago Luiz Alves E Silva

2-065. Kanika Chopra

Multimodal characterization of liver disease in NEMO-deleted exon 5 Autoinflammatory Syndrome (NEMO-NDAS): clonotype and transcriptomic profiles

Transylvania University (Kentucky)

Preceptor: Dr. Raphaela Goldbach-Mansky

2-066. Priya Christensen

Highly ordered concatemers of influenza neuraminidase tetramers as a novel vaccine antigen display modality

University of Washington - Seattle (Washington)

Preceptor: Dr. Masaru Kanekiyo

2-067. Landen Conner

Development of a Novel Seed Amplification Assay for Differentiating Pathogenic Tau Seeds in Alzheimer's Disease vs. CTE

Carroll College (Montana)

Preceptors: Dr. Suzette Priola, Dr. Efrosini Artikis

2-068. Logan Cook

Modeling T cell hyper-activation in Immune Effector Cell HLH-like Syndrome

University of Maryland College Park (Maryland)

Preceptors: Dr. Joseph Rocco, Dr. Irini Sereti

2-069. Sonali Dasari

Dynamics of Immunologic and Virologic Parameters in People with HIV Treated with Long-Acting Injectable Cabenuva

Columbia University (New York)

Preceptors: Dr. Tae-Wook Chun, Dr. Susan Moir

2-070. Bridget Dassenko

Spectral Flow Cytometric Characterization of Peripheral Blood Eosinophil Surface Markers in Hypereosinophilic Syndrome and Healthy Controls

Montana State University (Montana)

Preceptors: Dr. Amy Klion, Dr. Charles Anderson

2-071. Noa Deutsch

Anti-Peanut Antibody Repertoire in Allergic and Non-Allergic Children

University of Maryland, College Park (Maryland)

Preceptors: Dr. Daniel Douek, Dr. Noemia Santana Lima

2-072. Samira Diaz De Leon

IgG And IgA Immune Responses To Multi-Strain Probiotic Vivomixx In Maternal Gut Health During Pregnancy

Washington State University (Washington)

Preceptor: Dr. Suchitra Hourigan

2-073. Jesse Do

Antibody-Mediated Depletion of Leukocyte Subsets to Assess Immune Mechanism of Action During Viral Infection

University of South Florida (Florida)

Preceptor: Dr. Jason Brenchley

2-074. Thythy Do

Design of HIV-1 Envelope Mosaic Nanoparticle Immunogens to Elicit Broadly Neutralizing V2 Apex Antibodies

University of Southern California (California)

Preceptors: Dr. Zhantong Wang, Dr. Tongqing Zhou

2-075. Marissa Elassal

Deep Immunophenotyping of Breast Milk and Maternal Immunity over Lactation

University of Maryland - College Park (Maryland)

Preceptor: Dr. Kalpana Manthiram

2-076. Anna Erickson

Initiation of treatment with FDA-approved Avapritinib in a cohort of patients with indolent systemic mastocytosis:

Practical experience and one-year follow-up

Smith College (Massachusetts)

Preceptors: Dr. Hirsh Komarow, Dr. Ian Myles

2-077. Samantha Ertl

Development of a recombinant VSV vector expressing LUJV GPC and NP

Northern Arizona University (Arizona)

Preceptors: Dr. Heinz Feldmann, Dr. Thomas Tipih

2-078. Soheil Farid Azar

Differentially Abundant Proteins in Asthma Among Individuals of African Ancestry

George Mason University (Virginia)

Preceptor: Dr. Rasika Mathias

2-079. Sunyyah Fenelon-Foristall

Optimization of High-Throughput, Near-Full-Length HIV-1 Genome Sequencing

Boston University (Massachusetts)

Preceptors: Dr. Eli Boritz, Dr. Liliana Pérez

2-080. Brianna Francis

VRC54.01 Broadly and potently neutralizes historic and contemporary HIV-1 isolates

Johns Hopkins University (Maryland)

Preceptors: Dr. Nicole Doria-Rose, Dr. Evan Cale

2-081. Robert Freedman

Discordance between ICD9/10 and medication-based asthma severity definitions in the All of Us Database

Vassar College (New York)

Preceptor: Dr. Rasika Mathias

2-082. Christopher Friend

Evaluating mosaicism in NOMID and NEMO-NDAS

Saint Louis University (Missouri)

Preceptor: Dr. Raphaela Goldbach-Mansky

2-083. Justin Gaines

Assessing the Role of Trained Immunity in IV BCG-Induced Protection Against Mycobacterium Tuberculosis

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Robert Seder, Dr. Taylor Farley

2-084. Samuel Gillespie

Effects of a dynamin-inhibitor at multiple stages of vaccinia virus replication

University of Missouri-Columbia (Missouri)

Preceptor: Dr. Bernard Moss

2-085. Leonardo Giordano

A High-Throughput Focus-Forming Workflow Using Open-Source Opentrons OT-2

Florida International University (Florida)

Preceptor: Dr. Patrick Dolan

2-086. Allon Goldberg

A Modular, Extensible Framework for Protein-Drug Affinity Optimization

CUNY Hunter College (New York)

Preceptors: Dr. Reda Rawi, Dr. Tongqing Zhou

2-087. Zoe Gothhold

Pre-ART Vertical HIV-1 Transmission Risk in Uganda Varies by Sex of Child and Maternal Viral Subtype

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Oliver Laeyendecker, Dr. Steven Reynolds

2-088. Luke Halpern

The Effect of Rare and Common Genetic Variation on Atopic Dermatitis in Individuals with Primary Immune Conditions

Vanderbilt University (Tennessee)

Preceptor: Dr. Jia Yan

2-089. Sabrina Hammond

Differential T cell responses in parenchymal and subarachnoid neurocysticercosis patients

University of California Berkeley (California)

Preceptors: Dr. Elise O'Connell, Dr. Thomas Nutman

2-090. Emily Hansen

Development of a Minigenome System for Marburg Virus Angola

Cornell University (New York)

Preceptors: Dr. Andrea Marzi, Dr. Jil Haase

2-091. Sophia Henry

TLR11/12-mediated regulation of optimal myelopoiesis during Toxoplasma gondii infection

University of South Carolina (South Carolina)

Preceptors: Dr. Dragana Jankovic, Dr. P'Ng Loke

2-092. Maxwell Herman

Investigating the Molecular Basis of Antibody Repertoires Elicited by Candidate Zika Virus Vaccines

University of Wisconsin-Madison (Wisconsin)

Preceptors: Ms. Katherine Burgomaster, Dr. Theodore Pierson

2-093. Riley Hermes

Elicitation of Neutralizing Antibodies in rhesus macaques Immunized with a VLP-Forming mRNA Vaccine

University of Missouri (Missouri)

Preceptors: Dr. Paolo Lusso, Dr. Flavio Matassoli

2-094. Julius Herzog

scRNA-seq Reveals a Novel Granulocyte Cell State Associated With Itch-Induced Tick Removal in Guinea Pigs

University of Vermont (Vermont)

Preceptors: Dr. Jesus Valenzuela, Dr. Joshua Lacsina

2-095. Mohamed Ibrahim

Magnitude of blood pressure and renal vascular conductance responses to postural changes, exercise, and cold exposure in healthy adults

University of Maryland (Maryland)

Preceptors: Dr. Hans Ackerman, Dr. Parker Ruhl

2-096. Daniel Islas JimÃ©nez

Epitope specificity of IgA and IgG responses after Influenza Vaccination

California State University, Chico (California)

Preceptor: Dr. Sarah Andrews

2-097. Sari Jacob

Evaluating HIV-1 MPER bNAb Lineage Immunogens in VRC42.UCA Knock-In Mice: Early Evidence of Lineage Activation

University of Central Arkansas (Arkansas)

Preceptor: Dr. Nicole Doria-Rose

2-098. Mikhaila Janes

The Transcriptional Regulator NONO Potentiates the Antiviral Innate Immune Response

Montana State University (Montana)

Preceptors: Dr. Sonja Best, Dr. Adam Hage

2-099. Junseok Jang

Autologous Neutralizing Antibodies Targeting the Silent Face of the HIV Envelope

University of Texas at Dallas (Texas)

Preceptor: Dr. Susan Moir

2-100. Michelle Jung

Simukunin from the black fly Simulium vittatum inhibits complement lectin pathway activation.

Northwestern University (Illinois)

Preceptors: Dr. Eric Calvo, Dr. Paola Valenzuela-Leon

2-101. Riley Kim

Heterotrimeric G protein-RasGAP coupling drives adaptation during chemotaxis

University of Oregon (Oregon)

Preceptors: Dr. Xuehua Xu, Dr. Tian Jin

2-102. Adison Linder

Borrelia burgdorferi and Borrelia hermsii Diverge in Temperature-Regulated Gene Expression and Environmental Stressor Tolerance

University of Wyoming (Wyoming)

Preceptor: Dr. Ashley Groshong

2-103. Sara Mirbagheri

Determining the geographic origin and transmission of Plasmodium vivax through a genotyping assay.

George Mason University (Virginia)

Preceptors: Dr. Carolina Barillas-Mury, Dr. Alvaro Molina-Cruz

2-104. Jyotsna Nair

Cold shock protein expression in experimental cerebral malaria: An analysis of mouse brain transcriptional data

Massachusetts Institute of Technology (Massachusetts)

Preceptor: Dr. Hans Ackerman

2-105. Albert Park

Association between HLA Class I and II Alleles and Risk of Clinical Malaria Within a Malian Cohort

University of Kansas (Kansas)
Preceptor: Dr. Peter Crompton

2-106. Anna Prewitt
Structural and Functional Evaluation of Human Neutralizing Antibodies against SFTS Virus
Pomona College (California)
Preceptor: Dr. Daniel Douek

2-107. Gabriel Quiros
Adaptation of the TRACER Assay for Quantification of Translation-competent non-Subtype B HIV-1 Latent Viral Reservoirs
University of South Florida (Florida)
Preceptors: Dr. Steven Reynolds, Dr. Andrew Redd

2-108. Katherine Steinjann
*Determining the Minimum Flavivirus Dose Required to Infect *Ixodes scapularis* Adults*
Montana State University (Montana)
Preceptors: Dr. Bãrbara Weck, Dr. Marshall Bloom

2-109. Keelee Storrud
From killing to disarming: Identifying a synthetic Antivirulence Peptide against Salmonella Typhimurium
Utah State University (Utah)
Preceptors: Dr. Olivia Steele-Mortimer, Mr. Chadwick Hillman

2-110. Noah Strathmann
Processing Clinical Lavage Samples for COVID-Induced Fibrin Deposition
Ithaca College (New York)
Preceptor: Dr. Peter Sun

2-111. Shanlea Tabofunda
Investigating the role of beta globin in mouse resistance artery endothelium
University of California Davis (California)
Preceptors: Dr. Md Hakim, Dr. Hans Ackerman

2-112. Juliet Trautman
Using FRET Microscopy to Study HIV Envelope cis-Interactions with CD4
Johns Hopkins Bloomberg School of Public Health (Maryland)
Preceptor: Dr. Peter Sun

2-113. Angelina Varon
Differential Antibody Responses to Initial Sars-CoV-2 Infection Between Ugandan and US Individuals
Northeastern University (Massachusetts)
Preceptor: Dr. Oliver Laeyendecker

2-114. Brian Xi
In vitro Modeling of Recrudescence from Dormant Malaria Parasites Induced by Chloroquine or Amodiaquine Treatment
University of Maryland at College Park (Maryland)
Preceptors: Dr. Thomas Wellems, Dr. Juliana Sã

NIDCD – National Institute on Deafness and Other Communication Disorders (2-115 – 2-127)

2-115. Keith Abbey
In Vitro Evaluation and Allele-Specific Editing of a Novel Hearing-Loss Causing Mutation of Cochlin
North Carolina State University (North Carolina)

Preceptors: Dr. Wade Chien, Dr. Mhamed Grati

2-116. Britney Aguirre

Investigating the Developmental Role of GABAergic Signaling in Medial Olivocochlear Efferent Neuron to Type II Spiral Ganglion Afferent Neuron Connections

California State University, San Bernardino (California)

Preceptor: Dr. Catherine Weisz

2-117. Sam Angevine

The Ongoing Search for an Accelerated, Translational, and Functionally Relevant Mouse Model of Age-Related Hearing Loss

Bowdoin College (Maine)

Preceptors: Dr. Ronna Hertzano, Dr. Matthew Ingersoll

2-118. Theresa Christiansen

Exploring Ribbon Synapse Dynamics in Sensory Hair Cells Following Excitotoxic Damage

University of Chicago (Illinois)

Preceptor: Dr. Katherine Kindt

2-119. Lena Cui

Impact of an intronic Hgf mutation on HGF-MET signaling and altered transcription factor activity in the mouse cochlea

University of Maryland College Park (Maryland)

Preceptors: Dr. Thomas Friedman, Dr. Samuel Adadey

2-120. Kelsey Etoundi

Insight into Cochlear Development: Fgf20 Regulates Differentiation of Hair Cells and Supporting Cells Within the Organ of Corti

Johns Hopkins University (Maryland)

Preceptors: Dr. Matthew Kelley, Dr. Susumu Sakamoto

2-121. Jasmine Jain

Comparing Growth Arrest Methods: Irradiation vs. Mitomycin-C for Optimizing Fibroblast Support in Human Nasal Epithelial Cell Culture

Vanderbilt University (Tennessee)

Preceptors: Dr. Joshua Levy, Dr. Prestina Smith-Davidson

2-122. Angelina Jala

Deciphering the Role of Hair Cells in Shaping Vestibular Afferent Identity

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Doris Wu

2-123. Caleigh Moreland

Middle Ear Multiverse: Methods, Machines, and Measures in Adult Ears

University of Maryland (Maryland)

Preceptors: Dr. Gayla Poling, Dr. Talah Wafa

2-124. Hayden Patterson

Determining how Stk32a Acts to Define Directional Properties of Zebrafish Hair Cells

North Carolina Agricultural and Technical State University (North Carolina)

Preceptors: Dr. Katie Kindt, Kate Pinter

2-125. Quentin Price

Repurposing Statins: Candidates to Protect Against Cisplatin Ototoxicity

Howard University (District of Columbia)

Preceptors: Dr. Lisa Cunningham, Dr. Katharine Fernandez

2-126. Yommi Tadesse

Visualizing the Role of $\hat{\pm}$ -Neurexin3 in Sensory Synapse Formation

Agnes Scott College (Georgia)

Preceptor: Dr. Katie Kindt

2-127. Alice Yen

Mapping Brainstem Vestibular Neurons Activated by Rapid Linear Head Motions

Loyola University Chicago (Illinois)

Preceptor: Dr. Doris Wu

Session 3: 11:20 – 12:20 PM ET

NCCIH – National Center for Complementary and Integrative Health (3-001 – 3-009)

3-001. James Blackmore

Understanding the effects of stress-induced analgesia on the intrinsic properties of SOM+ and SOM- neurons within the central amygdala.

Mount St. Mary's University (Maryland)

Preceptors: Dr. Yarimar Carrasquillo, Dr. Nisa Roy

3-002. Nathan Chabin

The Relationships between Emotion, Expectations, and Pain: Insights from Exploratory Factor Analysis

Pitzer College (California)

Preceptors: Dr. Lauren Atlas, Dr. Xue Davis

3-003. Sunil Das

Neural mechanisms underlying chronic pain and affective comorbidities

Fairfield University (Connecticut)

Preceptors: Dr. Yarimar Carrasquillo, Dr. Maxime Thouaye

3-004. Katherine De Paz

Examining the influence of social factors on video-based pain assessment

Rice University (Texas)

Preceptors: Dr. Lauren Atlas, Dr. Yili Zhao

3-005. Nico Dellario

Monitoring Efficacy of Chronic Pain Treatments with Ecological Momentary Assessments

Rensselaer Polytechnic Institute (New York)

Preceptor: Dr. Miroslav Backonja

3-006. Adam Gaskill

Electrophysiological Characterization of the Basolateral Amygdala in the Context of Chronic Pain

College of William and Mary (Virginia)

Preceptors: Dr. Yarimar Carrasquillo, Dr. Nisa Roy

3-007. Daviana L. Menendez-Escalera

Molecular and anatomical characterization of cells recruited during stress-induced analgesia

Universidad Ana G. Mendez (Puerto Rico)

Preceptors: Dr. Yarimar Carrasquillo, Dr. Maxime Thouaye

3-008. Nathania Nartey

What Factors Influence Identifiable Data Consent Decisions?

Yale University (Connecticut)

Preceptors: Dr. Lauren Atlas, Dr. Xue Davis

3-009. Rohana Rudresh

Cell-Type and Circuit Mechanisms of Stress-Induced Analgesia in the Central Amygdala

University of California, Merced (California)

Preceptors: Dr. Yarimar Carrasquillo, Dr. Sudhuman Singh

NIA – National Institute of Aging (3-010 – 3-080)

3-010. Anjay Ambegaonkar

Mitochondria and Cognitive Decline Over Up to a Decade: Sex Differences

Johns Hopkins University (Maryland)

Preceptors: Dr. Qu Tian, Dr. Luigi Ferrucci

3-011. Olivia Anderson

Histone Chaperone CAF-1 Large Subunit CHAF1A Protects Cells from Replication Stress Induced by G-quadruplex Stabilization

University of Maryland (Maryland)

Preceptors: Dr. Martina Rossi, Dr. Robert Brosh

3-012. Ethan Arends

AI-Driven Discovery of Novel Senolytics

Colorado School of Mines (Colorado)

Preceptors: Dr. Kotb Abdelmohsen, Dr. Myriam Gorospe

3-013. Alexis Ayuketah

Long-read sequencing maps transposable element variation and its regulatory and epigenetic effects in the human brain

University of Maryland, College Park (Maryland)

Preceptor: Dr. Kimberley Billingsley

3-014. Anna Bishop

Visualizing Microglial Synaptic Pruning as a Possible Driving Factor of Age-Related Cognitive Dysfunction

Vassar College (New York)

Preceptors: Dr. C'iana Cooper, Dr. Peter Rapp

3-015. Nicole Carmiol

Using Limited Proteolysis-Coupled Mass Spectrometry to Characterize the Protein Structural Changes in Neurons Treated with Amyloid-Beta

University of Arizona (Arizona)

Preceptor: Dr. Andy Qi

3-016. Anusha Chegu

Ridge Trace Regression for Stable Parameter Recovery in Ill-posed Inverse Problems with Applications to Brain Myelination Models

Washington University in St. Louis (Missouri)

Preceptor: Dr. Richard Spencer

3-017. Zam Cing

Variation in the human brain transcriptome and metabolome

University of Maryland Baltimore County (Maryland)

Preceptor: Dr. Alexandra Decasien

3-018. Grace Cong

Acute Depletion of Chromatin Assembly Factor-1 Scaffolding Subunit Induces Nuclear G-Quadruplex Escalation and Chromosomal DNA Damage

University of Maryland, College Park (Maryland)

Preceptor: Dr. Robert Brosh

3-019. Emma Craig

Using proximity labeling to study mRNA localization and translation in FTD/ALS

Cornell University (New York)

Preceptor: Dr. Veronica Ryan

3-020. Linna Cui

Mapping the Monocyte Senescence Surfaceome and Transcriptome for Senotherapeutic Intervention

College of William and Mary (Virginia)

Preceptor: Dr. Nathan Basisty

3-021. Alexandra Davidov

Modeling GRN-associated frontotemporal dementia using thalamic, cortical, and MGE organoids and assembloids

University of Florida (Florida)

Preceptor: Dr. Elise Marsan

3-022. Angelique de Rouen

Association of circulating cholesterol with cerebral white matter myelination and microstructural integrity

Yale University (Connecticut)

Preceptor: Dr. Mustapha Bouhrara

3-023. Hailey Eckersberg

Towards a Multiverse Analysis of Multimodal Brain MRI Registration Pipelines in the BLSA

McGill University (Canada)

Preceptors: Dr. Murat Bilgel, Dr. Peter Rapp

3-024. Ethan Eisenberg

A Hidden Pacemaker Cell Reserve Emerges Under Cholinergic Stress Near Sinus Arrest

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Victor Maltsev, Dr. Edward Lakatta

3-025. Jacob Epstein

Protpipe2: Comprehensive Analysis of Proteomics Data from Multiple Platforms

University of Maryland, College Park (Maryland)

Preceptor: Dr. Yue Qi

3-026. Giovanna Evans

Analysis of longitudinal trajectories of Alzheimer's disease related biomarkers using NULISeq

Muhlenberg College (Pennsylvania)

