

Grants-in-Aid of Research Awards
October 15, 2011 Grant Cycle

Alphabetical by Institution

Stanley M. Bartkowiak	Physiology/Functional Morphology	Appalachian State University	Response of common bean (<i>Phaseolus vulgaris</i> L.) to the antioxidant ethylenediurea (EDU): An evaluation of the physiological mechanisms by which EDU acts
Anna C. Cochrane	Cell Biology/Biochemistry	Appalachian State University	Characterization and embryonic expression of a novel gene linked to meis2.2 in zebrafish
Zach W. Gilbert	Chemistry	Appalachian State University	Synthesis and Characterization of Cobaloximes as Hydrogen Catalysts
Robert L. Stanley	Cell Biology/Biochemistry	Appalachian State University	Characterization of the Chemotactic Properties of VEGF on Leukocytes During Postpartum Repair of the Birth Canal
Alyssa Teat	Physiology/Functional Morphology	Appalachian State University	Influence of biochar on physiological responses and drought tolerance of <i>Miscanthus x giganteus</i>
Nakieta M. Lankster	Psychology	Argosy University	Treatment Affects for Intergenerational Trauma in Survivors of Genocide Residing in South Africa
Brett M. Seymoure	Behavioral Ecology	Arizona State University	Heliconius mimicry rings in a new light
Gayani K. Nanayakkara	Physiology/Functional Morphology	Auburn University	Cardioprotective Mechanism of PPAR delta-HIF1 signaling in the Ischemic Diabetic Heart
Itai Opatovsky	Ecology	Ben-Gurion University of the Negev	Pest consumption and niche separation by common agrobiont and immigrant spider species in the semi-desert wheat fields
Paloma V. St. Juliana	Physiology/Functional Morphology	Ben-Gurion University of the Negev	Cutaneous and Respiratory Water Loss in Desert and Mesic Bats in Israel
Jessica Sherburne	Conservation Biology	Boise State University	Food Chain Differences Affect Heavy Metals in Bird Eggs in Boise, Idaho

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Carl Breidenbach	Cell Biology/Biochemistry	Bowling Green State University	Phospholipid Dependency of Membrane-Associated Pyridine Nucleotide Utilizing Activities of Adult <i>Hymenolepis diminuta</i> (Cestoda) Mitochondria
Elizabeth A. Shuler	Cell Biology/Biochemistry	Bowling Green State University	Effects of plant flavonoids on the mitochondrial NADPH $\rightarrow$ NAD transhydrogenase of adult <i>Hymenolepis diminuta</i> (Cestoda)
Henry C. Astley	Physiology/Functional Morphology	Brown University	Jumping with your ancestor's legs: the influence of phylogeny and function on musculoskeletal properties in anurans
Bryan Ervin	Cell Biology/Biochemistry	California State University-Chico	Hot springs fungi: potential for cellulosic biofuels
Jason R. Warner	Ecology	California State University-Northridge	Cold-Hardiness of <i>Liolaemus</i> Lizards along an Elevation Gradient
Sandra Alvarado	Psychology	California State University-San Marcos	A collaborative cross-cultural study with an Ixil, Maya sample: Investigating evolutions influence on visual information processing
Molly S. McQuilken	Cell Biology/Biochemistry	Cedar Crest College	Analysis of the role of Replication Protein A phosphorylation in maintaining telomere length in the budding yeast <i>Saccharomyces cerevisiae</i>
Cassie M. Dresser	Conservation Biology	Central Michigan University	Genetic assessment of invasive rusty crayfish in the Upper Susquehanna River Basin and the role of anthropogenic introductions
Christopher L. Petersen	Cell Biology/Biochemistry	City University of New York-Brooklyn College	Activation Patterns of Dopaminergic and Auditory Midbrain Neurons in the Motivated Response to Male Mate Calls in Female Plainfin Midshipman Fish

