## GRANTS IN AID OF RESEARCH AWARDS (GIAR)

October 2023 Grant Cycle Grant Recipients by Discipline

ANTHROPOLOGY						
First Name	Last Name	Education Status	Institution	Study Title		
Lev	Kolinski	Doctoral Student	Duke University	Does Market Integration Contribute to the Burden of Cardiovascular Disease in Northeast Madagascar?		
Daniela	Trujillo	Masters Student	North Carolina State University	Diet, Inequality, and Ecological Change at the Nueva Esperanza Archaeological Site during the Late Muisca Period (11th to 17th century)		
Will	Pratt	Doctoral Student	The University of Texas at Austin	Azolla as an Indicator of Nutrient Cycling and Aquatic Conditions in the Raised Fields of the Ecuadorian Highlands		
Jessica	Wollmann*	Doctoral Student	University of Toronto	The Biomechanical Significance of the Rotational Profile of the Lower Limb		
	BEHAVIORAL ECOLOGY					
First Name	Last Name	Education Status	Institution	Study Title		
Moth	Castagna	Masters Student	Missouri State University-Springfield	Take it or Leaf it: Can Bees Learn to Use Leaf Shape to Find Flower Rewards?		
Maria	Creighton	Doctoral Student	Duke University	Influences of Social Characteristics on Foraging in a Variable Environment		
Jessica	Stamn	Doctoral Student	University of Mississippi	Understanding the Behavioral Effects of Perceived Predation Risk Across a 3- Dimensional Landscape		
CELL BIOLOGY/BIOCHEMISTRY						
First Name	Last Name	Education Status	Institution	Study Title		
Paloma	Bravo	Undergraduate Student	Carleton College	Using CellROX™ Deep Red to assess BPA's impact in reactive oxygen species production in response to injury in zebrafish		

CELL BIOLOGY/BIOCHEMISTRY (Continued)				
Heeva	Baharlou	Masters Student	University of Sydney	CD8+ T Cell Metabolic Dysregulation and its Role in Gut Barrier Dysfunction in Patients Living with HIV.
Somdeepa	Chakraborti	Doctoral Student	University of Delaware	To Investigate the Mechanism by Which Thrombospondin1 Regulates Fibrotic PCO
Abu Sayeed	Chowdhury	Doctoral Student	Boise State University	The Impact of Col $\alpha 1$ (XI) N-terminus Domain on Collagen Self-assembly Kinetics and Insights on the Molecular Interactions
Cass	Dedert	Doctoral Student	Saint Louis University	Progranulin Protects Against Hyperglycemia-induced Mitochondrial Dysfunction by Upregulating the PINK1/Parkin Mitophagy Pathway
Deepshe	Dewett	Doctoral Student	University of Massachusetts	Identification of Conserved Factors that Protect the Eye in Response to Environmental Stresses
Namratha	Ganiga	Undergraduate Student	Siddaganga Institutue of Technology	Investigation of Ferroptosis as the Mechanism of Hypothermia Induced Cell Death and Barrier Dysfunction in Cold Stored ex vivo Corneal Endothelium
Suhotro	Gorai	Doctoral Student	University of Delaware	Molecular Mechanisms Driving Aniridia Associated Keratopathy
Preston	Hazen	Doctoral Student	Boise State University	The Effects of Deamidation on the Interactions of $\beta B2$ - and $\beta A3$ - Crystallin with Model Eye-Lens Lipid Membranes
Amaili	Karunathilaka	Doctoral Student	University of Delaware	Fetal Therapy for Morquio A Syndrome with an AAV Vector Expressing Fc- GALNS Fusion Protein
Hank	Kern	Undergraduate Student	Ohio State University	MG53 AAV Constructs as a Gene Therapy for Dysferlinopathies
Michael	Kumar	Undergraduate Student	Iowa State University	Directed Differentiation of Multipotent Retinal Progenitor Cells Using Electrical Stimulation
Madeline	Szoo	Undergraduate Student	Northeastern University	Photodynamic Therapy Induced Immunogenic Cell Death in a 3D Heterotypic Pancreatic Tumor Spheroid Model and its Potential in Enhancing Response to Anti-PD-1 Treatment
Christel	Whitehead	Doctoral Student	University of Alabama at Birmingham	Explorations of Myoglianin's Role in Regulating Larval Growth in <i>M. sexa</i>

CHEMISTRY					
First Name	Last Name	Education Status	Institution	Study Title	
Grace	Bennett	Undergraduate Student	Georgia Southern University	Exploring Mechanism of Inhibition of FDA-Approved Drugs and Derivatives on PRL3	
Erika	Lopez Lara	Doctoral Student	University of California-Los Angeles	Sustainable, Edible, And Cost-Effective Legume-Based Composite Scaffold For Hybrid Cultivated Meat	
			CLIMATE SCIENCE		
First Name	Last Name	Education Status	Institution	Study Title	
Victoria	Roper	Doctoral Student	Oklahoma State University	Impact of Heat Stress on the Developing Microbiome and Physiology of Nestling Songbirds	
CONSERVATION BIOLOGY					
First Name	Last Name	Education Status	Institution	Study Title	
David	Adams	Undergraduate Student	University of Central Arkansas	Quantifying the Thermal Landscape of a Locally Imperiled Lizard	
Reilly	Hammond	Masters Student	Arizona State University-Tempe	Contagious Cancer, Crotenoids, and Coloration in Sea Turtles	
Colin	Peterson	Doctoral Student	University of Georgia	Conserving Threatened Waterbirds in Madagascar: Leveraging Rice Fields for Environmental and Economic Development Win-wins	
ECOLOGY					
First Name	Last Name	Education Status	Institution	Study Title	
Daphne	Bloom	Doctoral Student	University of Pennsylvania	Non-structural Carbohydrates and their Effects on Reforested Ponderosa Pine Seedlings' Water Relations, Growth, and Survival	
Cindy	Fajardo	Masters Student	California State University-Northridge	Assessing the Direct Effects of Aerial and Oceanic Temperature Variability on Lottia gigantea Grazing, Growth, and Metabolism and the Indirect Effects on Local Biodiversity	

