

PI Name	Department	College/Institute	Project Title	Collaborators	Research Type	Proposal Submitted to
Al Smadi, Anas			Imaging Findings of COVID-19 in Detroit Population		Med	
Arslanturk, PhD, Suzan	Computer Sci	COE	STTR Phase I: RESTORE: A knowledgebase and....		Bench	Advaita Corporation
Batchu, PhD, Ramesh Babu	Surgery	SOM	Recombinant adeno-associated-based vaccine expressing SARS-CoV-2 Spike protein variant	Prof. Scott A. Gruber, MD PhD, Prof. Donald W. Weaver, MD, Dr. Kolli Bala Krishna, Ms. Oksana Gruzdyn	Bench	
Bepler, MD, Gerold	Oncology	SOM	The Impact of COVID-19 and Social Distancing on Cancer Patients, Survivors and Care Givers		Med	NIH/NCI
Berti, Pharm D, Andrew	Pharmacy Practice	EACPHS	Hydroxychloroquine-based Combination Therapies Used to Treat COVID-19 Patients in Detroit		Med	
Bogg, PhD, Tim	Psychology	CLAS	Personality, and Social Cognition Predictors of Guideline Adherence in a Representative U.S. Sample	Elizabeth Milad, M.S.	B/S/E	
Chekmenev, PhD, Eduard Y	Chemistry	Karmanos Cancer Institute (primary), Integrative Biosciences, CLAS	Low-Cost, High-Throughput 3D Pulmonary Imager Using Hyperpolarized Contrast Agents and Low-Field MRI	Boyd M Goodson (partnering PI), PhD, Southern Illinois University Carbondale (SIUC)	Bench	

Chekmenev, PhD, Eduard Y	Chemistry	Karmanos Cancer Institute (primary), Integrative Biosciences, CLAS	Novel Functional Pulmonary 3D MRI of Lung Diseases Including COVID-19	Boyd M Goodson (partnering PI), PhD, Southern Illinois University Carbondale (SIUC), Juri Gelovani (collaborator): WSU, Department of Biomedical Engineering, Michael J. Barlow (University of Nottingham), UK	Bench	
Chen, PhD, Fei	Pharmaceutical Sciences	EACPHS	Environmentally-induced mdig enforces expression of COVID-19 receptor CD147	None	Med & Bench	
Chopra, MD, Teena	Inf. Diseases - Int. Med	SOM	Protocol: Remdesivir (RDV; GS-5734) for the Treatment of SARS-CoV2 (CoV) Infection	Pillay, Jeet	Med	
Daugherty, Ph.D., Ana M	Phych, Fam Med, Phychiatry and Behav Neuro	CLAS, SOM and IOG	Evaluation of COVID-19 diagnosis and symptom severity correlates of neural and cognitive decline in elderly and risk for dementia	Phillip Levy, Steven Korzeniewski, Teena Chopra	Med & Bench	
Draghici, Ph.D., Sorin	Computer Science and OBGYN	Engineering and SOM	Identification of mechanisms of disease in COVID19	Roberto Romero, Gil Mor, Lobelia Samavati	Med	
Draghici, Ph.D., Sorin	Computer Science and OBGYN	Engineering and SOM	Identification of existing FDA-approved drugs that could help COVID19 patients.	Roberto Romero, Gil Mor, Lobelia Samavati	ed (Bioinformatics)	
Favot, MD, Mark	Emergency Med	SOM	Defining COVID-19 Myocardial Dysfunction		Med	American Heart Association
Firestine, PhD, Steven M	Pharmaceutical Sciences	EACPHS	High-throughput and in silico screening for agents active against COVID-19 and other emerging diseases	None	Bench	