Preceptor: Dr. Keenan Walker

3-027. Noam Fox

Relaxometry and Diffusion MRI Reveal Sex Differences in the Association Between Daytime Sleepiness and White Matter Myelination

University of Maryland - College Park (Maryland)

Preceptor: Dr. Mustapha Bouhrara

3-028. Diane Gengler

High-field MRS assessment of mitochondrial function in viable midbrain organoids

University of Wisconsin - Madison (Wisconsin)

Preceptors: Dr. Dan Benjamini, Dr. Mark Cookson

3-029. William Gray

Helicase RECQL Stalls at Genomic Monoribonucleotides

University of Wisconsin - River Falls (Wisconsin)

Preceptor: Dr. Robert Brosh

3-030. [Presenter Withdrawal]

3-031. Charlene Yzobel Guerrero

A schizophrenia/autism-associated topoisomerase complex regulates circadian rhythms and circuit development

Loyola University Chicago (Illinois)

Preceptors: Dr. Weidong Wang, Dr. Seung Kyu Lee

3-032. Kanakendu Gupta

Antibody Repertoire Modulation Alters Alzheimer's Disease Pathology and Behavior in the 5xFAD Mouse Model

Wake Forest University (North Carolina)

Preceptor: Dr. Patricia Gearhart

3-033. Ella Hammond

Targeting prion-like RNA-Binding proteins to suppress neurodegeneration mediated by the Huntington's Disease protein

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Weidong Wang, Dr. Tianyi Zhang

3-034. Isabella He

Subthreshold Broadband Stimulation Restores Cardiac Pacemaker Cell Activity Without Electronic Pacing

Northwestern University (Illinois)

Preceptors: Dr. Victor Maltsev, Dr. Michael Stern

3-035. Rachel Jiang

Multiome single-nucleus atlas of the hippocampus in Alzheimer's disease and related dementias

University of California, Berkeley (California)

Preceptor: Dr. Xylena Reed

3-036. Cassandra Jin

Integrated Multi-omic Analysis of Immune Cell Aging

Amherst College (Massachusetts)

Preceptor: Dr. Nan-Ping Weng

3-037. Cate Jones

Genetic Interaction Between FANCD1 Helicase and the DNA Damage Signaling Kinase ATM is Critical for the Replication Stress Response to Preserve Genomic Stability

William & Mary (Virginia)

Preceptor: Dr. Robert Brosh

3-038. Ayanna Kakar

Bridging Data and Discovery: An Interactive Longitudinal Visualization Tool

Emory University (Georgia)

Preceptors: Dr. Rafael De Cabo, Dr. Maria Fernandez

3-039. Danny Kanj

DDX39A RNA Helicase Deficiency Induces Cellular Senescence and Defects in Lipid Metabolism

Purdue University (Indiana)

Preceptors: Dr. Robert Brosh, Dr. Martina Rossi

3-040. [Presenter Withdrawal]

3-041. Isabelle Kowal

A sensitive ddPCR-based biomarker assay of TDP-43 function in ALS and FTD

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Michael Ward

3-042. Sanjana Krishna

CRISPRi Genome Wide Screen with Neuronal Activity Reader Protein CAMPARI

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Daniel Ramos, Dr. Mark Cookson

3-043. George Lee

Proteomic Mediation of Systemic Autoimmune Rheumatic Diseases-Associated Interstitial Lung Disease

Cornell University (New York)

Preceptor: Dr. Minkyong Song

3-044. Jixiang Leng

Single-Cell Transcriptome Analysis of Immune Cells Co-Cultured with Senescent Cells

University of Virginia (Virginia)

Preceptors: Dr. Myriam Gorospe, Dr. Krystyna Mazan-Mamczarz

3-045. Dimitri Lin

The NAD⁺ Precursor Dihydronicotinamide Riboside (NRH) Modulates Adipocyte Differentiation

Colby College (Maine)

Preceptors: Dr. Rafael De Cabo, Dr. Tesfaye Tefera

3-046. Henry Lin

Investigating the Role of CD8⁺ T Cells in Behavior and Brain Pathology in Alzheimer's Disease

University of California, Berkeley (California)

Preceptor: Dr. Nan-Ping Weng

3-047. Adam Luo

Single-Cell Functional Genomics of Alzheimer's Disease in iPSC-Derived Neurons using Inducible CRISPR Interference Screens

Johns Hopkins University (Maryland)

Preceptors: Dr. Daniel Ramos, Dr. Elizabeth Calzada

3-048. Maya Luse

Dissecting Heart Rate Variability by Its Determinants in Young and Old Mice

Misericordia University (Pennsylvania)

Preceptors: Dr. Edward Lakatta, Dr. Ismayil Ahmet

3-049. Alexandra Mann

Environmentally Relevant Exposures Induced Distinct Microglia Activation Programs

Tulane University (Louisiana)

Preceptors: Dr. Mark Cookson, Dr. Dominic Aciri

3-050. Victor Martinez

Whole-brain input organization to Kremen1-positive striatal spiny projection neurons revealed by monosynaptic rabies tracing

State University of New York at Binghamton (New York)

Preceptors: Dr. Huaibin Cai, Dr. Lupeng Wang

3-051. Monica Mesecar

Multi-omic Analysis of the Aging Entorhinal Cortex in the Absence of Neuropathology

The University of Notre Dame (Indiana)

Preceptors: Dr. Mark Cookson, Dr. Dominic Aciri

3-052. Thang Mung

Longitudinal Profiling of Frequency, Differentiation, and Expansion Capacity in SARS-CoV-2—Specific CD8+ T Cells

Davidson College (North Carolina)

Preceptor: Dr. Nan-Ping Weng

3-053. Anirudh Nangunoori

Machine Learning and Direct RNA Sequencing for Capturing RNA Metabolism Dynamics

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Emmanouil Maragkakis

3-054. Esha Narla

Associations Between Social Determinants of Health and Long-term Fitbit-Measured Sleep Duration and Variability in the All of Us Research Program

University of Florida (Florida)

Preceptor: Dr. Tianyi Huang

3-055. Joseph Nazario

Collagen-producing macrophages contribute to skeletal muscle repair

Cornell University (New York)

Preceptors: Dr. Chang-Yi Cui, Dr. Myriam Gorospe

3-056. Kelechi Onwuzurike

Exploring senescence in neurovascular unit cell types via multi-omics

University of California, Los Angeles (California)

Preceptors: Dr. Martin Salamini, Dr. Myriam Gorospe

3-057. Srilakshmi Palanikumar

Long-read spatial transcriptomics for RNA isoform discovery in the aging mouse brain

University of Texas at Austin (Texas)

Preceptor: Dr. Emmanouil Maragkakis

3-058. Isabella Pelt

Dissecting Functions of the IgH Eu Enhancer in B Cell Development

Clemson University (South Carolina)

Preceptors: Dr. Ranjan Sen, Dr. Fatima Zohra Braikia

3-059. Tomas Pierce

Identifying protein targets underpinning senolytic activity of flavonoids using MS-CETSA, SenoCETSA software, and a knock-down experiment

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Nathan Basisty

3-060. Evelyn Pizano

Epigenetic shifts in resident skeletal muscle cells during aging

University of Illinois at Chicago (Illinois)

Preceptor: Dr. Payel Sen

3-061. Aditee Prabhutendolkar

Parameter Estimation Neural Network Architecture Incorporating Nonlinear Ridge Trace Inputs for Brain Myelination Models

California Institute of Technology (California)

Preceptor: Dr. Richard Spencer

3-062. Charis Qi

Expression During Human CD8+ T Cell Activation and Aging

Davidson College (North Carolina)

Preceptor: Dr. Nan-Ping Weng

3-063. Kara Rather

Multidimensional MRI Captures Astrogliosis and Rosette Structure Impairment in a GRN Mutant Cortical Organoid Model of Frontotemporal Dementia

University of Georgia (Georgia)

Preceptor: Dr. Elise Marsan

3-064. April Rico

Immediate Early Gene Expression in Brains of Hyperactive 5XFAD Mice

Belmont University (Tennessee)

Preceptor: Dr. Ross Mcdevitt

3-065. Derick Rivera

Role of Circadian Clock Machinery in Telomere Maintenance

University of Puerto Rico in Ponce (Puerto Rico)

Preceptors: Dr. Liu Yie, Abigail Molnar

3-066. Connie Ryu

Serum Biomarkers of Mitochondrial Stress Associated with Mortality in the HANDLS Cohort

William & Mary (Virginia)

Preceptor: Dr. Michele Evans

3-067. Dylan Sacks

Landscape of Human Brain Human Leukocyte Antigen Immunoepitome in Alzheimer's Disease Patients

Northeastern University (Massachusetts)

Preceptor: Dr. Mark Cookson

3-068. Chad Sanehira

Method Development for Quantifying Circulating Kynurenine and its Metabolites in Plasma

Creighton University (Nebraska)

Preceptor: Dr. Ruin Moaddel

3-069. Elizabeth Sharp

Pre- and Post- Proteomic Changes Following Hurricane Katrina: A Natural Experiment in the ACCORD Study

Johns Hopkins (Maryland)

Preceptor: Dr. Minkyong Song

3-070. Suha Shin

Accelerated Anthropometric Aging Links Loss of physical function and lower extremity body mass

Johns Hopkins University (Maryland)

Preceptors: Dr. Qu Tian, Dr. Luigi Ferrucci

3-071. Isabelle Stephen

Collagen-producing macrophage dynamics in skeletal muscle aging and regeneration

University of Massachusetts Amherst (Massachusetts)

Preceptors: Dr. Myriam Gorospe Gorospe, Dr. Chang-Yi Cui

3-072. Tyler Swiatkowski

QuPath-based machine learning analysis of perineuronal nets reveals extracellular aging in CA2 in a rat model

University of Minnesota (Minnesota)

Preceptors: Dr. Subhadeep Dutta Gupta, Dr. Peter Rapp

3-073. Jake Szeszko

Do Longitudinal Changes in Heart Rhythm Variables Inform on Ventricular Structure, Function, and Heart Failure in a Mouse Model of Chronic Stress Induced by Adenylyl Cyclase Type 8 Cardiac-Specific Overexpression?

Johns Hopkins University (Maryland)

Preceptors: Dr. Edward Lakatta, Dr. Ismayil Ahmet

3-074. Felix Tomaneng Kim

Direct Visualization of Mitochondrial Age in Cells

Johns Hopkins (Maryland)

Preceptors: Dr. Dimitrios Kapogiannis, Dr. Pamela Yao

3-075. Beianka Tomlinson

A Steroidal Na/K-ATPase Inhibitor Marinobufagenin Is an Extracellular Vesicle Cargo in Obesity-Associated Chronic Kidney Disease

Princeton University (New Jersey)

Preceptors: Dr. Olga Fedorova, Dr. Edward Lakatta

3-076. Valeria Ventura Subirachs

Heart rate acceleration at the nanoscale: calcium release channel superclusters initiate early ignition signals

University of Maryland Baltimore County (Maryland)

Preceptors: Dr. Michael Stern, Dr. Victor Maltsev

3-077. Ria Warriar

Defining the Molecular Link between Cardiometabolic Conditions and Respective Brain Atrophy Patterns

University of Maryland, College Park (Maryland)

Preceptor: Dr. Keenan Walker

3-078. Eleanor Wind

Distinct roles of COPI proteins attenuated in cell senescence

Nova Southeastern University (Florida)

Preceptors: Dr. Myriam Gorospe, Dr. Krystyna Mazan-Mamczarz

3-079. Serena Wu

Identifying Novel Mechanisms of Senescent Cell Vulnerability for Translational Therapeutics via Thermal Proteome Profiling and RNAi Validation

University of California Irvine (California)

Preceptor: Dr. Nathan Basisty

3-080. Teymur Zavar

Turning Down the Thermostat on Cancer: Caloric Restriction and Ambient Temperature Modulate Tumor Growth in Mice

College of William & Mary (Virginia)

Preceptors: Dr. Amanda Garrido Martin, Dr. Rafael De Cabo

NIDA – National Institute on Drug Abuse (3-081 – 3-126)

3-081. George Adamson

Dissecting the Roles of $\hat{I}$ -Opioid Receptors in Glutamatergic and GABAergic Neurons in Ketamine Reward Using Conditional Gene-Knockout Mice

Colgate University (New York)

Preceptor: Dr. Zheng-Xiong Xi

3-082. Narcy Amireddy

Developing a Microglial Cell Line to Study Transcriptomic Changes in Response to HIV Proviral Activation

University of Alabama at Birmingham (Alabama)

Preceptors: Dr. Brandon Harvey, Dr. Tami Coursey

3-083. Vasudha Attanti

Dissociable Prediction Error in Human Midbrain Enables Learning about Multifeatured Outcomes

University of California, Riverside (California)

Preceptors: Dr. Thorsten Kahnt, Dr. Phillip Wikowski

3-084. James Atwell

How does IOFC neuromodulation affect persistence of schemas?

St. Mary's College of Maryland (Maryland)

Preceptor: Dr. Geoffrey Schoenbaum

3-085. [Presenter Withdrawal]

3-086. Mihir Beheray

Characterization of Novel Microglia-specific Cre-driver Rat Lines

Emory University (Georgia)

Preceptors: Dr. Brandon Harvey, Dr. Reinis Svircbahs

3-087. Zoie Chan

Internalized smoker-identify stigma: characteristics and relation to tobacco use

Boston University (Massachusetts)

Preceptors: Dr. Peter Soyster, Dr. David Epstein

3-088. Elanor Chang

Effects of Nicotine on Reward Processing in Major Depressive Disorder

Cornell University (New York)

Preceptors: Dr. Kathryn Biernacki, Dr. Amy Janes

3-089. Will Dunne

Dynamics of Dopamine, Synaptic Zn^{2+} , cAMP, and Ca^{2+} Activity in the Striatum During Cocaine Sensitization

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Michael Michaelides

3-090. Zuzu Gacso

Tirzepatide Reduces the Demand for Fentanyl

Colgate University (New York)

Preceptors: Dr. Lorenzo Leggio, Dr. Leandro Vendruscolo

3-091. Nicholas Gonzalez

Structure-activity relationships for MDMB-4en-PINACA and related analogs to induce cannabinoid-like effects in C57Bl/6J mice

Saint Edward's University (Texas)

Preceptors: Dr. Michael Baumann, Dr. Grant Glatfelter

3-092. Diborah Gutema

Lateral Hypothalamic GABA Release Controlled by μ -Opioid Receptors

George Mason University (Virginia)

Preceptors: Dr. Alexander Hoffman, Dr. Yeka Aponte

3-093. Kalia Halim

Nucleus Accumbens Representation of Psychostimulant and Opioid Self-Administration

University of Minnesota Twin Cities (Minnesota)

Preceptors: Dr. Da-Ting Lin, Dr. Matthew Broomer

3-094. Abigail Harr

Increased expression of KDEL receptor 1 in rat midbrain dopaminergic neurons alters golgi morphology

Lafayette College (Pennsylvania)

Preceptors: Dr. Brandon Harvey, Mrs. Lacey Greer

3-095. Maeve Johnston

Preserving Opioid Analgesia While Attenuating Withdrawal-Induced Hyperalgesia

SUNY Binghamton (New York)

Preceptors: Dr. Chris O'Brien, Dr. Leandro Vendruscolo

3-096. Asha Jotwani

Identification of Serum Biomarkers for ER Exodosis After Burn Injury

University of California, Santa Barbara (California)

Preceptors: Dr. Brandon Harvey, Dr. Suzanne Underhill

3-097. Diane Kallah

Environmental Enrichment in Individuals with Alcohol Use Disorder: Developing and Validating a Novel Methodology

University of California, Irvine (California)

Preceptor: Dr. Lorenzo Leggio

3-098. Angela Kim

The Role of Lateral Hypothalamic LEPR neurons in encoding Food Choice

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Yeka Aponte

3-099. Claire Lee

Hypothalamic Circuits Controlling Interoceptive Hunger

University of California, San Diego (California)

Preceptor: Dr. Yeka Aponte

3-100. Justine Lee

Characterization of cocaine relapse ensemble cell types and transcriptional programs in ventromedial prefrontal cortex using single nucleus RNA sequencing in Fos-mRFP transgenic rats

University of Washington (Washington)

Preceptors: Dr. Bruce Hope, Dr. Katherine Savell

3-101. Mia Lulli

The Impact of Nicotine on Those with Major Depressive Disorder

University of Maryland, College Park (Maryland)

Preceptor: Dr. Amy Janes

3-102. Maia Maras

Investigating MRI-1867, a Peripherally Acting CB1R Antagonist, as a Potential Pharmacotherapy for Opioid Use Disorder

Saint Olaf College (Minnesota)

Preceptor: Dr. Zheng-Xiong Xi

3-103. Renee Nosko

Structure-based cariprazine modifications to improve dopamine D3 receptor (D3R) selectivity

University of Maryland, College Park (Maryland)

Preceptors: Dr. Amy Hauck Newman, Dr. Caleb Vogt

3-104. Stephanie Oh

A causal role for prefrontal cortex in volitional social memory

Johns Hopkins University (Maryland)

Preceptors: Dr. Bruce Hope, Dr. Leslie Ramsey

3-105. Rohan Patil

Chronic delivery of buprenorphine during abstinence decreases incubation of heroin seeking and neuronal activation in medial prefrontal cortex and striatum in male and female rats

University of Michigan (Michigan)

Preceptor: Dr. Yavin Shaham

3-106. Emma Pilz

Effect of opioid exposure on operant social interaction

American University (District of Columbia)

Preceptor: Dr. Yavin Shaham

3-107. Mona Pishgar

Claustrium Circuits Associated with Incubation of Oxycodone Seeking after Voluntary Abstinence

Florida State University (Florida)

Preceptors: Dr. Yavin Shaham, Dr. Kenichiro Negishi

3-108. Ana -Sofia Rico Roza

Examining Participant Outcomes With Referrals (EMPOWER)

Barnard College (New York)

Preceptors: Dr. Lorenzo Leggio, Dr. Masoumeh Dejman

3-109. Dayanara Rivera

Optogenetic Evaluation of GABAergic Lateral Preoptic Area Projections to the Lateral Habenula: Reward vs. Aversion

Christopher Newport University (Virginia)

Preceptors: Dr. Carl Lupica, Dr. Agustin Zapata

3-110. [Presenter Withdrawal]

3-111. Maria Scavnicky

Effects of Orexin Antagonism in Nicotine Dependence

University of Michigan (Michigan)

Preceptor: Dr. Amy Janes

3-112. Ingrid Schoenborn

Mapping synaptic changes following chronic cocaine use via PET imaging

Trinity College (Connecticut)

Preceptors: Dr. Mike Michaelides, Dr. Oscar Solis

3-113. Taylor Scott

Reducing Cue-Induced Craving with TMS: 50 vs 100 Hz High-Density Theta Burst Stimulation

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Hanbing Lu, Dr. Yihong Yang

3-114. Neha Skandan

Conditioned withdrawal cues elicit persistent somatic and motivational responses in fentanyl-dependent rats

Johns Hopkins University (Maryland)

Preceptors: Dr. Leandro Vendruscolo, Dr. George Koob

3-115. Adekemi Sobukunola

Incubation of discriminative stimulus-controlled heroin seeking during abstinence

University of Maryland Baltimore County (Maryland)

Preceptors: Dr. Bruce Hope, Dr. Yavin Shaham

3-116. Alana Sullivan

Neurometabolic correlates of heroin addiction vulnerability: a PET study in rats

Western Washington University (Washington)

Preceptors: Dr. Yavin Shaham, Dr. Ginevra D'Ottavio

3-117. Rhianna Sullivan

Concentration vs. Duration: How Odor Presentation Affects Perceived Intensity and Pleasantness in Humans

Virginia Tech (Virginia)

Preceptors: Dr. Thorsten Kahnt, Dr. Clara Raithel

3-118. Anna Tischer

Investigating the therapeutic potential of ketamine to rescue neurobehavioral effects of withdrawal in morphine-dependent rats

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Michael Michaelides, Dr. Gianluigi Tanda

3-119. Emem Ukpog

Unique Mushroom Spine Signatures in Rat Nucleus Accumbens Neuronal Ensembles after Cue-induced Cocaine Seeking

Georgia State University (Georgia)

Preceptors: Dr. Javier Rubio, Dr. Bruce Hope

3-120. Eleni Varlas

Investigating the Effects of Novel Transcranial Magnetic Stimulation in Awake Rats

University of Maryland Baltimore County (Maryland)

