

Grants in Aid of Research Awards - October 2022 Grant Cycle
Grant Recipients by Discipline

Anthropology				
First Name	Last Name	Education Status	Institution	Study Title
Henna	Bhramdat	Doctoral Student	University of Florida	The osteological response to mechanical load at soft-hard tissue junctions
Audrey	Choi	Doctoral Student	New York University	Timing of intraspecific changes in macaque cranial morphology
Leela	McKinnon	Doctoral Student	University of Toronto	Urban Migration and Sleep Health among Indigenous Wixárika of Jalisco, Mexico
Ceara	Nicholson	Masters Student	East Carolina University	Sex-based differences of mortality and metabolic disease in subadult skeletal assemblages
Aidan	Paul	Masters Student	North Carolina State University	An Archaeological History of Forbush Creek and the Mississippian-Piedmont Village Tradition Frontier
Shannon	Roivas	Doctoral Student	Arizona State University-Tempe	Chimpanzee responses to variation in feeding habitat quality
Lauren	Wiseman-Jones	Doctoral Student	North Carolina State University	The physiological and behavioral responses of wild mountain gorillas (<i>Gorilla beringei beringei</i>) to social and anthropogenic stressors

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Behavioral Ecology				
First Name	Last Name	Education Status	Institution	Study Title
Chloe	Goodsell	Undergraduate Student	College of William and Mary	Ingestive Conditioning in the Keystone Oyster Predator, <i>Stylochus ellipticus</i>
Rutvij	Kulkarni	Doctoral Student	Indian Institute of Science	Exploring the ontogeny of adult social traits in <i>Drosophila melanogaster</i>
Florence	Landry	Doctoral Student	Université de Montréal	Can infant morbidity and mortality pattern be influenced by infant nutritional development? The case of wild baboons (<i>Papio anubis</i>)
Lisa	Surber	Doctoral Student	University of Illinois at Urbana-Champaign	Phenotypic plasticity and neural mechanisms of juvenile aggression
Jana	Woerner	Doctoral Student	Michigan State University	Collective Action: Group Hunting in a Social Carnivore

Cell Biology/Biochemistry				
First Name	Last Name	Education Status	Institution	Study Title
Mahmoud	Alhomouz	Doctoral Student	University of Houston	Retinoic Acid Pathway as a Regulator of <i>Xenopus laevis</i> Astroglial Development.

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Cell Biology/Biochemistry (cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Sulaiman Mohammed S	Alshehri	Masters Student	University of Wisconsin-Milwaukee	Targeting Ocular Chlamydial Infections with Photodynamic Inactivation (PDI)
Amrita	Barua	Doctoral Student	University of Houston	Elucidating the mechanistic role of TDRD1 in the regulation of CXCL10 and CXCL11
Cass	Dedert	Doctoral Student	Saint Louis University	GSK3 β 's role in progranulin's autophagy-modulating mechanism of action under hyperglycemic stress
Grace	Emin	Masters Student	University of Delaware	Transgelin regulates lens epithelial contractile properties during Posterior Capsular Opacification
Xing	Fang	Doctoral Student	University of Mississippi Medical Center	Role of Piezo1 on the Regulation of Cerebral Blood Flow in Alzheimer's Disease
Colton	Gschwandtner	Undergraduate Student	Northern Michigan University	Elucidating the Molecular Mechanism of Cannabinoid-Induced Autophagy in MIN6 Cells

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Cell Biology/Biochemistry (cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Yasmeen	Hassan	Undergraduate Student	Oakland University	Cellular mechanisms of spontaneous retinal wave directional bias in neonatal mice
Gwendalyn	Krekeler	Doctoral Student	Saint Louis University	Glutathione synthesis in GBS on the adult immune system's response to a GBS infection
Tiffany	Le	Undergraduate Student	University of California-San Diego	Converting Classic Allostery Into Ligand-Regulated Misfolding
Roxanne	McPeck	Masters Student	Eastern Washington University	Identifying Helicobacter pylori genes regulated by small regulatory RNAs
Norhan	Mohammed	Doctoral Student	Florida International University	The metastasis-suppressive function of intracellular galectin-3 in melanoma
Harrison	Ngue	Undergraduate Student	Harvard University	Characterizing circular RNA species in Extracellular Vesicles that Promote Breast Cancer Chemotherapy Resistance

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Cell Biology/Biochemistry (cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Nadine	Nijem	Doctoral Student	University of Houston	Elucidating the role of Chd8 functional domains in the context of ASD
Alexandra	Nolletti	Undergraduate Student	University of Kentucky	Using Phosphatidylinositol Phosphate (PIP) Lipid Transfer Assays to Understand Insulin-Degrading Enzyme (IDE) Lipid Transfer Function
Caitlin	Schneider	Undergraduate Student	Oakland University	Identifying the Mechanistic Link between Impaired CytoskeletalRearrangement and Decreased Platelet Function in Mice with a Novel Actr2 Gene Variant
Noah	Souza	Doctoral Student	Boise State University	Proteomics of AB5 Toxins for a Pentameric Vaccine Platform
Catherine	Sword	Undergraduate Student	James Madison University	Using Decellularized Plant Scaffolds to Study Chondrocyte Proliferation and Differentiation as a Function of 3D Environment