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Katherine A. Heldt	Behavioral Ecology	Clemson University	Estimating the impact of habitat loss and dominance on denning behavior and dispersal of juvenile Caribbean spiny lobsters (<i>Panulirus argus</i>) via acoustic telemetry
Amrita B. Koushik	Cell Biology/Biochemistry	Clemson University	Role of Phosphatidylinositol-4,5-bisphosphate in Virulence in the Protozoan Parasite, <i>Entamoeba histolytica</i>
Christie L. Sampson	Ecology	Clemson University	The Role of Fire in Maintaining Asian Elephant Habitat in Sri Lanka
Felicia M. Aronson	Systematics/Evolutionary Biology	Colby College	The Genetics of Innate Immunity and Disease Resistance in Reef-Building Corals
Jamie N. Hershaw	Psychology	College of William and Mary	ERP Neurometrics for Detection of Early-Stage Alzheimer's Disease
Christa E. Fettig	Ecology	Colorado State University	Does competition or water availability influence population fluctuations of the invasive weed <i>Hyoscyamus niger</i> ?
Molly C. Womack	Behavioral Ecology	Colorado State University	Losing Your Senses: The Evolution of æEarlessÆ Frogs
Rebecca A. Kelley	Behavioral Ecology	Columbia University	Testing the epigenetic mechanisms of behavior in a cooperatively breeding bird
Joshua B. LaPergola	Behavioral Ecology	Cornell University	Sexual selection in cooperatively breeding societies
Kevin J. Loope	Behavioral Ecology	Cornell University	Why do some vespine wasp colonies kill their queens?
Kimberly A. Morrell	Ecology	Cornell University	Plant-to-plant signaling: Do plants that produce more of a signal also respond more strongly if they perceive that signal from a neighbor?
Kristen A. Roosa	Physiology/Functional Morphology	Cornell University	In vitro analysis of seasonal differences in ovarian primordial follicle recruitment rate

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Biz R. Turnell	Behavioral Ecology	Cornell University	Sperm allocation in a Hawaiian swordtail cricket
Joseph G. Lambert	Physics/Astronomy	Drexel University	Macroscopic Quantum Effects in Al/Graphene/Al Josephson Junctions
Hannah M. Aird	Petrology/Geochemistry	Duke University	A Study of the accessory mineral assemblages in the Stillwater Complex, Montana
Fay-Wei Li	Systematics/Evolutionary Biology	Duke University	Seeing the light: does the molecular evolution of a chimeric photoreceptor underlie fern diversification?
Cristina Isabel Pokorny Montero	Systematics/Evolutionary Biology	Duke University	Integrating Phylogenomic and Ecological Data to Understand Biodiversity Latitudinal Gradients. A Case Study in a Non-Model Organism: The Moss Genus Calypstrochaeta
Junpeng Wang	Chemistry	Duke University	A Universal Handle for SMFS
Samantha A. Mears	Ecology	East Carolina University	Diversification and Speciation in the Fundulus diaphanus Complex
Jacob R. Andrew	Physiology/Functional Morphology	Eastern Washington University	Is recovery from L4 arrest in Caenorhabditis elegans a fitness component?
Michael J. Lynch	Chemistry	Emmanuel College	Investigation into the role of copper in the enzyme lysyl oxidase
Gregory R. Capece	Cell Biology/Biochemistry	Endicott College	Further analysis of the effects of FGF-2 growth factor on mouse 3T3 fibroblast cells in regards to cell proliferation in gelatin methacrylate (GelMA) hydrogels
Kendra L. Philmon	Anthropology	Florida Atlantic University	An Osteological Analysis of Remains from Cusirisna Cave, Nicaragua in Conjunction with a Comparison to the Middle Formative Funerary Complex in Honduras

