

UC Irvine Chao Family Comprehensive Cancer Center

Reporting Date: 02/28/2025

Data Table 2A – Active Funded Projects

Peer-Reviewed Research

PI	Specific Funding Source	Project Number	Project Start Date	Project End Date	Project Title	Annual Project Direct Costs	Cancer- Relevant Annual Project DC	Program Code	Program Percent	Annual Program Direct Costs
Acharya M Mahan K (University of Texas Hlth Sci Ctr Houston)	NIH-NCI University of Texas Hlth Sci Ctr Houston	1R21CA292148-01	7/11/2024	6/30/2026	Circadian regulation of astrocytic adenosine kinase in the irradiated and cancer brain	\$112,250	\$112,250	BIDD	100	\$112,250
Anton-Culver H	NIH-OD	1OT2OD036428-01	5/1/2024	4/30/2025	All of Us Southern California Consortium (AoUSCC): Engagement, Enrollment, and Retention of Diverse Populations (Assist app# 1476115)	\$2,561,112	\$2,561,112	CC	100	\$2,561,112
Balu M Kelly K	NIH-NCI	5R01CA259019-03	9/1/2022	8/31/2027	Fast, large area, multiphoton exoscope (FLAME) for improving early detection of melanoma	\$422,551	\$422,551	BIDD	100	\$422,551
Blumberg B Shioda T (Mass General Hospital)	NIH-NIEHS	5R01ES031139-05	9/16/2020	6/30/2026	Interactions between prenatal obesogen exposure and Total Western diet lead to a transgenerational thrifty phenotype: functional and epigenomic analysis of effects in fat and liver	\$174,390	\$130,793	SPT	100	\$130,793
Bota D Das B (LIU: Brooklyn)	NIH-NINDS	5R01NS109423-05	9/1/2020	5/31/2025	Targeting of Mitochondrial LON Protease as a Novel Therapy for Glioblastoma	\$158,054	\$158,054	BIDD	100	\$158,054
Buisson R Lawrence M (Mass General)	NIH-NCI	5R37CA252081-04	7/1/2021	6/30/2026	Molecular Mechanisms of APOBEC-Induced Mutagenesis in Cancer	\$193,287	\$193,287	SPT	100	\$193,287
Chan A Acharya M	NIH-NCI	5R01CA276212-02	9/6/2023	8/31/2028	Neurotrophic strategy to mitigate chemotherapy-related brain injury	\$303,803	\$303,803	CC	50	\$151,902
								BIDD	50	\$151,902
Chen Z Wong B	NIH-NIBIB	5R01EB030024-05	7/1/2020	3/31/2025	In vivo Imaging and Quantification of Cilia Beating Dynamics Using Phase Resolved Optical Imaging Technology	\$372,627	\$186,314	BIDD	100	\$186,314
Cozen W Bertrand K (Boston University) Cai Q (Vanderbilt) Espeldegui M (UCLA) Haiman C (USC) Pinkal D (Cornell) Reiner A (Fred Hutchinson)	NIH-NCI	5R01CA260615-04	9/20/2021	8/31/2026	Determinants of the racial/ethnic disparity in MGUS risk: An epidemiologic study in 4 cohorts	\$125,024	\$125,024	CC	100	\$125,024
Dayyani F Carvajal-Carmona L (UC Davis)	NIH-NCI UC Davis	5U54CA283766-02	8/1/2024	7/31/2028	University of California Minority Patient-Derived Xenograft (PDX) Development and Trial Center (UCaMP) to Reduce Cancer Health Disparities	\$27,862	\$27,862	SPT	100	\$27,862
Demetriou M Zhou R (Glyt Therapeutics)	NIH-NCI Glyt Therapeutics	5R42CA285234-02	9/21/2023	8/31/2026	Extended half-life GlyTR1 combined with checkpoint blockade for Cancer Immunotherapy	\$490,561	\$490,561	BIDD	100	\$490,561
Downing T Spakowitz A (Stanford)	NSF	EF-2022182-05	7/15/2020	6/30/2025	URoL: Epigenetics 2: Connecting cell fate and epigenome drift through physical models of chromatin structure and dynamics	\$240,192	\$180,144	BIDD	100	\$180,144
Fowler C Ganesh T (Northeastern)	NIH-NIDA Northeastern	1R01DA059985-01	8/1/2024	5/31/2029	Selective Positive Allosteric Modulators of a4b2 Nicotinic Receptors	\$35,617	\$17,809	CC	100	\$17,809
Fowler C Gay E (RTI International)	NIH-NIDA RTI International	5R01DA058493-02	9/30/2023	7/31/2028	Discovery and development of GPR3 agonists for nicotine cessation	\$68,237	\$51,178	CC	100	\$51,178
Goodman-Gruen D Esserman L (UCSF)	NIH-NCI UCSF	1P01CA281826-01A1	9/11/2024	8/31/2029	WISDOM:A platform to optimize subtype-specific screening and prevention	\$53,119	\$53,119	CC	100	\$53,119
Huang L Wiita A (UCSF)	NIH-NCI UCSF	1R01CA290875-01	8/1/2024	7/31/2029	Structural surfaceomics to probe conformation-selective immunotherapy targets	\$99,772	\$99,772	BIDD	100	\$99,772

