Grants in Aid of Research Awards -March 15, 2021 Grant Cycle Grant Recipients by State

Alabama			
Name	Education Status	Institution	Study Title
Sarah Shainker	Doctoral Student	I University of Alahama at Kirmingham	Investigating the eco-evolutionary maintenance of complex life cycles using freshwater red algae
Victoria Spencer	Masters Student	I Allhiirn I hiwersity	Determining how native ant species respond to invasion by Solenopsis invicta in pine-hardwood forests

Arizona			
Name	Education Status	Institution	Study Title
Katherine Giordano	Doctoral Student	I University of Arizona	Precision Identification and Targeting of Rod Microglia in Diffuse Brain- injured Cortex
Samantha Bowser	Undergraduate Student	Arizona State University	Does social signal evolution play a role in the recent range expansion of Great-tailed Grackle (Quiscalus mexicanus) subspecies into the United States?

California			
Name	Education Status	Institution	Study Title
Demetri Maxim	Undergraduate	University of Delaware	Pax6 Maintains Lens Epithelial Phenotype by Repressing Runx1 Expression
Forest Macomber	Masters Student	Loma Linda University	Ontogenetic Shift in Venom Composition of California Scorpionfish
Jaeeun Sohng	Doctoral Student	University of California-Davis	Driving influx of organic and inorganic carbon in agricultural soil by supplying compost, biochar and mineral co-amendments
Jamie Kerlin	Masters Student	California State University-Northridge	Effects of submarine groundwater discharge and competition on growth responses of Porites rus
Navid Salehnamadi	Doctoral Student	University of California-Irvine	Toward Stemming Accessibility Issues in Software
Nicole Ibanez	Masters Student	University of San Francisco	Project Title: Investigating the Chemical Origin of the Interactions between Ionic Liquid-Coated-Nanoparticles and Red Blood Cells to Achieve Lung-Cancer Targeted Drug Delivery

California (cont.)			
Name	Education Status	Institution	Study Title
Robert Ulrich	Doctoral Student	University of California-Los Angeles	The biomineralization of plants: Connecting Ficus cystoliths to climate
Robert Offici	Doctoral Student		using geochemistry and functional traits
Theo Po	Doctoral Student	University of California-Irvine	Directional control of sea star locomotion
Victoria Chevee	Doctoral Student	I I himpreity of California-Borkolov	Using Listeria monocytogenes to uncover mechanisms of dissemination of intracellular bacteria to the brain and intra-neuronal transport.

Connecticut			
Name	Education Status	Institution	Study Title
James Hannon	Undergraduate Student	···	The impact of multiple, climate change-related stressors on the gill transcriptome of Atlantic killifish (<i>Fundulus heteroclitus</i>)
Kelsey Jenkins	Doctoral Student	Yale University	Evolution of the Reptile Skull
Logan Billet	Doctoral Student	I Valo I hivoreity	Exploring the causes and consequences of ranavirus epidemics in a wood frog metapopulation experiencing recurring mass mortality events

Delaware			
Name	Education Status	Institution	Study Title
Marissa Heino	Undergraduate Student	University of Delaware	Determining the role of mechanical stretch on ocular lens cell growth
Walissa Hemo	Officergraduate Student	Offiversity of Delawate	using a novel lens stretching device

District of Columbia			
Name	Education Status	Institution	Study Title
Liam Horan-Portelance	Undergraduate	Georgetown University	Implications of the Endocannabinoid and Adenosine Receptor Systems in Parkinson's Disease

Florida	Florida			
Name	Education Status	Institution	Study Title	
Alan Mock	Doctoral Student	Florida International University	Evaluating the differential effects of fish and invertebrate predators on the	
Man Wock	Doctoral Student	Fiorica international Onliversity	flux and quality of emergent aquatic insects	
And the case Cinning of the c	Doctoral Student	Lavisiana Ctata University Dates Davies	Preventing Self-destruction: Role of Lipid Droplets in Toxin Resistance in	
Anthony Cirrincione	Doctoral Student	Louisiana State University-Baton Rouge	a Fungal Plant Pathogen	
			Investigating the movements of silky sharks to inform conservation	
Brendan Talwar	Doctoral Student	Florida International University	strategies	
			Investigating whether Na+/K+ pumps in electric fish are affected by the	
Heba Ali	Doctoral Student	Florida International University	thyroxine hormone in relation to the physiological demands imposed by	
		, and the second	the energetic trade-off	

