

# 2024 CAMB Symposium Poster List

Odd #s: Session A (9:55-11:05am)

Even #s: Session B (2:00-3:10pm)

Full lists with Abstracts: <https://www.med.upenn.edu/camb/symposium-posters/>

Poster #	Name	Program	Title
1	Morgan Brown	CB	Role of BCAT1 in Tumor Growth and Immunity in Hepatocellular Carcinoma
2	Krista Budinich	CB	RNA enhances the function of oncogenic transcriptional condensates formed by a mutant chromatin reader.
3	Kay Foos	CB	Adapting tumor infiltrating lymphocyte therapy for the treatment of solid tumors in canines
4	Maya Foster	CB	Personalized therapy for the S47 variant of TP53
5	Robert Hapke	CB	Identification of regulators of CAR T persistence in solid tumors
6	Benjamin Kahn	CB	IL-2 restriction by Tregs renders the lymph node intrinsically susceptible to metastatic colonization
7	Ariana Majer	CB	The Role of Menin in Familial Adenomatous Polyposis
8	Josue Medor	CB	Investigating the p53-dependent effects of Cdc-like Kinase Inhibition
9	Renyta Moses	CB	Germline p53 R181 mutants and DNA binding cooperativity in tumorigenesis
10	Raymond Ng	CB	The role of tumor transcriptional variability in evading acute CD8+ T cell exposure in melanoma
11	Carson Poltorack	CB	Neutrophil extracellular trap (NET) formation is enhanced by tumor interstitial fluid in human PDAC
12	Geoffrey Rouin	CB	Defining Epigenetic Mechanisms of Human CAR T Cell Exhaustion and Reversal
13	Melissa Rowe	CB	Tumor development in mice with hereditary human-length telomeres
14	Kelsey Salcido	CB	Quantitative atlas of short chain fatty acids and microbiome-associated metabolites
15	Alexis Scott	CB	Defining the role of retinoic acid in the development and function of tumor-associated macrophages in hepatocellular carcinoma
16	Prateek Sharma	CB	Investigating the Role of Diet and Host Genetics on Colorectal Cancer Metabolism and Physiology
17	Jane Xie	CB	Tissue-of-origin determines immune cell heterogeneity and response to therapy via unique tumor cell-intrinsic factors
18	Miosotis Alicea-Delgado	CPM	Disrupted TBCK-JIP4 Interaction and Its Impact on Lysosomal Positioning in Neurons
19	Carmen Flesher	CPM	Understanding the mechanochemical environment of adipose tissue in obesity pathogenesis
20	Kay Katada	CPM	Intestinal epithelial crypt cells with high autophagy may utilize YAP-signaling to divide after injury
21	Natalie Moore	CPM	The effects of fibroadipogenic progenitor cells and intramuscular adipose tissue on skeletal muscle health and regeneration
22	Stacey Slavutsky	CPM	Pathogenic mechanisms of SPTBN1 syndrome in human cortical neurons

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23	Erin Smith	CPM	Cell-Type-Specific Differences in Lysosomal Repair in Astrocytes versus Neurons
24	Megan Stefkovich	CPM	Investigating PFK2 as a mediator of insulin's acute control of hepatic glucose metabolism
25	Haohan Wei	CPM	A vagal sensory-to-sympathetic axis restrains anti-tumor immunity
26	Daniel Baker	DSRB	Developing senolytic CAR T cells for chronic disease
27	Samantha Fallacaro	DSRB	Gene-specific hub kinetics regulate transcription factor occupancy
28	Sarah Gagnon	DSRB	Toll-7 acts with Fra/DCC to promote commissural axon guidance across the midline
29	Segovia Atencio-Garcia	DSRB	Uncovering Novel Regulators of PRC2 Establishment
30	Chujie Gong	DSRB	
31	Megan Guerin	DSRB	
32	Gabriela Hayward-Lara	DSRB	
33	Nicolas Holcomb	DSRB	Ectopic Airway Cells Induce an IL1 $\alpha$ -dependent Inflammatory Phenotype in Fibroblasts
34	Allison Marvin	DSRB	Investigating roles for Kif2c in transforming the microtubule cytoskeleton at the oocyte-to-embryo transition
35	Christopher McAllister	DSRB	Structural and Biochemical Effects of MyBP-C Missense Variants on the Myofilament in Human Hypertrophic Cardiomyopathy
36	Elizabeth Mercado Ayon	DSRB	Frataxin Deficiency Disrupts GluR2 Expression in Cerebellar Purkinje Cells
37	Kayla Purdy	DSRB	Foxo facilitates axon regeneration in the PNS independent of aging
38	Emmanuel Rapp Reyes	DSRB	Thrombin-Cleaved Osteopontin Induces an Inflammatory Phenotype on Macrophages to Promote Skin Fibrosis
39	Abigail Ridler	DSRB	Investigating molecular mechanisms of GATA6 and retinoic acid signaling synergy in human endocrine pancreas development.
40	Bakary Samasa	DSRB	Investigating the role of cytoskeletal dynamics during epiboly morphogenesis in the zebrafish
41	Reiko Tomizawa	DSRB	The role of En1 in the evolution of human fur loss
42	Nikita Vantsev	DSRB	PITP $\beta$ Loss Ameliorates Jak2 V617F-induced Myeloproliferative Neoplasms (MPN) in Mice
43	Thomas Williamson	DSRB	Using chimeric antigen receptor (CAR) regulatory T cells to treat acute cardiac injury
44	Joseph Yano	DSRB	Identification of Photoreceptor Precursor Cells for Subretinal Transplantation in a Mouse Model of Leber Congenital Amaurosis

