

**Grants-in-Aid of Research Awards**  
**October 15, 2014 Grant Cycle**

Alphabetical by Location and Institution

<b>Recipient's Name</b>	<b>Field of Research</b>	<b>Location: Institution</b>	<b>Study Title</b>
<b>Matthew Warren</b>	Physiology/Functional Morphology	Alabama: Auburn University	Dietary protein effects on milk metagenome in lactating rats
<b>William James</b>	Ecology	Alabama: University of Alabama at Birmingham	An investigation into the developmental response of two ecomorphs of the amphipod <i>Hyalella azteca</i> to varying levels of predation risk
<b>Phillip Pearson</b>	Ecology	Alabama: University of Alabama at Birmingham	Do seasonal changes in developmental temperature have season-specific fitness consequences in a lizard?
<b>Himel Mallick</b>	Computer Science/Mathematics	Alabama: University of Alabama at Birmingham	Effectively Selection A Target Population For A Future Clinical Trial
<b>Jay Bhatt</b>	Cell Biology/Biochemistry	Alabama: University of Alabama at Birmingham	Molecular mechanisms regulating vesicle formation for protein transport
<b>Jonathan Flores</b>	Systematics/Evolutionary Biology	Argentina: Universidad de Buenos Aires	Diversity and distribution of sea urchins from deep-waters of the Argentinean continental slope and submarine canyons
<b>Pierce Hutton</b>	Behavioral Ecology	Arizona: Arizona State University	A field comparison of sleep architecture along a desert urban/rural gradient in the house finch ( <i>Haemorrhous mexicanus</i> )
<b>Jacob McLane</b>	Physics/Astronomy	Arizona: Northern Arizona University	Searching for the Youngest Exoplanets: An Infrared Survey of the Taurus-Aurgia Star Formation Regions
<b>Robert Fournier</b>	Ecology	Arkansas: University of Arkansas at Fayetteville	Biological Responses of Stream Communities to Compounded Stressors: The Convergence of Drought and Novel Predation
<b>Cory Elowe</b>	Cell Biology/Biochemistry	California: California Polytechnic State University San Luis Obispo	Circadian and circatidal rhythms of protein expression in the California Mussel ( <i>Mytilus californianus</i> )

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<b>Allison Bieda</b>	Petrology/Geochemistry	California: California State University-Fullerton	The Nature of Carbon Isotope Covariation in Neoproterozoic to Cambrian Strata of Sonora, Mexico
<b>Elizabeth Hunt</b>	Ecology	California: California State University-Long Beach	RECENT THERMAL HISTORY DETERMINES MICROALGAL RESPONSE TO ACUTE TEMPERATURE STRESS ON ROCKY SHORES
<b>Stacey Virtue</b>	Ecology	California: California State University-Northridge	Bay Pipefish Abundance, Distribution, and Ecological Function in Southern California Seagrass Beds
<b>Hali Rederer</b>	Ecology	California: California State University-Sacramento	Does Tomales Bay Pacific Herring ( <i>Clupea pallasii</i> ) Prefer Eelgrass ( <i>Zostera marina</i> ) for Spawning? What does Eelgrass really do for Pacific Herring and do Predators Gain an Advantage When Eelgrass Populations are Diminish
<b>Christina Varian</b>	Ecology	California: Humboldt State University	Influences of food web dynamics on Chagas disease transmission in Central America
<b>Joanmarie Del Vecchio</b>	Hydrology/Geomorphology	California: Pomona College	Distinguishing between climatic and tectonic control on valley aggradation in the eastern San Gabriel Mountains, CA
<b>John Swenson</b>	Systematics/Evolutionary Biology	California: San Francisco State University	Variation in Hox expression patterns among the cephalic lobes of myliobatid stingrays
<b>Prahlada Papper</b>	Ecology	California: University of California-Berkeley	Using morphometric and molecular markers to establish rates and patterns of introgression in Oregon white oak ( <i>Quercus garryana</i> ) and blue oak ( <i>Quercus douglasii</i> )