Gavande, MS, PhD, Navnath	Pharmaceutical Sciences	EACPHS	Repurposing Safe and Effective Clinically Developed Drugs for Treatment of SARS-COV-2 (COVID-19)	Laci Kovari, Raymond Schinazi	Med & Bench	
Ghosh, PhD, Samiran	Family Medicine and Public Health Sciences and CMMG	SOM	Longitudinal Estimation of Incidence and Prevalence rate of COVID19, via two-phase sampling	None	ed (Bioinformatics)	
Harris, PhD, Carolyn	Chemical Engineering and Materials Science	Engineering	Open-Source, Mechanical Ventilation Device (using readily available components and 3D printed parts)	Ahmad Faryami	Med (Device)	
Hazlett, PhD, Linda	Anatomy/Cell Biology	SOM	PM 2.5 and bacterial infection on COVID-19	Kezhong Zhang	Bench	
Iyer, PhD, Arun	Pharmaceutical Sciences	EACPHS	vaccine and therapeutic intervention for improving the memory T cell-based immunity.	Samaresh Sau and Navnath Gavande	Med & Bench	
Jahng, PhD, Rosie	Communications	CFPCA	Misinformation and news consumption: Information seeking behaviors during Covid-19		B/S/E	
Jiang, PhD, Shanhe	Criminal Justice	CLAS	Detroit.	Dr. Marcus Felson and	Soc	
Jin, MD, PhD, J.-P.	Physiology	SOM	COVID-19	None	Bench	NIH
Jin, MD, PhD, J.-P.	Physiology	SOM	Ischemia in COVID-19 Patients Using Novel Biomarkers of Myocardial Adaptation	Phil Levy	Med	
Johnson, PhD, Lars	Psychology	CLAS	before the COVID-19 outbreak and after the pandemic was declared		B/S/E	
Kong, MD, Wan Yee	Neurology	SOM	Acute encephalopathy in COVID-19 patients- Prevalence, characteristics and outcomes: A retrospective study of COVID-19 patients in Detroit Medical Center		Med	
Kovari, M.S., PhD, Ladislau	Bio, Micro, Immuno	SOM	Coronavirus Effective and Safe Protease Inhibitors	Zhe Yang, Navnath Gavande, Raymond Schinazi	Med & Bench	Emory U/NIH
Krawetz, Ph.D., Stephen A.	OBGYN and CMMG	SOM	Identifying viral/microbiome passengers of the ejaculate	Swanson GM, Moskovtsev S, Librach C, Pilsner JR	Med & Bench	
Lee, Sarah	Pulmonary & Critical Care	SOM	COVID-19 Related ARDs Treatment - Clinical Trial CG30381-USA133		Med	

Levy, MD, Phillip	Emergency Med, VPR, UPG	SOM	Assessing the post-recovery effects of COVID-19 infection and stress on cardiovascular health among first responders and frontline health care workers		Med	American Heart Association
Lichtenberg, PhD, Peter	Psychology	IOG and CLAS	Older Adult Loneliness and Perceived Stress during COVID-19 Physical Distancing	Tam Perry, Vanessa R	B/S/E	
Lin, MDXihui	Ophthalmology, Visual, Anatomical Sci	SOM	Hydroxychloroquine Effect on Leukopenia in Patients with COVID-19: A Retrospective Cohort Study		Med	
Lipovich, PhD, Leonard	CMMG	SOM	RNA genome with endogenous host cell RNA transcripts generates dsRNA hybrids that implicate the affected host RNAs as viral co-factors for therapeutic targeting		Bench	Hamad Bin Khalifa University
Liu, PhD, Wanqing	Pharm Sci	EACPHS and iBio	Role of pathogen and host genome in response to SARS-CoV-2 coronavirus infection.	Paul Kilgore, John McKinnon, Marcus Zervos, and Katherine Gurdziel.	Bench	
Liu, PhD, Wanqing	Pharm Sci	EACPHS and iBio	Omics-based biomarkers and risk factors for COVID-19 clinical outcomes among African-American patients.	Philip Levy, Anthony Lagina, Paul Stemmer and Krishna Rao Maddipati.	Bench	
Liu, PhD, Wanqing	Pharm Sci	EACPHS and iBio	An ultra-rapid RNA preparation technique for high-throughput SARS-CoD-2 testing	Rishabh Kala, Paul Kilg	Bench	
Luca, PhD., Francesca	CMMG and OBGYN	SOM	Gene expression responses to the COVID-19 pandemic in African American youth and older adults	Samuele Zilioli, Yanpin	Med and B/S/E	
Mallory, PhD, Mallory	Psychology	CLAS	Online-Based Teaching and the Coronavirus Outbreak		B/S/E	
McGoron, PhD, Lucy	MPSI	Res	researchers are designing an online, mixed methods study to assess stress, coping, and mental, physical, and behavioral health in parents of children 0 - 18 years old		B/S/E	
Mor, MD, PhD, Gil	OBGYN	SOM and Mott Center	Development of an anti-viral therapy	Jianjun Wang, Candy D	Med & Bench	NIH

