

2016-2017 UROP Recipients – Full and Mini-Grants

Full Grant

Student and Major(s)	Faculty Mentor	CO PI #1	CO PI #2	Title
Adams, Lindsay - Public Health	Scandlyn, Jean			Exploring the relationship between a food environment and food consumption
Beem, Kade - Geography	Briles, Christy	Nguyen, Vy	Primm, Joseph	Evaluation of honey bee health, honey production and hive maintenance in Flow hives and traditional Langstroth hives
Eltom, Nihal - Biology/Psychology	Oleson, Erik			Surcose addiction that assess behavioral and physiological changes in food addiction, in vivo
Fischer, William - Bioengineering	Benninger, Richard			Investigating cumulative effects of multiple gene variants on type 2 diabetes risk using computer modeling
Fox, Thomas -Bioengineering	Gibson, Emily (BE)			Investigating new methods of neural-navigation using optical coherence tomography
Francis, Andrew - Chemistry	Resendiz, Marino	Kokouvi, Dzowo		Synthesis of 2'-O-position of oligonucleotides and the study of their photophysical and biophysical characterization
Garimella, Sanjana - Biology	Phiel, Christopher			Exploring a novel role for Gsk-3 in pluripotency of stem cells
Gillan, Glen - Psychology	Greenwood, Ben	Haddad, Natalie		Dopamine activity in the nucleus accumbens and dorsal striatum during running
Hamilton, Desmond - Chemistry	Knight, Jefferson			Lipid coated gold nanoparticles for ultra-sensitive label free quantification of protein adsorption kinetics
Kaur, Rupinder - Chemistry/Biology	Lee, Jungjae			Storable, thermally activated, near-infrared chemiluminescent nanoparticles for optical imaging
Kennedy, Cayla - Geography	Allen, Casey			Geologic stability of the carib stones, Grenada, West Indies
Lloyd, Brian - Biology	Greenwood, Ben	Hake, Holly		Effect of exercise to enhance fear extinction memory is dependent on mammalian target of rapamycin (mTOR) signaling
Niemiec, Sierra - Biology	Santorico, Stephanie			SNP-based pathway enrichment analysis to determine a link between bipolar disorder and allergies
Osnes, Melisande - Illustration	Gonzalez, Quintin			An illustrated story of vocal empowerment for and by women in Tanzania
Passman, Samantha - Bioengineering	Benninger, Richard			Blood flow measurement as a tool for measuring inflammation across murine pancreases
Pultorak, Katherine - Biology	Oleson, Erik	Rakowski, Dylan		Characterizing the effects of benzodiazepines and ethanol on dopamine with in vivo fast-scan cyclic voltammetry
Rathi, Hinal - Biology	Stith, Brad	Simmons, Leslie		SRC kinase mechanism activity
Rosales, Joseph - Psychology	Grigsby, Jim			Racial discrimination and how intergroup conflict impacts the allocation of resources
Stedman, Jamie - Biology	Hartley, Laurel			Urban wildlife monitoring in collaboration with Lincoln Park Zoo
Trumpie, Ashley - Biology	Charlesworth, Amanda	Oviedo, Jericho	Russo-Pearl, Sarah	How does zar regulate development of embryos?
Zarecki, MacKenzie - Biology	Lin, Hai			QM/MM simulations of chloride translocation through the EcCLC Cl ⁻ /H ⁺ antiporter

Mini-Grant

Student/Major(s)	Faculty Mentor	Title
Buck, Vanessa - Psychology	Esther Sullivan	Safety in Swansea
Colvin, Evan - Mathematics	Douglas Shepherd	Open-source automated light-sheet sample stage
Evans, Marian - Psychology	Alan Vajda	Intersex fishes in North American rivers are a recent phenomenon
Haddad, Natalie - Chemistry	Benjamin Greenwood	Dopamine activity in the dorsal striatum during running in females
Herbert, Cassandra - Chemistry	Marino Resendiz	Enzymatic degradation on oxidized lesions in RNA
Jirsaraie, Robert - Psychology	David Albeck	Oxytocin receptor gene and perceived environmental stress interact to influence prosocial behaviors
Khan, Tassawwar - Biology	Sondra Bland	MJN 110 and social isolation effects on glial and neuronal cell expression of phosphorylated MTOR in rats
Khouqeer, Abraheem - Chemistry	Douglas Shepherd	Tagging GFP to endogenous protein in yeast using CRISPR-Cas9. A system to quantitatively study genetic expression
Lam, Aimee - Bioengineering	Kendall Hunter	Pulmonary vascular input impedance as a predictor of disease progression in pediatric pulmonary hypertension
Lopez, Chelsi - Chemistry	Jung-Jae Lee	Synthesis and application of methacrylate derivatives towards a functionalized contact lens
McGill, Damarcus - Public Health	Savita Malik	Refugee health equity in Denver
Nguyen, Brigitte - Public Health	Michael Greene	Interactions of intercolonial pavement ants under circumstances of individual isolation
Oliver, Will - Architecture	Jo VandenBurg	Design Build: Nicaragua
Osborn, Jackson - Electrical Eng.	Jae Do Park	Power potty
Pelowich, Krysta - Public Health	Patrick Krueger	Opting out of preventative medical care
Power, John - Psychology/ Sociology	Barbara Walker	Viability of online peer support groups as an ancillary treatment for borderline personality disorder
Ransom, Claire - Intl. Studies	Sasha Breger Bush	Sustainable innovation: An exploration of Cuba's urban agricultural revolution
Rauff, Adam - Bioengineering	Kendall Hunter	Statistical shape modeling of the left ventricle and its correlation with invasive pressure measurements
Romero, Alex - Biology/Sociology	Adam Lippert	Examination of the association between social and healthcare environments and racial disparities in infant mortality
Sauerland, Hunter - Biology	Jung-Jae Lee	Activation of neurons with near infrared fluorescing molecules
Spotts, Timothy - Biochemistry	Jefferson Knight	Quantitative measurement of SLP-2's unusual calcium-inhibited membrane binding
Tran, Sherleen - Public Health	Hai Lin	PIP2 head group behavior in granuphilin C2A mutations