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<b>Nicholas DiRienzo</b>	Behavioral Ecology	California: University of California-Davis	Early experience and its influence on adult personality in the western black widow, <i>Latrodectus hesperus</i>
<b>Hannah Schacter</b>	Psychology	California: University of California-Los Angeles	Facebooking Without Filter: The Effect of Online Disclosures on Bystander Reactions to Cyberbullying
<b>Mark Phuong</b>	Systematics/Evolutionary Biology	California: University of California-Los Angeles	Evolvability and diversification: testing macroevolutionary predictions in cone snails
<b>Alison Phagan</b>	Anthropology	California: University of California-San Diego	Neanderthal Occupation of Kebara Cave, Mt. Carmel, Israel: The Paleoecology
<b>Annika Nabors</b>	Ecology	California: University of California-San Diego	To what extent do introduced honey bees ( <i>Apis mellifera</i> ) contribute to the pollination and reproductive success of California native plants?
<b>Nicholai Hensley</b>	Systematics/Evolutionary Biology	California: University of California-Santa Barbara	The Molecular Basis of Bioluminescent Mating Signals in Ostracods (Crustacea)
<b>Christopher Law</b>	Physiology/Functional Morphology	California: University of California-Santa Cruz	Using Functional Morphology to Elucidate Patterns of Tool-Use & Dietary Specialization in Sea Otters
<b>Jillian Gerberich</b>	Ecology	Colorado: Colorado State University	Assessing Fitness Costs and Benefits of Dispersal in Wild Populations
<b>Theresa Barosh</b>	Ecology	Colorado: Colorado State University	Photosynthesis in Herbivory and Plant-Mediated Indirect Interactions
<b>Emily Robitschek</b>	Cell Biology/Biochemistry	Colorado: Colorado State University	Characterizing the expression and role of Nanog transcription factor on neoplastic tumor immunology
<b>James Hassell</b>	Psychology	Colorado: University of Colorado at Boulder	Serotonergic influences on anxiety and panic-like behavior

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<b>Alexander Brittingham</b>	Anthropology	Connecticut: University of Connecticut	The Effect of Heating on Stable Oxygen and Carbon Isotopes in Tooth Enamel
<b>Susannah Betts</b>	Physics/Astronomy	Connecticut: Wesleyan University, Connecticut	Spectroscopy of Laser-Induced Plasma in Hydrogen and H <sub>2</sub> O
<b>Waldan Kwong</b>	Systematics/Evolutionary Biology	Connecticut: Yale University	Evolution of the honey bee gut microbiome
<b>Jason Young</b>	Computer Science/Mathematics	Connecticut: Yale University	Validation of a Smartphone Goniometer for Measuring Shoulder Range of Motion
<b>Prathamesh Kharkar</b>	Chemistry	Delaware: University of Delaware	Degradable hydrogel based drug carriers for breast cancer treatment
<b>Theodore Picou</b>	Cell Biology/Biochemistry	District of Columbia: Georgetown University	Understanding the role of ventral flagella beat frequencies in <i>Giardia lamblia</i> 's hydrodynamic attachment mechanism
<b>Sweta Batni</b>	Cell Biology/Biochemistry	District of Columbia: Georgetown University	Using Surface Plasmon Resonance (SPR) to Identify Potential Novel Chemotherapeutics Targeting Methyltransferase Enzymes in <i>Giardia lamblia</i>
<b>Christopher Bridgeman</b>	Conservation Biology	Florida: Florida Institute of Technology	Sequestration of Excess Nutrients in the Indian River Lagoon through the use of Bio-platforms
<b>Johanset Orihuela</b>	Paleontology/Sedimentation	Florida: Florida International University	Radiocarbon Chronology of an Exceptionally Fossil-Rich Cave Deposit in Western Cuba
<b>Daniel Merselis</b>	Ecology	Florida: Florida International University	Intelligent Selection: Adaptive Coral Restoration for the Anthropocene
<b>Ashley Sharpe</b>	Anthropology	Florida: University of Florida	Identifying Animal Resource Exchange at the Onset of Maya State Formation
<b>Jacob Landis</b>	Systematics/Evolutionary Biology	Florida: University of Florida	The cellular component of flower size differences in <i>Saltugilia</i> (Polemoniaceae).