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Cell Biology/Biochemistry (cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Fareeha	Syeda	Undergraduate Student	University of Massachusetts-Boston	Exploration of the developmental role of a novel membrane protein that stabilizes damaged photoreceptors
Stephanie	Tuft	Doctoral Student	Boise State University	Conjunctival Fibrosis Therapy, LncRNAs as miRNA Sponge

Chemistry				
First Name	Last Name	Education Status	Institution	Study Title
Madison	Anonick	Doctoral Student	University of Delaware	Synthesis and of m-DAP containing Peptidoglycan Fragments
Daniel	Reddy	Doctoral Student	Queens University-Kingston	Nanoliter-Sampling and a Volumetric Absorptive Microsampling (VAMS)-like Device for Newborn Bilirubin Screening Using Liquid Microjunction Surface Sampling Probe – Mass Spectrometry

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Climate Science				
First Name	Last Name	Education Status	Institution	Study Title
Jordan	Manns	Undergraduate Student	St Mary's College of Maryland	Effects of salt intrusion in the symbiotic association between an iconic coastal forest tree and arbuscular mycorrhizal fungi

Computer Science/Mathematics				
First Name	Last Name	Education Status	Institution	Study Title
Laurel	Heck	Doctoral Student	University of Washington-Seattle Campus	Discrepancy Theory in the Hungarian Tradition

Conservation Biology				
First Name	Last Name	Education Status	Institution	Study Title
Debora	Gilles	Doctoral Student	Consejo Nacional de Investigaciones Cientificas y Tecnicas	“Effects of habitat degradation on social interactions and sexual dispersal in <i>Alouatta caraya</i> females”

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Conservation Biology (cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Declan	O'Sullivan	Masters Student	Indiana University of Pennsylvania-Main Campus	Characterizing Appalachian Cottontail population genetic dynamics across Pennsylvania state managed lands
Lauren	Pharr	Doctoral Student	Washington University in St Louis	Does Phenological Mismatch cause Brood Reduction in the Federally Endangered Red-Cockaded Woodpecker?
Susan	Reed	Masters Student	Indiana University-Bloomington	Carryover Effects and Annual Cycle Timing in a Common Songbird

Ecology				
First Name	Last Name	Education Status	Institution	Study Title
Sarah	Black	Doctoral Student	Wayne State University	Heavy metal contamination in urban farms: the combined effects of atmospheric deposition and heat-stress
Ella	DiPetto	Doctoral Student	Old Dominion University	How Far Under? Increasing the Effectiveness of Oyster-based Living Shorelines for Coastal Protection

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Ecology(cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Cassandra	Durden	Masters Student	Texas A & M University- College Station	Do wild mammals maintain SARS-CoV-2 infection in a recreational national forest?
Brooke	Fitzwater	Doctoral Student	The University of Alabama	Parasite-mediated effects on outcrossing in a mangrove fish
Morgan	Fleming	Doctoral Student	The University of Tennessee-Knoxville	Effects of Climate Change on the Body Size of Salamanders
Danielle	Galvin	Doctoral Student	University of South Dakota	Investigating tradeoffs between amphibian development, immune defenses, and toxin management
Diego	Gomez	Undergraduate Student	Christian Brothers University	Extractions and sequencing of fecal matter from Canada Geese for pathogenic and zoonotic bacteria
Lukas	Magee	Doctoral Student	University of Florida	Conspecific density dependent decay in temperate forests: filling in the gaps

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Ecology(cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Nicholas	Miklave	Doctoral Student	University of Louisiana at Lafayette	Developing Hydrogel Substrates for Plant Growth in Space
Anya	Mueller	Undergraduate Student	McGill University	The spatial and temporal variation in eggshell microbiota across and within species and its effect on host fitness
Angela	Saenz	Doctoral Student	University of Maryland-College Park	Phenological synchrony of the emerald ash borer (EAB) with its larval parasitoids
Melanie	Torres	Doctoral Student	University of Wyoming	Near, Far, Wherever You Are: Assessing how rarity predicts niche breadth and functional connectivity on several spatial scales in the context of disease
Tabor	Whitney	Doctoral Student	Northwestern University	Using non-invasive biomarkers to understand the impact of habitat degradation on the welfare of Mexican mantled howler monkeys in Los Tuxtlas, Mexico

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Ecology(cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Hannah	Wojtysiak	Masters Student	Texas Tech University	Identifying multiscale factors associated with rarity in <i>Somatochlora calverti</i> : Are we to blame?
Yuguo	Yang	Doctoral Student	University of Nebraska-Lincoln	Using a novel split-root system developed for grasses to study fundamental trade-offs in rooting strategies and allocation to arbuscular mycorrhizae

