Poster Session List Alphabetically by Student

Name	Poster #	Mentor and Topic
Akuma, Daniel	<u>17A</u>	Mentor: Dr. Igor Brodsky Structural and functional determinants of caspase-11 inflammasome assembly in innate immune defense
Bandyopadhyay, Shovik	<u>12A</u>	Mentor: Dr. Kai Tan Single-Cell Transcriptomics and Multiplexed Imaging Resolves the Spatial and Cellular Heterogeneity of the Human Bone Marrow Microenvironment
Boe, Ryan	<u>13A</u>	Mentor: Dr. Arjun Raj Systematic characterization and manipulation of the trade- off between proliferation and invasion in melanoma
Bornstein, Marc	<u>14A</u>	Mentor: Dr. Zoltan Arany <i>Quantifying the Metabolic Response to Acute Cold</i> <i>Exposure in Mice</i>
Ceron, Rachel	<u>19C</u>	Mentors: Drs. Robert Heuckeroth & Roberto Dominguez A solution to the long-standing problem of actin expression and purification
Chaluvadi, Sai	<u>20C</u>	Mentor: Dr. F. Chris Bennett Creating an in vitro macrophage model for globoid cell leukodystrophy to study globoid cell formation and function
Chen, Alex	<u>1A</u>	Mentor: Dr. Adriana Petryna Temporal Tolerance: The Un/Building of COVID-19 Laboratory Testing Infrastructures
Chen, Christina	<u>5A</u>	Mentor: Dr. Russell (Taki) Shinohara LaxKAT: a more powerful method to test for association and localize signal in high-dimensional data
Chen, Saisai	<u>11B</u>	Mentor: Dr. Lewis Chodosh PAQR8 Promotes Breast Cancer Recurrence and Confers Resistance to Multiple Therapies

Chini, Julia	<u>24A</u>	Mentor: Dr. David Hill Hepatic CD9 regulates adipose tissue inflammation and metabolic dysfunction during obesity
Coffey, Nate	<u>12B</u>	Mentors: Drs. Celeste Simon & Zoltan Arany Increasing branched-chain amino acid metabolism reduces growth of clear cell renal cell carcinoma
Cohn, Ian	<u>18A</u>	Mentors: Drs. Christopher Hunter & Boris Striepen Distinct roles for cDC1s and cDC2s in CD4+ T cell responses against the intracellular parasite Cryptosporidium
Connolly, Daniel	<u>21C</u>	Mentor: Dr. Zhaolan (Joe) Zhou Interplay between DNA methylation and Polycomb silencing in mammalian brain development
Cox, Tim	<u>26B</u>	Mentors: Drs. Virginia Lee & Christoph Thaiss The Aged Microbiome Drives Cognitive Decline via Vagal Inhibition
Creekmore, Ben	<u>3A</u>	Mentors: Drs. Edward B. Lee & Yi-Wei Chang Small Molecule Activation of Valosin-containing protein (VCP)
Dai, David	<u>27B</u>	Mentor: Dr. Edward B. Lee Single nucleus transcriptome analysis of human reactive astrocytes
Danan, Charles	<u>8C</u>	Mentor: Dr. Kate Hamilton N6-Methyladenosine (m6A) regulates the response to hypoxic stress in the intestinal epithelium
Deschaine, John	<u>25A</u>	Mentor: Dr. Michael Silverman Are commensal-induced Tregs protective in a gnotobiotic model of type 1 diabetes?
Deshpande, Rajiv	<u>6A</u>	Mentor: Dr. Felix Wehrli Quantification of bilateral renal oxygen consumption: a preliminary study
Dou, Dan	<u>28B</u>	Mentor: Dr. Erika Holzbaur Distinct pathogenic mutations in LRRK2 disrupt axonal transport of autophagosomes

Erlitzki, Noa	<u>4A</u>	Mentor: Dr. Rahul Kohli Controllable epigenome editing in CAR T cells
Espinoza, Diego	<u>21B</u>	Mentor: Dr. Amit Bar-Or Proteogenomic immune signatures delineate the landscape of pediatric acquired demyelinating syndromes
Franklin, Brian	<u>9C</u>	Mentor: Dr. Jennifer E. Phillips-Cremins Structural and functional neural connectome maps in hippocampus development
Gardner, Zach	<u>10C</u>	Mentor: Dr. Rajan Jain Investigating the role of BRD4 in regulating cell-state specific chromatin architecture
Goldspiel, Brian	<u>19A</u>	Mentor: Dr. Will Bailis Unraveling metabolic determinants of innate immune function in Maple Syrup Urine Disease
Green, Jamal	<u>22B</u>	Mentor: Dr. Michael Silverman Do early life commensal microbes prevent type 1 diabetes?
Hollander, Erin	<u>9A</u>	Mentor: Dr. Ben Stanger Loss of the MGAT5 glycosyltransferase sensitizes pancreatic tumor cells to immune clearance
Hu, Feng	<u>20A</u>	Mentor: Dr. Russell T. Shinohara Voxel-wise intermodal coupling analysis of two or more modalities using local covariance decomposition
Hunter, Emerson	<u>16C</u>	Mentor: Dr. Yi Xing ESPRESSO-TEA: A long-read RNA sequencing workflow to study locus-specific expression of transposable elements
Kahn, Ben	<u>10A</u>	Mentor: Dr. Ben Stanger Route-specific immune surveillance in Pancreatic Adenocarcinoma metastasis
Kixmoeller, Katie	<u>1B</u>	Mentor: Dr. Ben Black Plasma Focused Ion Beam (FIB) Milling to Reveal Biological Structures in situ
Kolla, Likhitha	<u>21A</u>	Mentor: Dr. Jinbo Chen <i>Time of clinic appointment and advance care planning</i> <i>discussions in oncology</i>