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Sherri A. Emer	Physiology/Functional Morphology	Florida Institute of Technology	Determining the behavioral sensitivity of the infrared imaging system in Burmese pythons using thermal discrimination training and operant conditioning
Tyler J. Sloan	Behavioral Ecology	Florida Institute of Technology	The effects of temperature on the feeding kinematics and behavior in two trophically distinct species of invasive fishes: the specialist <i>Belonesox belizanus</i> and the generalist <i>Cichlasoma urophthalmus</i>
Matthew A. Kolmann	Physiology/Functional Morphology	Florida State University	The ontogeny of durophagy in the cownose ray, <i>Rhinoptera bonasus</i> : how does a cartilaginous fish eat a hard-shelled mollusk?
Rosalind A. Becker	Ecology	Fordham University	Impact of soil nutrients on ectomycorrhizal fungal community structure along the New York City urbanization gradient
Travis J. Bernardo	Cell Biology/Biochemistry	Fordham University	The Role of Enhancer-Promoter Interactions in the Hormonal Activation of <i>Drosophila</i> Gene Expression
Anthony Caragiulo	Conservation Biology	Fordham University	Landscape genetics of puma (<i>Puma concolor</i>) populations in the Neotropics
Suzanne K. Macey	Conservation Biology	Fordham University	The Genetics of Bog Turtle Breeding Ecology and Implications for Conservation
Justin R. Pool	Ecology	Fordham University	Blacklegged tick (<i>Ixodes scapularis</i>) survival: Do vector-borne pathogens help?
Sarah B. Whorley	Ecology	Fordham University	EFFECT OF AGRICULTURAL BEST MANAGEMENT PRACTICES ON STREAM PERIPHYTON NUTRITIONAL QUALITY AND FOOD WEB STABILITY

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Caitlin M. Groeber Travis	Psychology	George Mason University	An Examination of Copper's Ability to Protect Against Iron Overload in the Etiology of Alzheimer's Disease
Myurajan Rubaharan	Cell Biology/Biochemistry	George Mason University	Genetic analysis of miRNA mediated regulation of dendrite development
Jennifer L. Baker	Anthropology	George Washington University	A comparative genomic investigation of the role for the NMDA receptor gene GRIN3A in synaptic plasticity
Rebekah C. Gullberg	Cell Biology/Biochemistry	George Washington University	Endotoxemia and Neurogenic Inflammation
Joel J. Credle	Cell Biology/Biochemistry	Georgetown University	The Unfolding of Parkinson's Diseases. Inhibition of the Unfolded Protein Response as a Novel Therapeutic Avenue in the Treatment of Parkinson's Disease
Tabitha C. Hui	Conservation Biology	Hokkaido University	Spatial, temporal and dietary overlap between harbour seals and fisheries in Japan: Conflict at sea?
Steven R. Boomhower	Psychology	Idaho State University	Haloperidol's effects on impulsive choice in the genetically obese Zucker rat
Cari Lewis	Anthropology	Indiana University - Bloomington	Validating Noninvasive Measures of Immune Function in Nonhuman Primates
Beth A. Reinke	Physiology/Functional Morphology	Indiana University - Bloomington	The purpose of plastron coloration in the painted turtle, <i>Chrysemys picta</i>
David R. Samson	Anthropology	Indiana University - Bloomington	GREAT APE SLEEP ARCHITECTURE: Using infra-red videography to generate sleep quotas in <i>Pongo pygmaeus</i>
Lauren M. Smith	Ecology	Indiana University - Bloomington	Multi-factor manipulation of invasion mechanisms for garlic mustard (<i>Alliaria petiolata</i>)
Callista J. Holmes	Anthropology	Indiana University of Pennsylvania	Modeling Magnetic Signatures of Sunken Ships: 1750-1900

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Pin-Chin Hsu	Petrology/Geochemistry	Lehigh University	Factors Influencing Mercury Photoreactions in Fresh Waters: An Experimental Approach Using Light, DOC, Halogen, pH, and Temperature
Kathryn A. Semmens	Hydrology/Geomorphology	Lehigh University	Monitoring short term snowmelt events in high latitude drainage basins
Chao-Xuan Liu	Engineering	Louisiana State University-Baton Rouge	Template-free Micropatterning of Elastomer Composites via Laser Ablation
Karine E. Posbic	Conservation Biology	Louisiana State University-Baton Rouge	Genetic diversity of an introduced coral species, <i>Oculina patagonica</i>
Clayton M. Crabtree	Cell Biology/Biochemistry	Marshall University	Alpha7-nicotinic Receptor Antagonists in Retinal Angiogenesis
Alan Westbay	Engineering	Mercer University	Flywheel Regenerative Braking Employing a Continuously Variable Transmission
Maria Clara F. do Amaral	Physiology/Functional Morphology	Miami University Ohio	Molecular and physiological basis for geographical variation of freeze tolerance in the wood frog (<i>Rana sylvatica</i>)
Tyler D. Hoskins	Ecology	Miami University Ohio	Variation in pesticide tolerance between diploid and tetraploid treefrogs: does a duplicate genome confer increased resistance?
Kelsey M. Calhoun	Cell Biology/Biochemistry	Middlebury College	The Effects of Testosterone on Different Stages of Neural Development in the Dentate Gyrus of Adult Male Rats
Jeremy R. Anderson	Engineering	Milwaukee School of Engineering	Solar Thermal Biomass Processor
Jamie Fearon	Paleontology/Sedimentation	Montana State University-Bozeman	Comparative Shoulder and forelimb morphology of Ornithopoda: Does <i>Oryctodromeus cubicularis</i> exhibit specialization for digging?