Georgia			
Name	Education Status	Institution	Study Title
Alina Tucker	Masters Student	Georgia Southern University	Influence of microplastics on copper concentration in the mussel Geukensia demissa
Chelsea Batchelder	Masters Student	Georgia State University	Biocultural Indicators of Early Childhood Stress in the Lambayeque Valley During the Middle and Late Sicán Periods: Internal Enamel Micro- Defects as Indicators of a Changing Environment
Courtney Linkous	Masters Student	Kennesaw State University	Anthropogenic Food Preferences and Nestling Health in European Starlings Across a Rural to Urban Gradient
Kaili Boyes	Undergraduate Student	North Georgia College and State University	Analysis of the effects of warmer winter temperatures on blood metabolite levels and metabolic rate in ornate box turtles (<i>Terrapene ornata ornata</i>).
Luodan Yang	Doctoral Student	Medical College of Georgia	Effect of photobiomodulation on blood-brain barrier protection in photothrombotic stroke

Idaho			
Name	Education Status	Institution	Study Title
Amanda Ivy	Undergraduate Student	L Boise State University	Suitability of Zeolite Reinforced Catfish Bones Derived Hydroxyapatite for Biomedical Applications

Illinois			
Name	Education Status	Institution	Study Title
Elyse McCormick	Masters Student	I Illinois State University	Consequences of microsporidian and virus co-infection for parasite dynamics and bumble bee host health
Jordan Robinson	Masters Student	Southern Illinois University-Edwardsville	Transformation of E. coli with secretion system apparatus for microbial competition assays
Meghan Maciejewski	Doctoral Student	University of Illinois at Urbana-Champaign	Neural and hormonal mechanisms underlying a loss of paternal care

Indiana			
Name	Education Status	Institution	Study Title
Kang-Chieh Huang	Doctoral Student	University of Delaware	Investigation of a New RNA-binding Protein Rbm24 Associated with
Kang-Chieff Huang	Doctoral Student	Offiversity of Delaware	Anophthalmia/Microphthalmia in Early Eye Development
Melissa Torquato	Doctoral Student	Purdue University-West Lafayette	A Quantification of the Effect of Climate Change on the Foraging-Farming
Wellssa Torquato	Doctoral Student	Turdue Offiversity-West Larayette	Transition in Prehistoric Eastern North America
Rachel Williamson	Undergraduate	Ball State University	
		<u> </u>	Impact of macrophages on axon regeneration in Sarm1 knockout mice
Tai-Jan Huang	Doctoral Student	Purdue University-West Lafayette	Correlative Microstructural Characterization and Mechanical Behavior of
Tai-jaii Huang	Doctoral Student	Turdue Offiversity-West Larayette	Chondrite Meteorites
Tire - Mare -	Do stonel Charlent	In diana I Iniconsita Dendera I Iniconsita In diananalia	Mechanistic understanding of Clusterin as an intraocular pressure
Ting Wang	Doctoral Student	Indiana University-Purdue University, Indianapolis	regulator via lipid-dependent pathway

Kansas			
Name	Education Status	Institution	Study Title
Alisa Pajser	Doctoral Student	L Kansas State University	An Assessment of the Neural Mechanisms Underlying Training-Induced Suppression of Fear in the Extended Training Fear Incubation Task

Louisiana				
Name	Education Status	Institution	Study Title	
Anastasia Konefal	Doctoral Student	University of New Orleans	Is genetic diversity related to resilience for clonal seagrass beds of Halodule wrightii within the Northern Gulf of Mexico?	
Chase Anselmo	Masters Student	Louisiana State University-Baton Rouge	Effects of Reproductive Hormones on Peripheral Visual Plasticity	
Jamie Phelps	Doctoral Student	Louisiana State University-Baton Rouge	Why does the bordered patch butterfly (<i>Chlocyne lacinia</i>) exhibit pupal color variation?	
Rose Wayne	Doctoral Student	Louisiana State University-Baton Rouge	Impacts of Repeated Social Defeat on Behavior and the Brain	

Maryland			
Name	Education Status	Institution	Study Title
Myla Worthington	Doctoral Student	Morgan State University	The HIV-1 GP-120/CXCR4 interaction can lead to visual system damage

