Grants in Aid of Research Awards -October 1, 2019 Grant Cycle

Grant Recipients by State

Alabama				
Name	Education Status	Institution	Study Title	
Victoria Coutts	Doctoral Candidate	Auburn I niversity	Epigenetic Mechanisms of Nutritional Stress Tolerance in the Zebra Finch	
Anthony Snead	Doctoral Candidate	University of Alabama at Tuscaloosa	Escaping the Patch: The Role of Ocean Currents in Determining Population Connectivity in Kryptolebias marmoratus	

Arizona			
Name	Education Status	Institution	Study Title
Mark Namba			Behavioral and Neuroimmune Mechanisms Underlying Comorbid
	Doctoral Candidate	Arizona State University	HIV/AIDS and Cocaine Use Disorders
Emily Palmquist			Interactions Between Climate and Flood Adaptations in a Woody
	Doctoral Candidate	Northern Arizona University	Riparian Species
Mikayla Struble	Doctoral Candidate	Northern Arizona University	Evolutionary Origins of Gait Transitions in Tetrapods
Emily Webb			Biochemical Quantification of Whole-organism Resource Allocation
	Doctoral Candidate	Arizona State University	Patterns in Birds

California			
Name	Education Status	Institution	Study Title
Anthony Bishay	Undergraduate	University of California-Riverside	Examination of Chronic Fatigue in a Mouse Model of Gulf War Illness
Aditya Jangid	Undergraduate	California Polytechnic State University San Luis Obispo	3D Printed Microfluidics: Rapid Prototyping of Low-Cost Biosensors
Julianne Pelaez	Doctoral Candidate	University of California-Berkeley	Unraveling the Evolution of Taste: Genome-editing to Uncover the Role of Chemosensory Gene Duplications in Diet Shifts
Leila Wahab	Doctoral Candidate	University of California-Merced	The Role of Organic Nitrogen Compounds in Soil Organic Matter Stability: Changes in Distribution, Composition, and Mineral Associations Under Altered Precipitation Regimes in California Grasslands
Hsien Chang (Patrick) Yeh	Undergraduate	University of California-Los Angeles	Double Network Hydrogel for Repair and Sealing Corneal Injuries

Colorado			
Name	Education Status	Institution	Study Title
	TT- Jamen Jacob		Effects of Mycobacterium vaccae Treatment on Fear Extinction in
Andrew Lee	Undergraduate	University of Colorado at Boulder	Female Rats in the Fear-potentiated Startle Paradigm
		University of Denver	Understanding How Hurricane-fire Interactions Impact Ecosystem
Daniel Swann	Masters Student		Resilience in a Tropical Montane Forest
Brooke Washburn Doctor	Doctoral Candidate	University of Denver	Seeing Things in a Different Light: Evaluating Visual Perception of
			Threespine Stickleback in Differing Light Environments

Connecticut			
Name	Education Status	Institution	Study Title
Kristy Barnes	Doctoral Candidate	Yale University	Quantifying Nutrient Input from Caribou Calving Sites

Delaware			
Name	Education Status	Institution	Study Title
		University of Delaware	Functional Characterization of the Human Retina-Specific ABCA4
Meera Patel	Doctoral Candidate		Transporter in Virus-Like Particles
		University of Delaware	Role of Cholesterol-25 Hydroxylase in Inflammation and Fibrosis
Joseph Stevenson	Masters Student		Following Cataract Surgery

Florida			
Name	Education Status	Institution	Study Title
Victor Rodriguez-Ruano	Doctoral Candidate	Florida Institute of Technology	Using Reef-sediment Composition as a Geo-ecological Indicator of Coral-reef Degradation
Ann Wassick	Doctoral Candidate	Florida Institute of Technology	Is There a Bias for Invasive Species on Vertically-oriented Surfaces?

Georgia				
Name	Education Status	Institution	Study Title	
Hannah Cole	Undergraduate	University of North Georgia	Spread and Ecological Impacts of an Invasive Spider in Georgia	
Eliot Vrijmoet	Doctoral Candidate	Georgia State University	Orbital Architectures of the Nearest M Dwarf Systems	

Idaho			
Name	Education Status	Institution	Study Title
			Role of Claudin-5 Palmitoylation in Thrombin-mediated Blood-Brain
Brian Hoettels	Doctoral Candidate	Boise State University	Barrier Endothelial Dysfunction

Illinois	Illinois			
Name	Education Status	Institution	Study Title	
Cuncheng Chen	Doctoral Candidate	University of Chicago	Tomographic Mapping of Distant Baryonic Dark Matter Halos	
Natalia Kucharczyk	Undergraduate	Rockford University	Studying the Immediate Effects of High Impact Collisions in College Football	
Ian Rines	Doctoral Candidate	Illinois State University	Accessory-gland Proteins as Purveyors of Reproductive Manipulation: Using RNAi to Explore Sexual Conflict in Crickets	
Madison Rittinger	Masters Student	Illinois State University	Sex-Specific Effects of Hatching Order and Synchrony on Nestling Baseline Corticosterone Levels	