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Jennifer Smith	Conservation Biology	New Mexico State University	Habitat and habits of the Chihuahuan Desert mud turtle, <i>Kinosternon hirtipes</i>
Siyao Huang	Engineering	North Carolina State University	Visualizations of Stress Distributions in Heart Valve Tissues
Kit C. Wilkinson	Physiology/Functional Morphology	Northern Arizona University	Propulsive force calculations of a frog jumping from the water's surface
Cole T. Edwards	Petrology/Geochemistry	Ohio State University	^{34}S isotope geochemistry of the Late Cambrian-Early Ordovician from the Pogonip Group, Shingle Pass, Nevada: implications for Ordovician ocean oxygenation during the Great Ordovician Biodiversification Event (GOBE)
Jessica T. Walz	Anthropology	Ohio State University	Do nonseasonal breeders challenge the "challenge hypothesis"? An initial test in olive baboons
Matthew S. Lattanzio	Ecology	Ohio University	Fluctuating asymmetry, performance, and fitness of tree lizards across a habitat-disturbance gradient
William R. Porter	Paleontology/Sedimentation	Ohio University	Physiological and behavioral implications of dinosaur vascular systems
Eoin C. Whelan	Cell Biology/Biochemistry	Old Dominion University	Do gain-of-function mutations in the RET tyrosine kinase provide spermatogonial stem cells with a selective advantage?
Ryan C. Terrien	Physics/Astronomy	Pennsylvania State University	Spectroscopic Determination of M Dwarf Metallicities
Alireza Goudarzi	Computer Science/Mathematics	Portland State University	On the Effects of Heterogeneity in Random Dynamical Networks
Manjari S. Kulkarni	Engineering	Portland State University	Memristor-based Reservoir Computing: A New Computing Paradigm
Barry M. Zee	Cell Biology/Biochemistry	Princeton University	Histone methylation dynamics across the cell cycle

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Devon M. Ptak	Cell Biology/Biochemistry	Purdue University-West Lafayette	A novel Egr1 gene network for photoreceptor development and function
Heather M. Cegla	Physics/Astronomy	Queen's University Belfast	The Effects of Astrophysical Noise: Towards Detecting Low-mass Planets
Zhun Zhao	Chemistry	Rice University	Modulating the catalysis for glycerol oxidation using bimetallic M-on-gold colloidal catalysts (M=Pt, Cu, Fe, Ni, Co, Zn)
Chester Chia	Cell Biology/Biochemistry	Rutgers, The State University of New Jersey	Arc (Arg3.1) Protein Up-Regulation in Dorsal and Ventral Hippocampus is Critical for Memory Reconsolidation
Guangyu Xu	Tectonics/Geophysics	Rutgers, The State University of New Jersey	The investigation of acoustic scattering from a deep-sea hydrothermal plume
Alona Gukasova	Conservation Biology	Saint Petersburg State University	Application of new system of bat fauna inventory in Gorgany Nature Reserve (Western Ukraine)
Michelle Labbe	Paleontology/Sedimentation	Sam Houston State University	Impact of Diet and Size on the Bone Robusticity of Southern High Plains Bison
Brian R. Lavin	Systematics/Evolutionary Biology	Sonoma State University	A survey of nuclear protein coding markers in the Northern Alligator Lizard (<i>Elgaria coerulea</i>)
Leah M. Nettle	Behavioral Ecology	State University of New York at Binghamton	Food or fertility?: Functional study of the female American Crow (<i>Corvus brachyrhynchos</i>) nest call
Benjamin E. Carter	Ecology	Syracuse University	Using a Synthetic Mutualism to Evaluate the Evolutionary Ecology of Mutualism
Craig E. Stanley	Systematics/Evolutionary Biology	Temple University	Island speciation of the grassland anole, <i>Anolis auratus</i> , in disturbed vs. undisturbed habitats