Preceptor: Dr. Hanbing Lu

3-121. Huanhuan Wang

Negative Affect Model of Cannabinoid Dependence

Youngstown State University (Ohio)

Preceptors: Dr. Renata Marchette, Dr. George Koob

3-122. Julia Welsh

Non-neuronal fMRI signal reflects drug-induced changes in subjective arousal and physiological measures

Harvard University (Massachusetts)

Preceptor: Dr. Amy Janes

3-123. Jaylen Worthy

Lateral OFC-Network Targeted TMS Modulates Causal Learning in Humans

University of Maryland, College Park (Maryland)

Preceptors: Dr. Thorsten Kahnt, Dr. Phillip Witkowski

3-124. Austin Yarbrough

TRV734: Human Plasma Pharmacokinetics of a Rapidly Excreted Novel Opioid Assayed by LC-MS

University of Louisville (Kentucky)

Preceptors: Dr. David Epstein, Dr. Maxine Reger

3-125. Salma Younis

Investigating the role of visual attention in value-based decision-making

University of Maryland, College Park (Maryland)

Preceptors: Dr. Thorsten Kahnt, Dr. Avinash Vaidya

3-126. Ryan Zurick

Exploring the Effects of Growth Hormone Secretagogue Receptor KO, High-Fat Diet, and Sex on Rat Liver Lipidomic Profiles

Cornell College (Iowa)

Preceptors: Dr. Shelley Jackson, Dr. Lorenzo Leggio

NLM – National Library of Medicine (3-126 – 3-133)

3-127. Davis Bartels

Structure and Representation in Language Models

University of Michigan (Michigan)

Preceptor: Dr. Dina Demner-Fushman

3-128. Madeline Bittner

A Dataset and Resources for Identifying Patient Health Literacy Information from Clinical Notes

California Polytechnic State University San Luis Obispo (California)

Preceptor: Dr. Dina Demner-Fushman

3-129. Madeleine Clore

Explaining how mutations affect AlphaFold predictions

Case Western Reserve University (Ohio)

Preceptor: Dr. Lauren Porter

3-130. Lauren He

Benchmarking AI for Real-World Institutional Clinical Trial Matching

Stanford University (California)

Preceptor: Dr. Zhiyong Lu

3-131. Alexander Maksiaev

Lessons in Flu Virus Database Design

University of Virginia (Virginia)

Preceptor: Dr. Martha Nelson

3-132. Arjun Rakheja

Assessing the Performance of Genomic Language Models for Prophage Prediction Across Taxonomic Levels

University of Maryland, College Park (Maryland)

Preceptors: Dr. Leann Lindsey, Dr. Xiaofang Jiang

3-133. Pramesh Sharma

A Method for Detecting Conformational Changes in Fold-switching Proteins

University of California, Davis (California)

Preceptor: Dr. Lauren Porter

3-134. Cameron Wells

Network-Guided Analysis of In-Vitro Drug Response to Predict Therapeutic Combinations in ASCL1-Driven Small Cell Lung Cancer

University of Virginia (Virginia)

Preceptors: Dr. Augustin Luna, Dr. Mirit Aladjem

Session 4: 12:30 – 1:30 PM ET

NCATS – National Center for Advancing Translational Sciences (4-001 – 4-023, 4-134)

4-001. Brynn Brusseau

Repurposing Nicotinamide N-methyltransferase inhibitors towards kidney fibrosis

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Samarjit Patnaik

4-002. Christa Canagarajah

Development of Cell-Based Assays to Validate Small Molecule Inhibitors of Biliverdin Reductase A

University of Maryland, College Park (Maryland)

Preceptors: Dr. Matthew Hall, Dr. Hu Zhu

4-003. Fiona S. Daly

Small Molecule Modulation of Lineage Bifurcation Between Cortico-Thalamic and Hypothalamic Neuronal Fates from Human Pluripotent Stem Cells

North Carolina State University (North Carolina)

Preceptors: Dr. Vukasin M. Jovanovic, Dr. Carlos A. Tristan

4-004. Erin Floranda

A vascularized hiPSC-derived dorsal root ganglion organoid platform enables high-throughput neuroprotectant screening for chemotherapy-induced neuropathy

Stanford University (California)

Preceptors: Dr. Seungmi Ryu, Dr. Carlos Tristan

4-005. Colin Gordy

Development of a Luminescent PrPC Reporter Cell Line for High-Throughput Screening of Prion Suppressors and Degradors

University of Mississippi (Mississippi)

Preceptors: Dr. Matthew Hall, Dr. Jonathan Shrimp

4-006. Aliya Gottesfeld

Bioanalysis Method Development and Pharmacokinetic Study of a Thyroid Stimulating Hormone Receptor Antagonist

Haverford College (Pennsylvania)

Preceptors: Dr. Amy Wang, Dr. Xin Xu

4-007. Madeleine Harris

Determining the potential host range of SARS-CoV-2

College of William & Mary (Virginia)

Preceptors: Dr. Edward Chih-Yuan Chiang, Dr. Ken Chih-Chien Cheng

4-008. Rebecca Jang

Developing a High-Throughput Screen for Hsp70 Modulators with Therapeutic Potential in Neurodegenerative Diseases

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Natalia Martinez, Dr. Stephen Kales

4-009. Abigail Davis

High-throughput screening and small molecule inhibitor development targeting secreted Mycobacterium tuberculosis chorismate mutase

Wake Forest University (North Carolina)

Preceptors: Dr. James Inglese, Dr. Ganesha Rai

4-010. Leah Kunkee

Pathway-Guided Targeted MS/MS to Expand Annotation Coverage in Untargeted Metabolomics

Cornell University (New York)

Preceptors: Dr. Ewy Mathe, Dr. Djawed Bennouna

4-011. Grace Kuo

Evaluating Clinically Approved Drug Synergies with Metarrestin in Solid and Hematologic Malignancies

Johns Hopkins University (Maryland)

Preceptors: Dr. Mark Henderson, Dr. Yi-Han Lin

4-012. Katherine Landler

Extending the shelf life of whole blood for transfusion: A high-throughput screening approach

Georgetown University (District of Columbia)

Preceptor: Dr. Mark Henderson

4-013. Kevin Li

LLM-enabled Natural History Study Analysis to Support Rare Disease Research

University of California, San Diego (California)

Preceptor: Dr. Qian Zhu

4-014. Chris Ma

Generation and characterization of mucopolysaccharidosis iPSC models via targeted knock-in mutations

Brown University (Rhode Island)

Preceptors: Dr. Catherine Chen, Dr. Wei Zheng

4-015. Logan Miessner

Identifying small molecules that potentiate AAV transduction efficacy

University of Washington (Washington)

Preceptors: Dr. Edward Chiang, Dr. Cheng

4-016. Mia Mira

Development of Orthogonal Assays to Characterize Small Molecules that alter the Epigenetic Landscape in Ewing Sarcoma Cells

Brown University (Rhode Island)

Preceptors: Dr. Mark Henderson, Dr. Darian Williams

4-017. Estefania Morales-Magana

Identifying small molecules that modulate hypoxia-inducible factor nuclear transport

Tufts University (Massachusetts)

Preceptors: Dr. Ken Chih-Chien Cheng, Dr. Edward Chiang

4-018. Bridget Scherer

Discovery and optimization of pyrrolopyridine kinase inhibitors for modulation of cell growth

Loyola University Maryland (Maryland)

Preceptors: Dr. Patrick Morris, Dr. Craig Thomas

4-019. Lauren Spina

Development of high-throughput assays to discover small molecule modulators of glucocerebrosidase for Gaucher and Parkinson's

Colgate University (New York)

Preceptor: Dr. Mark Henderson

4-020. Julia Steiner Chulkova

Small-Molecule Activation of XBP1 for Neuroprotection of Retinal Ganglion Cells

San Francisco State University (California)

Preceptors: Dr. Natalia Martinez, Dr. Dorjbal Dorjsuren

4-021. Merry Teague

Advancing BBB Transport Assays with NAMs: Comparing Classical and Organ-on-Chip Models for In Vivo Brain Penetration of Small Molecules

University of Wyoming (Wyoming)

Preceptors: Dr. Elias Carvalho Padilha, Dr. Xin Xu

4-022. Yining Wang

Characterization of Drug-induced Neuromodulation with Brain Region-Specific Functional Neurospheroid Models

Emory University (Georgia)

Preceptors: Dr. Marc Ferrer-Alegre, Dr. Emily Lee

4-023. Claire Weber

Leveraging Transfer Learning to Navigate Low-Data Chemical Spaces in QSAR Modeling

University of Maryland (Maryland)

Preceptors: Dr. Pranav Shah, Dr. Xin Xu

4-135. Godwin Aizenofe

Shared Genomic Drivers: Identifying and Targeting Common Canine -Human Genes to Advance Human Therapies

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Gregory Tawa

NHGRI – National Human Genome Research Institute (4-024 – 4-069, 4-135)

4-024. Tuorto Abigail

Deep Phenotyping of Patients with Cardiomyopathy-Related Secondary Findings

Davidson College (North Carolina)

Preceptor: Dr. Julie Sapp

4-025. Madeleine Ames

Automated functional assessments of OCA2 variant pathogenicity in individuals with oculocutaneous albinism

University of Virginia (Virginia)

Preceptors: Dr. Stacie Loftus, Dr. David Adams

4-026. Yuka Aoyama

Variable Expressivity in a Five Generation Family with Oculodentodigital Dysplasia

Colgate University (New York)

Preceptors: Dr. Camilo Toro, Dr. Gahl

4-027. Thomas Baker

Growth Outcomes in Lesch-Nyhan and ADSL Deficient Patients: Insights from Electronic Health Records

Davidson College (North Carolina)

Preceptors: Dr. Oleg Shchelochkov, Shannon Haines

4-028. Suhani Balachandran

Measuring the fraction of active 5S and 45S rDNA units using long-read nanopore sequencing

Princeton University (New Jersey)

Preceptor: Dr. Adam Phillippy

4-029. Maya Bhattiprolu

The impact of a GlcCer transporter on GBA1-associated Parkinson disease in a murine model

University of Maryland, College Park (Maryland)

Preceptors: Dr. Tae Un Han, Dr. Ellen Sidransky

4-030. Maya Block

A Role for the Uterus on Cognition? Uterine and Brain Gene Expression Profiles With and Without Ovarian Stimulation

University of Virginia (Virginia)

Preceptor: Dr. Melissa Wilson

4-031. Irene Castillo

Expanding the HGD Variant Spectrum and Addressing Missing Heritability in a 96-person Cohort

Indiana University Bloomington (Indiana)

Preceptor: Dr. Wendy Introne

4-032. Daniela Chavez de Paz Solis

HMGCS1 DEFICIENCY: MEVALONATE PATHWAY DISRUPTION, IMMUNE DYSREGULATION, AND PROGRESSIVE MYOSITIS IN THE DEVELOPMENT OF A ZEBRAFISH MODEL

University of Maine (Maine)

Preceptors: Dr. Daniel Kastner, Dr. Ivona Aksentijevich

4-033. Jiayi Cheng

Advances in Diffusion-based Syndromic Facial Feature Editing and its Effects on AI and Clinician Diagnosis of Genetic Conditions

University of California, Davis (California)

Preceptor: Dr. Benjamin Solomon

4-034. Rachel Clubine Horowitz

Measuring screening behaviors in recipients of cancer-related secondary genomic findings

George Washington University (District of Columbia)

Preceptor: Dr. Julie Sapp

4-035. Natali Colombo

Evaluation of Families SHARE Community Education Program in African American Communities

University of Washington (Washington)

Preceptor: Dr. Laura Koehly

4-036. Supta Das

Evaluating the cleavage and processing of GPNMB

Duke University (North Carolina)

Preceptors: Dr. Ellen Sidransky, Dr. Yu Chen

4-037. Naomi Fisher

Evaluation of GBA1 modifiers in SH-SY5Y cells

Georgetown University (District of Columbia)

Preceptors: Dr. Yu Chen, Dr. Ellen Sidransky

4-038. William Frank-Rodriguez

Analysis of BMI and prevalence of CHIP in patients with RUNX1-FPD

University of Puerto Rico at Ponce (Puerto Rico)

Preceptors: Dr. Paul Liu, Dr. Erica Bresciani

4-039. Nicole Gaidici

The Lived Experiences of Proteus Syndrome: A Qualitative Study of Participants and Caregivers Enrolled on an Interventional Clinical Trial

Emory University (Georgia)

Preceptors: Dr. Christopher Ours, Dr. Leslie Biesecker

4-040. Tristan Grieve

Vertebrate homolog screen of protein kinase R's insert suggests a functional role in discrimination against a poxvirus pseudosubstrate inhibitor

University of Massachusetts Amherst (Massachusetts)

Preceptor: Dr. Meru Sadhu

4-041. Ruth Hailemeskel

Overview of Mitochondrial Diagnoses in the Undiagnosed Diseases Program

College of William & Mary (Virginia)

Preceptors: Dr. William Gahl, Ms. Lynne Wolfe

4-042. Asla Hashel

DNA Methylation Differences by SSA Serostatus in the SICCA Cohort

Emory University (Georgia)

Preceptor: Dr. Lindsey Criswell

4-043. Ola Hassan

Changes in Women's Perceptions of Breast Cancer Risk Factors and Communication Intentions Following a Community Education Program

University of Michigan (Michigan)

Preceptor: Dr. Laura Koehly

4-044. Jocelyn Hernandez

Designing cell therapy for the CNS manifestations of CHS murine models

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. May Malicdan, Dr. William Gahl

4-045. Brandon Hertzendorf

Polygenic Risk Score Simulation in a Virtual Reality Clinical Setting: An Overview

University of Florida (Florida)

Preceptor: Dr. Susan Persky

4-046. Madeleine Hesselgesser

Diagnostic Odyssey of Patients with Leigh Syndrome in the Age of Modern Genomics

Georgetown University (District of Columbia)

Preceptors: Dr. Eliza Gordon-Lipkin, Dr. Peter McGuire

4-047. Mehrun Huda

Genomic Ascertainment Study of ACVRL1-and ENG-Related Hereditary Hemorrhagic Telangiectasia

George Mason University (Virginia)

Preceptor: Dr. Joshua Denny

4-048. Chale Jacks

Rates and Determinants of Family Communication and Cascade Testing of Secondary Finding Recipients

Davidson College (North Carolina)

Preceptor: Dr. Julie Sapp

4-049. Lukas Johnson

Assessing Bystander Effects of Single-Vector Adenine Base Editing on Progeria in iPSC-Derived Endothelial Cells

Vassar College (New York)

Preceptor: Dr. Zhengmei Xiong

4-050. Max Kappler

Comparative Transcriptomic Analysis of Gba1-Knockout Zebrafish and Mouse brains reveals shared and distinct Pathways of Neuronopathic Gaucher Disease.

Brandeis University (Massachusetts)

Preceptors: Dr. Tae Un Han, Dr. Ellen Sidransky

4-051. Anirudh Kesanapally

Profiling Cardiac-Valvular and Vascular Ehlers-Danlos Syndrome Subtypes in the All of Us Research Program

Washington University in St. Louis (Missouri)

Preceptor: Dr. Huan Mo

4-052. Brian Kim

Utility of RNA sequencing as a diagnostic tool for aberrant splicing in adult polyglucosan body disease

Vanderbilt University (Tennessee)

Preceptors: Dr. May Malicdan, Dr. William Gahl

4-053. Emily Knisely-Durham

Mapping MATalpha1 transcription factor residues that determine binding site

Howard University (District of Columbia)

Preceptors: Dr. Meru Sadhu, Miss Simone Giovanetti

4-054. Morgan Kresslein

Implementation Science in Genomic Medicine: The Genomics-Enabled Learning Health System (gLHS) Network

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Alanna Kulchak Rahm, Dr. Mollie Minear

4-055. Katelyn Leone

Systemic scAAV9 gene therapy to treat cobalamin B type methylmalonic acidemia

University of Virginia (Virginia)

Preceptors: Dr. Charles Venditti, Dr. Eun-Young Choi

4-056. Bethlehem Michael

Characterization of the SLC17A5 R39C knock-in mouse informs preclinical gene therapy strategies in free sialic acid storage disorder

University of Maryland, College Park (Maryland)

Preceptors: Dr. May Malicdan, Dr. William Gahl

4-057. Stuti Mohan

Preventing and Mitigating Cybersickness in Virtual Reality

New Jersey Institute of Technology (Maryland)

Preceptor: Dr. Susan Persky

4-058. Olivia Pilson

Beliefs and information integrity in genetics

University of Manchester (England)

Preceptor: Dr. Chris Gunter

4-059. Aidan Pintuff

Establishing a murine model of the RUNX1 c.352-1G>T germline mutation

Western Washington University (Washington)

Preceptors: Dr. Paul Liu, Dr. Tao Zhen

4-060. Alexa Raxenberg

Relationship Quality and Coping among Parental Caregivers

Lafayette College (Pennsylvania)

Preceptor: Dr. Laura Koehly

4-061. Ainsley Richardson

Ovarian Tumors in Proteus Syndrome

Davidson College (North Carolina)

Preceptors: Dr. Christopher Ours, Dr. Leslie Biesecker

4-062. Kelsey Rondini

Variable Expressivity, Incomplete Penetrance, and Perceptions of Health: A Family Presenting with an Unspecified Spinocerebellar Ataxia

Georgetown University (District of Columbia)

Preceptors: Ms. Ellen Macnamara, Dr. William Gahl

4-063. Eve Rubovits

The Other Parent's Fault: The Link Between Other-Directed Blame, Perceived Stress, and Coping Among Parental Caregiving in Rare Disease

University of Illinois Urbana-Champaign (Illinois)

Preceptor: Dr. Laura Koehly

4-064. Nora Shefferman

Allele Specific Expression in the Placenta

Princeton University (New Jersey)

Preceptor: Dr. Melissa Wilson

4-065. Elijah Springer

Investigating the Role of UCHL1 in a Patient with Suspected Spastic Paraplegia Type 79

Georgetown University (District of Columbia)

Preceptors: Dr. May Malicdan, Dr. William Gahl

4-066. Olivia Velasquez

Exploring functional methods for characterizing fibrotic phenotype in a murine model of HPS1 Pulmonary Fibrosis

University of Maryland (Maryland)

Preceptor: Dr. May Malicdan

4-067. Lindsay Weingart

Genomic Interruption of the De Novo Purine Synthesis Suggests a Critical Role for Adenylosuccinate Lyase in Zebrafish Development

University of Miami (Florida)

Preceptors: Dr. Oleg Shchelochkov, Dr. Shawn Burgess

4-068. Grace Zhang

Estimating Prevalence and Phenotypic Spectrum of Disorders of Purine and Pyrimidine Metabolism in All of Us

Duke University (North Carolina)

Preceptor: Dr. Oleg Shchelochkov

4-069. Dinie Zheng

High-throughput Screening of Putative Anti-CRISPR Proteins against SpyCas9 and SauCas9

Princeton University (New Jersey)

Preceptor: Dr. Meru Sadhu

4-135. Maya DiFrischia

Quantitative Validation of the "Coastline" Heuristic for Café-au-Lait Macule Borders in Neurofibromatosis Type 1 and McCune-Albright Syndrome

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Benjamin Solomon, Dr. Dat Duong

[NIMH – National Institute of Mental Health \(4-070 – 4-135\)](#)

4-070. Dalia Abdo Kahin

Impact of Magnitude on Reward Processing

American University (District of Columbia)

Preceptors: Dr. Christopher Baker, Dr. Christopher Pirrung

4-071. Elizabeth Albrecht

Computational assessment indicates unique contributions of striatal direct pathway patch neurons during flexible decision-making in mice

Grinnell College (Iowa)

Preceptors: Dr. Veronica Alvarez, Dr. Angela Langdon

4-072. Mikhyah Austin

WHAT IS DRIVING APPARENT CORTICAL THINNING ACROSS DEVELOPMENT

Howard University (Maryland)

Preceptor: Dr. Bruno Averbeck

4-073. Pedro Barboza

PVT Neuronal Ensembles Regulate Lethargy During Inflammation

New York University (New York)

Preceptors: Dr. Douglas Engelke, Dr. Mario Penzo

4-074. Kenya Barnes

Do NMDA Receptors in Prefrontal Cortical Parvalbumin Interneurons Regulate Adaptive Behaviors in Response to Threats?