Indiana	Indiana			
Name	Education Status	Institution	Study Title	
Naureen Aslam	Doctoral Candidate	Indiana State University	Investigating the Sex- segment and Tissue-specific Regulation of the Branchless Gene in Drosophila Melanogaster	
Tara Empson	Undergraduate	Indiana University - Bloomington	Steroid Sensitivity in the Visual System In response to Competition	
Derek Gibson	Doctoral Candidate	Indiana University-Purdue University, Indianapolis	Investigating Late Holocene east-west Fluvial Responses to Seasonal Hydroclimate Variability in the Midcontinental United States	
Emily Nonnamaker	Doctoral Candidate	University of Notre Dame	Do Microbially Produced Scents Signal Ovulation in Baboons?	
Aslihan Terzi	Masters Student	Indiana: Purdue University-West Lafayette	Reactive Oxygen Species in Axon Development: NADPH Oxidase Regulates Growth Cone Guidance	
Charlotte Wood	Doctoral Candidate	University of Notre Dame	Searching for Light Echoes around Type Ia Supernovae	

Kansas			
Name	Education Status	Institution	Study Title
			Alterations in Functional Neural Activity Following Neural
Hayley Fisher	Doctoral Candidate	Kansas State University	Dysfunction in a Devaluation Test in Rats

Kansas (cont.)			
Name	Education Status	Institution	Study Title
Kelsey Panfil	Doctoral Candidate	Kansas State University	The Impact of Estradiol on Impulsive Decision-making and Timing

Louisiana			
Name	Education Status	Institution	Study Title
Ormelia dei Idian	Masteria Chademat	I outisions Took I laterarity	The Roles of MED12 and the Kinase domain in Adipogenesis of
Onyekachi Idigo	Masters Student	Louisiana Tech University	Human Adipose Derived Stem Cells

Maine			
Name	Education Status		Study Title
		Effects of Invertebrate Diversity and Abundance on Decomposing	
Samantha Jalkowski	Undergraduate	Unity College	Eelgrass (Zostera marina)

Massachusetts	Massachusetts			
Name	Education Status	Institution	Study Title	
Brian Best	Undergraduate	Northeastern University	Investigating Acetyl-CoA-mediated Cell Death in Bacillus subtilis	
Ailish Hanly	Doctoral Candidate	University of Massachusetts Medical Center	Exploring Targeted Epigenetic Therapy for Melanoma: Using a Novel p300 Histone Acetyltransferase Inhibitor to Treat BRAF Inhibitor- resistant Melanoma Cells	
Nicholas Herrmann	Doctoral Candidate	Harvard University	Determinants of Success in a Novel Environment: Testing how Morphology and Habitat Use affect Individual Fitness in Anolis Lizards	
Prajwal Mohanmurthy	Doctoral Candidate	Massachusetts Institute of Technology	NStar: Revisiting the search for Mirror Neutron - Neutron Oscillations	
Sewon Oh	Undergraduate	Boston College	Synthesis of Branched Poly(lactic Acid) via Redox-Switchable Iron based Catalyst	
Megan Parsons	Masters Student	Boston University	Elucidating EEG Correlates of Brain States	
Nathaniel Shepard	Undergraduate	Northeastern University	Investigating the Role of Estrogen Signaling on Memory and Learning in the Rat Prefrontal Cortex	

Michigan			
Name	Education Status	Institution	Study Title
Stephanie Castro Marquez	Masters Student	Oakland University	Who's the Parr-ent? Conservation Genomics of the Puerto Rican Parrot
Sarah Medley	Undergraduate	Oakland University	Quantifying Sequencing Accuracy for Repetitive and Low Complexity DNA Regions in Humans

Minnesota			
Name	Education Status	Institution	Study Title
Erin Bergen	Masters Student	University of Minnesota Duluth	Restoration Plantings and Forest Hydrology

Mississippi			
Name	Education Status	Institution	Study Title
Conner Owens	Masters Student	Mississinni State University	Backwater Food Webs: Exploring the Role of Flooded Forests as an Energy Source to Aquatic Communities

Missouri			
Name	Education Status	Institution	Study Title
Ashley Gagnon	Masters Chalant	Coult and Mineral Clate Hair and the	Ecological Correlates of Bite Performance Among Alligator Snapping
	Masters Student	Southwest Missouri State University	Turtles
DecidDecom			Investigating Sources of Heavy Metal Contamination in the Tri-State
David Rogers	Undergraduate	Missouri University of Science and Technology	Mining District
Andrew Wall	Doctoral Candidate	Saint Louis University	Streptococcus agalactiae Use of Glutathione Synthesis and Import in
			its Defense Against Stress