Komar, Chad	<u>17C</u>	Mentors: Drs. Gerd Blobel & Junwei Shi Domain-Focused, Whole-Genome Screen to Identify Fetal Hemoglobin Regulators in Human Erythroid Cells
Krauss, Kate	<u>18C</u>	Mentor: Dr. Laurence Eisenlohr The role of the Type III Secretion System in presentation of Salmonella enterica epitopes on MHCII
Kuprasertkul, Nina	<u>15A</u>	Mentors: Drs. Brian C. Capell & Kathryn E. Wellen Investigating ferroptosis in epidermal differentiation and tumorigenesis
Lam, Jessica	<u>18B</u>	Mentor: Dr. Gerd Blobel Exploiting cell cycle dynamics to interrogate YY1's role in spatiotemporal chromatin organization
Lee, Casey	<u>26A</u>	Mentor: Drs. Christoph T. Ellebrecht and Aimee S. Payne <i>Fate induction in chimeric antigen receptor T cells through asymmetric cell division</i>
Li, Jessica	<u>16A</u>	Mentor: Dr. Arjun Raj Characterizing non-genetic mechanisms of adaptive resistance in metastatic melanoma
Liebergall, Sophie	<u>28A</u>	Mentor: Dr. Ethan Goldberg Ndnf-IN dysfunction in a mouse model of Dravet Syndrome
Lin, Andrew	<u>3B</u>	Mentor: Dr. David Issadore High-throughput and ultra-sensitive extracellular vesicle isolation via electroformed inverse-opal nanomaterials
Litichevskiy, Lev	<u>19B</u>	Mentors: Drs. Mingyao Li & Christoph Thaiss Interactions between aging, dietary restriction, and the gut microbiome
Liu, Joyce	<u>2B</u>	Mentor: Dr. Kathryn Wellen From CoA to CoQ: Acetyl-CoA Sensing and the Mevalonate Pathway
Lobel, Graham	<u>7B</u>	Mentors: Drs. Malay Haldar & Celeste Simon Glutamine metabolism regulates dendritic cell activity systemically and in the soft tissue sarcoma microenvironment

Lovell, Claudia	<u>13B</u>	Mentor: Dr. Montserrat Anguera Disrupted X chromosome inactivation (XCI) maintenance in B lymphocytes predisposes female mice to lupus-like disease
Lubin, Emily	<u>14B</u>	Mentor: Dr. Elizabeth Bhoj De Novo Mutations in Replication-Independent Histone Genes Elude Diagnosis by Exome/Genome Sequencing
Lucas, Alfredo	<u>4B</u>	Mentor: Dr. Kathryn Davis Resting State fMRI of Bilateral Temporal Lobe Epilepsy
Luo, Audrey	<u>29A</u>	Mentor: Dr. Theodore Satterthwaite Refinement of Functional Connectivity in Development Aligns with the Sensorimotor to Association Axis
Martinez, Dayne	<u>25B</u>	Mentor: Dr. Zhaolan (Joe) Zhou Uncovering seizure etiology in a model of CDKL5 deficiency disorder with single-nucleus transcriptomic profiling
Martins, Kelly	<u>10B</u>	Mentor: Dr. James Wilson Large-scale in vivo Comparison of Recombinant and Wild- Type AAV Integrations in Macaques and Humans
McCright, Sam	<u>27A</u>	Mentor: Dr. David Hill Immunometabolic reprogramming of pulmonary macrophages in obesity
Ng, Raymond	<u>8B</u>	Mentor: Dr. Sydney Shaffer Targeting YAP signaling to overcome MAPK/MEK inhibitor resistance in melanoma
Otter, Clayton	<u>15B</u>	Mentor: Dr. Susan Weiss Infection of primary nasal epithelial cells differentiates SARS-CoV-2, MERS-CoV, and HCoV-NL63
Palanki, Rohan	<u>5B</u>	Mentors: Drs. Michael J. Mitchell & William H. Peranteau Translational ionizable lipid nanoparticle base editing platform for treatment of congenital brain disease