University of Alabama at Birmingham (Alabama)

Preceptors: Dr. Hugo Tejeda, Dr. Eastman Lewis

4-075. Sophie Bass

Cell specific C1QL3 signaling is essential for stable circadian entrainment and network synchrony

New York University Abu Dhabi (United Arab Emirates)

Preceptor: Dr. Samer Hattar

4-076. Allison Bourd

A selective projection from the islands of Calleja to mediodorsal thalamus

University of California, Santa Barbara (California)

Preceptors: Dr. Yogita Chudasama, Mr. Matthew Lowrie

4-077. Owen Brown

The Trier Social Stress Test in Magnetoencephalography: A Proof-Of-Concept

Tulane University (Louisiana)

Preceptors: Dr. Elizabeth Ballard, Dr. Steven Lamontagne

4-078. Vincent Calia-Bogan

Computational Dissection of Probabilistic Reversal Learning in Rats Reveals Contribution of Hippocampal Neurogenesis to Adaptive Behavior

Brandeis University (Massachusetts)

Preceptor: Dr. Angela Langdon

4-079. [Presenter Withdrawal]

4-080. Benjamin Chandler

Dynamic Causal Modeling of Triple-Network Connectivity Varies by Suicide Attempt History

Michigan State University (Michigan)

Preceptors: Dr. Elizabeth Ballard, Dr. Carlos Zarate

4-081. Rene Choudhari

Actigraphy and EMA features of Mood Disorder Subgroups

University of California, Berkeley (California)

Preceptor: Dr. Kathleen Merikangas

4-082. Alvin Dinh

Face neurons resist optogenetic stimulation during face processing

UNC Chapel Hill (North Carolina)

Preceptors: Dr. Arash Afraz, Dr. Behnam Karami

4-083. Mikko Epstein-O'Rourke

A Cross-Species Platform for Optogenetic fMRI Circuit Mapping

University of Washington (Washington)

Preceptor: Dr. David Leopold

4-084. Will Epstein

Eye metrics do not differ during spoken language comprehension

University of Chicago (Illinois)

Preceptors: Dr. Christopher Baker, Dr. Grace Edwards

4-085. Jorge Flores

Differences in Parvalbumin Cell Populations Within Orbital Frontal Cortex after Long Standing Lesions of the Anterior Cingulate Cortex and Amygdala in Macaque Monkeys: Insights into Network Plasticity after Brain Damage

Washington State University (Washington)

Preceptors: Dr. Elisabeth Murray, Dr. Mary Baldwin

4-086. David Frankel

Mixed Messages: Opposing Peptide Signals Drive Behavioral State Transitions

Duke University (North Carolina)

Preceptors: Dr. Benjamin White, Dr. Tho Nguyen

4-087. Romina Fusha

Investigating Pathological Frustrative Nonreward in SHANK3 Mutant Mice Modeling Phelan-McDermid Syndrome

University of Maryland College Park (Maryland)

Preceptors: Dr. Zheng Li, Dr. Xiaoyu Ma

4-088. Nadia Ghanbari

Endogenous opioids gate exploration-exploitation behavior through disinhibition of prefrontal circuits

University of California, Los Angeles (California)

Preceptors: Dr. Hector Yarur-Castillo, Dr. Hugo Tejeda

4-089. Eve Gold

A Cone-Dominant Diurnal Mammal Demonstrates Minimal Pupillary Light Reflex

Northwestern University (Illinois)

Preceptors: Dr. John Ball, Dr. Samer Hattar

4-090. Marcel González-Pedraza

Adult hippocampal neurogenesis is necessary for experience-dependent changes in mouse social interactions

University of Puerto Rico School of Medicine (Puerto Rico)

Preceptors: Dr. Heather Cameron, Dr. Mumeko Tsuda

4-091. Leah Greenstein

The Role of Adult Hippocampal Neurogenesis in Modulating Aggression-Induced CA2 Activity in Male Mice

Colgate University (New York)

Preceptors: Dr. Mumeko C. Tsuda, Dr. Heather A. Cameron

4-092. Carly Gregg

Comparing response patterns of frontal and temporal macaque face patch neurons

University of Texas at Austin (Texas)

Preceptors: Dr. David Leopold, Dr. Kenji Koyano

4-093. Lilyanna Gross

Characterizing Excitation Inhibition Balance using Normalization-Based Population Receptive Field Models in the Human Brain

Cornell University (New York)

Preceptors: Dr. Elisha Merriam, Dr. Jeongyeol Ahn

4-094. Anna Groszkowski

Co-designing a Digital Tool to Augment Parent Management Training

University of Virginia (Virginia)

Preceptors: Dr. Melissa Brotman, Dr. Lauren Henry

4-095. Alexandra Haralanova

Imagery of Familiar People and Places in Face Blind Individuals

University of Maryland College Park (Maryland)

Preceptors: Dr. Christopher Baker, Mrs. Alexis Kidder

4-096. Samuel Hargrove

Central Amygdalar Synaptic Node is Required for Behavioral Responses to Aversive Stimuli; Separate Roles for Ionotropic and Metabotropic Neurotransmission

Vanderbilt University (Tennessee)

Preceptors: Dr. Lee Eiden, Dr. Sunny Jiang

4-097. Michael Helde

Investigating the effect of ecological statistics on guiding the operations of the MST

University of Washington (Washington)

Preceptors: Dr. David Leopold, Dr. Harish Katti

4-098. Cordelia Hume

Comparative single nuclei transcriptomic analysis of the ventral midline thalamus in macaques, marmosets, and rats

Duke University (North Carolina)

Preceptors: Dr. Yogita Chudasama, Dr. Denis Matrov

4-099. Lea Ives

Transcranial optogenetic modulation of neural activity in non-human primates to investigate brain-wide functional connectivity

George Washington University (District of Columbia)

Preceptors: Dr. David Leopold, Dr. Daniel Zaldivar

4-100. [Presenter Withdrawal]

4-101. Griffin Katz

Personality and Cognitive Profiles of Infection-Associated Chronic Conditions

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Joseph Snow

4-102. Olivia Kearns

Adapting Interventions in the Diverse Real World of Psycho-Oncology: Lessons Learned and Future Directions

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Maryland Pao, Ms. Deborah Snyder

4-103. Oluwasijibomi Ketiku

Delayed Diagnosis of Niemann-Pick disease, type C: Case Series of Juvenile Onset with Misattributed Neurodevelopmental Symptoms

Howard University (District of Columbia)

Preceptor: Dr. Lisa Joseph

4-104. Sophie Ledet

Painting faces with electrical stimulation of face neurons

University of Maryland (Maryland)

Preceptors: Dr. Arash Afraz, Dr. Elia Shahbazi

4-105. Seul Ah Lee

Reduced D2 Autoreceptor Function Prolongs Cocaine-Induced Dopamine Potentiation and is Associated with Increased Addiction Vulnerability

University of California, Berkeley (California)

Preceptor: Dr. Veronica Alvarez

4-106. Christoph Li

Save Everything: A Python interface for Electronic Lab Notebooks

Arizona State University (Arizona)

Preceptors: Dr. Adam Thomas, Dr. Dustin Moraczewski

4-107. Esther Lin

Investigating feedback processing underlying face detection with high-resolution fMRI

Emory University (Georgia)

Preceptors: Dr. Peter Bandettini, Dr. Tyler Morgan

4-108. Clara Lo

General principles of parvalbumin cell populations within the amygdala revealed through species comparisons.

Macalester College (Minnesota)

Preceptors: Dr. Elisabeth Murray, Dr. Mary Baldwin

4-109. Leah Millard

A Promising one-step Pathway to Substituted 18F-labeled N-(2-fluoroethyl)-arylamines for PET Imaging

Gettysburg College (Pennsylvania)

Preceptors: Dr. Victor Pike, Dr. Lisheng Cai

4-110. Leah Mitchell

Selective Deletion of a Glutamate Transporter, EAAT3, in Dopaminergic Neurons Alters Working Memory and Motivated Behaviors in Rats

University of Maryland (Maryland)

Preceptors: Dr. Susan Amara, Dr. Minghan Hu

4-111. Poulomi Mitra

Clinical and Inflammatory Predictors of Cognitive Function in Treatment-Resistant Affective Disorders

University of Texas at Austin (Texas)

Preceptors: Dr. Adam Fijtman, Dr. Carlos Zarate

4-112. Jillian Perrone

Prenatal rAAV Gene Delivery Enables Targeting Developmentally Timed Neuronal Cohorts in the Primate Brain

University of Washington (Washington)

Preceptors: Dr. David Leopold, Dr. Ana Rita Ribiero Gomes

4-113. Diya Rai-Gersappe

Investigating the Role of Oligodendrocyte Precursor Cells in Regulating Anxiety and Depressive-like Behavior in Mice

Vassar College (New York)

Preceptor: Dr. Toby Merson

4-114. Shara Reimer

Using Family Data to Predict Variable Developmental Outcomes in XXY and XYY Syndromes

Northwestern University (Illinois)

Preceptors: Dr. Armin Raznahan, Dr. Siyuan Liu

4-115. Cosette Rhoads

Sleep Quality, Stressful Life Events, and Depression During the Menopause Transition: A Prospective Longitudinal Study

Grinnell College (Iowa)

Preceptors: Dr. Peter Schmidt, Dr. Shau-Ming Wei

4-116. Wilma Victoria Richiez Mateo

Role of Medial Prefrontal Cortex Microcircuits in Regulating Approach-avoidance Behaviors

University of Puerto Rico, Bayamon Campus (Puerto Rico)

Preceptors: Dr. Hugo Tejeda, Dr. Huikun Wang

4-117. Annabelle Ross

Examining the Impact of Comorbid Depressive Symptoms on Response to Cognitive Behavioral Therapy in Pediatric Anxiety Disorders

Davidson College (North Carolina)

Preceptors: Dr. Daniel Pine, Dr. Krystal Lewis

4-118. Marly Rubin

Multi-echo profiling of resting-state fMRI beyond canonical networks

American University (District of Columbia)

Preceptors: Dr. Peter Bandettini, Dr. Javier Gonzalez-Castillo

4-119. [Presenter Withdrawal]

4-120. Starlina Shepard

Identification and characterization of glutamate transporter EAAT3-interacting proteins that regulate EAAT3 trafficking

Virginia Tech (Virginia)

Preceptors: Dr. Susan Amara, Dr. Saranya Radhakrishnan

4-121. Alexander Sheridan

Behavioral Patterns and Motivation of Mice in Go/No-Go Visual Discrimination Licking Tasks

University of California, Los Angeles (California)

Preceptors: Dr. Dietmar Plenz, Dr. Yelena Bibineyshvili

4-122. Jessica Sloane

Reduced Salience Network Connectivity is Associated with Blunted Plasma Copeptin in Major Depression with Comorbid Post-traumatic Stress Disorder

University of Wisconsin - Madison (Wisconsin)

Preceptors: Dr. Jessica Gilbert, Dr. Carlos Zarate

4-123. Marlene Smith

Defining ICA Components for Multi-Echo fMRI Denoising

University of California, Los Angeles (California)

Preceptors: Dr. Peter Bandettini, Dr. Daniel Handwerker

4-124. Stephanie Swegle

Characterizing CSF volume change across functional activation, alertness states, and breath-hold tasks at 7T

University of Notre Dame (Indiana)

Preceptors: Dr. Peter Bandettini, Dr. Javier Gonzalez-Castillo

4-125. Bijan Tabrizian

The Relationship Between Negative Life Event Exposure, Inhibitory Control, and Bullying Perpetration or Victimization among Youth with Anxiety and Healthy Controls

Georgetown University (District of Columbia)

Preceptors: Dr. Daniel Pine, Dr. Meghan Byrne

4-126. Jade Tai

Dissecting Lineage-Specific Progenitor Contributions to Central Nervous System Remyelination

University of California, Los Angeles (California)

Preceptor: Dr. Tobias Merson

4-127. Sarah Thai

Neural Basis of Visual Recovery Following Training

University of Washington (Seattle) (Washington)

Preceptor: Dr. Elisha Merriam

4-128. Maxwell Walker

Medial Pulvinar Input Drives Anatomical Maturation of Prefrontal Neurons

University of Maryland, College Park (Maryland)

Preceptor: Dr. James Bourne

4-129. Norvin West

Indicators of Cerebral Lateralization in ADHD and Mood Disorders

Yale College (Connecticut)

Preceptors: Dr. Kathleen Merikangas, Dr. Jessica Carpenter

4-130. Brandon Winchell

Computational mechanisms of uncertainty and decision confidence under acute stress

University of Southern California (California)

Preceptor: Dr. Silvia Lopez-Guzman

4-131. Christina Wray

Suicide Risk Identification Using the Ask Suicide-Screening Questions and the Columbia-Suicide Severity Rating Scale in an Adult Psychiatric Population

Davidson College (North Carolina)

Preceptors: Dr. Elizabeth Ballard, Dr. Kelly Hurst

4-132. Klaury Youchom-Tagheu

Reflexive inhibition of eye movements depends on intact cortical visual processing

University of Delaware (Delaware)

Preceptors: Dr. Philipp Kreyenmeier, Dr. Elisha Merriam

4-133. Joy Zou

Investigating Structure-Function Alterations in Pediatric Depression

Vanderbilt University (Tennessee)

Preceptor: Dr. Daniel Pine

Session 5: 1:40 – 2:40 PM ET

NEI – National Eye Institute (5-001 – 5-019)

5-001. Emma Attar

Cone Photoreceptor Survival Despite Significantly Enlarged Retinal Pigment Epithelial Cells in Choroideremia Carriers

Colgate University (New York)

Preceptor: Dr. Johnny Tam

5-002. Quinn Battagliese

Temporal signatures of color are sufficient to decode color from a single MEG sensor

Bowdoin College (Maine)

Preceptor: Dr. Bevil Conway

5-003. Paige Chambers

Assay for Detection of Photoreceptor Cell Death in Retinal Degeneration Mouse Models In Vivo

University of Virginia (Virginia)

Preceptors: Dr. S. Patricia Becerra, Dr. Alexandra Bernardo-Colon

5-004. Neha Chellu

Genotypic Effect of Risk Alleles on Age-Related Macular Degeneration Pathogenesis Using In Vitro iPSC-RPE Models

Johns Hopkins University (Maryland)

Preceptors: Dr. Kapil Bharti, Dr. Ruchi Sharma

5-005. Calla Gentilucci

"The poor man's isolator": A surrogate for sterile 'bubble' housing of gnotobiotic mice

University of Maryland (Maryland)

Preceptors: Dr. Rachel Caspi, Dr. Reiko Yamane

5-006. Sena Gul

Developmental Signaling Defines Region-Specific RPE Subtypes in iPSC-Derived Models with Differential Disease Sensitivity

University of California Berkeley (California)

Preceptors: Dr. Kapil Bharti, Dr. Davide Ortolan

5-007. Marsh Hessler

3D-Bioprinted Choroid Model of Neovascular Age-Related Macular Degeneration

University of Maryland (Maryland)

Preceptors: Dr. Kapil Bharti, Dr. Ruchi Sharma

5-008. Adam Kunz

Optogenetic Activation of Layer-6 Extrastriate Corticogeniculate Feedback Shifts LGN Neuronal Tuning

University of Chicago (Illinois)

Preceptor: Dr. Farran Briggs

5-009. Henry Lewinsohn

Learning behavioral representations of color combinations

Colgate University (New York)

Preceptor: Dr. Bevil Conway

5-010. Olaedo Onukwubiri

OCA2 Knockout Retinal Pigment Epithelium exhibits relatively severe pigmentation defects compared to OCA2 patient-derived Retinal Pigment Epithelium

University of Maryland, College Park (Maryland)

Preceptors: Dr. Brian Brooks, Dr. Aman George

5-011. Sumegha Ponnaluri

Quantitative OCT-Based Evaluation of Retinal Pigment Epithelium Transplant Efficacy in a Laser-Injured Porcine Model

University of Michigan (Michigan)

Preceptors: Dr. Kapil Bharti, Dr. Ruchi Sharma

5-012. Maya Richardson

A link between Tyrosinase Protein Stability and the Clinical Significance of Genetic Mutation

Western Michigan University (Michigan)

Preceptor: Dr. Yuri Sergeev

5-013. Sabrina Ripsman

Temporal signatures of color are sufficient to decode color from a single MEG sensor

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Bevil Conway

5-014. Evelyn Scarrow

The Effects of the Pathogenic Rpe65/C112Y Knockin Mutation on the Mouse Visual Cycle

Duke University (North Carolina)

Preceptors: Dr. Michael Redmond, Dr. Yan Li

5-015. Aishini Singh

Neurogranin modulates T cell pathogenicity in autoimmune uveitis

University of California, Davis (California)

Preceptor: Dr. Han-Yu Singh

5-016. Ishareet Sohal

Progressive Retinal Degeneration in a Murine Model Harboring a RABGGTB Subunit Mutation

Rutgers University (New Jersey)

Preceptors: Dr. Yuhong Wang, Dr. Brian Brooks

5-017. Sydney Steele

Studying the role of bysl in Coloboma Pathogenesis using Zebrafish as a model

Stanford University (California)

Preceptors: Dr. Uma Neelathi, Dr. Brian Brooks

5-018. Isabela Tellez

Neural mechanisms of color encoding in macaque V1 at the center of gaze

Barnard College (New York)

Preceptors: Dr. Bevil Conway, Dr. Ramón Bartolo

5-019. Lucy Zha

Deep Learning Based Segmentation of Lesions in Near Infrared Autofluorescence Imaging of Stargardt Disease

Yale University (Connecticut)

Preceptors: Dr. Laryssa Hurn, Dr. Brian Brooks

NHLBI – National Heart, Lung, and Blood Institute (5-020 – 5-057, 5-136)

5-020. Almira Ahmed

The Development of a Vesicle Model to Study Solvent PRE-Effects on Lipoprotein Particles

North Carolina State University (North Carolina)

Preceptors: Dr. Nico Tjandra, Dr. Mary Starich

5-021. Sudha Anilkumar

Structural Characterization of Integrin alpha-5 beta-1 in Nanodiscs

University of Delaware (Delaware)

Preceptors: Dr. Naoko Mizuno, Dr. Victor Vasquez-Montes

5-022. [Presenter Withdrawal]

5-023. Margaret Bradley

Optimizing Lipid-PEG-Peptide Conjugation for Hematopoietic Stem Cell Targeted in vivo LNP Delivery

Georgia Institute of Technology (Georgia)

Preceptors: Dr. John Tisdale, Dr. Naoya Uchida

5-024. Kalen Bunch

Identifying a First Responder to Splicing Dysfunction

University of California, Los Angeles (California)

Preceptors: Dr. John Hogg, Dr. Justin Mabin

5-025. Sara Burr

The Ciliary Tip Module Protein CCDC66 is Required for Spermiogenesis

Skidmore College (New York)

Preceptor: Dr. Nasser Rusan

5-026. Madelyne Dayan

Identifying genes regulating muscle structure and function using muscle-specific CRISPR-Cas9 overexpression in Drosophila melanogaster

Bernard M. Baruch College (New York)

Preceptor: Dr. Brian Glancy

5-027. Tanay Deepak

Neighborhood Crime Exposure and Vascular Aging: Findings from the Stress in the City Geospatial Study

University of Michigan (Michigan)

Preceptor: Dr. Tiffany Powell-Wiley

5-028. Seydeanna Delgado

Preclinical Assessment of Lentiviral, Base Editing, and Prime Editing Strategies for Hemoglobin SC Disease

Cornell University (New York)

Preceptors: Dr. Selami Demirci, Dr. John Tisdale

5-029. Bharath Dileep Kumar

Loss-of-function alterations in TRAF3 are recurrent in ibrutinib-treated chronic lymphocytic leukemia and drive resistance

University of Virginia (Virginia)

Preceptors: Dr. Adrian Wiestner, Dr. Chingiz Underbayev

5-030. Kevin Gery

Cell lysate-induced micro-droplets: A new phase in the study of TDP-43CTD

University of Rochester (New York)

Preceptor: Dr. Jennifer Lee

5-031. Abigail Glezer

Optimization of Multi-Library In Vitro and In Vivo Biopanning for Gene Therapy Targeting Ligand Discovery

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. John Tisdale, Dr. Naoya Uchida

5-032. Shane Grele

Calcium Signaling Mediates a Novel Mitochondrial Stress Response

University of California, Berkeley (California)

Preceptors: Dr. Hong Xu, Dr. Fan Zhang

5-033. Yuvika Harsh

Lecithin:cholesterol Acyltransferase Binds to Multiple Discrete Sites on Low-density Lipoproteins

University of Alabama at Birmingham (Alabama)

Preceptors: Dr. Alan Remaley, Dr. Mart Reimund

5-034. Jason Hong

Differential Colocalization of Epidermal Growth Factor Receptor (EGFR) and Clathrin in Glioblastoma Cells

Brown University (Rhode Island)

Preceptor: Dr. Justin Taraska

5-035. Alex Huang

Single-cell Multimodal Profiling of Monocytes Reveals Differences in Classical Monocyte Compositions in Response to Regular Physical Activity

Brandeis University (Massachusetts)

Preceptors: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer

5-036. Ayotimofe Idowu

The relationship between inflammation and lipid levels after transplant for sickle cell disease

Howard University (District of Columbia)

Preceptors: Dr. Courtney Fitzhugh, Dr. Emily Limerick

5-037. Jehan Khaled

Nicotinamide modulates LPS-induced cholesterol in macrophages

Marquette University (Wisconsin)

Preceptors: Dr. Parizad Torabi-Parizi, Dr. Colleen Curran

5-038. Duy Le

Lentiviral delivery of base and prime editing for sickle cell disease

University of Maryland - College Park (Maryland)

Preceptors: Dr. Naoya Uchida, Dr. John Tisdale

5-039. Isabella Liu

Cell-free DNA and its Associations with Lung Transplant Outcomes

Georgetown University (District of Columbia)

Preceptors: Dr. Muhtadi Alnababteh, Dr. Sean Agbor-Enoh

5-040. Shirley Lopez De Leon

Allostatic Load as a Mediator in the Relationship between Physical Activity and Monocyte Subsets in a Community-based Cohort: Data from the Step-It-Up Digital Health, Community Engaged Physical Activity Intervention

Washington University in St. Louis (Missouri)

Preceptors: Dr. Tiffany Powell-Wiley, Dr. Marcus Andrews

5-041. Colby Luiz

Harnessing CRISPR/Cas13 for temporal control of gene expression in late-stage spermatogenesis

Villanova University (Pennsylvania)

Preceptors: Dr. Hong Xu, Dr. Zhe Chen

5-042. Elyse MacCall

Deciphering the Role of Complement Pathway Activation in Köhlmeier-Degos Disease

University of Maryland (Maryland)

Preceptors: Dr. Manfred Boehm, Dr. Cornelia Cudrici

5-043. Yeganeh Mansourian

Generation of high-affinity apolipoprotein A-V mimetic peptides using RFdiffusion and BindCraft and their effect on triglyceride lowering

University of Maryland Eastern Shore (Maryland)

Preceptor: Dr. Alan Remaley

5-044. Nikhil Mattu

gDAIS: Software for FLIM Analysis with Confidence

George Washington University (District of Columbia)

Preceptor: Dr. Jay Knutson

5-045. Craig Mulhern, Jr.