ECOLOGY (Continued)					
Jonathan	Juarez	Masters Student	California State University-Bakersfield	Invasive Ailanthus altissima Leaf Decomposition in Freshwater Ecosystems and Impacts on Macroinvertebrate Communities	
Monica	Lasky	Doctoral Student	University of Florida	Does Diet Partitioning Among African Herbivores Drive Species Coexistence?	
Rebecca	Linhart	Doctoral Student	University of Rhode Island	Birds and Blades: Assessing the Cumulative Effect of Offshore Wind Development on Shorebirds Across the Atlantic Flyway	
Prasanth	Prakash Prabhu	Doctoral Student	Clark University	Evaluating the Genetics of Nematode-trapping in the Wood-decaying Mushroom Hohenbuehelia mastrucata	
Isabella	Vahle	Masters Student	Kennesaw State University	Effects of Dominant Herbaceous Species Removal and Prescribed Fire on the Soil Bacterial Microbiome in a Restoration Site for Longleaf Pine	
Martha	Young	Undergraduate Student	College of William and Mary	Switching Reproductive Modes in the Freshwater Jellyfish, Craspedacusta sowerbii	
	·	·	ENGINEERING		
First Name	Last Name	Education Status	Institution	Study Title	
Alexander	Novokhodko	Doctoral Student	University of Washington-Seattle Campus	Nitrite and Nitrate Removal by Novel Liver Support System	
Olajesu	Olanrewaju	Doctoral Student	Iowa State University	Investigating Non-Schmid Behavior in Tantalum at the Extremes for Aerospace Applications	
GEOSCIENCES					
First Name	Last Name	Education Status	Institution	Study Title	
Prince	Akonde	Masters Student	University of North Carolina at Wilmington	Sources of Arsenic in Groundwater, Porewater and Surface Waters in Matagorda- Galveston Bay Watershed in Texas	

	GEOSCIENCES (Continued)					
Denali	Kincaid	Doctoral Student	Pennsylvania State University-Main Campus	Effects of Deglaciation on Mantle and Magma Transport Processes: A PUB Perspective		
			PHYSICS/ASTRONON	IY		
First Name	Last Name	Education Status	Institution	Study Title		
Natalie	Myers	Doctoral Student	Texas Christian University	Deriving Abundances for Heavy Elements in Distant Open Clusters		
Nora	Wagner	Undergraduate Student	St. Lawrence University	Examining Static Magnetic Field Orientation Effects on HT22 Cellular Proliferation		
	PHYSIOLOGY/FUNCTIONAL MORPHOLOGY					
First Name	Last Name	Education Status	Institution	Study Title		
Destiny	Etuk	Masters Student	Governors State University	Plastic Eating Wax Worms: Hope for Bioremediation		
Jerrica	Jameson*	Doctoral Student	University of Tronto at Scarborough	Flight Metabolism in Neotropical Nectivorous Bats		
Angela	Jones	Doctoral Student	Northeastern University	Armored Asteroids: Surface Complexity, Oxygen Consumption, and Keystone Efficacy of Sea Stars in Varying Environmental Conditions		
Brynleigh	Payne	Undergraduate Student	Auburn University	Sequencing Sex Chromosome Telomeres to Quantify Sex-specific Aging in the Wild		
Saranya	Srikanthan*	Undergraduate Student	McMaster University	A Review of Hamilton Health Sciences Radical Trachelectomy Cases and a Qualitative Study of the Information Needs of Patients who have Undergone Radical Trachelectomy		
Tin Long	Yiu	Doctoral Student	Oregon Health & Science University	The Role of Cerebellar Climbing Fibers in Sensory Discrimination		

	PSYCHOLOGY					
First Name	Last Name	Education Status	Institution	Study Title		
Zachary	Gemelli	Doctoral Student	University of Wisconsin- Milwaukee	Electrophysiological Dynamics of Proactive and Reactive Cognitive Control and their Association with Heterogeneous OCD Symptoms		
Ethan	Wong	Undergraduate Student	Northeastern University	Development of a Digitized Neurophysiological Task for Neurocognitive Assessment in Mild Traumatic Brain Injury		
	SYSTEMATICS/EVOLUTIONARY BIOLOGY					
First Name	Last Name	Education Status	Institution	Study Title		
Tucker	Heptinstall	Masters Student	Clemson University	Using Genomics to Understand Adaptation to Climate in a Model Ectothermic Species		
Matthew	McTernan	Doctoral Student	Clemson University	Venom Complexity within Garter Snakes and the Role of Diet in Toxin Diversification		

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