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<b>Wei Wu</b>	Cell Biology/Biochemistry	Florida: University of Miami	Identification and functionally characterization of Dishevelled interacting protein in the sea urchin <i>Strongylocentrotus purpuratus</i>
<b>Pranav Kalelkar</b>	Chemistry	Georgia: Georgia Institute of Technology	Functional poly(lactic acid)s for bone tissue engineering
<b>Stephen Estes</b>	Cell Biology/Biochemistry	Georgia: Georgia State University	A novel role for carbon monoxide in development: the cloning and functional expression of <i>Helisoma</i> heme oxygenase
<b>Mauricio Seguel</b>	Conservation Biology	Georgia: University of Georgia	Characterization of the Immune response of South American fur seal ( <i>Arctocephalus australis</i> ) pups to hookworm ( <i>Uncinaria</i> sp) infection.
<b>John Spiekerman</b>	Physiology/Functional Morphology	Georgia: University of Georgia	IAA28: the missing link between the plant hormone auxin and wood formation
<b>Kelsie Decker-Pulice</b>	Cell Biology/Biochemistry	Georgia: University of West Georgia	A Study of Cellular Communication During the Inflammatory Response to Herpes Simplex Virus Type-1 Infection of the Cornea.
<b>Jeremy Munnings</b>	Physiology/Functional Morphology	Georgia: Valdosta State University	Characterizing the Physiological Mechanisms of Tolerance to <i>Cercospora arachidicola</i> in Peanut
<b>Carrie Soo Hoo</b>	Conservation Biology	Hawaii: University of Hawaii at Hilo	Delta 15N as a Proxy for Sewage Nutrient Enrichment in Puako, Hawaii Island, USA
<b>Hannah Scott</b>	Cell Biology/Biochemistry	Idaho: Boise State University	Oncostatin M-induced CD44 expression in metastatic prostate cancer
<b>Neha Misra</b>	Cell Biology/Biochemistry	Idaho: Boise State University	Multivalent vaccine for <i>Staphylococcus aureus</i> bovine mastitis
<b>Nisha Shrestha</b>	Cell Biology/Biochemistry	Idaho: Boise State University	Controlled drug release from liposomes via regulated lysenin channels

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<b>Sarah Urbas</b>	Anthropology	Illinois: Benedictine University	A Geometric Morphometric Study of Hominin Mandibular Variation Related to Tongue and Vocal Tract Morphology
<b>Grace Malato</b>	Ecology	Illinois: DePaul University	Speciation, gene flow, and morphometric variation in the genus Rhoadsia (Teleostei: Characidae: Rhoadsiinae) along an altitudinal gradient
<b>Jessamine Finch</b>	Ecology	Illinois: Northwestern University	Untapped restoration potential: are city plants pre-adapted to climate change?
<b>Hayden Pehl</b>	Ecology	Illinois: Rockford University	Prevalence of <i>Borrelia burgdorferi</i> among non-Peromyscine rodents in prairie habitats
<b>Alexander Shepack</b>	Ecology	Illinois: Southern Illinois University-Carbondale	Rebounding amphibian populations amidst continued pathogen presence
<b>David Reid</b>	Anthropology	Illinois: University of Illinois at Chicago	The Callanga Site: Dating a Lost Prehistoric City in the Southern Andes
<b>Timothy Divoll</b>	Ecology	Indiana: Indiana State University	Can stable isotopes inform management and conservation of imperiled bat species?
<b>Kristyn Sylvia</b>	Physiology/Functional Morphology	Indiana: Indiana University - Bloomington	Effects of Early Postnatal Immune Challenge on Reproductive Development and Behavior
<b>Natalie Christian</b>	Ecology	Indiana: Indiana University - Bloomington	Why are leafmining and endophytic fungi negatively associated?
<b>Amy Geffre</b>	Behavioral Ecology	Iowa: Iowa State University	Creating Zombies: Using <i>Xenos vesparum</i> manipulation of preexisting behavioral machinery in its primitively eusocial host, <i>Polistes dominula</i> , to answer questions about genome-wide effects of parasitism.

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<b>Michael Vega</b>	Hydrology/Geomorphology	Kansas: Kansas State University	Geochemical and microbial assessment of As and Mn impaired groundwaters, Murshidabad, West Bengal, India
<b>Matthew Reid</b>	Ecology	Kentucky: University of Louisville	Do belowground tri-trophic interactions facilitate exotic plant invasion?
<b>Jordan Croy</b>	Ecology	Louisiana: Louisiana State University-Baton Rouge	Latitudinal variation in plant tolerance to herbivory between native and exotic genotypes of <i>Phragmites australis</i>
<b>Tyler Sonsalla</b>	Engineering	Louisiana: Louisiana Tech University	Effects of incorporating silica aerogel and xenon gas on convection and conduction heat losses in a novel solar thermal collector.
<b>Taylor Tarlton</b>	Physics/Astronomy	Louisiana: Louisiana Tech University	Monte Carlo Methods for Predicting Electrical Properties of CNT Composites
<b>Bradley Roberts</b>	Psychology	Maryland: St. Mary's College of Maryland	In Vivo Optogenetic Manipulations in the Dorsal Lateral Striatum in a Hemi-Parkinsonian Mouse Model
<b>Sri Pratima Nandamuri</b>	Systematics/Evolutionary Biology	Maryland: University of Maryland, College Park	Elucidating the genetic mechanisms that underlie opsin expression divergence in African Cichlids.
<b>Benjamin Gastfriend</b>	Engineering	Maryland: University of Maryland, College Park	Isotope assisted metabolic flux analysis in <i>Saccharophagus degradans</i> , a marine bacterium applicable to the production of bioplastics from cellulosic biomass
<b>Sarah Kark</b>	Psychology	Massachusetts: Boston College	Neural and autonomic contributions to the sense of "re-experiencing" emotional events
<b>Jessica Karanian</b>	Psychology	Massachusetts: Boston College	The effects of stress and repeated questioning on eyewitness memory