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Laura Alberici da Barbiano	Behavioral Ecology	Texas State University-San Marcos	Interaction between stress hormones and heterospecific encounters in an unisexual-bisexual mating complex
Adam W. Ferguson	Systematics/Evolutionary Biology	Texas Tech University	Assessing Congruence among Morphological, Ecological, and Genetic Datasets for Use in Conservation Prioritization: An Example with the American Hog-nosed Skunk (<i>Conepatus leuconotus</i>)
Anthony J. Giordano	Conservation Biology	Texas Tech University	Status, Ecology, and Genetic Population Structure of Jaguars (<i>Panthera onca</i>) in the Paraguayan Chaco
Meghan R. Swanson	Psychology	The Graduate Center, The City University of New York	Eye Gaze, Pupillary Response, and Social Cognition in Children with Autism Spectrum Disorder
Subhasree Basu	Cell Biology/Biochemistry	Thomas Jefferson University	Inactivation of c-Jun-N-terminal kinase (JNK) is necessary for the elimination of cytoplasmic organelles and nuclei by autophagy during terminal differentiation of lens fiber cells
John G. Zaharick	Ecology	Towson University	An experimental test of small mammal dispersal of mycorrhizal fungi spores
Ellee G. Cook	Ecology	Trinity University	Parasite-mediated sexual displays in lizards
Carolyn M. Bauer	Behavioral Ecology	Tufts University	Does plural breeding with communal care buffer post-natal stress in the caviomorph rodent, <i>Octodon degus</i> ?
Deborah M. Visco	Ecology	Tulane University	Demographic mechanisms for population decline in understory insectivorous passerine birds occupying fragmented tropical rainforest

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Nidia N. Rivera Reyna	Chemistry	Universidad Aut�noma de Nuevo Le�n	PHOTOCATALYTIC REMOVAL OF ARSENIC SPECIES FROM WATER SAMPLES USING ZnO AS CATALYST
Atul N. Kajale	Engineering	University of Alabama at Birmingham	Estimation of Condensate Recovery from air handling units of medical buildings at University of Alabama at Birmingham
Annalisa Stephens	Conservation Biology	University of Alaska Fairbanks	The potential for adaptation of Papaver alboroseum, a rare endemic poppy, to projected climate change in Alaska
Jana Van den Abbeele	Conservation Biology	University of Bristol	How do blue-eyed black lemurs (Eulemur flavifrons) in Sahamalaza, North-western Madagascar, deal with the particularly low protein content of their fruit diet?
Emily M. Dangremond	Ecology	University of California-Berkeley	Seed predation and recruitment of a rare mangrove
Dennis J. Evangelista	Physiology/Functional Morphology	University of California-Berkeley	Aerial righting and directed aerial descent during ontogeny in Chukars (Alectoris chukar)
Katie LaBarbera	Behavioral Ecology	University of California-Berkeley	Cryptic elevational range shifts in response to climate change in the Dark-eyed Junco
Tracy Misiewicz	Ecology	University of California-Berkeley	Ecological Speciation in an Amazon Tree: Protium subseratum (Burseraceae)
Elizabeth M. Schultz	Behavioral Ecology	University of California-Davis	Investigating Seasonal Modulation in the Sickness Response in an Opportunistic Breeder, the Red Crossbill
Lawrence Patihis	Psychology	University of California-Irvine	False Memory in Highly Superior Autobiographical Memory Individuals