Massachusetts			
Name	Education Status	Institution	Study Title
Eleanor DiNuzzo	Doctoral Student	University of Massachusetts Dartmouth	How an Invasive Species Disrupts Community Structure at Different Trophic Levels Via Consumptive and Nonconsumptive Effects
Ilemona Ameadaji	Masters Student	University of Notre Dame	Investigating the roles of the Hippo pathway during retinal regeneration
Victoria Zdanowicz	Undergraduate Student	Boston University	Detecting wild orangutans (Pongo pygmaeus) using thermal-drones
Joseph Bunker	Doctoral Student	University of Massachusetts Boston	Quantifying Anti-Tumor CTL Killer Activity in Ly-6A Gene knockout (Ly-6A-/-) Mice
Julia Hart	Undergraduate Student	Simmons College	Size analysis of MIL-101(Cr) and MIL-101(Cr)-EN for enhanced photoconversion of CO2 under visible light irradiation

Michigan			
Name	Education Status	Institution	Study Title
Katie Li	Doctoral Student	L University of Michigan Medical School	Treating proliferative vitreoretinopathy through pharmacological activation of PKM2 and metabolic reprogramming

Minnesota			
Name	Education Status	Institution	Study Title
Cameron Gaspord	Undergraduate Student	Gustavus Adolphus College	Assessing the impact of mass extinction on plant-mycorrhizal
			relationships
Daniel Du	Doctoral Student	University of Minnesota Twin Cities	Controlled Polarization of Pump Photons in Ultrafast Electron
			Microscopy Experiments

Mississippi				
Name	Education Status	Institution	Study Title	
Christine Hamadani	Doctoral Student	I University of Mississippi	Dose-controllable and Light-activated Biodegradable Drug Delivery	
			Implants for Posterior Eye Diseases Treatment	
			Ontogenetic and/or temporal differences in bacterial composition in three	
Jordan Heiman	Doctoral Student	7	life stages in the coral Stylophora pistillata on a reef in the Gulf of Eilat,	
			Red Sea	

Missouri			
Name	Education Status	Institution	Study Title
Genevieve Hilliard	Doctoral Student	Mansfield University of Pennsylvania	Identifying Novel Therapeutics for Arrhythmogenic Cardiomyopathy via
			a Molecular Band-Aid and an Antibody
Maggie Mayberry	Undergraduate Student	I Southwest Missouri State University	Picky eaters: how generalist bees determine which pollen from flowers
			they should collect

New Jersey			
Name	Education Status	Institution	Study Title
Amanda Liyanaarachchi	Doctoral Student	Rutgers, The State University of New Jersey	Dynamical Phase Transitions in Glassy Systems
Kathryn Driscoll	Undergraduate	Rowan University	Decellularized Plant Tissues for Tissue Engineering Applications

New York			
Name	Education Status	Institution	Study Title
Alexis Earl	Doctoral Student	Columbia University	Influence of the Gut Microbiome on the Stress Response in Wild Tropical Birds
Alyson Lowell	Doctoral Student	State University of New York at Stony Brook	Thalassia testudinum and its influence on microbial diversity and resiliency of Porites porites
Bruna Costa	Doctoral Student	Columbia University	Engineering Mitochondrial Function as a Therapeutic Strategy to Treat Retinal Diseases
Cort Breuer	Undergraduate Student	University of Chicago	Now You See Me, Now You Don't: The Retinal Encoding of Interrupted Motion Trajectories
Julia Dickerson	Masters Student	Hunter College of The City University of New York	Influence of group membership changes on scent marking in a wild population of Verreaux's sifaka (<i>Propithecus verreauxi</i>)
Katherine Lawson	Doctoral Student	SUNY College of Environmental Science and Forestry	Impact of marine invertebrate species richness on community valuation of ecosystem services in Fiji
Nina Naghshineh	Doctoral Student	Fordham University	Engineering mitochondrial function as a therapeutic strategy to treat retinal diseases
Phoebe Koenig	Masters Student	Cornell University	Investigating an Optimal Defense Hypothesis for Ants
Siyu He	Doctoral Student	Columbia University	Biomedical Engineering