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<b>Kelsey Graham</b>	Behavioral Ecology	Massachusetts: Tufts University	Is the European wool-carder bee ( <i>Anthidium manicatum</i> ) a problem species?
<b>Grace Pold</b>	Ecology	Massachusetts: University of Massachusetts Amherst	Quantifying the effect of experimental soil warming on numerically rare but ecologically dominant pathways of the nitrogen cycle
<b>Ashley Stoehr</b>	Physiology/Functional Morphology	Massachusetts: University of Massachusetts Dartmouth	Temperature effects on power output and contraction kinetics of the internalized, aerobic locomotor muscle of swordfish, <i>Xiphias gladius</i>
<b>Leyuan Ma</b>	Cell Biology/Biochemistry	Massachusetts: University of Massachusetts Medical Center	Pre-clinical study of the therapeutic potential of selective PKC inhibitors in Chronic Myeloid Leukemia
<b>Devin Jones</b>	Ecology	Michigan: Grand Valley State University	Are little brown bats ingesting microcystin through <i>Hexagenia</i> ?
<b>Sarah Jones</b>	Behavioral Ecology	Michigan: Michigan State University	Androgenic mediation of aggression in a sex-role reversed species
<b>Naureen Javeed</b>	Cell Biology/Biochemistry	Minnesota: Mayo Graduate School	New Onset Diabetes for Pancreatic Cancer: A Paraneoplastic Syndrome
<b>William Nachlas</b>	Petrology/Geochemistry	Minnesota: University of Minnesota, Twin Cities	TitaniQ deformed: Experimental deformation of hydrostatically-grown quartz to track Ti diffusion during dynamic recrystallization
<b>Seval Ozkan</b>	Cell Biology/Biochemistry	Mississippi: Mississippi State University	Auxin and Defense Response to <i>Aspergillus flavus</i> in <i>Zea mays</i>
<b>Bryan Braneky</b>	Cell Biology/Biochemistry	Missouri: Saint Louis University	The Persistence of Glutathione-deficient Group B <i>Streptococcus</i> Inside Immunocompromised Mammalian Immune Cells
<b>Monica Rosen</b>	Psychology	Nebraska: University of Nebraska at Lincoln	Depth Perception in Simple 3D Environments



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<b>SURBHI SHARMA</b>	Cell Biology/Biochemistry	Nevada: University of Nevada-Las Vegas	Optimizing the pull down experiment for identifying the functions of predicted C-termini minimotifs.
<b>Margaret Jackson</b>	Hydrology/Geomorphology	New Hampshire: Dartmouth College	Glacial geology and paleoclimate in the Rwenzori Mountains, Uganda-Democratic Republic of Congo
<b>Sara Edquist</b>	Ecology	New Hampshire: University of New Hampshire	Parasites of Nereididae worm hosts in Great Bay Estuary, New Hampshire
<b>Jacqueline Leung</b>	Ecology	New Jersey: Princeton University	Within-host interactions of intestinal helminths and commensal bacteria in mice raised in semi-natural environments
<b>Zakiya Qualls</b>	Cell Biology/Biochemistry	New Jersey: Rutgers, The State University of New Jersey	Mapping of amino acid determinants regulating the directed evolution of HIV-1 Env neutralization by mAbs against gp120.
<b>Kristin Corl</b>	Anthropology	New Mexico: New Mexico State University	Subsistence Practices at Cottonwood Spring Pueblo (LA 175)
<b>Marian Hamilton</b>	Anthropology	New Mexico: University of New Mexico	Reconstructing Hominid Philopatry and Ranging Patterns through Strontium Isotopes: A Model Extant Primate Study in Kibale National Park
<b>Ariel Gaffney</b>	Physiology/Functional Morphology	New Mexico: University of New Mexico	Competitive dynamics of elevational replacement hummingbird species using simulated high-elevation environments.
<b>Aaron McCarty</b>	Anthropology	New Mexico: University of New Mexico	Life in Cooperative Communities: Stress, Social Support, and Generosity
<b>Benton Taylor</b>	Ecology	New York: Columbia University	The Importance of Nitrogen Fixation to Tropical Forest Regeneration
<b>Brian Magnier</b>	Ecology	New York: Cornell University	Human influences on diet of the American red squirrel ( <i>Tamiasciurus hudsonicus</i> ).