Longitudinal Immunoproteomic Profiling of Patients on Venovenous Extracorporeal Membrane Oxygenation for Severe Acute Respiratory Distress Syndrome

Stockton University (New Jersey)

Preceptors: Dr. Parizad Torabi-Parizi, Dr. Shreya Kanth

5-046. Jennifer Nwokeji

The Time-Dependent Effects of Mitapivat on Band 3 Tyrosine Phosphorylation Levels in Sickle Cell Disease

Princeton University (New Jersey)

Preceptors: Dr. Swee Lay Thein, Dr. Kang Le

5-047. Pascale Paul

Characterizing the role of an endogenous inhibitor of nonsense-mediated mRNA decay

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. John Hogg, Mr. Darren Boydston

5-048. Anjali Raju

Structural studies of amino acid antiporters VGAT and GadC

Case Western Reserve University (Ohio)

Preceptor: Dr. Jiansen Jiang

5-049. Thomas Recupero

Ultra-Processed Food-Derived Metabolites Disrupt Autophagy in Immune Cells

Washington University in St. Louis (Missouri)

Preceptors: Dr. Rachael Klein, Dr. Michael Sack

5-050. Morgan Skinner

DNA Damage in Embryogenesis Drives Non-Mendelian Inheritance

Delaware State University (Delaware)

Preceptor: Dr. Takashi Akera

5-051. Jasmine Su

The effects of Taurine on mitochondrial function in Taxol treated cells

Vanderbilt University (Tennessee)

Preceptor: Dr. Jay Knutson

5-052. Vedant Thorat

Investigation of VDAC1 oligomerization in immune cells.

Case Western Reserve University (Ohio)

Preceptors: Dr. Jay Chung, Dr. Devikala Gurusamy

5-053. Jose Vazquez

UEVLD as a Potential Tool to Study Tsg-101 and an Application Model for Pseudocontact Shift Experiments

Johns Hopkins University (Maryland)

Preceptor: Dr. Nico Tjandra

5-054. Trenton Williams

Neutrophil Mitochondrial Fatty Acid Oxidation is Overwhelmed in Sepsis

University of Texas at Dallas (Texas)

Preceptor: Dr. Jeffrey Strich

5-055. Samantha Wolfgang

Semaphorin 5A Enhances Neutrophil Migration, Chemokine Signaling, and Worsens Survival in a Pseudomonas Aeruginosa Pneumonia Model

Washington College (Maryland)

Preceptors: Dr. Parizad Torabi-Parizi, Dr. Shreya Kanth

5-056. Amelie Yanes Urrutia

Investigating the Role of the Chromosome Periphery in Meiosis

Mary Baldwin University (Virginia)

Preceptors: Dr. Takashi Akera, Dr. Preethi Kunchala

5-057. Kerem Yazgan

ckIT-directed, in vivo lentiviral vector delivery to immunodeficient, humanized mice is impaired by off-target expression and immune-mediated toxicity

University of California, Berkeley (California)

Preceptors: Dr. John Tisdale, Dr. Naoya Uchida

5-136. Neha Gupta

Examining the Correlation Between Mitochondrial Respiration and Membrane Tension

Northwestern University (Illinois)

Preceptor: Dr. Brian Glancy

NIAMS – National Institute of Arthritis and Musculoskeletal and Skin Diseases (5-058 – 5-074)

5-058. Murchana Barua

The Role of DND1 and NANOS3 in Genomic Stability through Suppression of Histone Methyltransferase EHMT2

Virginia Polytechnic Institute and State University (Virginia)

Preceptor: Dr. Markus Hafner

5-059. Coleman Blanton

Immune Dysregulation Owing to Loss of DHX36 and Stress granules

University of Virginia (Virginia)

Preceptors: Dr. Laura Lewandowski, Dr. Mariana Kaplan

5-060. Mesra Ebadi

Co-internalization of anti-Ro52 autoantibodies with anti-MDA5 autoantibodies enhances interferon beta stimulation in skeletal muscle cells

Barnard College Columbia University (New York)

Preceptors: Dr. Andrew Mammen, Dr. Travis Kinder

5-061. Caleb Kim

Analyzing the Varied Clinical Spectrum in Distinct Inborn Errors of Immunity

University of Maryland, College Park (Maryland)

Preceptor: Dr. Heidi Kong

5-062. Aditi Kodali

Investigating the Role of the Complement System in Stillé's Disease

University of Virginia (Virginia)

Preceptor: Dr. Michael Ombrello

5-063. Devika Kumar

Interferon-Related Transcriptional Signatures in Spondyloarthritis

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Sahar Lotfi-Emran, Dr. Robert Colbert

5-064. Ridhi Patil

Cell-targeted glucocorticoid delivery

University of Texas at Austin (Texas)

Preceptor: Dr. Luis Franco

5-065. Jordan Reaves

Autoantibodies Correlate with Pro-atherogenic Cardiometabolic Profiles and Vascular Wall Inflammation in Patients with Systemic Lupus Erythematosus

Duke University (North Carolina)

Preceptor: Dr. Mariana Kaplan

5-066. Ali Rizvi

Hydroxychloroquine Toxicity Risk in SLE Patients with Renal Impairment

Georgetown University (District of Columbia)

Preceptor: Dr. Sarfaraz Hasni

5-067. Emily Rosenbaum

Developing a Cell Type-Aware Quality Control Framework for Multi-Batch and Multicenter scRNA-seq Analysis of Human PBMCs

Clark University (Massachusetts)

Preceptors: Dr. Michael Ombrello, Dr. Krisztian Csomos

5-068. Sreenidhi Sankararaman

Comparative Effectiveness of Tocilizumab Versus TNF Inhibitors in Takayasu Arteritis

Johns Hopkins University (Maryland)

Preceptors: Dr. Peter Grayson, Dr. Kaitlin Quinn

5-069. Jacqueline Saulnier

Investigating the interaction between ERAP1 and HLA-B27 in macrophage mtROS production

Bryn Mawr College (Pennsylvania)

Preceptors: Dr. Eric Brown, Dr. Robert Colbert

5-070. Saagar Shah

Uncovering active signaling pathways in developing Merkel cells using single-cell RNA sequencing

University of Central Florida (Florida)

Preceptor: Dr. Isaac Brownell

5-071. Nitin Sreekumar

The Glucocorticoid Receptor is a Nuclear Protein

Brown University (Rhode Island)

Preceptor: Dr. Luis Franco

5-072. Isabelle Staco

Long-Term Alterations to Human Skin Microbiome Composition a Decade After Oral Antibiotics

Yale University (Connecticut)

Preceptor: Dr. Heidi Kong

5-073. Karyssa Stonick

Patterns of Skin Lesion Transcriptomics in Systemic Vasculitides

Portland State University (Oregon)

Preceptor: Dr. Peter Grayson

5-074. Maansi Taori

The Role of HLA-B27 in Aberrant Mineralization in an Experimental Model of Axial Spondyloarthritis

University of Virginia (Virginia)

Preceptors: Dr. Robert Colbert, Dr. Fatemeh Navid

[NINDS – National Institute of Neurological Disorders and Stroke \(5-075 – 5-135\)](#)

5-075. Lillian Aregawi

Measuring brain functional connectivity in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome during fatigability

Columbia University (New York)

Preceptor: Dr. Brian Walitt

5-076. Caleb Atkins

Singular Value Decomposition-Based Coil Combination Improves the Accuracy and Noise-Robustness of Quantitative Susceptibility Maps

Union University (Tennessee)

Preceptor: Dr. Govind Bhagavatheeshwaran

5-077. Hillina Berhane

Flow Cytometric Profiling of Immune Dysregulation in PLWHIV

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Avindra Nath

5-078. Dhruval Bhatt

Single-cell multiomic analysis reveals that pituitary adenomas arise from mature pituitary cells via epigenetic dysregulation

Wayne State University (Michigan)

Preceptor: Dr. Prashant Chittiboina

5-079. Brandon Bujak

Prevalence of paramagnetic rim lesions in postmortem MRI of multiple sclerosis brains

Jagiellonian University (Poland)

Preceptor: Dr. Govind Bhagavatheeshwaran

5-080. Gabriel Bulacan

Tracking TREC: Investigations into a Novel Prognostic Biomarker for PML

Pennsylvania State University (Pennsylvania)

Preceptor: Dr. Irene Cortese

5-081. Sophia Cheng

The Generalizability of Detecting Meningeal Injury following Traumatic Brain Injury: Elevated Diffusion of Water in Extra-Axial Space on 1.5T MRI

University of Virginia (Virginia)

Preceptor: Dr. Lawrence Latour

5-082. Joseph Choi

Beyond Inflammation: Arachnoiditis as a Fibroblast-Dominant Adhesive Disease

University of Michigan (Michigan)

Preceptor: Dr. John Heiss

5-083. Amy Ciceu

Resolving the Role of the CRD-Nrg1 Signaling Pathway in Modulating the Developmental Trajectory of Basal Forebrain Cholinergic Neurons

Princeton University (New Jersey)

Preceptors: Dr. David Talmage, Dr. Lorna Role

5-084. Charlotte Dagli

Interpreting HTLV seroindeterminate western blots by rapid test and PCR analysis

Elon University (North Carolina)

Preceptor: Dr. Steven Jacobson

5-085. Snezana Dimova

Multi-modal Investigation of Cholinergic Function in Aging

Florida Atlantic University (Florida)

Preceptor: Dr. Lorna Role

5-086. Brandon Do

Visualizing changes to perivascular spaces in people living with HIV: Clinical implications

Virginia Tech (Virginia)

Preceptors: Dr. Govind Bhagavatheeshwaran, Dr. Avindra Nath

5-087. Abaigeal Donaldson

Investigating the Effects of Brincidofovir on Viral Reactivation in Nonhuman Primates

Colgate University (New York)

Preceptor: Dr. Steven Jacobson

5-088. Madeleine Druker

Longitudinal Reactivation of Epstein Barr Virus in Cells from Multiple Sclerosis Patients and Healthy Controls

Colgate University (New York)

Preceptor: Dr. Steven Jacobson

5-089. Katherine Fleig

Effort Preference and Motor Task Performance in Fatiguing Disorders

College of Wooster (Ohio)

Preceptor: Dr. Brian Walitt

5-090. Soma Freeman

Associations between Alcohol and Dementia: The Atherosclerosis Risk in Communities Study

Northern Arizona University (Arizona)

Preceptor: Dr. Rebecca Gottesman

5-091. Arantza Garcia

Transcriptomic Expression of HML-2 Across Neuronal Differentiation

Johns Hopkins University (Maryland)

Preceptor: Dr. Darshan Pandya

5-092. Aaron George

Investigating the Interaction of CRD Nrg-1 and Acetylcholine in Threat Memory

University of California Santa Barbara (California)

Preceptors: Dr. David Talmage, Dr. Lorna Role

5-093. Veronica Goveas

Multimodal Clinical and Molecular Characterization of ALS4 Reveals Structural Muscle Degeneration and NUP50-Associated Pathology

University of Wisconsin--Madison (Wisconsin)

Preceptors: Dr. Christopher Grunseich, Jason Bussgang

5-094. Taylor Harris

Normative Modeling of EEG Reveals Altered Developmental Trajectories in CLN3 Disease

Colorado College (Colorado)

Preceptors: Dr. Sara Inati, Dr. Ivano Triggiani

5-095. Giselle Hartley

The Spectrum of Giant Axonal Neuropathy: A Case Report of Identical Twins

James Madison University (Virginia)

Preceptors: Dr. Rotem Orbach, Dr. Reghan Foley

5-096. Francisco Hernandez

Salivary Cortisol Trends in Fatiguing Disorders

Oregon State University (Oregon)

Preceptors: Dr. Brian Walitt, Ms. Nicole Benoit

5-097. Richard Ho

Multiplexed Profiling of Genetic Perturbations in Human iPSC-Derived Neurons Using Optical Pooled Screens

University of California, Berkeley (California)

Preceptor: Dr. Michael Ward

5-098. Ursula Horn

The Relationship between Bursting Activity in Human Anterior Temporal Lobe and Working Memory

Swarthmore College (Pennsylvania)

Preceptor: Dr. Kareem Zaghloul

5-099. Jack Howell

Personalized Splice-Modifying ASOs Correct Pathogenic AP4M1 Splicing and Improve AP-4 Functionality in Cultured SPG50 Patient Cells

William & Mary (Maryland)

Preceptors: Dr. Carsten Bährmann, Dr. Vă©ronique Bolduc

5-100. Andrea Huerta Alberca

Data Processing Pipeline for Comparing 3-Tesla and Ultra-Low Field MRI Images

New Jersey Institute of Technology (New Jersey)

Preceptor: Dr. Silvina Horovitz

5-101. Aanchal Jain

Cerebrospinal Fluid Proteomics in Virally Suppressed People with HIV

University of Michigan (Michigan)

Preceptors: Dr. Avindra Nath, Dr. Darshan Pandya

5-102. Elizabeth Jitendran

Neural Representations of Color and Sequential Information in Human Intracranial Recordings

Arizona State University (Arizona)

Preceptor: Dr. Kareem Zaghloul

5-103. Shirlene John

Comparison of 3T and Ultra-Low Field (0.064 T) MRI brain morphometry data

Johns Hopkins University (Maryland)

Preceptor: Dr. Silvina Horovitz

5-104. Catie Kaneshiro

The Role of Il33 in an Adult Stem Cell Niche

Pomona College (California)

Preceptors: Dr. Dana Bakalar, Dr. Whitney Heavner

5-105. Carina Karp

HERV-K Envelope Toxicity: Effects of Forskolin Treatment

University of Virginia (Virginia)

Preceptors: Dr. Joe Steiner, Dr. Avindra Nath

5-106. Emily Knapp

Effects of Postmortem Tissue Preparation for MRI on Downstream IHC Antigenicity

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Govind Bhagavatheeshwaran, Dr. Maxime Donadieu

5-107. Lily Kons

Association Between Resting State Functional Connectivity and Behavioral Ratings of Pain and Fatigue

Allegheny College (Pennsylvania)

Preceptors: Dr. Eric Wassermann, Mrs. Hedyeh Bagherzadeh

5-108. Adrian Koretsky

Exploring the Interaction Between Kv2.1 and AMIGO Using Computational and Experimental Approaches

Brandeis University (Massachusetts)

Preceptors: Dr. Kenton Swartz, Dr. Lucy Forrest

5-109. Edward Lee

Antisense Oligonucleotides as Broadly Effective Inhibitors of Mosquito-Borne Flaviviruses

Bucknell University (Pennsylvania)

Preceptors: Dr. Lisa Henderson, Dr. Avindra Nath

5-110. Vani Lorish

Investigation of Regulation by Serotonin Transporter Oligomerization using AlphaFold3

The College of New Jersey (New Jersey)

Preceptor: Dr. Lucy Forrest

5-111. Caroline MacLaren

Deep Learning Approach to Automated Behavioral Classification with Video and Neural Recordings

Villanova University (Pennsylvania)

Preceptor: Dr. Kareem Zaghloul

5-112. Nateniel Mearns-Escobar

A Comparison of Post-Exertional Malaise across Rheumatic Diseases and Infection-Associated Chronic Conditions

University of Maryland, College Park (Maryland)

Preceptor: Dr. Brian Walitt

5-113. Druv Menon

Unraveling the natural history of FHL1-related Reducing Body Myopathy (RBM): A histopathological analysis of human and mice muscle

Johns Hopkins University (Maryland)

Preceptors: Dr. Ricardo Galli, Dr. Carsten Bonneman

5-114. Kevin Mercado Rosado

Comparison of NGN2 gene syntax for optimizing neuronal differentiation

University of Puerto Rico-Humacao (Puerto Rico)

Preceptor: Dr. Michael Ward

5-115. Hana Munshi

U7 small nuclear RNA (snRNA)-driven splice modulation for a COL6-related muscular dystrophy

University of Maryland (Maryland)

Preceptors: Dr. Veronique Bolduc, Dr. Carsten Bonnemann

5-116. Andra Mutu

Beyond the Brain: Spinal cord morphometry in Progressive Multifocal Leukoencephalopathy

American University (District of Columbia)

Preceptor: Dr. Irene Cortese

5-117. Nora O'Prey

Identification of Noradrenergic Subpopulations of Locus Coeruleus Neurons

Grinnell College (Iowa)

Preceptor: Dr. Zayd Khaliq

5-118. Jacob Popolow

Optimizing the Direct Differentiation of Fibroblasts into Adult Human Neurons

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Michael Ward

5-119. Nikhil Ramavenkat

Single-cell Multi-Omics Analysis Clarifies Origins and Mechanisms of Spinal Cord Ependymoma Formation

Rutgers University - New Brunswick (New Jersey)

Preceptor: Dr. Prashant Chittiboina

5-120. Makenna Rodriguez

Immunostaining Coupled Branch Amplification

Howard University (District of Columbia)

Preceptor: Dr. Michael Ward

5-121. Gabriela Sandoval Faber

Rational design and screening of antisense oligonucleotides for a novel splicing variant causing a COL6-related muscular dystrophy

University of Florida (Florida)

Preceptors: Dr. Veronique Bolduc, Dr. Carsten Bäßler, Dr. Carsten Bönnemann

5-122. Shubhi Saxena

Examining the Clinical Heterogeneity of C9orf72-Associated ALS

University of Maryland Baltimore County (Maryland)

Preceptor: Dr. Justin Kwan

5-123. Jasper Shide

Molecular Simulations Reveal Interaction Networks Involved in Ion Recognition in Neurotransmitter Transporters

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lucy Forrest, Dr. Eva Hellsberg

5-124. Ginger Smith

Early Upregulation of BCAS1 at the Lesion Edge in a Marmoset Model of Multiple Sclerosis

University of Virginia (Virginia)

Preceptors: Dr. Daniel Reich, Dr. Jing-Ping Lin

5-125. Bailey Sowers

BBB Disruption as a Potential Imaging Marker of Subacute Ischemic Stroke

Grinnell College (Iowa)