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45	Daniel Yen	DSRB	Runx1 Regulates the Inflammatory Potential of Granulocyte-Monocyte Progenitors in RUNX1 Familial Platelet Disorder
46	Dale Brokaw	G&E	
47	Timothy Cater	G&E	mRNA-Specific Translational Regulation in Response to Depletion of the RBP CELF2
48	Kelly Clark	G&E	H3.3-associated neurodevelopmental disorder Bryant-Li-Bhoj Syndrome has a distinct DNA methylation signature in dermal fibroblasts
49	Nicole DeBruyne	G&E	Evaluation of Nanopore Adaptive Sampling for cDNA Sequencing
50	Atharva Ankush Dhamale	G&E	Studying Interaction between Nuclear and Cytoplasmic Biomolecular Condensates
51	Ethan Fein	G&E	Role of Sympathetic Innervation in the Development of Brown Adipose Tissue
52	Brian Franklin	G&E	Building molecular technologies for neuron projection mapping
53	Zachary Gardner	G&E	
54	Paul Kaminski	G&E	Polycomb group proteins control globin switching during erythropoiesis
55	Nora Kiledjian	G&E	Effects of m6A on mRNA During Adaptive Stress
56	Austin King	G&E	NPM1c Cytoplasmic Function and Synthetic Lethality Targets
57	Elizabeth Kraeutler	G&E	Discovering an RNA-binding network important for chromosome positioning through a genome-wide imaging screen
58	Keegan Krick	G&E	The catalytic activity of H3K36me3 methyltransferase SETD2 influences activity-dependent alternative splicing in primary neurons
59	Nina Kuprasertkul	G&E	Lsd1 inhibition mediates retinoid-immune crosstalk to maintain skin homeostasis and suppress oncogenesis
60	Alexis Leach	G&E	Cataloging Functional Sperm RNAs Across the Mammalian Lineage
61	Claire Makowski	G&E	Improving differentiation and in vivo function of reprogrammed hepatic cells
62	Rushabh Mehta	G&E	Multimodal single-cell profiling of minimal residual disease in B acute lymphoblastic leukemia reveals genetic and non-genetic factors of early drug resistance
63	Jesse Pace	G&E	Hemodynamics and KLF2/4 regulate myxomatous valve formation
64	Tania Perez	G&E	Investigating how DISC1 regulates mitochondrial trafficking
65	Kenneth Pham	G&E	Critical assessment of CGG short tandem repeat length, DNA methylation, heterochromatin, and transcriptional repression of neural, synaptic genes in fragile X syndrome
66	Lauren Reich	G&E	Characterizing the dynamics of Polycomb memory to repress target genes

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67	Kiara Rodríguez	G&E	Transcriptional programs and chromatin states differ by sex and estrous cycle in mice
68	Alexandra Schneider	G&E	Determining the Regulatory Functions of a Sperm miRNA Cluster Using mESCs
69	May Wai	G&E	Genome-wide Oligopaint screen identifies regulators of cohesin activity and chromatin organization
70	Chaoting Zhou	G&E	Impact of Inflammation on Intestinal Epithelial Stem Cells in J-pouch Organoids
71	Jose Arias-Umana	GTV	Defining the role of TCF1 in CAR T cell memory and persistence
72	Gabriel Birchak	GTV	Extending the reach of single-copy HACs with protein-only epigenetic centromere seeding
73	Dominique Brooks	GTV	In vivo correction of human phenylketonuria variants via prime editing and base editing: A gateway to equitable treatment of inborn errors of metabolism.
74	Erica Brown	GTV	Fatty acids in ovarian cancer ascites contribute to impaired T cell function independent of CD36
75	Nicholas Cerda	GTV	Development of a Virus-like Particle mRNA Vaccine against Respiratory Syncytial Virus
76	Emily Daley	GTV	Tailoring the adjuvanticity of lipid nanoparticles by PEG lipid ratio and phospholipid modifications
77	Mara Davis	GTV	Amyloid-beta targeting CAR-macrophages demonstrate improved amyloid uptake and impaired survival fitness when exposed to amyloid-beta
78	Jillian(Jill) Eisenhower	GTV	Synthetic DNA delivery of a complement enhanced monoclonal antibody improves potency and protection against pneumococcal infection
79	Blake Jardin	GTV	
80	Aradhana Kasimsetty	GTV	Topoisomerase poisons alter AAV transduction and integration targeting
81	Michael Kuckyr	GTV	Introduction of Premature Stop Codons Within The ATXN2 Repeat Induces Therapeutically Relevant Changes in Expression
82	JuliaHan Noll	GTV	Deciphering the impact of immunological aging in CLL CAR T cell therapy
83	Aidan Quigley	GTV	Base Editing Strategies for the Correction of PKU Variants
84	Melody Tan	GTV	SMARCA2/4 inhibition enhances CAR T cell manufacturing
85	Lauren Testa	GTV	A therapeutic adenine base editing strategy to treat pseudoxanthoma elasticum
86	Robin Wilder	GTV	AAV-mediated gene therapy improves cell viability in a patient-derived induced pluripotent stem cell model of gyrate atrophy
87	Adam Ziada	GTV	Orthogonal IL-21 signaling enhances CAR T cell function in vivo.
88	Amber Abbott	MVP	Adenoviral manipulation of arginine methylation alters cellular RNA-protein interactions