Nguyen, PhD, Hien M	Chemistry	CLAS	DEVELOPMENT OF OLIGOMERS AND GLYCOPOLYMERS TO ATTENUATE SARS-COV-2	Amos Panet and Dana	Med	
Partridge, PhD, Robert T	Psychology	CLAS	Detrimental Effects of the COVID-19 Crisis on the Social, Economic, and Health Security of Vulnerable Families: Immediate Impacts and Post-Crisis Recovery	Chris Trentacosta, Ph.D., Jeff Miles, MPH,	B/S/E	
Ram, PhD, Jeffrey	Physiology	SOM	Legal and ethical issues associated with SARS-CoV-2 monitoring and COVID-19 tracking	Lance Gable	B/S/E	
Ram, PhD, Jeffrey	Physiology	SOM	Community detection of COVID-19 disease through SARS-CoV-2 monitoring in sewage	Phil Pellett, Bobby Teng, Ikuko Kato	Bench	
Rappolee, PhD, Daniel A	Ob/Gyn and Physiology	SOM	Identifying Covid19 and other viral receptors-susceptibilities in embryonic tissues during pregnancy and how they are affected by hormonal and environmental stress	Douglas Ruden, Elizabeth Puscheck, Steven Korzeniewski, Mohammed Abdulhasan, Parveen Parasar, Kathleen Gurdziel, Yuan You, Ayesha Alvero	Bench	
Runge-Morris, MD, Melis	OEHS	Res	with our geospatial data on urban environmental exposure to air, water and soil contaminants		Bench	
SantaLucia, Jr., PhD, John	Chemistry	CLAS	Design and Development of multiplexed PCR assays for COVID-19 and other pathogens	Arjang Hasibi, Steven Benner	Bench	
Saydain, MD, Ghulam	Int Med	SOM	Randomized Open Label Controlled Study to Evaluate the Efficacy & Safety of Sirukumab in Hospitalized Coronavirus Disease (COVID-19) Participants with Severe Hypoxia		Med	
Shi, PhD, Weisong	Computer Sciences	Engineering	RAPID: CORPUS: An Edge Intelligence-Assisted Multi-Granularity COVID-19 Risk Predication and Update System	Dr. Ming Dong and Dr. Marcus Zervos	(Bioinformatics)	NSF
Stack, PhD, Steven	Criminal Justice	CLAS	Predicting Metropolitan Suicide Rates During the COVID-19 Pandemic: Pre Pandemic Health, Poverty, Air Pollution Levels, & Intensity of Covid-19 Mortality		B/S/E	

Wang, PhD, Jiemei	Pharmaceutical Sciences	EACPHS	Prevention of personnel shortage in animal research facility during COVID-19 pandemic.	DLAR	Bench & Ed	
Wilburn, MD, John	Emergency Med	SOM	Multi-center registry of potential COVID-19 patients presenting to US emergency departments		Med	
Yang, PhD, Zhe	Bio, Micro, Immuno	SOM	A Quantitative Network Model for Coronavirus Cross-Species Transmissibility Prediction	Laci Kovari	Bench	
Yeo, MD, Lami	OB/Gyn/PRB	SOM	presentation, imaging, and neonatal outcome of pregnant women suspected to have COVID-19 and women with other pregnancy complications		Med	
Zhang, MD, PhD, Xiangmin	Pharmaceutical Sciences	EACPHS	Development of recombinant attenuated bacterial-based COVID-19 vaccine	Qingke Kong, Ph.D.	Bench	
Zhang, MD, PhD, Xiangmin	Pharmaceutical Sciences	EACPHS	Identification of cellular protein kinases critical for SARS-CoV2 replication	Zhengping Yi	Bench	
Zhu, PhD, Dongxiao	Computer Science	Engineering	COVID-MobileXpert: On-Device COVID-19 Screening using Snapshots of Chest X-Ray	Phil Levy	Med (Imaging)	
Zhu, PhD, Dongxiao	Computer Science	Engineering	COVIDRiskNearMe: A crowdsourcing web-portal for COVID-19 risk self-assessment and geomapping risk stratification	Phil Levy	B/S/E	
Zilioli, PhD, Samuele	Psych, Fam Med, PHS	SOM	SES, race and differential behavioral and health responses to the COVID-19 pandemic	Jacqueline Rodriguez-Stanley, Dr. Yanping Jiang, Dr. Kristen Culbert	B/S/E	
Zilioli, PhD, Samuele	Psychology	CLAS	COVID-19 pandemic		B/S/E	