Huang L Zhang H (Johns Hopkins University)	NIH-NCI Johns Hopkins University	5U24CA271079-03	6/1/2022	5/31/2025	Proteogenomic Characterization of Tumor Tissues and Preclinical Models with High Precision	\$93,000	\$93,000	BIDD	100	\$93,000
Hughes C Senthil M	NIH-NCI	1R01CA290115-01	6/1/2024	5/31/2029	A vascularized microphysiological system (MPS) platform for modeling peritoneal carcinomatosis	\$332,000	\$332,000	BIDD	100	\$332,000
Hughes C Thompson L	NIH-NHLBI	5R61HL154307-05	9/3/2020	8/31/2025	A Vascularized Micro-Organ platform for the study of Brain-BBB-Blood interaction	\$397,303	\$198,652	BIDD	100	\$198,652
Jang C Guertin D (Univ of Mass)	NIH-NIDDK Univ of Mass	5R01DK127175-04	8/4/2021	5/31/2026	Quantitative and functional analysis of brown fat nutrient fluxes in vivo and its role in organ metabolite exchange	\$93,937	\$70,453	SPT	100	\$70,453
Jang C Seldin M	NIH-NIAAA	5R21AA030358-02	9/12/2023	8/31/2025	Elucidating alcohol-induced metabolic remodeling of critical organs	\$262,500	\$196,875	SPT	100	\$196,875
Jin R Shoemaker C (Tufts University)	NIH-NIAID Tufts University	5R01AI173059-02	8/4/2023	7/31/2027	A versatile structure-based therapeutic platform for development of VHH-based antitoxin and antiviral agents	\$98,881	\$49,441	BIDD	100	\$49,441
Kaiser P Rychnovsky S	NIH-NCI	5R01CA283462-02	7/10/2023	6/30/2028	Mechanisms of mutant p53 reactivation	\$348,047	\$348,047	SPT	50	\$174,024
								BIDD	50	\$174,024
Kessenbrock K Chan K (Method Hospital Research Institute)	NIH-NCI Method Hospital Research Institute	3U54CA274375-03S1	9/1/2024	8/31/2025	A single-cell spatial map characterizing the stromal TME in bladder and breast early-lesions	\$50,000	\$50,000	SPT	100	\$50,000
Komarova N Wodarz D	NSF	MCB-2141651-03	5/1/2022	4/30/2025	Collaborative Research: MODULUS: Copy Number Alterations and Xenobiotic adaptation	\$95,773	\$71,830	SPT	100	\$71,830
Lee A Agrawal A	NIH-NCI	5R33CA267258-03	9/2/2022	8/31/2025	Microfluidic Precision Engineered Artificial Antigen Presenting Cells for Cancer Immunotherapy	\$134,058	\$134,058	BIDD	100	\$134,058
Lee S	NIH-NIMHD	5R01MD012778-06 (NCE)	9/26/2017	12/31/2025	Culturally Adapted Multilevel Decision Support Navigation Trial To Reduce Colorectal Cancer Disparity Among At-Risk Asian American Primary Care Patients	\$103,394	\$103,394	CC	100	\$103,394
Lee S Gomez S (UC San Francisco)	NIH-NCI UC San Francisco	1U01CA290831-01	7/8/2024	6/30/2029	A national Asian American cohort for assessing multi-level determinants in cancer etiology: the ASPIRE Cohort	\$116,430	\$116,430	CC	100	\$116,430
Lee S Kawachi I (Harvard University) Redline S (Brigham & Women's Hospital)	NIH-NIMHD	5R01MD015186-05	4/8/2021	1/31/2026	Sleep and health disparities among Asian Americans: role of stressors and protective factors	\$291,427	\$145,714	CC	100	\$145,714
Li W	NIH-NCI	5R01CA228140-04 (NCE)	2/1/2010	1/31/2026	DNA Methylation Canyons in Human Cancers: Methods, Target Genes and Functional Consequences	\$50,435	\$50,435	SPT	100	\$50,435
Li W Wang Q (Duke)	NIH-NCI Duke	1R01CA290720-01	5/1/2024	4/30/2029	Elucidating alternative polyadenylation regulation during prostate cancer progression to castration-resistance	\$110,344	\$110,344	SPT	100	\$110,344
Limoli C	NIH-NCI	5R01CA254892-04	7/1/2021	6/30/2026	Improving pediatric brain tumor treatments using FLASH radiotherapy	\$130,516	\$130,516	SPT	100	\$130,516
Liu C Kruse/Marks A (Harvard Medical School)	NIH-NCI	5R01CA260415-05	9/10/2020	8/31/2025	Making antibody generation rapid, scalable, and democratic through machine learning and continuous evolution	\$371,407	\$371,407	BIDD	100	\$371,407
Marsden M zhen A (UCLA)	NIH-NIAID UCLA	5R01AI172727-03	6/25/2022	5/31/2027	Induction of autophagy to enhance CAR T cells in HIV cure approaches	\$191,368	\$95,684	SPT	100	\$95,684
Masri S Waterman M	NIH-NCI	5R01CA259370-04	1/1/2022	12/31/2026	Circadian Clock and Myc-dependent Regulation of Cellular Transformation	\$332,730	\$332,730	SPT	100	\$332,730
Milam J	NIH-NCI	5R01CA237230-05 (NCE)	1/1/2021	12/31/2025	Project Milestones: Young Adult Cancer Survivorship	\$196,996	\$196,996	CC	100	\$196,996
Milam J Miller K (USC)	NIH-NCI USC	5R01CA261888-04	9/6/2021	8/31/2026	Individual, cultural, and area-based factors associated with survivorship care among Asian/Asian-American childhood cancer survivors.	\$173,363	\$173,363	CC	100	\$173,363
Milner T Feldman M (UTHSC SA)	NIH-NHLBI	5R01HL163582-03	5/1/2022	4/30/2026	Transvenous Optoacoustic-Ultrasound Guided Cold Laser Wire for Crossing Coronary Chronic Total Occlusion	\$183,516	\$91,758	BIDD	100	\$91,758
Nie Q	NIH-NIGMS	1R01GM152494-01	9/20/2024	6/30/2028	Development of new tools for analyzing cell-cell communication using spatial transcriptomic data	\$260,000	\$195,000	SPT	100	\$195,000