Preceptors: Dr. Marie Luby, Dr. Lawrence Latour

5-126. Julia Stone

Elevated HERV-K (HML2) Identifies a Transcriptionally Distinct Subset of ALS

George Washington University (District of Columbia)

Preceptors: Dr. Avindra Nath, Sam Darko

5-127. Alvin Tak

The role of PTEN in cell cycle regulation in the olfactory epithelium

University of Houston (Texas)

Preceptors: Dr. John Ngai, Dr. Whitney Heavner

5-128. Noelle Tegan

Characterizing the Snx10-ClC-7 Axis in Lysosomal Homeostasis

Boston University (Massachusetts)

Preceptors: Dr. Joseph Mindell, Dr. Jacob Hilton

5-129. Dan Tsuma

Detection and Phenotypic Exploration of Androgen Receptor CAG Repeat Expansions in a Population Cohort

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Christopher Grunseich

5-130. Joy Ugwu

Evaluation of Automated Lesion Segmentation in QSM-Aligned MRI Using MP2RAGE and FLAIR

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Daniel Reich, Dr. Maria Gaitan

5-131. Lucia Viechnicki

Identification of novel autoantigens in patients with Stiff Person Syndrome

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Tory Johnson, Dr. Avindra Nath

5-132. Melissa Wilson

Combining Transmission Electron Microscopy and NanoSIMS to Track Mitophagy of Damaged Mitochondria in the Mouse Heart

Loyola University Chicago (Illinois)

Preceptors: Dr. Derek Narendra, Dr. Xiaoping Huang

5-133. Daniel Yusufi

Flexible and stable entorhinal representations jointly support spatial memory

George Mason University (Virginia)

Preceptor: Dr. Yi Gu

5-134. Mark Zambrano

Mapping Inhibitory Circuit Failure in Focal Epilepsy

University of Virginia (Virginia)

Preceptors: Dr. Sara Inati, Dr. Yung-Tian Gau

5-135. Madison Zhao

Functional Connectivity Sign Reversal Across the Sleep-Wake Spectrum

Rice University (Texas)

Preceptors: Dr. Dante Picchioni, Dr. Jeff Duyn

Session 6: 2:50 – 3:50 PM ET

NIAAA – National Institute on Alcohol Abuse and Alcoholism (6-001 – 6-037)

6-001. Angel Asamoah

Real-time fMRI Neurofeedback for Modulation of Alcohol Craving in Alcohol Use Disorder

The College of Wooster (Ohio)

Preceptors: Dr. Nancy Diazgranados, Mallory Kisner

6-002. [Presenter Withdrawal]

6-003. Jared Balsz-Diaz

Therapeutic Potential of Thio-Substituted Pyrazoline Series of Peripherally Restricted CB1R Antagonists: Design, Synthesis, and Biological Evaluation

University of New Mexico (New Mexico)

Preceptor: Dr. Malliga Iyer

6-004. Nathaniel Burkard

Effects of Acute Fentanyl on [18F]PF-06445974 Binding: A Brain PET Imaging Study in Rats

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Nora Volkow, Dr. Sunny Kim

6-005. Jacob Buursma

Effect of Polygenic Scores on Default Mode Network Resting-State Connectivity in AUD

Washington State University (Washington)

Preceptor: Dr. Nancy Diazgranados

6-006. Ailen Costamagna-Soto

Assessment of μ -Opioid Receptor Occupancy by a Full Agonist in Rats Using [11C]Carfentanil

University of Minnesota (Minnesota)

Preceptors: Dr. Nora Volkow, Dr. Sung Won Kim

6-007. Niall Dermady

Fear modulation by intercalated amygdala neurons

College of the Holy Cross (Massachusetts)

Preceptors: Dr. Andrew Holmes, Dr. Olena Bukalo

6-008. Maddison Devine

Investigating PFC representations in contextual fear discrimination using VR technology

Mount St. Mary's University (Maryland)

Preceptor: Dr. Andrew Holmes

6-009. Lacey Donahue

Exploring Symptom Heterogeneity in Individuals with Comorbid Alcohol Use Disorder and Major Depressive Disorder: Associations with Clinical Neurofunctional Domains

Oregon State University (Oregon)

Preceptors: Dr. Vijay Ramchandani, Dr. Melanie Schwandt

6-010. Karolina Gal

ALD Cirrhosis: Lessons From In Vivo and In Vitro Models

Vanderbilt University (Tennessee)

Preceptors: Dr. David Goldman, Dr. Bani Mukhopadhyay

6-011. Eve Gibbs

Design, synthesis, and evaluation of novel Thiosulfonylurea derivatives as potential CB1R antagonists for the treatment of obesity and metabolic syndrome

The Pennsylvania State University- Penn State Berks Campus (Pennsylvania)

Preceptor: Dr. Malliga Iyer

6-012. Marcelle Halfeld

Investigating Basolateral Amygdala Interneuron Contributions to Reward and Punishment Encoding

Rutgers University (New Jersey)

Preceptor: Dr. Andrew Holmes

6-013. Caroline Hiers

Targeted control of CB1R-expressing interneurons in basolateral amygdala

Davidson College (North Carolina)

Preceptors: Dr. Andrew Holmes, Dr. Ozge Gunduz Cinar

6-014. Abigail Holder

Learning and Motor Behavior Drive Bidirectional cAMP Dynamics in D2 Striatal Neurons

University of California, Los Angeles (California)

Preceptors: Dr. Jeong Oen Lee, Dr. David Lovinger

6-015. Emily Hui

A multi-omic examination of shared genetic risk across pain, mental health, and addiction

Stanford University (California)

Preceptor: Dr. Falk Lohoff

6-016. Lucero Alondra Jimenez Martinez

The role of Neutrophils in Alcohol-Associated Bowel and Liver Diseases

Sorbonne Universite (France)

Preceptors: Dr. Bin Gao, Dr. Luca Maccioni

6-017. Theodore Koide

CHRNA5 rs16969969 Polymorphism Associated with Executive Dysfunction and Incentive Salience in Non-AUD and AUD Drinkers

Bates College (Maine)

Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

6-018. Akash Kotian

Preclinical [11C]MMPD PET Study: Effect of Efflux Pumps on Brain Uptake

Princeton University (New Jersey)

Preceptors: Dr. Sunny Kim, Dr. Nora Volkow

6-019. Se Rin Lee

Associations Between Polygenic Scores Related to Compulsivity & Impulsivity and Clinical Characteristics in the Context of OCD, ADHD, and AUD

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Nancy Diazgranados, Dr. David Goldman

6-020. Makenna Luba

An Examination of Longitudinal Changes in Anticipated Subjective Alcohol Effects and Alcohol Consumption across Participants with and without an Alcohol Use Disorder

Louisiana State University (Louisiana)

Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

6-021. Ava Mascarenhas

Exploring Associations between Negative Emotionality and MRI-Based Structural Volumes of Addiction-Relevant Brain Regions

Howard University (District of Columbia)

Preceptors: Dr. Nancy Diazgranados, Dr. Vijay Ramchandani

6-022. Kylee Miller

Deep phenotyping of neurofunctional domains of alcohol and co-occurring substance use disorders

Mount Holyoke College (Massachusetts)

Preceptor: Dr. Nora Volkow

6-023. Sofia Pelayo

Dissecting the role of CB1R-expressing BLA GABAergic interneurons in fear extinction

Swarthmore College (Pennsylvania)

Preceptors: Dr. Andrew Holmes, Dr. Ozge Gunduz-Cinar

6-024. Tyler Perlstein

Assessing the Neurocognitive Benefits of Fibroblast Growth Factor 21: A Drug-Target Mendelian Randomization Study

University of Maryland, College Park (Maryland)

Preceptors: Dr. Falk Lohoff, Dr. Daniel Rosoff

6-025. Joshua Pham

Entrainment of an autonomous motivational state switch in mice on circadian timescales

University of California, Santa Barbara (California)

Preceptors: Dr. Hugo Tejeda, Dr. Eloise Kuijer

6-026. Ciara Post

Motivation matters: How do relief, reward, and habit drinkers differ in emotion dysregulation and coping strategies?

Queen's University Belfast (Northern Ireland)

Preceptors: Dr. Jeremy Luk, Dr. Nancy Diazgranados

6-027. Leon Ruiter-Lopez

Opposing Roles of CYP2E1 and ALDH2 in Binge Alcohol- Mediated Cerebellar Damage

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Byoung-Joon Song, Dr. Wiramon Rungratanawanich

6-028. Katerina Scott

Modeling Pain Experiences across 23 Days of Inpatient AUD Treatment

St. Mary's College of Maryland (Maryland)

Preceptor: Dr. Nancy Diazgranados

6-029. Allison Sereno

Ethanol Alters Electrically Evoked GABA Signaling at D1-Medium Spiny Neurons in the Dorsolateral Striatum

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Lee Peyton, Dr. David Lovinger

6-030. Deniz Seyhan

Myeloid NCF1/NOX2 activity drives oxidative stress and liver immune suppressive immune response, promoting hepatocellular carcinoma progression

Sorbonne University (France)

Preceptors: Dr. Bin Gao, Dr. Fouad Lafdil

6-031. Muhammad Shah

Development of a Video-Synchronized, In Vivo Fluorescence Lifetime Photometry System for 24-Hour Monitoring of Neuromodulation and Intracellular Signaling in the Mouse Brain

George Mason University (Virginia)

Preceptor: Dr. Jeong Lee

6-032. Nia Smith

Associations Between Early Life Stress Exposure and Alcohol Self-Administration in a Human Laboratory Study

George Mason University (Virginia)

Preceptor: Dr. Vijay Ramchandani

6-033. Shriya Varada

Astrocytes regulate extinction of fear memory

University of Virginia (Virginia)

Preceptors: Dr. Andrew Holmes, Dr. Olena Bukalo

6-034. Carolina Vela

Systemic Pcsk9 Inhibition Alters Hippocampal Lipid Handling and Neurotrophic Signaling Through a Hepatic-Brain Axis

Harvard University (Massachusetts)

Preceptors: Dr. Falk Lohoff, Dr. Josephin Wagner

6-035. Paul Volesky

Design, Synthesis, and Biological Evaluation of Selective Dual-targeting Modulators of CB2R and Soluble Epoxide Hydrolase for Disease Treatment

Albion College (Michigan)

Preceptors: Dr. Malliga Iyer, Dr. Pinaki Bhattacharjee

6-036. Alexandra Wagner

Alcohol Use Disorder with Metabolic Dysfunction Is Associated with Adverse Sleep Outcomes in a U.S. Clinical Cohort

Harvard College (Massachusetts)

Preceptors: Dr. Falk Lohoff, Dr. Jeeseun Jung

6-037. Dongqing Wu

Hepatocyte-derived CXCL1 and neutrophil-associated inflammatory responses in acetaminophen-induced liver injury

Anhui Medical University (China)

Preceptor: Dr. Pal Pacher

[NIBIB – National Institute of Biomedical Imaging and Bioengineering \(6-038 – 6-057\)](#)

6-038. Tosin Adedipe

Arterial Compliance in Sickle Cell Disease is Increased by Induced Disturbed Flow and Restored by Loss of Cathepsin in a Sex-Specific Manner

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Manu Platt, Dr. Hannah Song Lee

6-039. Ama Anwar

Platelet Aggregation and Erythrocyte Deformation: Investigating Arterial Thrombus Architecture Using Scanning 3D Electron Microscopy

Columbia University in the City of New York (New York)

Preceptors: Dr. Maria Aronova, Dr. Richard Leapman

6-040. Daniel Orion Bacuyag

Design of a Spray Applicator for a Novel Peptide-based Nanoparticle Hydrogel Composite Material Carrying Anti-Cancer RNA Therapy

Rice University (Texas)

Preceptors: Mr. Randall Pursley, Dr. Chuong Hoang

6-041. Cameron Baenen

Machine Learning Analysis of Cellular Remodeling during Occlusive Blood Clot Formation

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Richard Leapman, Dr. Maria Aronova

6-042. Niara Botchwey

Red Blood Cell-Leukocyte Interactions Drive Aggregate Formation in Sickle Cell Disease

Harvard College (Massachusetts)

Preceptors: Dr. Manu Platt, Dr. Hannah Lee

6-043. Jordyn Bryan

Three-Dimensional Reconstruction from Magnetic Resonance Angiography of Common Carotid Arteries reveals expansive Arterial Remodeling from increased Cathepsin K protease in Sick Cell Disease Mice

Spelman College (Georgia)

Preceptors: Dr. Manu Platt, Dr. Hannah Song-Lee

6-044. Michael Burgess II

Cathepsin K Deficiency Protects Against Diminished Bone Mechanics in Sick Bone Disease by Reducing Osteoclast Activity and Bone Mineralization

North Carolina Agricultural and Technical State University (North Carolina)

Preceptor: Dr. Manu Platt

6-045. Kenny Chuwing

Development of Custom 3D-printed Footwear for Patients with Lower Extremity Deformities

Columbia University in the City of New York (New York)

Preceptors: Mr. Jonathan Krynitsky, Dr. Afua Asante-Otoo

6-046. Esohe Edomwandagbon

Characterizing Cerebrovascular Injury in Townes Sick Cell Disease Mouse Model

Prairie View A&M (Texas)

Preceptors: Dr. Manu Platt, Dr. Carey Dougan

6-047. Ajong Fonda

Analysis of Motion Artifact Severity in a Longitudinal Adolescent Brain MRI study

North Carolina Agricultural and Technical State University (North Carolina)

Preceptors: Ms. Amritha Nayak, Dr. Carlo Pierpaoli

6-048. Robert Gan

Deep Learning Analysis of Platelets in Mice Puncture Wound Thrombi Images Obtained by 3D Scanning Electron Microscopy

Boston University (Massachusetts)

Preceptors: Dr. Richard Leapman, Dr. Maria Aronova

6-049. Jeydi Gonzalez-Guzman

Using F-18 FMISO to identify hypoxic regions in sickle cell disease mice.

University of Alabama at Birmingham (Alabama)

Preceptors: Dr. Manu Platt, Dr. Lixin Lang

6-050. Mohamed Ismail

Development of Synthetic Cathepsin K Sensitive Hydrogels to Study Extracellular Matrix Proteolytic Remodeling

Clemson University (South Carolina)

Preceptors: Dr. Manu Platt, Dr. Carey Dougan

6-051. Sean Judge

High-Throughput Machine Vision Enabled AI Pipeline for Multi-Species Behavioral Analysis

University of Maryland (Maryland)

Preceptor: Dr. Ghadi Salem

6-052. Gregory Kislik

Diffusion MRI Findings in Sleep Deprived Subjects

University of California, Los Angeles (California)

Preceptors: Dr. Okan Irfanoglu, Dr. Carlo Pierpaoli

6-053. Furqaan Nadeem

Multi-User Virtual Reality Application for Collaborative Volumetric Data Visualization and Interaction

University of Maryland, College Park (Maryland)

Preceptors: Dr. Raisa Freidlin, Dr. Ghadi Salem

6-054. Felicia Owoborode

Exploring the Versatility of MALDI Mass Spectrometry: From Tissue Imaging to Droplet-Based Sample Analysis

Colgate University (New York)

Preceptor: Dr. Heather Kalish

6-055. Mustafa Rai

Development of a 3D Model System to Characterize the Effect of Oxygenation on Multidrug Resistance

West Virginia University (West Virginia)

Preceptor: Dr. Nicole Morgan

6-056. Levi Scarpelli

3. Automation and Optimization of High-Throughput ELISAs

University of Maryland, College Park (Maryland)

Preceptors: Dr. Heather Kalish, Dr. Fabiano Oliveira

6-057. Isaac Thomas

Nanoparticle Formation of Recombinant Plasmodium falciparum CSP Creates Structural Conformations Required for High Affinity Binding of Sterilizing mAbs

University of Maryland - College Park (Maryland)

Preceptors: Dr. Albert Jin, Dr. David Narum

[NICHD – Eunice Kennedy Shriver National Institute of Child Health and Human Development \(6-058 – 6-136\)](#)

6-058. Florence Agyei

Adult-Onset Niemann-Pick Disease Type C: Psychiatric Manifestations

New York University (New York)

Preceptors: Dr. Forbes Porter, Mr. Derek Alexander

6-059. Kelechi Akalaonu II

Development of a genetic detection system to reveal higher order gustatory feedback to the peripheral Drosophila taste organ

Yale University (Connecticut)

Preceptors: Dr. Bo-Mi Song, Dr. Mark Stopfer

6-060. Rachel Amedume

Identifying Potential Therapeutic Interventions for KRAS-driven Complex Lymphatic Anomalies

Howard University (District of Columbia)

Preceptor: Dr. Sarah Sheppard

6-061. Alisha Anand

Correcting cryptic splicing in a TDP deficient mouse model of ALS

Case Western Reserve University (Ohio)

Preceptor: Dr. Claire Le Pichon

6-062. Divine Ayichi

ScRNA-seq Analysis Reveals Drastic Epithelial Cell Transformation at the Climax of Xenopus Intestinal Metamorphosis

University of Maryland College Park (Maryland)

Preceptor: Dr. Yun-Bo Shi

6-063. Glenine Bautista

VDAC Isoform-Specific Modulation of Mitochondria Structure and Function

Lehigh University (Pennsylvania)

Preceptors: Dr. Sergey Bezrukov, Dr. Megha Rajendran

6-064. Diana Benitez-Alvarado

Bacitracin Powder as a Novel Approach to Inhibiting Insulin Degradation: A Comparative Study with Bacitracin Solution

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Jack Yanovski, Ms. Sheila Brady

6-065. Smitha Bhagavatula

Hypomyelination in a Mouse Model of Free Sialic Acid Storage Disorder and Potential Therapeutic Options

Wellesley College (Massachusetts)

Preceptors: Dr. Forbes Porter, Dr. Cristin Davidson

6-066. Aiden Borruso

Silent Aspiration in Niemann-Pick Disease, Type C1

Cornell University (New York)

Preceptors: Dr. Forbes Porter, Mrs. Beth Solomon

6-067. Garrett Bowman

Smith-Lemli-Opitz Syndrome

Natural History Study

Descriptive Cohort Review

Georgetown University (District of Columbia)

Preceptors: Dr. Forbes Porter, Mr. Derek Alexander

6-068. Brady Braund

Mitochondrial Structural and Metabolic Alterations in MEHMO Syndrome

University of Michigan (Michigan)

Preceptor: Dr. An Dang Do

6-069. Audrey Breckenridge

SHOC2 is a novel cause of central conducting lymphatic anomaly, possibly through activation of mTOR signaling

University of Richmond (Virginia)

Preceptor: Dr. Sarah Sheppard

6-070. Jayna Bryant

The Role of CD5 in T Cell-Mediated Anti-Tumor Immunity

Spelman College (Georgia)

Preceptors: Dr. Teri Hatzihristidis, Dr. Paul Love

6-071. Samantha Bunner

CpG islands facilitate promoter activation by distal enhancers

University of Massachusetts Amherst (Massachusetts)

Preceptor: Dr. Pedro Rocha

6-072. Aditi Chadha

Carbon or Nitrogen Limitation Reprograms Decapping Activator-Mediated mRNA Decay

Texas A&M University (Texas)

Preceptors: Dr. Alan Hinnebusch, Dr. Rakesh Kumar

6-073. Jay Cheeti

Uncovering the Relationship Between Skin Pigmentation/Muscle Strength and Bone Mineral Density

University of Arizona (Arizona)

Preceptors: Dr. Catherine Gordon, Dr. Milena Jovanovic

6-074. Hannah Chu

LARP7: A Tale of Two Pathologies from Rare Disease to Cancer

Baylor University (Texas)

Preceptors: Dr. Roger Woodgate, Dr. Marcela Teatin-Latancia

6-075. Jackson Crane

Extending RNA Half-Lives to Facilitate Development of a Zebrafish Transcriptional Lineage-Tracing Tool

University of California, Davis (California)

Preceptors: Dr. Jeffrey Farrell, Dr. Michael Nunneley

6-076. Valerie Czach

Integration of Variant Calling for PRDM9 Zinc Finger Allele Detection in Human Samples

Georgetown (District of Columbia)

Preceptor: Dr. Ryan Dale

6-077. Genevieve Depke

Evaluating Ovulatory Suppression in Users of Long-Acting Injectable Levonorgestrel Butanoate

Barnard College, Columbia University (New York)

Preceptors: Dr. Diana Blithe, Dr. Jason Woo

6-078. Natalie Eisen

Analyzing Transcript Variances Associated with Lysosomal Accumulation in Niemann Pick Disease Type C

University of Maryland (Maryland)