Parchure, Shreya	<u>22C</u>	Mentor: Dr. Casey Halpern Entorhinal Amygdala Alpha Coherence as Biomarker of Anxiety for Closed-loop Deep Brain Stimulation: Results of First-in-human Invasive Electrophysiology
Pather, Sarshan	<u>11A</u>	Mentor: Dr. Ophir Shalem Optical pooled CRISPR screens in human iPSC-derived neurons
Rafizadeh, Diane	<u>15C</u>	Mentor: Dr. David Chenoweth Preparation and Application of Linked and Cyclic Collagen Mimetic Peptides
Serrano, Juan	<u>1C</u>	Mentor: Dr. Rahul M. Kohli Dumbbell Degraders: Structure-guided design of oligonucleotide-based PROTACs targeting the genomic mutator APOBEC3A
Sharma, Prateek	<u>5C</u>	Mentors: Drs. Christoph A. Thaiss & Kathryn E. Wellen Investigating the Role of ACSS2 in Dietary and Metabolic Regulation of Colorectal Cancer and Normal Colon Physiology
Shea, Emily	<u>6C</u>	Mentor: Dr. Lewis Chodosh <i>The Role of PNPLA2 in Breast Cancer Dormancy and</i> <i>Recurrence</i>
Shen, Kaitlyn	<u>11C</u>	Mentor: Dr. Rajan Jain Pathogenic laminopathy mutations target specific lamina- associated regions in cardiac myocytes potentially via altered mechanosensing
Shepley-McTaggart, Ariel	<u>16B</u>	Mentor: Dr. Ronald N. Harty Host Regulation of Ebola Virus Egress and Spread: Role of Cytoskeletal Filamin Proteins
Sieff, Ben	<u>2A</u>	Mentor: Dr. Adriana Petryna Leveraging clinical material: an ethnography of buprenorphine-based treatment in greater Pittsburgh
Skelly, Ashwin	<u>23B</u>	Mentors: Drs. Beatrice Hahn & Amelia Escolano Predictors of Nonseroconversion after SARS-CoV-2 Infection

Soto Albrecht, Yentli	1 <u>7B</u>	Mentor: Dr. Douglas C. Wallace Non-pathogenic variation in mitochondrial DNA modulates murine SARS-CoV-2 pathogenesis
Spychalski, Griffin	<u>8A</u>	Mentor: Dr. David Issadore Extracellular vesicle liquid biopsy to improve breast cancer screening accuracy
Steinbock, R. Teddy	<u>12C</u>	Mentor: Dr. Matthew Weitzman Human Adenovirus infection as a model to study virus- induced, cytoplasmic condensates
Sullivan, Matthew	<u>2C</u>	Mentor: Dr. E. John Wherry Identifying domain-specific features of exhaustion- associated TOX activity in CD8 T cells
Tamburro, Maggie	<u>6B</u>	Mentor: Dr. Louis J Soslowsky Defining Dose-Dependent Impacts of Exercise on Rat Achilles Tendon Fatigue Function
Tapescu, Iulia	<u>3C</u>	Mentor: Dr. Sara Cherry The RNA helicase DDX39A binds to Chikungunya RNA to control viral infection
Teeple, Stephanie	<u>22A</u>	Mentor: Dr. Scott Halpern Racism and EHR data: examining missingness as a potential driver of inequities in predictive performance of a clinical decision support tool
Thomas, Stacy	<u>24B</u>	Mentor: Dr. Gregory L. Beatty Liver macrophage subsets differentially regulate metastasis in pancreatic cancer
Thompson, Beth	<u>7A</u>	Mentor: Dr. Walter Witschey Feasibility of machine learning for cardiovascular function analysis in patients with repaired tetralogy of Fallot
Wei, Monica	<u>13C</u>	Mentor: Dr. Elizabeth Grice Mining the Pig Skin Microbiome for Antimicrobial Products
Xu, Jason	<u>20B</u>	Mentor: Dr. Kai Tan Progenitor Populations in Treatment Resistant T-Lineage ALL

Xu, Karen	<u>4C</u>	Mentors: Drs. Robert L. Mauck & Jason A. Burdick Injectable and Degradable Granular Materials for Meniscus Repair
Yang, Kevin	<u>23A</u>	Mentors: Drs. Yoseph Barash & Peter S. Choi LSV-Seq: A Novel Targeted Sequencing Method to Measure Alternative Splicing Across Human Tissues
Zezulin, Alex	<u>7C</u>	Mentor: Dr. Nancy Speck RUNX1 Attenuates Toll-like Receptor and Type I Interferon Signaling in Neutrophils
Zhang, Jenna	<u>14C</u>	Mentors: Drs. Igor Brodsky & Sunny Shin Yersinia Type III-Secreted Effectors Subvert Caspase-4- dependent Inflammasome Activation in Intestinal Epithelial Cells
Zhang, Kevin	<u>9B</u>	Mentor: Dr. Joshua Dunaief The Impact of Iron on Lysosomal Function in the Retinal Pigment Epithelium