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<b>Camille Mangiaratti</b>	Systematics/Evolutionary Biology	New York: Cornell University	Genetic analysis of house mice as a bioproxy for tracking multinational human colonization of Alaska
<b>Benjamin Wesley</b>	Chemistry	New York: Hamilton College	Development of a Continuous Flow Reactor for Synthesis of Izidine Alkaloids
<b>Manushka Vaidya</b>	Engineering	New York: New York University	Using dielectrics to shape the electromagnetic field and improve coil performance in MRI
<b>Mary Woody</b>	Psychology	New York: State University of New York at Binghamton	Using Steady-State Visual Evoked Potentials to Evaluate Attentional Biases in Formerly Depressed Women
<b>Casey Youngflesh</b>	Ecology	New York: State University of New York at Stony Brook	Physical forcing of Antarctic food web dynamics – a multi-tiered approach employing stable isotope analysis and hyperspectral imagery
<b>Theodore Hermann</b>	Ecology	New York: SUNY College of Environmental Science and Forestry	Unraveling migratory behavior in Amazonian fishes
<b>Alexandria Albers</b>	Behavioral Ecology	North Carolina: Appalachian State University	Proximate endocrine determinants of behaviors that facilitate rapid range expansion of aggressive tree swallows
<b>Cari Ficken</b>	Ecology	North Carolina: Duke University	Distinguishing between sources of newly available nitrogen during a fire-driven pulse
<b>Jessica Nelson</b>	Ecology	North Carolina: Duke University	Diversity and Functions of Fungal Endophytes of the Liverwort <i>Marchantia polymorpha</i>
<b>Allan Castillo</b>	Systematics/Evolutionary Biology	North Carolina: Duke University	Evolutionary Novelty Arising Through Gene Duplication
<b>Julian Kimura</b>	Cell Biology/Biochemistry	North Carolina: Duke University	Mechanisms of Developmental Rescue in Bisected Sea Urchin Embryos

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<b>Rebecca Dalton</b>	Ecology	North Carolina: Duke University	The ecology and evolution of flowering plants in a changing climate
<b>Titilayo Shodiya</b>	Engineering	North Carolina: Duke University	Novel Plasmon-assisted Photothermal H <sub>2</sub> production
<b>Andrew George</b>	Cell Biology/Biochemistry	North Carolina: Duke University	Do Nuclear Pore Proteins Regulate Development?
<b>Katharine Korunes</b>	Systematics/Evolutionary Biology	North Carolina: Duke University	The Impact of Recombination-Suppression via Inversions on Gene Conversion
<b>Casey Nolan</b>	Conservation Biology	North Carolina: East Carolina University	Evaluation of Hydrological Restoration Impact on a Barrier Island Salt Marsh
<b>Tori Goehrig</b>	Ecology	North Carolina: East Carolina University	Responses of aquatic metabolism to saltwater intrusion in coastal wetlands
<b>Jingbo Wang</b>	Engineering	North Carolina: University of North Carolina at Chapel Hill	Development of an innovative anti-biofouling reverse osmosis and nanofiltration membrane with 2-aminoimidazole chemistry
<b>Kathleen Eckert</b>	Physics/Astronomy	North Carolina: University of North Carolina at Chapel Hill	A Fiber Array Front End for a Novel Spectrograph Enabling Efficient Measurement of Galaxy Dynamics
<b>Connor Lawrence</b>	Petrology/Geochemistry	North Carolina: University of North Carolina at Chapel Hill	High-precision geochronology of mineralization in the Idaho batholith and Challis intrusions, Central Idaho
<b>Nicholas Levis</b>	Ecology	North Carolina: University of North Carolina at Chapel Hill	Shifts in gene expression as a manifestation of character displacement
<b>Michael Wells</b>	Cell Biology/Biochemistry	North Carolina: University of North Carolina at Greensboro	Se-ing Bacteria in a New Light: Investigations Into Selenium Metabolism in <i>Bacillus selenitireducens</i> MLS10
<b>Audrey Maran</b>	Ecology	Ohio: Bowling Green State University	Predator Contributions to Above- and Belowground Responses to Warming