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89	Reyes Acosta	MVP	Generation of HIV-resistant CD4-based CAR T cells for enhanced immunotherapies
90	Jorge Acuña	MVP	Antivirals Targeting SARS-CoV-2 Entry
91	Sara Alexander	MVP	The Phosphorelay PTSNtr Modulates E. coli Survival in Methylglyoxal
92	Emily Aunins	MVP	An IL-12 mRNA-LNP adjuvant enhances mRNA vaccine induced CD8+ T cell responses
93	Carl Bannerman	MVP	Antiviral Role of Interferon Epsilon in Human Neurons
94	Ariana Campbell	MVP	Postpartum mice show enhanced resilience during influenza A virus infection
95	Priyanka Chatterjee	MVP	Involvement of ArII, ArIJ, and CirA in archaeal type IV pilin-mediated motility regulation
96	Abigail Daniels	MVP	A female-specific RNA binding protein is essential for Cryptosporidium lifecycle completion
97	Mark Dittmar	MVP	High-throughput screening identifies the small molecule PIV3-001 as a potent antiviral against the paramyxovirus human parainfluenza virus 3
98	Sarah Dysinger	MVP	A non-pathogenic strain of Jamestown Canyon virus shows diminished affinity for neurons consistent with observations of clinical disease in mice
99	Rachel Erickson	MVP	Optimizing a VSV vectored vaccine for Machupo virus
100	Julia Flores	MVP	Understanding the role of microbial localization in induction of homeostatic immune responses in the pediatric gut
101	Katharine Hewlett	MVP	Enterococcus-mediated remodeling of the nutritional landscape during Clostridioides difficile infection
102	Michael Hogarty	MVP	Vaccination with a Germline-Targeting Immunogen Recapitulates Germinal Center Response to SHIV Infection
103	Orlaith Keenan	MVP	Enterococci modulate intestinal epithelium mediated during Clostridioides difficile infection
104	Daniel Kim	MVP	Host-Mediated Bacterial Interference by 502A to Prevent MRSA
105	Grace Li	MVP	Contemporary H1N1 viruses have recently acquired an HA substitution that abrogates binding of H1/H3 cross-subtype antibodies primed decades earlier by childhood H3N2 exposures
106	Kevin Mears	MVP	Targeted activation of IL-22 limits intestinal damage and systemic disease following Clostridioides difficile infection
107	Kaeri Martinez Medina	MVP	siRNA Screening for Host Factors that Restrict Bunyavirus mRNA Translation
108	Madeline Merlino	MVP	Interleukin 27 (IL-27) is an antiviral cytokine at the maternal-fetal interface
109	Taylor Miller-Ensminger	MVP	Impact of Paternal Immune Activation Early Embryonic Development and Offspring Resistance To Viral Infection
110	Kelsey O'Brien	MVP	Establishing the biological role of a prodrug-activating serine-hydrolase in Staphylococcus aureus

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111	Emily O'Rourke	MVP	Inflammasomes primarily restrict cytosolic Salmonella replication within human macrophages
112	Jamie Pan	MVP	Microbiota-mediated dermal matrisome primes fibroblasts for injury response
113	Taylor Senay	MVP	Host-Virus Harmony: How the MCPyV Protein ALTO Fine-Tunes Innate Immunity
114	Jaydeen Sewell	MVP	Coxiella burnetii effector CBU1314 suppresses NF- $\kappa$ B signaling and interacts with the Human PAF1 complex
115	Qianxuan She	MVP	Phylogenomic analysis of colonizing and invasive Staphylococcus aureus in a neonatal intensive care unit reveals high levels of transmission of invasive strains
117	Helen Stillwell	MVP	Clade C MERS Coronaviruses Differentially Modulate Virus-Host Interactions Compared to Wild-Type Virus in Airway Epithelial Cultures
118	Linlin Yang	MVP	Mapping MHCII Processing and Presentation with TCR-like Antibodies Targeting Pathogen-Derived Epitopes
119	Taylor Yount	MVP	The Kingella kingae Minor Pilins Play Major Roles in Type IV Pili-mediated Processes
120	Maxime Zamba-Campero	MVP	Elucidating the role of histidine in Salmonella pathogenicity
121	Stephen Carro	MVP	The ectromelia virulence factor C15 is a potent inhibitor of MHC-mediated T cell activation.