North Carolina			
Name	Education Status	Institution	Study Title
David De La Mater	Doctoral Student	Duke University	Eating at a snail's pace: indirect effects of climate change on salt marshes
Jack Simmons	Masters Student	University of North Carolina at Wilmington	Evaluating exotic vs. endemic paleogeographic models for Late Jurassic terranes in the western Sierra Nevada, California
Jacob Harrison	Doctoral Student	Duke University	The effect of rearing density on weapon size and strike kinematics in the big claw snapping shrimp, <i>Alpheus heterochaelis</i>
Jake Nash	Doctoral Student	Duke University	Just the sum of its parts? Testing Read's Rule on a dual-mycorrhizal host using meta-transcriptomics
Joseph Taylor	Masters Student	Western Carolina University	Elucidating the Role of an Armadillo Repeat Motif Protein 7 (ARMC7) in Splicing of Minor U12-Type Introns
Katie Gorman	Doctoral Student	North Carolina State University	Evaluation of Urban Land Cover and Affluence on the Biodiversity of Ground Nesting Bees

North Carolina (cont.)			
Name	Education Status	Institution	Study Title
Matthew Jenkins	Masters Student	I North Carolina State University	Light up the darkness: artificial light at night and diel behavioral patterns in a stream fish
Owen Ryerson	Undergraduate Student	I University of North Carolina at Chapel Hill	Quantifying permanent deformation above the southern Cascadia subduction zone

North Dakota			
Name	Education Status	Institution	Study Title
Lydia Catherine Olson Nixon	Doctoral Student	I North Dakota State University	Perceptions of bats among American college students during the novel coronavirus (SARS-CoV-2) pandemic

Ohio			
Name	Education Status	Institution	Study Title
Cameron Gardner	Doctoral Student	Miami University Ohio	Altered Activation of Social Brain Network After Maternal Transfer of Indoor Flame Retardant Toxicants
Danielle Jones	Doctoral Student	Kent State University	A comparative analysis of monoamine oxidase-B expression in human, chimpanzee, and macaque brains throughout the lifespan
Eileen Wyza	Doctoral Student	Ohio University	Examining Introgression of Wolf and Dog DNA in Ohio's Coyotes
Gabriella Rapp	Undergraduate Student	Miami University Ohio	Uncovering the molecular signatures that drive cell cycle dynamics during newt lens regeneration
Marissa Dyck	Doctoral Student	Ohio University	Effect of prey availability on bobcat and coyote co-occurrence
Tze-Gang Hsu	Doctoral Student	University of Akron	Mechanochemically-Triggered Depolymerizable Polymer

Oklahoma			
Name	Education Status	Institution	Study Title
Amanda Somers	Masters Student	I Oklahoma State University	An Investigation Of Habituation, Pseudoconditioning, and Alpha Conditioning in Tardigrades Before and After Anhydrobiosis
Katherine Slenker	Masters Student	Oklahoma State University	Investigating the Presence of the Carotid Rete in Carnivorans

Oregon			
Name	Education Status	Institution	Study Title
Malcolm Peavy	Undergraduate Student	Portland State University	Vitamin D exploration of the mTOR pathway in Austrofundulus Limnaeus

Pennsylvania			
Name	Education Status	Institution	Study Title
Hannah Peterson	Masters Student	Pennsylvania State University	Effects of Abiotic Stress on Plant-Insect-Microbe Interactions
Lily Day	Undergraduate Student	Villanova University	Influence of male song on extra-pair paternity within a songbird hybrid zone
Michael Silverstein	Doctoral Student	Villanova University	Investigating the influence of achromatic plumage brightness on extra- pair paternity in hybridizing chickadees
Tiffany Betras	Doctoral Student	University of Pittsburgh	Soil feedbacks as a mechanism underlying exotic plant invasions in riparian forests: using mesocosms to evaluate plant-soil feedbacks
Zara Zimmer	Undergraduate Student	Villanova University	Investigating the influence of achromatic plumage brightness on extra- pair paternity in hybridizing chickadees

Texas			
Name	Education Status	Institution	Study Title
Antonio Meza	Masters Student	Sam Houston State University	Effects of Cephalic Compression on the Amphisbaenian Skull
Austin Biddy	Masters Student	Texas Tech University	Can species distribution models identify genetic isolation? A case study examining genomic structure of a high-altitude, stream-specialist damselfly (Canyon Rubyspot, Hetaerina vulnerata) across "sky islands" in Arizona, New Mexico, and Utah
Jordan Salomon	Doctoral Student	Texas A&M University-College Station	Does the <i>Trypanosoma cruzi</i> parasite manipulate triatomine foraging behavior?
Xiao Lin	Doctoral Student	University of Houston	Characterization of Hyaluronan Clusters in Mouse and Human Corneas