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<b>Kyle Hovey</b>	Ecology	Ohio: John Carroll University	Alkaloid-based chemical defenses of the strawberry poison frog <i>Oophaga pumilio</i> : Do variable defenses provide equal protection from microbial pathogens?
<b>Lacey Campbell</b>	Behavioral Ecology	Ohio: Miami University Ohio	Contest behavior between an invading spider and a local congener over unfamiliar webs and web sites
<b>Minqian Shen</b>	Physiology/Functional Morphology	Ohio: Miami University Ohio	Estrogen Receptors Regulate Hepatocellular Carcinoma Gene Expression
<b>Xian Liu</b>	Cell Biology/Biochemistry	Ohio: Miami University Ohio	Brain-derived Neurotrophic Factor (BDNF) Differentially Induces Sympathetic Activity at Metabolic Tissues between Genders
<b>David Wright</b>	Paleontology/Sedimentation	Ohio: Ohio State University	Phylogenetic Paleobiology and Phenotypic Evolution in Fossil Cladid Crinoids
<b>Stephen Murphy</b>	Ecology	Ohio: Ohio State University	White-tailed deer impacts on forest regeneration in the Eastern United States
<b>Vincent Farallo</b>	Ecology	Ohio: Ohio University	Will behavioral compensation save salamanders from a warming climate?
<b>Lucas Harrison</b>	Physiology/Functional Morphology	Ohio: Ohio University	Metabolic Responses to Acute Blood Flow Restricted Exercise
<b>Ryan Makinson</b>	Cell Biology/Biochemistry	Ohio: University of Cincinnati	Role of central pituitary adenylate cyclase-activating peptide and 17 $\beta$ -estradiol in psychopathology and hypothalamic-pituitary-adrenal axis regulation
<b>Aaron Stahl</b>	Physiology/Functional Morphology	Ohio: University of Cincinnati	Maintaining focus within the only known naturally occurring bifocal lens.
<b>JINYOUNG CHOI</b>	Physiology/Functional Morphology	Ohio: University of Cincinnati	Developmental Regulation by Thyroid Hormone Receptor $\alpha$ in <i>Xenopus tropicalis</i>

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<b>Will Vanderslice</b>	Tectonics/Geophysics	Ohio: University of Dayton	Active Tectonics and Drainage System Evolution of Clover Valley Nevada.
<b>Macey Brandeberry</b>	Cell Biology/Biochemistry	Ohio: University of Findlay	Investigation on the Effects of bitter melon juice on the growth of leukemia cells
<b>Ashley Love</b>	Physiology/Functional Morphology	Oklahoma: Oklahoma State University	Disease mediated parental effects
<b>Diane Landoll</b>	Behavioral Ecology	Oklahoma: University of Oklahoma	Asymmetry and reproductive success in the Scissor-tailed Flycatcher ( <i>Tyrannus forficatus</i> ): linking paternity to functional morphology
<b>Anja Bastian</b>	Cell Biology/Biochemistry	Oklahoma: University of Oklahoma Health Science Center	Identification of Intracellular Protein Target(s) for a Novel Anticancer Drug, AG311
<b>Lisa Esteves</b>	Physics/Astronomy	Ontario: University of Toronto	What's in an Exo-Atmosphere: Studying the Atmospheres of Extra-solar Planets from Space and the Ground
<b>Rachel Germain</b>	Ecology	Ontario: University of Toronto	Mechanisms of species diversity in California grasslands: an experimental removal of dispersal limitation using a novel method
<b>Sydney Gonsalves</b>	Ecology	Oregon: Portland State University	Evaluating the effects of habitat elements on beetle diversity of urban greenroofs
<b>Timea Deakova</b>	Ecology	Oregon: Portland State University	Biogenic Volatile Organic Compound emissions by mosses and the role they play in local atmospheric chemistry.
<b>Andrew Federo</b>	Physiology/Functional Morphology	Pennsylvania: King's College	The Neuromuscular Effects of Environmental Levels of Fluoxetine on <i>Rana pipiens</i>
<b>Joe Brague</b>	Cell Biology/Biochemistry	Pennsylvania: Lehigh University	TrkB is Essential for Male Sex Behavior in the Syrian Hamster