Engineering				
First Name	Last Name	Education Status	Institution	Study Title
Mumukom Maximus	Anchang	Doctoral Student	University of Nigeria	Food Engineering and Processing
Riordan	Correll-Brown	Undergraduate Student	University of Maryland-College Park	Reducing the Environmental Impact of Silicon Photovoltaic Recycling
Andre	Guerra	Doctoral Student	McGill University	An integrated computational and experimental platform for beta-lactoglobulin amyloid fibrils molecular simulations

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Engineering(cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Yanlin	Lei	Doctoral Student	University of Illinois at Urbana-Champaign	Nanoencapsulation of probiotics using zein and inulin nanoparticles
Ketki	Lichade	Doctoral Student	University of Illinois at Chicago	Additive Manufacturing of Smart Surfaces with Programmable Properties
Xilal	Rima	Doctoral Student	Ohio State University-Main Campus	Investigating the molecular characteristics of dormant invasive lobular carcinoma cells
Ryan	Wang	Undergraduate Student	Rice University	Noninvasive Multiplexed Gene Delivery to the Brain

Geosciences				
First Name	Last Name	Education Status	Institution	Study Title
Riley	Barton	Doctoral Student	Rensselaer Polytechnic Institute	Assessing the impact of naturally-produced benzenepolycarboxylic acids (BPCAs) on the quantification of dissolved black carbon
Ruby	Patterson	Doctoral Student	University of Houston	Silica Investigations of Prestahnúkur Volcano, Iceland: Analog for Gale Crater, Mars

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Physics/Astronomy				
First Name	Last Name	Education Status	Institution	Study Title
Tai-Jan	Huang	Doctoral Student	Purdue University-Main Campus	In situ 3D Mechanical Behavior Study on Chondrite Meteorite
Alan	Rowland	Doctoral Student	Clemson University	Investigation of Nitrogen-doped Polymers for their in Lithium-Sulfur Cathodes

Physiology/Functional Morphology				
First Name	Last Name	Education Status	Institution	Study Title
Josie	Beasley	Undergraduate Student	California Polytechnic State University-San Luis Obispo	Examining How Exercise in Young and Old Mice Influences Gut Permeability
Jennifer	Chang-Wolf	Doctoral Student	Duke University	Cataract Home Online Refraction US
Sean	Farmer	Masters Student	University of Colorado Boulder	Demystifying the Paradoxical Rarity of the Common Garter Snake (<i>Thamnophis sirtalis</i>) in Southern California
Marlo	McCarter	Doctoral Student	University of California-Irvine	Mechanical Properties of Tiger Beetle Antennae (<i>Cicindela hirticollis</i> and <i>Omus californicus</i>)

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Physiology/Functional Morphology(cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Jackson	Phillips	Doctoral Student	Utah State University	Respiratory ecophysiology of South African tadpoles in response to oxygen stress
Prachi	Wele	Doctoral Student	Miami University-Oxford	Sex-dependent differences in obesity-induced colorectal cancer

Psychology				
First Name	Last Name	Education Status	Institution	Study Title
Evan	Hancock	Undergraduate Student	Kansas State University	Examining Ideal Communicators of Climate Change Information
Elana	Israel	Doctoral Student	Binghamton University	Neural Indices of Interpretation Bias in Adults with Depression
Soroush	Mirjalili	Doctoral Student	The University of Texas at Austin	Investigating Episodic memory as a multi-dimensional cognitive process
Tia	Williams	Undergraduate Student	Caldwell University	Impostor Syndrome within Minority College Students: Does having a Fixed Mindset vs a Growth Mindset Impact Impostor Syndrome?

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Psychology(cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Harun	Yoruk	Doctoral Student	University of Houston	Using the Spatial and Attentional Resolution to Test Accounts of Visual Working Memory

Systematics/ Evolutionary Biology				
First Name	Last Name	Education Status	Institution	Study Title
Jacob	Botello	Doctoral Student	Auburn University	The Influence of MitoNuclear Interactions on the Maintenance of Additive Genetic Variance
Gongyuan	Cao	Doctoral Student	Duke University	Investigating mechanisms of evolutionary novelty via gene duplication using ancestral protein resurrection
Prothama	Manna	Doctoral Student	Ohio University-Main Campus	Revisiting the invasion conundrum using hippos' introduction in Colombia as a case study

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Systematics/ Evolutionary Biology (cont.)				
First Name	Last Name	Education Status	Institution	Study Title
Katherine	Martin	Doctoral Student	University of Central Florida	The more things change the more they stay the same? Investigating whether chromosomally translocated MHC immune genes evolve differently than classic MHC loci
Aaron	Stewart	Masters Student	University of South Alabama	What's on the Menu? Testing the Role of Diet Breadth on Venom Complexity