New Jersey			
Name	Education Status	Institution	Study Title
Muhammad Usman	Doctoral Candidate	Rowan University	Inexpensive Wearable Congestive Heart Failure Predictor

New York			
Name	Education Status	Institution	Study Title
Jay Cooney	Undergraduate	Canisius College	Morphometric Facial Landmark Analysis for Individual Identification
J- J J			of North American Cervids

New York (cont.)			
Name	Education Status	Institution	Study Title
	Destand Cardidate		Inequalities in the Reproductive-Immune Trade-Off in Tufted Gray
Marcy Ekanayake-Weber	Doctoral Candidate	Stony Brook University	Langurs
David Fiszbein	Undergraduate	Cornell University	Chelator Development for Bi-213 Targeted Alpha Therapy
Matthew Greer	Doctoral Candidate	Syracuse University	Identifying Ceramic Production within Virginia's Shenandoah Valley
			Analysis of Chemotactic Mechanisms of PPC Migration in
Onyekwere Onwumere	Doctoral Candidate	The Graduate Center, The City University of New York	Microfluidic Ligand Gradients
			Comparative Vertebral Morphology in Crocodylomorphs: An
Candice Stefanic	Doctoral Candidate	Stony Brook University	Investigation into the Relationship of Form and Function Across
			Ecological Transitions
Charger Tara a	I la devere desete	City Hainersity of New York Perrok College	Motor Neuron Connections and Innervation of Muscles in Drosophila
Sharon Tang	Undergraduate	City University of New York-Baruch College	melanogaster

North Carolina			
Name	Education Status	Institution	Study Title
Laura de Sousa	Martine Challent		Constraint son Incremental Assembly of Upper Crustal Igneous
	Masters Student	East Carolina University	Intrusions, Henry Mountains, Utah
Emily Evans	Undergraduate	University of North Carolina at Wilmington	GenX Exposure and its Effect on Neurological Development
Christopher Moore Doctoral Candidate			Parasites as Long-term Indicators of Biodiversity in Restored Coastal
	Doctoral Candidate	East Carolina University	Habitats
Ashley Shults	Masters Student	University of North Carolina at Charlotte	Ritual Burials at Salango – Local or Not?

Ohio			
Name	Education Status	Institution	Study Title
Yu-Chun Chang	Doctoral Candidate	Ohio State University	Effects of Cell Seeding on Short- and Long-Term Tissue Engineered Vascular Graft Occlusion
Morgan E. Chaney	Doctoral Candidate	Kent State University	Comparing Renal Expression Levels of Cyanide-Detoxifying Enzymes Among Three Species of Lemur
Margaret Maloney	Masters Student	University of Dayton	A Trial of Fire and Ice: Experimental Assessment of Novel Ecological Restoration Techniques in Midwestern Prairies invaded by Pyrus calleryana
Anil Upreti	Doctoral Candidate	Miami University Ohio	Retina Regeneration Reprogramming

Ohio (cont.)			
Name	Education Status	Institution	Study Title
Bethany Williams	Doctoral Candidate	Obio State University	The Effect of Hypoxia on Reproduction and Color in an African Cichlid

Oklahoma			
Name	Education Status	Institution	Study Title
	Doctoral Candidate	University of Oklahoma	Targeted Drug Delivery into Size-Controlled Ovarian Cancer
Gokhan Gunay			Spheroids
T /1 T	Doctoral Candidate	L Iniversity of Oklahoma	Water Quality Improvements Generated by Freshwater Bivalve
Jonathan Lopez			Restoration: Removal of Bacterial Pathogens

Oregon				
Name	Education Status	Institution	Study Title	
	Doctoral Candidate	Portland State University	Effects of Exposure to Coastal Wastewater Treatment Plant Effluent on	
Amy Ehrhart			Pacific Oyster Health and Survival	
Lara Jansen	Doctoral Candidate	Portland State University	The Effects of Temperature, Nutrients and Non-native Fish on	
			Harmful Algal Blooms in Mountain Lakes	

Pennsylvania			
Name	Education Status	Institution	Study Title
Detrict Medach an	Masters Charles		An Integrated System for Monitoring High Frequency Oscillations in a
Patrick Mulcahey	Masters Student	University of Pennsylvania	Chronic Mouse Model of Epilepsy

South Carolina			
Name	Education Status	Institution	Study Title
	The demonstrates	Champer Hairmeite	Using Geometric Morphometrics to Quantify Waterfall Climbing in
James Griner	Undergraduate	Clemson University	Hawaiian Goby Fishes

