

SOM Biomedical Research Core Voucher Program - FY20 Awarded Projects

	PI	Project Title	Core Facility
1	Arthur, Janelle	High throughput sequencing approach to quantify genetically similar but functionally distinct microbes in vivo	Microbiome Core
2	Casazza, Rebecca	Defining the antiviral effects of interferon lambda in a mouse model of congenital Zika virus infection	Histology Reseach Core Facility
3	Dorsey, Kathleen	Patterns of immune marker expression determined by NanoString Geo-MX Digital Spatial Profiling in primary cutaneous melanomas with high or	Translational Pathology Lab
4	Dowen, Rob	Interrogation of metabolic regulatory pathways by high-throughput sequencing of hundreds of mutants	HTSF
5	Faridounnia, Maryam	Development of live cell imaging platforms to monitor neurofilament aggregation in iPSC-neurons from patients with an inherited neuropathy	Human Pluripotent Stem Cell Core
6	Fay, Jonathan	Methods to enhance and expedite cryo-EM structure determination efforts	Cryo_EM Core
7	Gracz, Adam	Dissecting acute liver injury with spatial transcriptomics	Advanced Analytics
8	Heise, Mark	Multigene Editing of the Mouse Genome Using CRISPR	Animal Models Core
9	James, Lindsay	NMR Study of Ligand Binding Specificity to Chromodomain Targets	Biomolecular NMR
10	Kollipara, Avinash	Characterization of mucosal T cell subsets associated with protection in Chlamydia trachomatis infected women using CyTOF – a systems	Mass Cytometry Core
11	Linnstaedt, Sarah	Tissue specificity and timing of post-stress expression of the chronic pain-associated protein FKBP51	Translational Pathology Lab
12	Lorenzo, Damaris	Modulation of presynaptic function by β II-spectrin	Microscopy Services Lab
13	Maldonado, Horacio	Targeting lung fibroblast invasion in idiopathic pulmonary fibrosis: Role of Thy-1 expression in extracellular matrix remodeling.	Neuroscience Microscopy Core
14	Maness, Patricia	Cytoskeletal Interactions of Autism Risk Factor Ankyrin B	Microscopy Services Lab / Structural Bioinformatics
15	McCormick, Laura	Optimization and application of TMTpro for multiplexed, quantitative proteomics to study TRIM9 and TRIM67 function in synaptic regulation	MH Proteomics Center
16	Parr, Jonathan	Long-fragment enrichment and sequencing approaches for complex subtelomeric targets in Plasmodium falciparum	HTSF
17	Pickles, Raymond	Using Flow Cytometry to Quantify Virus-Infected Epithelial Cells and Immune Cells Obstructing the Small Airways during Respiratory Viral	Flow Cytometry
18	Royce, Trevor	LCCC 1908: Image-Adapted Target Volumes Using 68Ga-HBED-CC PSMA-PET/MRI for Unfavorable-Risk Prostate Cancer Patients Receiving Radiation	Tissue Procurement
19	Shoenbill, Kimberley	Stakeholder interview with clinicians for study entitled: "Electronic Health Record Support of Nonpharmacologic Interventions for Hypertension	CHAI core
20	Strahl, Brian	Dissecting the RNA Polymerase II Interactome Landscape During Transcription	MH Proteomics Center
21	Taylor, Joan	Resolution of active and inactive structures of GRAF family RhoGAPs	Cryo_EM Core
22	Torres, Gabriela	A machine learning approach to automatically classify carotid atherosclerotic plaque composition by ARFI Ultrasound, in vivo	Histology Research/ Translational Pathology Lab
23	Vachharajani, Niyati	Development of flow cytometry methods to assess hepatocyte-derived exosome uptake and immune response in liver nonparenchymal cells	Flow Cytometry
24	Wang, Haofei	Single Cell Epigenome Profiling Using coBATCH during Cardiac Reprogramming	HTSF
25	Weiss, Ellen	Understanding the role of PKA in cone photoreceptor GRK phosphorylation through the generation of conditional knockout zebrafish	Zebrafish Aquaculture Fac
26	Wu, Zhanhong	The development of radioactive fluorescent dye for PET/optical dual modality imaging	BRIC Radiochemistry
27	Zhang, Qi	NMR analysis of Xrn1-resistant viral RNAs of mosquito-borne and tick-borne flaviviruses	Biomolecular NMR