Texas (cont.)			
Name	Education Status	Institution	Study Title
Zander Perelman	Masters Student	I Sam Houston State University	Spatial Ecology of The Eastern Massasauga Rattlesnake (Sistrurus catenatus) Within a Restored Habitat Site in Western Pennsylvania
Zoe Ruben	Masters Student	Texas A&M University-Corpus Christi	Corals in crisis: how temperature and nutrient fluctuations affect physiological responses of corals and their microbiome in Kāne'ohe Bay, Hawai'i

Utah			
Name	Education Status	Institution	Study Title
			Microbial Facilitation of Floral Exploitation in a Subalpine Pollination
Valerie Martin	Doctoral Student	Utah State University	Mutualism

Vermont			
Name	Education Status	Institution	Study Title
Lilly Carroll	Undergraduate Student	University of Vermont	WNS study
			A Method for Phosphorus–Element Bond Formation via Catalytic
Matthew Reuter	Doctoral Student	University of Vermont	Phosphinidene Transfer

Virginia			
Name	Education Status	Institution	Study Title
Alexis Reece	Undergraduate Student	College of William and Mary	Effects of Hybridization on Larval Cloning in Keystone Sea Star Species
Eniola Afolayan	Doctoral Student	University of Virginia	Temporalizing Power: The Co-Construction of Religious Communities at a Nigerian World Heritage Site
Joanna Reinhold	Doctoral Student	Virginia Polytechnic Institute and State University	The role of Culex territans mosquitoes in the disease ecology of frogs
Krishna Makhija	Doctoral Student	I University of Virginia	Precision Radio Instrument for Antenna Measurements (PRIAM): an external calibrator instrument for low-frequency radio telescopes.

Washington			
Name	Education Status	Institution	Study Title
Erin Keller	Doctoral Student	Washington State University	Testing underpinnings of the trade-off hypothesis of virulence
Karrin Leazer	Masters Student	Western Washington University	Microplastic leachate toxicity to mysid shrimp: analysis of molecular effects
Krista Dodd	Masters Student	Eastern Washington University	Graduate Service Appointment

Wisconsin			
Name	Education Status	Institution	Study Title
			Effects of 17beta-estradiol on ERK signaling and dendritic spine density in
Aaron Fleischer	Masters Student	University of Wisconsin-Milwaukee	the medial prefrontal cortex and associated brain regions of
			ovariectomized mice
Kayla Johnson	Doctoral Student	University of Wisconsin-Milwaukee	The Efficacy of Aerobic Exercise with Sleep Education to Reduce
Kayla Johnson	Doctoral Student	Offiversity of Wisconsin-Willwaukee	Depression and Migraine Quantity, Duration, Intensity
Patrick Monari	Doctoral Student	University of Wisconsin-Madison	The role of intranasal oxytocin in promoting adult neurogenesis and social approach in male and female California mice (<i>Peromyscus californicus</i>)

International Grant Recipents by Country

Brazil					
Name	Education Status	Institution	Study Title		
Elenice Fortes	Doctoral Student	L State University of Campinas	The role of inflorescence evolution on the evolutionary history of the Amazonian wallaba trees (<i>Eperua Aubl., Leguminosae</i>).		

Canada					
Name	Education Status	Institution	Study Title		
Franziska Albrecht	Doctoral Student	University of Western Ontario	Untold Stories of Forensic Anthropology in Latin America		
Ming Fei Li	Doctoral Student	University of Toronto	Investigating the effects of human-wildlife interactions on activity		
			patterns and sleep		

Nigeria					
Name	Education Status	Institution	Study Title		
Kazeem Salami	Masters Student	L Anmadu Bello University	Fabrication of a Novel Hyhdroxyapatite-Based Porous Ceramic Water		
			Filtration Membrane for the Removal of Toxic Heavy Metals		
Dawoud Usman	Masters Student		Investigation of angiogenesis and cell death following the administration of 5-methylcoumarin- 4β -glucoside against murine colorectal cancer.		