Preceptors: Dr. Forbes Porter, Dr. Antony Cougnoux

6-079. Seth Entriken

Creating tissue-specific drivers to understand the dynamics of the zebrafish posterior lateral line primordium

Iowa State University (Iowa)

Preceptor: Dr. Ajay Chitnis

6-080. Cansu Erkan

Pilot Investigation of Attention, Response Inhibition, and Cognitive Control Using a Behavioral Task and Functional Near-Infrared Spectroscopy

University of Maryland, College Park (Maryland)

Preceptor: Dr. Amir Gandjbakhche

6-081. Abigail Frankenberg

Infant brain development in Tanzania: A functional EEG analysis

Wesleyan University (Connecticut)

Preceptors: Dr. Amir Gandjbakhche, Dr. Thien Nguyen

6-082. Brandon Fuller

Analyzing Alternative Isoform Usage in Gustatory Receptor Neurons of Drosophila Melanogaster

San Diego State University (California)

Preceptor: Dr. Ryan Dale

6-083. Daniel Gallegos

The silence of the KRABs: A novel epigenetic regulator

University of Texas at Austin (Texas)

Preceptors: Dr. Todd Macfarlan, Dr. Anna Senft

6-084. Richard Garcia

A novel regulatory role for GATOR2 in the Drosophila nutrient stress response

Swarthmore College (Pennsylvania)

Preceptor: Dr. Mary Lilly

6-085. Vedant Garg

Identifying Spatiotemporal Influence on CGE-derived Interneuron Subtype Fate

University of California, San Diego (California)

Preceptor: Dr. Timothy Petros

6-086. Susan Gembic

Neurofilament light chain as a biomarker in Niemann-Pick disease, type C1 animal models

Juniata College (Pennsylvania)

Preceptors: Dr. Forbes Porter, Dr. Cristin Davidson

6-087. Samuel Groysman

Investigating the Roles of Pab1 and Puf RNA-Binding Proteins in mRNA Decay in Saccharomyces cerevisiae

California State University, Los Angeles (California)

Preceptors: Dr. Alan Hinnebusch, Dr. Poonam Poonia

6-088. Justin Gutkowski

Studying Novel Gas-Exchange Endothelial Cells in the Zebrafish Gill

North Carolina State University (North Carolina)

Preceptors: Dr. Jong Park, Dr. Brant Weinstein

6-089. Ava Hogan

Cellular Migratory Dynamics of the zebrafish Posterior Lateral Line primordium

University of Virginia (Virginia)

Preceptors: Dr. Ajay Chitnis, Dr. Abhishek Mukherjee

6-090. Benjamin Hu

Enthalpic/entropic balance of the tethered activating catalytic domain of ArfGAP from molecular simulation

Ohio State University (Ohio)

Preceptor: Dr. Alexander Sodt

6-091. Emma Hunter

How the pathogen Legionella pneumophila exploits the human proto-oncoprotein NRas

Hamilton College (New York)

Preceptors: Dr. Ravi Pal, Dr. Matthias Machner

6-092. [Presenter Withdrawal]

6-093. Rebecca John

The Role of Individual Structural Domains of LEDGF, a Chromatin Factor That Positions HIV-1 Integration

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Henry Levin

6-094. Aarani Kamalanathan

Understanding the Developmental and Mental Health Effects of Pediatric Obstructive Sleep Apnea

Stockton University (New Jersey)

Preceptors: Dr. Amir Gandjbakhche, Dr. Tanya Azar

6-095. Katherine Kennedy

Activation of Lipid Scrambling and Loss of PIP2 in the Inner Leaflet of Plasma Membrane.

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Leonid Chernomordik, Dr. Evgenia Leikina

6-096. Morgan Koppel

Role of Lysosome-Related Vesicles in Motor Neuron Regeneration

Northeastern University (Massachusetts)

Preceptor: Dr. Claire Le Pichon

6-097. Michael Landis

Ddr2 Upregulation Marks an Early Motor Neuron Response in SOD1 ALS

Ursinus College (Pennsylvania)

Preceptors: Dr. Claire Lepichon, Dr. Stefano Antonucci

6-098. Laila Lawson

The Importance of Whole Body MRI in Deep Phenotyping: Defining Clinical and Radiological Features Shared Amongst Lymphatic Anomalies

Howard University (District of Columbia)

Preceptor: Dr. Sarah Sheppard

6-099. Hana Lee

The differential roles of TATA sequence fidelity and sequence specific transcription factors on asymmetric regulation of divergent gene pairs

Case Western Reserve University (Ohio)

Preceptors: Dr. Alan Hinnebusch, Dr. Priyanka Mittal

6-100. Ane Martiartu

Characterizing the Effects of Disrupting Ganglionic Eminence-Specific Chromatin Interactions on Interneuron Development

Yonsei University (South Korea)

Preceptor: Dr. Timothy Petros

6-101. Otit Mayo

Improving Magnesium Translocation Assay via Promoter Variability in Magnesium Auxotrophic E. coli

University of Minnesota, Twin-Cities (Minnesota)

Preceptors: Dr. Doreen Matthies, Dr. Nicholas Clark

6-102. Rachel McCarley

Cholesterol Modulates Annexin A5 Binding to Phosphatidylserine-containing Model Membranes

William & Mary (Virginia)

Preceptor: Dr. Leonid Chernomordik

6-103. [Presenter Withdrawal]

6-104. Melanie Mendonca

Optimizing Oligopaint FISH for Human Ovarian Tissue

Nova Southeastern University (Florida)

Preceptors: Dr. Leah Rosin, Dr. Veronica Gomez-Lobo

6-105. Matthew Monaghan

Using Optogenetics to Investigate the "Error Tolerance" of the BMP Signaling Gradient in Zebrafish

Clemson University (South Carolina)

Preceptors: Dr. Katherine Rogers, Dr. Leanne Iannucci

6-106. Patience Moss

Comparison of Gill and Lung Gas Exchange Tissue In Xenopus Tropicalis

Miami University (Ohio)

Preceptors: Dr. Jong Park, Dr. Brant Weinstein

6-107. Micaela Murphy

Investigating FGF and BMP signaling crosstalk with zebrafish optogenetics

Villanova University (Pennsylvania)

Preceptor: Dr. Katherine Rogers

6-108. Parinita Nautiyal

Resources for Individuals With Lymphatic Anomalies

Case Western Reserve University (Ohio)

Preceptor: Dr. Sarah Sheppard

6-109. Michael Ngaw

Investigating the role of double strand breaks in meiotic chromosome dynamics in the pantry moths

Hamilton College (New York)

Preceptors: Dr. Leah Rosin, Dr. Christa Heryanto

6-110. Dina Ocken

Insights into TDP-43 as a Potential Iron Sulfur Protein and its Implications for ALS

Brandeis University (Massachusetts)

Preceptor: Dr. Claire Lepichon

6-111. Hugo J. Ortiz Garcia

Functional and Structural Characterization of Vibrio cholerae Mechanosensitive Channel MscS

Pontifical Catholic University of Puerto Rico - Ponce (Puerto Rico)

Preceptor: Dr. Doreen Matthies

6-112. Frema Owusu-Ansah

Characterization of a novel CNP fusion protein in the Growth Plate

University of Georgia (Georgia)

Preceptors: Dr. Julian Lui, Dr. Jeffrey Baron

6-113. Addison Parker

Characterizing the function of a novel arterial-specific notch-like receptor in zebrafish vascular development

Texas State University (Texas)

Preceptors: Dr. Brant Weinstein, Dr. Miranda Marvel

6-114. Roshan Pathak

Structure and dynamics of magnesium ion channel CorA from Mycobacterium tuberculosis in native nanodiscs

Johns Hopkins University (Maryland)

Preceptors: Dr. Doreen Matthies, Dr. Madolyn Britt

6-115. [Presenter Withdrawal]

6-116. Jean Prosper Santiago

Meningeal Cerebrovascular Injury in Adult Zebrafish: Longitudinal Live Imaging of Immune-Vasculature Dynamics

Inter American University of Puerto- San German (Puerto Rico)

Preceptors: Dr. Brant Weinstein, Dr. Aurora Kraus

6-117. Lorielle Raab

OVO maximizes the expression of its target genes with the help of unknown cofactors

University of Tampa (Florida)

Preceptors: Dr. Leah Rosin, Dr. Brian Oliver

6-118. Julia Rashid

Jagged-Notch signaling-mediated lateral induction coordinates cohesive migration and deposition of stable neuromasts in the zebrafish Posterior Lateral Line primordium

William & Mary (Virginia)

Preceptors: Dr. Ajay Chitnis, Dr. Sana Fatma

6-119. Mahika Rawat

Maternal Glucocorticoids as Indicators of HPA Axis Dysregulation in Early Preterm Birth

University of Connecticut (Connecticut)

Preceptor: Dr. Bizu Gelaye

6-120. Aidan Remy

Characterization of a Novel CNP Fusion Protein in the Growth Plate

University of Virginia (Virginia)

Preceptors: Dr. Jeffrey Baron, Dr. Julian Lui

6-121. Eswar Saraswathi-Mohan

Characterization of Integrated Stress Response in Patient-Derived Cell Models of CLN3 Disease

University of Miami (Florida)

Preceptor: Dr. An Dang Do

6-122. Ella Segal

Fishing for function: Uncovering the function of intestinal best4+ cells

Case Western Reserve University (Ohio)

Preceptor: Dr. Jeffrey Farrell

6-123. Matt Siroty

County food-related implicit associations are associated with local food environments and health outcomes

College of William and Mary (Virginia)

Preceptor: Dr. Bobby Cheon

6-124. Asma Sodager

Reevaluating the Relationship Between Pulse Wave Amplitude and Mental Math

University of California, Irvine (California)

Preceptors: Dr. Thien Nguyen, Dr. Amir Gandjbakhche

6-125. Alexandra Swisher

Targeting Osteoclast Fusion for Treating Bone Loss Diseases Using La protein Antibodies in Ex Vivo and In vitro Models

Oregon State University (Oregon)

Preceptors: Dr. Leonid Chernomordik, Dr. Evgenia Leikina

6-126. Anita Taft

Parity-Related Differences in Perinatal Eating Behaviors, Home Food Environments, and Weight Outcomes: A Convergent Mixed-Methods Study

Stanford University (California)

Preceptor: Dr. Tonja Nansel

6-127. Priya Thuran

Exploring the Regulation of NRas Acylation by ERF2/ERF4

Northeastern University (Massachusetts)

Preceptor: Dr. Anirban Banerjee

6-128. Satwik Vakada

Structural and Functional Characterization of P-Type ATPase MgtA from a Pathogen

Emory University (Georgia)

Preceptor: Dr. Doreen Matthies

6-129. Jack Waite

Role of enhancer activation in mediating chromatin rewiring during cell-fate determination

Lewis & Clark College (Oregon)

Preceptors: Dr. Joyce Thompson, Dr. Pedro Rocha

6-130. Charli Wingfield

STIL is specifically expressed and required in the Drosophila female germline

University of Tampa (Florida)

Preceptors: Dr. Leah Rosin, Dr. Leif Benner

6-131. Nathan Wohlstadter

Probing α -Synuclein-Lipid Membrane Dynamic Interactions Using a Quartz Crystal Microbalance

Washington University in St. Louis (Missouri)

Preceptors: Dr. Sergey Bezrukov, Dr. Tatiana Rostovtseva

6-132. Mya Wolfe

Estrogen Driven Modulation of the Voltage-Dependent Anion Channel in Mitochondrial Physiology

Wittenberg University (Ohio)

Preceptors: Dr. Sergey Bezrukov, Dr. Tatiana Rostovtseva

6-133. Charles-Anthony Woodfork

Swallowing Function in Niemann-Pick Disease, Type C1 Patients Receiving Arimoclomol (Miplyffa)

North Carolina Agricultural and Technical State University (North Carolina)

Preceptors: Dr. Forbes Porter, Mrs. Beth Solomon

6-134. Briana Young

THAP7 is a transposase derived transcription factor implicated in zebrafish development and human intellectual disability

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Todd Macfarlan, Dr. Rachel Cosby

6-135. Stanley Yuan

ZFP719 Regulates Auditory System Development through Binding to Retrotransposons

University of Massachusetts Amherst (Massachusetts)

Preceptor: Dr. Todd Macfarlan

6-136. Zoe Zwick

New transgenic tools for studying enamel producing cells in zebrafish

University of Wisconsin-Madison (Wisconsin)

Preceptor: Dr. Brant Weinstein

Session 7: 4:00 – 5:00 PM ET

NCI – National Cancer Institute (7-001 – 7-045)

7-001. Julia Haggie

Advancing CAR T Therapy for Glioblastoma Through Nanobody Targeting of the Human Endogenous Retrovirus K (HERV-K) Envelope

University of Missouri-Columbia (Missouri)

Preceptors: Dr. Naomi Taylor, Dr. Laetitia Racine

7-002. Jessica Horner

Elucidating Mechanisms of HER2 Antibody-Drug Conjugate Resistance in Metastatic Prostate Cancer

College of William & Mary (Virginia)

Preceptors: Dr. William Figg, Dr. Cindy Chau

7-003. Ria Hosuru

Evaluating co-accessibility analysis by comparing predicted vs. Physically mapped enhancer-promoter interactions

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Efsun Arda

7-004. Michael Ivanov

The Role of Apoptosis in B Cell Development and Autoimmunity

University of Central Florida (Florida)

Preceptor: Dr. Christian Mayer

7-005. Ana Jaramillo

Patient-derived Atlas of Structural Variants Underlying Castration-Resistant Prostate Cancer

Pomona College (California)

Preceptor: Dr. Adam Sowalsky

7-006. Connor Jewell

Evaluating Mechanisms of Resistance to Thiol-containing Anticancer Drugs Using Targeted Mass Spectrometry

University of Connecticut (Connecticut)

Preceptor: Dr. Lisa Jenkins

7-007. Yeleen Jo

RUNX1 regulates thymic Treg development and its peripheral homeostasis

Yonsei University (South Korea)

Preceptors: Dr. Xuguang Tai, Dr. Alfred Singer

7-008. Melina Joseph

Psychosocial Effects of Warning Label Messages to Describe the Alcohol-Cancer Risk Relationship

Yale University (Connecticut)

Preceptors: Dr. Paul Han, Dr. Irina Iles

7-009. George Karadimov

TR-107, a Novel Mitochondrial ClpP Activator, Exhibits Potent Antitumor Activity in Adrenocortical Carcinoma Models.

Boston College (Massachusetts)

Preceptors: Dr. Suresh Kumar, Dr. Jaydira Del Rivero

7-010. Caroline Kellogg

Antitumor activity of adoptively transferred T cells expressing drug-regulatable, inducible, and membrane-bound interleukin 12 in the B16 melanoma mouse model

University of Chicago (Illinois)

Preceptors: Dr. Sanghyun Kim

7-011. Hans Kim

Mutational Analysis and Stability Study of MYOD1 in Rhabdomyosarcoma

University of Florida (Florida)

Preceptor: Dr. Jack Shern

7-012. Maya Larbi

Investigating why DNMT3A Methylates CA DNA in Neurons

Towson University (Maryland)

Preceptor: Dr. Lisa Boxer

7-013. Alexandra LaTrenta

Discovering genetic dependencies in T-cell lymphoma cell lines through whole-genome CRISPR-Cas9 screens

Duke University (North Carolina)

Preceptors: Dr. Samuel Ng, Dr. Kosuke Toyoda

7-014. Lucia Lavalley

The role of NFX1-type zinc finger-containing protein 1 (ZNF1) in regulation of dsRNA mediated cell death in HLRCC

Georgetown University (District of Columbia)

Preceptors: Dr. Pedro Batista, Dr. Sneha Kulkarni

7-015. Allison Lee

Investigating the correlation between H3K27me3 and CA DNA methylation in neurons

University of California, Berkeley (California)

Preceptor: Dr. Lisa Boxer

7-016. Jason Lin

Investigating the Interaction between the Hsp90 Molecular Chaperone and J-domain Proteins

CUNY Hunter College (New York)

Preceptor: Dr. Sue Wickner

7-017. Alexandra Mora

Allelic Variation in mTOR Modulates Downstream Signaling in Response to DNA Damage

Northeastern University (Massachusetts)

Preceptors: Dr. Beverly Mock, Dr. Shuling Zhang

7-018. Ons Mrad Bouali

The role of intracellular Enterococcus faecalis in hepatocellular carcinoma

Elon University (North Carolina)

Preceptors: Dr. Giorgio Trinchieri, Dr. Maria Clavijo-Salomon

7-019. Seth Niemann

Derivation and Characterization of Murine Cas9+ EpCAM+ Oral Squamous cell Carcinoma Cell Lines: mCas9-OSCC

Earlham College (Indiana)

Preceptor: Dr. Joe Nguyen

7-020. Hasset Nurelegne

Defining cancer risk germline variants in shelterin complex genes - a genome-first analysis

Emory University (Georgia)

Preceptors: Dr. Sharon Savage, Dr. Kelvin De Andrade

7-021. Olivia Pena

3D Needle Tracking Facilitates Training For Ultrasound Guided Interventions

Duke University (North Carolina)

Preceptor: Dr. Peter Pinto

7-022. Andrea Penrose

ABC Transporters Limit PROTACs Activity in Cancer Cells

Northwestern University (Illinois)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

7-023. Saitheja Pucha

Regulation of Oncoprotein Survivin Expression by Cereblon-Binding Immunomodulators in Primary Effusion Lymphoma

Emory University (Georgia)

Preceptors: Dr. Robert Yarchoan, Dr. Prabha Shrestha

7-024. Alfredo Ruiz Rivera

Discovery of Biomarkers and Evaluation of CD276-targeted Therapy in Renal Medullary Carcinoma

California State University San Bernardino (California)

Preceptors: Dr. Andrea Apolo, Dr. Salah Boudjadi

7-025. Jaimie Ryou

Cell death pathways underlying sensitivity to SF3B1 inhibition in bladder cancer cells

University of Michigan (Michigan)

Preceptor: Dr. Rouf Banday

7-026. Chloe Sachs

Decoding MPNST Through Multi-omic Integration: From Chromatin Accessibility to Circulating Tumor DNA

Washington University in Saint Louis (Missouri)

Preceptor: Dr. Jack Shern

7-027. Olivia Sconyers

Control of RssB Activity by Phosphorylation in E. coli and Its Role in RpoS Regulation

Howard University (District of Columbia)

Preceptors: Dr. Susan Gottesman, Dr. Naoual Derdouri

7-028. Emily Shapland

Role of Rab25 in Head and Neck Squamous Cell Carcinoma

Cornell University (New York)

Preceptors: Dr. Weiye Wang, Dr. Roberto Weigert

7-029. Nina Sharma

Lymphoid Tissue Metabolic Activity in People with HIV on Antiretroviral Therapy and Healthy Controls

Loyola University Chicago (Illinois)

Preceptors: Dr. Frank Maldarelli, Dr. Chuen-Yen Lau

7-030. Kate Silver

Targeting CDK4/6 with Palbociclib Reduces Tumor Burden in Murine Osteosarcoma Models

Duke University (North Carolina)

Preceptor: Dr. Amy Leblanc

7-031. [Presenter Withdrawal]

7-032. Sohan Talluri

DLK1 is a Therapeutic Target in Malignant Peripheral Nerve Sheath Tumors

University of California, Los Angeles (California)

Preceptor: Dr. Jack Shern

7-033. Adya Tulsian

Uncovering Genetic Events in Oral Squamous Cell Carcinoma Progression Using Whole Exome Sequencing

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Joe Nguyen

7-034. Labiba Uddin

FAM111A-knockdown restores late gene expression in SV40 large T C-terminus mutants

Harvard University (Massachusetts)

Preceptors: Dr. Yuichi Machida, Dr. Morgan Crewe

7-035. Ecem Unal

Long-Read Single-Cell Profiling of Transcript Diversity and Isoform Switching in Bladder Cancer

University of Maryland (Maryland)

Preceptor: Dr. Rouf Banday

7-036. Elise Van Meter

Identification of a New Drug Combination Targeting KRAS-Dependent Nuclear Protein Export in KRAS-Driven Pancreatic Cancer

University of California, Los Angeles (California)

Preceptors: Dr. Brajendra Tripathi, Dr. Douglas Lowy

7-037. Dana Vargas Solivan

A Patient-Derived Metastasis Model with Spontaneous Neuroendocrine Differentiation

University of Puerto Rico (Puerto Rico)

Preceptor: Dr. Adam Sowalsky

7-038. Alesia Vazquez-Quiroga

Linking Morphology to Advanced Imaging: Intratumoral Spatial Distribution of High-risk Prostate Cancer Patterns

University of Groningen (Netherlands)

Preceptors: Dr. Baris Turkbey, Dr. Stephanie Harmon

7-039. Charan Vemuri

Probing Topoisomerase Activity During Mitotic Chromosome Condensation

University of Virginia (Virginia)

Preceptors: Dr. Chongyi Chen, Dr. Shuai Li

7-040. Minh Quynh Vu

Design and Construction of Knottin Phage Display Library

University of South Carolina - Columbia (South Carolina)

Preceptors: Dr. Hsi-En Tsao, Dr. Mitchell Ho

7-041. Quoc Vu

Characterization of CRISPR-Cas9 Integrated Murine Cell Lines in Immunocompetent Mice Model for Oral Squamous Cell Carcinoma Studies

Appalachian State University (North Carolina)

Preceptor: Dr. Joe Nguyen

7-042. Aiden Weaver

Mapping direct Cdk1 substrates in Saccharomyces cerevisiae

Stanford University (California)

Preceptor: Dr. Mardo Koivomagi

7-043. Posey Whidden

Investigating Synergistic and Antagonistic Antitumor Responses in Clear Cell Renal Cell Carcinoma with the HIF2-alpha Inhibitor, Belzutifan.