Nie Q Dai X Lander A Lowengrub J	NSF	DMS1763272-05 (NCE)	7/1/2018	6/30/2025	NSF-Simons Center for Multiscale Cell Fate Research	\$1,333,885	\$1,000,414	SPT	100	\$1,000,414
Nyamathi A	NIH-NCI	5R01CA285063-02	8/1/2023	7/31/2028	Secondary Cervical Cancer Prevention of Vulnerable Women with HPV and HIV Co-infection in India	\$476,005	\$476,005	CC	100	\$476,005
Pannunzio N Frock R (Stanford University)	NIH-NCI	5R37CA266042-04	2/14/2022	1/31/2027	Defining the Mechanism of Genome Rearrangements in Ph-Like ALL to Determine Predictive Markers in High-Risk Hispanic Populations	\$247,494	\$247,494	SPT	100	\$247,494
Plikus M Scumpia P (UCLA)	NIH-NIAMS UCLA	5R01AR079470-04	9/1/2021	8/31/2025	Leveraging immune-fibroblast interactions for biomaterial induced skin regeneration	\$140,530	\$70,265	SPT	100	\$70,265
Prescher J Shaner N (UC San Diego)	NIH-NCI UC San Diego	5R01CA279813-02	1/1/2024	12/31/2028	New tools for quantitative non-invasive recording of biochemical signals	\$104,180	\$104,180	BIDD	100	\$104,180
Qu P	NIH-NCI	1R01CA297869-01	7/1/2024	6/30/2028	SCH: Individualized learning and prediction for heterogeneous multimodal data from wearable devices	\$198,693	\$198,693	CC	100	\$198,693
Sadigh G	NIH-NCI	5R01CA262312-03	8/10/2022	7/31/2027	Improving medication adherence using a CONnected CUsomized Treatment Platform (CONCURxP)	\$283,372	\$283,372	CC	100	\$283,372
Schilling T Nie Q	NIH-NIDCR	5R01DE030565-04	4/1/2021	3/31/2026	Dissecting single cell dynamics that coordinate neural crest migration and diversification	\$344,831	\$172,416	SPT	100	\$172,416
Shi Y Sciammas R (UC Davis)	NIH-NIAID	5R01AI170840-03	5/26/2022	4/30/2027	mRNA alternative polyadenylation in B cell development	\$398,992	\$199,496	SPT	100	\$199,496
Shi Y Seelig G (Univ Washington)	NIH-NCI	1R01CA297834-01	2/1/2025	1/31/2030	Decode polyadenylation in health and disease	\$207,336	\$207,336	SPT	100	\$207,336
Suetterlin C Tan M	NIH-NIAID	5R01AI153410-05	7/17/2020	6/30/2025	Primary cilia loss and cell cycle re-entry in Chlamydia-infected cells	\$338,207	\$169,104	SPT	100	\$169,104
Tanjasiri S Brown A (UCLA)	NIH-NIMHD UCLA	5P50MD017366-04	9/24/2021	6/30/2026	UCLA-UCI Center for Eliminating Cardio-Metabolic Disparities in Multi-Ethnic Populations (UC END-DISPARITIES) - Community Engagement Core	\$135,989	\$67,995	ZY	100	\$67,995