Texas			
Name	Education Status	Institution	Study Title
Uyen Dang	Doctoral Candidate	L Iniversity of Texas at Arlington	Uncovering the Role of Oxygen in Rare-Earth Oxychalcogenide Phosphors

Texas (cont.)			
Name	Education Status	Institution	Study Title
Reskal Derridear	Doctoral Candidate	Taura A& M Hairmaite Callers Station	Development of Mg Metal Anodes for Inhibition of Dendritic Growth
Rachel Davidson	Doctoral Candidate	Texas A&M University-College Station	in Mg-based Batteries
Malaria Elerhanalii	Doctoral Candidate	Taura A& M Hairmaite Callers Station	Significance of the Microbiome on Aggression in House Sparrows
Melanie Florkowski	Doctoral Candidate	Texas A&M University-College Station	(Passer domesticus)
Virginia McGrath	Undergraduate	Trinity University	Prp8: A Look at the Core of the Spliceosome
Calin Manufacu	Destand Cardidate		Passion Vine Chemistry and Survival of Specialist Herbivores Against
Colin Morrison	Doctoral Candidate	University of Texas at Austin	Different Predator Guilds
A still see Osers of Costil		Hair and the fille atheness Hashik Cairman Combon at Fast Marth	Effect of Dietary Genistein on Age-dependent Differences in Cerebral
Anthony Oppong-Gyebi	Doctoral Candidate	University of North Texas Health Science Center at Fort Worth	Ischemia in Ovariectomized Rats
			Crosslinked Cell-derived Matrix Modulates Mechanotransduction in
Felix Yemanyi	Doctoral Candidate	University of Houston	Human Trabecular Meshwork Cells via β -catenin and YAP/TAZ
			Pathways

Vermont				
Name	Education Status	Institution	Study Title	
Lange Damag	Doctoral Candidate	University of Vermont	Lateral Weathering Gradients Create Unique Weathering Signatures	
Jenny Bower			Partitioned Across Young, Postglacial Landscapes	

Virginia			
Name	Education Status	Institution	Study Title
Mattheway Kashawa			The Role of a Non-coding RNA Cluster in Neuroendocrine Regulation:
Matthew Kocher	Doctoral Candidate	Virginia Polytechnic Institute and State University	Implications for Prader-Willi Syndrome

Washington				
Name	Education Status	Institution	Study Title	
Corinne Klohmann	Masters Student	University of Washington	The Filtration Capability of Eelgrass, a Coastal Seagrass	

Wisconsin			
Name	Education Status	Institution	Study Title
			Analyzing Kinematic Partitioning and Fluid Flow in the Pulo do Lobo
Nancy Duque	Masters Student	University of Wisconsin-Milwaukee	Metasedimentary Rocks Along the Southern Iberian Shear Zone in
			Andalucia, Spain
	Doctoral Candidate	University of Wisconsin-Madison	Investigating the Formation and Survival of Planets and Other Low-
Daniel Rybarczyk			Mass Companions around Pulsars
Max Spehlmann	Masters Student	University of Wisconsin-Milwaukee	Linking Water Age to Bacterial Growth in a Tap Water Distribution
			System

International Grant Recipents by Country

Argentina					
Name	Education Status	Institution	Study Title		
Nadia Moschen	Doctoral Candidate	Universidad Nacional de La Plata	Chronology and Extinctions of the Patagonian Megafauna: the case of		
			Sanguinetti Bay		

Canada					
Name	Education Status	Institution	Study Title		
			Excavation and description of a new ichthyosaur (Reptilia:		
Dirley Cortés	Doctoral Candidate	McGill University	Ichthyosauria) taxon from the Early Cretaceous (130 million years ago)		
			of Colombia		
			The Effect of Socioeconomic, Gender, and Racial Determinants on		
Anne Xuan-Lan Nguyen	Undergraduate	McGill University	Preventive care, Diagnosis, Treatment, and Follow-up of Major		
	Ŭ		Ophthalmic Diseases		
Vicki Mengyuan Zhang	Masters Student	University of Toronto at Mississauga	Invasive Species in the Subarctic		

Nigeria				
Name	Education Status	Institution	Study Title	
			Microbial Relationship Between Poultry Farms, Rivers and Crop	
Nsikan Udoh	Undergraduate		Farming, and its Effect on Spread of Antibiotic Resistence in Idi	
			Ayunre-Ogunmakin Community, Oyo State	

Spain					
Name	Education Status	Institution	Study Title		
Paula Giménez Mínguez	Doctoral Candidate	Achucarro Basque Center for Neuroscience	Modelling Microscale Diffusion Through Geometrically Resolved		
			Brain Extracellular Space		