Vassar College (New York)

Preceptors: Dr. William Figg, Dr. Cindy Chau

7-044. Naomi Zecharias

Characterizing ABC-Transporter Mediated Transport of BRD4-Targeting Proteolysis Targeting Chimeras (PROTACs)

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey

7-045. Karen Zhai

Development of Long-Term Lineage Tracing Platform for Normal Human Pancreatic Acinar and Duct Cells Ex Vivo

University of California, Davis (California)

Preceptor: Dr. Efsun Arda

NIAID – National Institute of Allergy and Infectious Diseases (7-046 – 7-115)

7-046. Tiffany Kabanuk

Modeling Congenital Thymic Disorders Using Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells

Iowa State University (Iowa)

Preceptor: Dr. Luigi Notarangelo

7-047. Jillian Kaiser

Regulation of CD8+ T and NK cells during Leishmania infection in B6 and BALB/c mice

University of Maryland, College Park (Maryland)

Preceptors: Dr. P'Ng Loke, Dr. Jessica Annis-Bacon

7-048. Hannah Kamphaugh

IgG composition and binding in resolved and chronic chikungunya virus disease

Iowa State University (Iowa)

Preceptor: Dr. Julie Fox

7-049. Sarika Kapadia

Determination of binding specificity of new anti-PfCSP malarial vaccine via multiplex platform

University of Maryland, College Park (Maryland)

Preceptor: Dr. Robert Seder

7-050. Katherine Kearney

Spatial Profiling of Acute SHIV Infection in Non-Human Primate Lymph Nodes

Stanford University (California)

Preceptors: Dr. Richard Koup, Dr. Giulia Fabozzi

7-051. Younggoun Kim

Prognostic markers for chronic granulomatous disease hematopoietic stem cell transplant outcome

University of Maryland, College Park (Maryland)

Preceptors: Dr. Harry Malech, Dr. Elizabeth Kang

7-052. Alexander Klein

Spatial transcriptomic mapping of Leishmania parasite in the sand fly midgut

University of Maryland, College Park (Maryland)

Preceptors: Dr. Tiago Rodrigues Ferreira, Dr. David Sacks

7-053. Zoey Kline

Effector and Regulatory T Cell Fates Balanced by the Transcription Factor Bhlhe40

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Jinfang Zhu

7-054. Nikhila Kumar

Multiplex High-Throughput Neutralization Assay Using Replication-Restricted Reporter H5Nx Influenza Viruses

Pennsylvania State University (Pennsylvania)

Preceptor: Dr. Masaru Kanekiyo

7-055. Ari Levine

Polysorbate 80 impairs esophageal epithelial barrier function: Implications for eosinophilic esophagitis pathogenesis

Colgate University (New York)

Preceptors: Dr. Gregory Constantine, Dr. Amy Klion

7-056. Jackie Li

Anti-Lymphocyte Autoantibodies with Lytic Function Persisting after Antiretroviral Therapy in People with HIV

Columbia University (New York)

Preceptor: Dr. Irini Sereti

7-057. Andrew Lin

Alpha-Ketoglutarate and Taurine Induce Epigenetic Programs Characteristic of Innate Immune Memory

University of California, San Diego (California)

Preceptors: Dr. Iain Fraser, Dr. Sinu John

7-058. Maggie Lin

CD169+ macrophages initiate inflammation in the colon following systemic murine cytomegalovirus (MCMV) administration

University of California, Berkeley (California)

Preceptor: Dr. Brian Kelsall

7-059. Clair Lusk

Environmental surveillance for Guinea Worm disease: The Last Mile

University College Dublin (Ireland)

Preceptors: Dr. Thomas Nutman, Dr. Sasisekhar Bennuru

7-060. Alexandria Lydecker

Modulation of the PI3K γ Signaling Pathway to Preserve T Cell Stemness of Tumor Infiltrating Lymphocytes (TILs) for Adoptive Cell Therapy

University of California, Berkeley (California)

Preceptor: Dr. Robert Seder

7-061. Jaidan Marano

Elucidating the function and structure of Chicken Host Component antibodies

Lafayette College (Pennsylvania)

Preceptors: Dr. Jon Yewdell, Dr. Ivan Kosik

7-062. Mia Marotti

DNA repair and Mycobacterium tuberculosis pathogenesis: A case-based exploration

Northern Arizona University (Arizona)
Preceptors: Dr. Irini Sereti, Dr. Maura Manion

7-063. Elizabeth Morgan
Functional Characterization of NEMO-NDAS Causing Variants in Patients' PBMCs and in U937 Cells
University of Minnesota (Minnesota)
Preceptor: Dr. Raphaela Goldbach-Mansky

7-064. Nia Muhammad
Bacteria Driven HPV Outcomes in Anogenital Cancers
Stanford University (California)
Preceptor: Dr. Jennifer Webster-Cyriaque

7-065. Tete Narh-Mensah
Antibody isotype responses to a novel Plasmodium vivax transmission-blocking vaccine
East Carolina University (North Carolina)
Preceptors: Dr. Patrick Duffy, Dr. Justin Doritchamou

7-066. Abigail Neff
Expression of PfEMP1 domains mediating Plasmodium falciparum adhesion to CD36
Jacksonville University (Florida)
Preceptors: Dr. Michal Fried, Dr. Delesa Mulisa

7-067. Nhi Nguyen
B Cell Response of Healthy Adults Challenged with recombinant respiratory syncytial virus strain A/Maryland/001/11
Duke University (North Carolina)
Preceptors: Dr. Ursula Buchholz, Dr. Cyril Le Nouen

7-068. Ryan Nguyen
Long-Term Serum and Mucosal SARS-CoV-2 Spike Antibody Responses Elicited by Homologous and Heterologous Prime/Boost with mRNA and Mucosal COVID Vaccine Candidates in Macaques
Rutgers University - New Brunswick (New Jersey)
Preceptors: Dr. Ursula Buchholz, Dr. Cyril Le Nouen

7-069. Katherine O'Leary
Interactions of Human Respiratory Syncytial virus matrix protein with host factors
University of Rochester (New York)
Preceptors: Dr. Ursula Buchholz, Dr. Shirin Munir

7-070. Trinity Obiorah
Development of Molecular Diagnostic Tools for Guinea Worm Eradication Program
University of Maryland College Park (Maryland)
Preceptors: Dr. Sasisekhar Bennuru, Dr. Thomas Nutman

7-071. Ethan Ong
Stabilizing Henipavirus Prefusion F Glycoproteins: Insights from HeV PreF Probe Optimization
University of Southern California (California)
Preceptors: Dr. Tongqing Zhou, Dr. Li Ou

7-072. Zach Ormiston
Clinically Novel Mutation in Rare "WHIM-like" Syndrome Causes Severe Congenital Neutropenia in Patient
College of William & Mary (Virginia)
Preceptors: Dr. Jesus Sergio Martin Pontejo, Dr. Philip Murphy

7-073. Shreya Palakurthi

Structural Characterization of an Anti-Idiotypic Antibody against the HIV-1 V3-Glycan Antibody, BG18

Johns Hopkins University (Maryland)

Preceptors: Dr. Tongqing Zhou, Dr. Adam Olia

7-074. Sofia Palau

Induction of oral tolerance to dietary antigens

American University (District of Columbia)

Preceptors: Dr. Claudia Cifuentes Rivera, Dr. Niki Moutsopoulos

7-075. Krish Patel

Targeting multidrug resistance in P. aeruginosa: De novo protein design of inhibitors against MexAB-OprM and MexVW-OprM efflux pumps

University of California, Berkeley (California)

Preceptors: Dr. Daniel Douek, Dr. Vittoria Zucconi Galli Fonseca

7-076. Tessa Pierce

Neutrophil and Platelet Signatures in Food Allergy

California Institute of Technology (California)

Preceptors: Dr. Annika Pfeiffer, Dr. Pamela Frischmeyer-Guerrero

7-077. Cheryl Quartey

Assessment of eosinophilic esophagitis severity using AI and clinical scores

Vanderbilt University (Tennessee)

Preceptors: Dr. Paneez Khoury, Dr. Amy Klion

7-078. Riya Rajani

Severe Viral Susceptibility in CARMIL2 Deficiency Diagnosed in Adulthood: A Case Study

University of California Berkeley (California)

Preceptors: Dr. Andrea Lisco, Dr. Derek Macmath

7-079. Amrita Ramkallawan

Single-Cell Analysis Reveals Strain-Dependent Immune Phenotypes following Rewilding

University of South Florida (Florida)

Preceptors: Dr. Oyebola Oyesola, Dr. P'Ng Loke

7-080. Prerana Rao

Glycan Masking of HIV-1 CD4 Binding Site Immunogen to Elicit Broadly Neutralizing Antibody Responses by Blocking off-target Antibodies

Ohio State University (Ohio)

Preceptor: Dr. Theodore Pierson

7-081. Giselle Rasquinha

Characterization of the Primary Systemic B cell Response in Infants following Immunization with a Live Attenuated RSV Vaccine Candidate

Georgetown University (District of Columbia)

Preceptors: Dr. Ursula Buchholz, Dr. Cyril Le Nouen

7-082. Allison Rattay

Aurora kinase inhibitors induce trained immunity and facilitate the reactivation of latently infected HIV from macrophage and CD4 T lymphocyte reservoirs.

Ohio State University (Ohio)

Preceptors: Dr. Iain Fraser, Dr. Sinu John

7-083. Shreyanshu Ray

Fusion Peptide Priming and Trimer Boosting Strategies for HIV Vaccine Development in Guinea Pigs

Johns Hopkins University (Maryland)

Preceptor: Dr. Theodore Pierson

7-084. Katherine Rees

Diversification of the pregnant vaginal microbiome incorporating bacteria typical from other body sites: implications for maternal and child health

California Polytechnic State University San Luis Obispo (California)

Preceptor: Dr. Suchitra Hourigan

7-085. Anne Roman

Investigating the Impact of Interferon Lambda Variants at the Maternal-Fetal Interface

College of William and Mary (Virginia)

Preceptors: Dr. Irini Sereti, Dr. Elisha Segrist

7-086. Shannon Salo

SCFAs propionate and butyrate exhibit distinct antimicrobial mechanisms against MRSA

York College of Pennsylvania (Pennsylvania)

Preceptors: Dr. Brian Pettygrove, Dr. Michael Otto

7-087. Alexander Sastokas

Phenotypic diversification of Burkholderia vietnamiensis through intra-host evolution in an IL-12R β 21 deficient host

Arizona State University (Arizona)

Preceptors: Dr. Nick Vereecke, Dr. John Dekker

7-088. Arielle Scott

scRNA-Seq Reveals Unexpected Expression of Cancer-Testis Genes in Female Fetal Development

University of Maryland (Maryland)

Preceptors: Dr. Victor Lobanenko, Dr. Elena Pugacheva

7-089. Matthew Sedlock

Immune Profiles Differentiate Mycobacterial Immune Reconstitution Inflammatory Syndrome (IRIS) from Kaposi Sarcoma-associated Herpesvirus (KSHV)-associated Diseases

Pepperdine University (California)

Preceptors: Dr. Irini Sereti, Dr. Joseph Rocco

7-090. Rahul Sehgal

Establishment of a Suicide-Vector Mediated Allelic Exchange System Enables Genetic Manipulation of Bacteroides Fragilis Division II

University of California San Diego (California)

Preceptor: Dr. John Dekker

7-091. George Sellers

Characterizing T Cell Recall Responses in Chronic Trichuris trichiura Infected Patients versus Healthy Controls

University of Maryland (Maryland)

Preceptors: Dr. H. Richard Droghini, Dr. Thomas Nutman

7-092. Adeline Sewack

Relationship between Residual Plasma Viremia (<20 copies/ml) and Intact Viral DNA in People with HIV

Carnegie Mellon University (Pennsylvania)

Preceptor: Dr. Tae-Wook Chun

7-093. Amay Shah

Preferential HIV-1 Reservoir Seeding in HPV16-Specific CD4+ T Cells During Acute and Chronic Infection

University of California, Los Angeles (California)

Preceptor: Dr. Andrea Lisco

7-094. Shruthi Shyam Sunder

Evaluating the Effects of Interferon Lambda-1 as a Norovirus Treatment in NHPs

Northeastern University (Massachusetts)

Preceptor: Dr. Aurelie Ploquin

7-095. Sara Sibrian

ICAM-1 and MIF Mediated Signaling from Trained Myeloid Cells Induces Reactivation of HIV Infected CD4+ T-Cells

Catholic University of America (District of Columbia)

Preceptors: Dr. Iain Fraser, Dr. Sinu John

7-096. Anisha Singhal

Single-cell Analysis of Pediatric Mucosal Immunity in Acute Respiratory Viral Infection

Rutgers University (New Jersey)

Preceptors: Dr. Daniel Douek, Dr. Chaim Schramm

7-097. Juan-Rodrigo Solares

Characterization of Antibodies Elicited by Zika Virus (ZIKV) Vaccine Candidates VRC5283 & VRC5288

The Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Ted Pierson, Ms. Katherine Burgomaster

7-098. Bianca Soto

Induction of HIV-1 Envelope-specific B-cells by VLP-forming mRNA vaccine in rhesus macaques

University of New Mexico (New Mexico)

Preceptors: Dr. Paolo Lusso, Dr. Flavio Matassoli

7-099. Lea Stahr

Development of a ddPCR Multiplex Panel for Neuroinvasive Arboviral Target Detection

American University (District of Columbia)

Preceptors: Dr. Daniel Chertow, Dr. Sofia Romero Ferrufino

7-100. Caledonia Steltzner

Objectifying the Subjective: Enforcing Sensory Exam Reliability through Smartphone Based Linear Modeling.

Trinity College Dublin (Ireland)

Preceptors: Dr. Bibiana Bielekova, Dr. Peter Kosa

7-101. Caroline Sundal

Exploring the role of intestinal macrophages in the uptake of blood-borne viruses

Scripps College (California)

Preceptor: Dr. Brian Kelsall

7-102. Garmani Thein

Optimizing Microbial Viability During Vaginal Maternal-to-Infant Microbiome Transfer

University of Maryland (Maryland)

Preceptor: Dr. Suchitra Hourigan

7-103. Amelia Thompson

Discovery of Protective Monoclonal Antibodies to Oropouche Virus (OROV)

Georgetown University (District of Columbia)

Preceptors: Dr. Theodore Pierson, Ms. Katherine Burgomaster

7-104. Emma Tilley

Characterizing the Human Immune Skin Response to Repeated Larval Ixodes Scapularis Tick Bites

Bard College (New York)

Preceptor: Dr. Adriana Marques

7-105. Christina Tillinghast

Critical role of Helios in the differentiation of T conventional memory cells

Villanova University (Pennsylvania)

Preceptors: Dr. Angela Thornton, Dr. Ethan Shevach

7-106. Ellen Tounkara

HIV Neutralizing Antibodies in the US Military Natural History Study: Cohort Characterization and Antibody Isolation of VRC54.01 and VRC55.01

Williams College (Massachusetts)

Preceptors: Dr. Nicole Doria Rose, Dr. Evan Cale

7-107. Reanne Towler

Structural and functional characterization of anti-HLA monoclonal antibodies that stimulate innate immunity by blocking inhibitory receptor interactions

Mount St. Mary's University (Virginia)

Preceptor: Dr. David Margulies

7-108. Alekhya Vadlakonda

Assessing binding and the structural basis for the selective cleavage of MKK proteins by the anthrax toxin lethal factor protease

Case Western Reserve University (Ohio)

Preceptor: Dr. Stephen Leppla

7-109. Emma Varella

Chimeric Virus-like Particles Including SARS-CoV-2 Spike Do Not Overcome the Poor Immunogenicity of HIV-1 Envelope

Dickinson College (Pennsylvania)

Preceptor: Dr. Mark Connors

7-110. Jessica Vassallo

Identification of optimal HIV-1 envelope trimers for boosting fusion peptide-directed broadly neutralizing antibody responses

Northeastern University (Massachusetts)

Preceptors: Dr. Cheng Cheng, Dr. Theodore Pierson

7-111. Hilary Weisburd

AI-designed mini-proteins as HIV-1 vaccines to elicit anti-V3 glycan responses in guinea pigs

Washington University in St. Louis (Missouri)

Preceptors: Dr. Theodore Pierson, Dr. Cheng Cheng

7-112. Natalie Wong

Type I and Type II Interferon Pathway Activation Distinguishes Lymphocytic Esophagitis from Eosinophilic Esophagitis

Princeton University (New Jersey)

Preceptors: Dr. Gregory Constantine, Dr. Amy Klion

7-113. Talia Zamir

Working Alliance, Patient Empowerment, and Understanding following Genome Sequencing Consent

Georgetown University (District of Columbia)

Preceptor: Mrs. Katie Lewis

7-114. Jonah Zuehls

Characterizing the HIV reservoir with FIND-seq

University of Wisconsin-Green Bay (Wisconsin)

Preceptors: Dr. Eli Boritz, Dr. Pavitra Ramdas

7-115. William Park

Establishing a Workflow for Influenza HA Epitope Mapping by Negative-Staining Electron Microscopy

Brown University (Rhode Island)

Preceptors: Dr. John Gallagher, Dr. Audray Harris

NCI - Frederick – National Cancer Institute (Frederick Campus) (7-116)

7-116. Camila Garcia

EphrinB Signaling Controls Cell Sorting Through DSR-Dependent Regulation of PAPC

University of Maryland (Maryland)

Preceptors: Dr. Ira Daar, Dr. Jaeho Yoon

NINDS – National Institute of Neurological Disorders and Stroke (7-117)

7-117. Elise Kinyanjui

Plasma Biomarkers of Alzheimer's Disease, White Matter Disease, and Dementia Risk: The ARIC Study

St Mary's College of Maryland (Maryland)

Preceptor: Dr. Rebecca Gottesman

NIAMS – National Institute of Arthritis and Musculoskeletal and Skin Diseases (7-118)

7-118. Fiona Shao

Single Cell mRNA Expression of Dll1 and Mycl in Young and Old Regenerating Myogenic Cells

Northwestern University (Illinois)

Preceptor: Dr. Vittorio Sartorelli

NEI – National Eye Institute (7-119)

7-119. Emily Granger

Face preference in early visual cortex is driven by image statistics

University of Mary Washington (Virginia)

Preceptors: Dr. Hendrikje Neinborg, Dr. Elisha Merriam

CC – Clinical Center (7-120)

7-120. Samay Shah

300-Plex Spatial Transcriptomics Analyses of the Complete Set of Non-Opioid Orphan G Protein-Coupled Receptors in Clinically Relevant Human Dorsal Root Ganglion Neurons

University of Maryland (Maryland)

Preceptor: Dr. Andrew Mannes

NICHD – Eunice Kennedy Shriver National Institute of Child Health and Human Development (7-121 – 7-122)

7-121. Jay Bhatia

An Alternative Method for Evaluating Intracellular Cholesterol Accumulation in Niemann–Pick Disease Type C1 Cells

Vanderbilt University (Tennessee)

Preceptors: Dr. Niamh Cawley, Dr. Forbes Porter

7-122. Razeen Akbar

Analysis of Blood Vessel-Follicle Spatial Relationships in Young Human Ovarian Tissue

Temple University (Pennsylvania)

Preceptors: Dr. Veronica Gomez-Lobo, Dr. Christophe Vanpouille

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