Tian L Kaur B (Augusta University)	NIH-NINDS Augusta University	1R61NS128191-01A1	9/9/2024	6/30/2026	Development of murine glioblastoma model for oncolytic HSV therapy	\$14,441	\$14,441	SPT	100	\$14,441
Tobias D Ladokhin A (Univ Kansas MC)	NIH-NIGMS Univ Kansas MC	5R01GM145991-02	9/1/2023	7/31/2027	Elucidating the Molecular Mechanisms of Conformational Switching during Protein Insertion into Membranes	\$51,436	\$51,436	BIDD	100	\$51,436
Vieira V Metayer C (UC Berkeley)	NIH-NIEHS UC Berkeley	5R01ES032196-03 (NCE)	9/3/2021	8/31/2025	Exposure to per- and polyfluoroalkyl substances (PFAS) and risk of cancer in children	\$65,564	\$65,564	CC	100	\$65,564
Villalona Calero M Yu J	NIH-NCI	5R01CA266457-04	8/16/2022	11/30/2027	Phase 1 Evaluation of Enhanced Natural Killer Cells as a Treatment Strategy in Non-Small cell Lung Cancer Patients Refractory to PD-1/PD-L1 Immune Checkpoint Inhibitors	\$337,061	\$337,061	SPT	100	\$337,061
Xiang L Chen Y (Univ of OK) Ren L (Univ of MD)	NIH-NCI	1U01CA288351-01	8/12/2024	7/31/2029	3D In vivo dosimetry for FLASH proton therapy	\$171,039	\$171,039	BIDD	100	\$171,039
Yu J Finley S (USC)	NIH-NCI USC	5U01CA275808-03	12/1/2024	8/31/2027	Modeling based design of chimeric antigen receptors for Natural Killer cell-based immunotherapy	\$72,702	\$72,702	SPT	100	\$72,702
Zhang Z Yaghmai V	NIH-NCI	5R01CA241532-05	3/15/2020	2/28/2026	Image-Guided Interventional Combination Liver Cancer Immunotherapy	\$230,459	\$230,459	BIDD	100	\$230,459
Zhao W Gratton E	NIH-NIGMS	5R01GM147741-03	9/22/2022	8/31/2026	Spatial proteomics using highly parallel fluorescence hyperspectral and lifetime imaging	\$438,300	\$219,150	BIDD	100	\$219,150
Zi X Agrawal A Lilly M (Medical University of South Carolina)	NIH-NCI	5R01CA260351-04	12/9/2021	11/30/2026	Ethnicity-determined T cell responses and GARP/TGFbeta1 signaling in prostate cancer	\$182,063	\$182,063	CC	100	\$182,063
Peer-Reviewed Research Subtotals						\$15,628,462	\$13,312,445			\$13,312,447

Non-Peer-Reviewed Research

PI	Specific Funding Source	Project Number	Project Start Date	Project End Date	Project Title	Annual Project Direct Costs	Cancer- Relevant Annual Project DC	Program Code	Program Percent	Annual Program Direct Costs
Luptak A Burke-Aguero D (University of Missouri)	NASA University of Missouri	C00077406-3-04	8/1/2021	7/31/2026	Bringing RNA to Life - Emergence of Biological Catalysis	\$98,268	\$49,134	BIDD	100	\$49,134
Non-Peer-Reviewed Research Subtotals						\$98,268	\$49,134			\$49,134