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<b>Jayalakshmi Govindan</b>	Cell Biology/Biochemistry	Pennsylvania: Lehigh University	Discerning the role of HA-Hapln1a ECM during zebrafish bone regeneration
<b>Kaitlyn Leahey</b>	Cell Biology/Biochemistry	Pennsylvania: Pennsylvania State University	Deadly KISS: Kisspeptin 10 Interaction with Osteoblasts and Breast Cancer Metastasis
<b>Zariel Johnson</b>	Cell Biology/Biochemistry	Pennsylvania: Thomas Jefferson University	Post-Translational Modification of TonEBP Protein in Nucleus Pulposus Cells
<b>Tanziyah Muqem</b>	Physiology/Functional Morphology	Pennsylvania: Thomas Jefferson University	Electrophysiological investigation of sensory transduction in intact spinal cord preparations
<b>Caitlin Logan</b>	Cell Biology/Biochemistry	Pennsylvania: Thomas Jefferson University	Microtubules play a key role in the autophagic process of organelle free zone formation essential to lens development
<b>Melissa Plakke</b>	Systematics/Evolutionary Biology	Pennsylvania: University of Pittsburgh	Protease-substrate specificity in a digestive female reproductive organ
<b>Hamed Nasri Lari</b>	Engineering	Quebec: École Polytechnique de Montréal	Fragmentation and functionalization of nanoparticles
<b>Cosima Schunk</b>	Physiology/Functional Morphology	Rhode Island: Brown University	Visualizing the wake of bats in the field
<b>Morgan Moeglein</b>	Ecology	Rhode Island: Brown University	Leaf Gene Discovery and Leaf Shape Evolution in Viburnum
<b>Katherine Cushman</b>	Ecology	Rhode Island: Brown University	Completing the carbon allocation story: fine root production in tropical trees
<b>Leif Tokle</b>	Tectonics/Geophysics	Rhode Island: Brown University	XRCT of synthetically deformed micaceous quartzite in general shear
<b>Leanne Burns</b>	Conservation Biology	South Carolina: Clemson University	Investigation of Winter Bat Assemblage and Activity
<b>Jason Wang</b>	Physiology/Functional Morphology	South Carolina: College of Charleston	Quantification of hemocyanin forms in the Pacific white-leg shrimp following hypoxic exposure

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Recipient's Name	Field of Research	Location: Institution	Study Title
<b>Unwana Koffi</b>	Ecology	Sweden: Lund University	Petroleum activities, agricultural wetland utilization and livelihood changes in Akwa Ibom State, Nigeria: a spatio temporal analysis.
<b>Zachary Wolf</b>	Behavioral Ecology	Tennessee: Austin Peay State University	Do neighbors steal nests: detecting spatial complexity of allopaternal care in the imperiled Egg-mimic Darter (Percidae: Etheostoma pseudovulatum)
<b>Allison Hilbun</b>	Physics/Astronomy	Tennessee: East Tennessee State University	Balancing Data as a Diagnostic Tool
<b>Lauren Heusinkveld</b>	Cell Biology/Biochemistry	Tennessee: Middle Tennessee State University	Regulation of Canonical and Non-canonical NF- $\kappa$ B Signaling in Macrophages by <i>Cryptococcus neoformans</i> Capsular Polysaccharide
<b>Miles Henderson</b>	Paleontology/Sedimentation	Tennessee: University of Tennessee-Knoxville	Ocean circulation as a driver for changes in ocean chemistry in the Late-Middle Ordovician
<b>Angela Chuang</b>	Behavioral Ecology	Tennessee: University of Tennessee-Knoxville	Personality-driven range expansion in an invasive spider, <i>Cyrtophora citricola</i>
<b>Baoming Liu</b>	Cell Biology/Biochemistry	Tennessee: University of Tennessee-Memphis	Role of TRIM56 phosphorylation in regulation of TLR3 antiviral signaling
<b>Eugenio Garcia</b>	Physics/Astronomy	Tennessee: Vanderbilt University	Imaging the surfaces of Stars with VISION, the Visible Imaging System for Interferometric Observations at the Navy Precision Optical Interferometer
<b>Akshaya Selvamani</b>	Cell Biology/Biochemistry	Texas: Austin College	Elucidating a role for glycogen accumulation in the calcium homeostasis defects observed in a <i>pgm2<math>\Delta</math></i> strain of <i>Saccharomyces cerevisiae</i>

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<b>Peter Cabeceiras</b>	Cell Biology/Biochemistry	Texas: Rice University-Texas Medical Center	The RAC1 P29S Hotspot Mutation in Melanoma Confers Resistance to Pharmacological Inhibition of RAF
<b>Clint Morris</b>	Behavioral Ecology	Texas: St. Edward's University	Habitat Complexity as a Predictor for Female Oviposition Preference in two Gulf Coast gobies
<b>Julian Rios</b>	Systematics/Evolutionary Biology	Texas: St. Edward's University	Fighting with Swords: Genital Combat as an Alternative Explanation for Same Sex Mating in a Coercive Livebearer ( <i>Gambusia affinis</i> )?
<b>Haley Christians</b>	Behavioral Ecology	Texas: St. Edward's University	Testing the novelty hypothesis as a mechanism of heterospecific mating in livebearing fishes
<b>Kurt Sundell</b>	Tectonics/Geophysics	Texas: University of Houston	Late Cenozoic uplift of the central Andean plateau
<b>Swapan Bhuiyan</b>	Cell Biology/Biochemistry	Texas: University of North Texas	Isolation, characterization and comparison of novel bacteriophages from various <i>Streptomyces</i> spp.
<b>Shreyas Bhawe</b>	Cell Biology/Biochemistry	Texas: University of North Texas Health Science Center at Fort Worth	Role of DNA methylation in the Glucocorticoid Receptor (GR)-Mediated Corticotropin Releasing Hormone (CRH) Down-regulation.
<b>Avani Mody</b>	Cell Biology/Biochemistry	Texas: University of North Texas Health Science Center at Fort Worth	ID1 protein prevents deleterious effects of TGF $\beta$ 2 in ocular hypertension model: implication for novel glaucoma therapy.
<b>Rahul Chib</b>	Cell Biology/Biochemistry	Texas: University of North Texas Health Science Center at Fort Worth	Non-invasive fluorescence polarization based detection of melanoma.
<b>Noah Jouett</b>	Physiology/Functional Morphology	Texas: University of North Texas Health Science Center at Fort Worth	Sympathetic Threshold in Obstructive Sleep Apnea: The Role of Oxidative Stress
<b>Gavin Martin</b>	Systematics/Evolutionary Biology	Utah: Brigham Young University-Provo	What do fireflies see?
<b>Kyphuong Luong</b>	Physiology/Functional Morphology	Utah: University of Utah	Does captivity alter the gut microbiota?



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<b>John Arnold</b>	Conservation Biology	Virginia: Old Dominion University	Assessing Quality of Atlantic Flyway Stopover Sites for Migratory Landbirds Using Plasma Metabolites
<b>Jake Turner</b>	Physics/Astronomy	Virginia: University of Virginia	Studying the Magnetic Fields of Exoplanets Through Radio Observations
<b>Trevor Faske</b>	Ecology	Virginia: Virginia Commonwealth University	Spread Rate Dynamics and Responses to Climate in an Invasive Forest Pest
<b>Cynthia Scheuermann</b>	Ecology	Virginia: Virginia Commonwealth University	Forest physical structure as a proxy for net primary production over decade to century timescales
<b>Sydney Hope</b>	Behavioral Ecology	Virginia: Virginia Polytechnic Institute and State University	Effects of the early physical and social environment on corticosterone concentrations and the development of personality
<b>Sarah Meiners</b>	Ecology	Washington: Washington State University	Co-infection and the evolution of pathogen virulence: experimental tests in the ranavirus-Xenopus laevis model system
<b>Zecong Fang</b>	Engineering	Washington: Washington State University - Vancouver	Ultrasensitive pH sensor based on two dimensional atomically layered MoS <sub>2</sub>
<b>Tyler Sizemore</b>	Cell Biology/Biochemistry	West Virginia: West Virginia University	CRISPR-Cas9 Mediated Deletion of the Enhancer-of-split Member-8 Gene
<b>Benjamin Tofflemire</b>	Physics/Astronomy	Wisconsin: University of Wisconsin-Madison	Disk Accretion in Young Binary Star Systems
<b>Heidi Hargaraten</b>	Systematics/Evolutionary Biology	Wisconsin: University of Wisconsin-Milwaukee	Ecological Divergence Between Phenotypic Morphs of Giant Kelp
<b>Beth Fitzpatrick</b>	Conservation Biology	Wyoming: University of Wyoming	Accomplishing Conservation through Classroom Citizen Science in Northeast Wyoming