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Jessica D. Pratt	Ecology	University of California-Irvine	Local adaptation of <i>Artemisia californica</i> populations: implications for insect communities and restoration in a changing environment
Jason Baumsteiger	Conservation Biology	University of California-Merced	Impact of dams on species boundaries in freshwater sculpin (<i>Cottus</i>)
Andrea S. Grunst	Behavioral Ecology	University of California-Riverside	DOES ANTIOXIDANT PHYSIOLOGY MEDIATE CONDITION-DEPENDENT EXPRESSION OF SEXUAL PIGMENTATION AND ALTERNATIVE REPRODUCTIVE STRATEGIES?
Kevin Urstadt	Cell Biology/Biochemistry	University of California-Riverside	GABA-receptive Nucleus Accumbens Shell Neurons Project Directly to the Tuberal Lateral Hypothalamus
Keng-Lou J. Hung	Conservation Biology	University of California-San Diego	Investigating foraging ecology of native bees (Hymenoptera: Anthophila) in habitats fragmented by urbanization via stable isotope analysis
Jacob Arnold	Physics/Astronomy	University of California-Santa Cruz	Kinematic Evidence for the Role of Minor Mergers in Building Early-type Galaxy Haloes
James L. O'Donnell	Ecology	University of California-Santa Cruz	Connectivity of isolated island populations of an anemonefish in the Western Indian Ocean
Lily M. Tarjan	Ecology	University of California-Santa Cruz	Determinants of territory quality and male reproductive success in Southern sea otters (<i>Enhydra lutris nereis</i>)
Monette V. Auman	Conservation Biology	University of Central Florida	Testing the effects of a potential practice to mitigate loggerhead sea turtle (<i>Caretta caretta</i>) nest temperatures in response to climate change

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Bin Z. He	Systematics/Evolutionary Biology	University of Chicago	Characterizing Molecular Effect of a GWAS Discovered non-coding SNP by Pyro-Sequencing in a Fly Model of Human Complex Disease
Aniruddha K. Deshpande	Psychology	University of Cincinnati	Tinnitus Mapping of Auditory and Psychological Areas in Humans using fMRI/DTI
Sharmila J. Giri	Petrology/Geochemistry	University of Cincinnati	Selective Transport of Terpenoid Biomarkers: Defining the Mechanism
Elizabeth E. Barnes	Ecology	University of Denver	Host-plant preference variability in the calleta silkmoth (<i>Eupackardia calleta</i>): A transition to dietary specialization?
Juan Pablo Gomez	Ecology	University of Florida	Detecting mechanisms that drive species diversity along a forest moisture gradient in Colombia
Sydney E. Everhart	Ecology	University of Georgia	Characterization of 3-dimensional fine-scale genetic structure and spatio-temporal dynamics of populations of <i>Monilinia fructicola</i> within individual peach tree canopies
Malavika Rajeev	Behavioral Ecology	University of Georgia	Examining <i>Toxoplasma</i> Infection in a Wild Population of Grant's Gazelle
Adam R. Sarafian	Petrology/Geochemistry	University of Georgia	Apatite from eucrites: Implications for the volatile budget of the HED parent body
Jessica D. Stephens	Conservation Biology	University of Georgia	Comparative phylogeography of <i>Darlingtonia californica</i> ferns: Implications for conservation
Emilia M. Sogin	Cell Biology/Biochemistry	University of Hawaii at Manoa	Using Metabolomics to Investigate Implications of Diversity in Coral-Symbiodinium Unions

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Christelle Couchoux	Ecology	University of Helsinki	How effective is the post-oviposition marking behaviour of the parasitoid wasp <i>Hyposoter hortocola</i> ?
Erika R. Arnold	Behavioral Ecology	University of Illinois at Chicago	Immunological responses in mice to larval tick infestation
Erin J. Peregrine Antalis	Anthropology	University of Illinois at Chicago	Healthcare Access and Unauthorized Status: Urban Refugees in Tanzania
Jenny Zambrano	Ecology	University of Illinois at Chicago	Effects of forest fragmentation in the life history of an animal dispersed tree at Los Tuxtlas, Mexico
Brandt D. Pence	Cell Biology/Biochemistry	University of Illinois at Urbana-Champaign	Macrophage function in obesity and influenza infection
Lisa Powers	Ecology	University of Illinois at Urbana-Champaign	Effects of non-lethal <i>Geomyces destructans</i> infection on female bat reproductive condition
Theodore P. Marks	Anthropology	University of Iowa	Optically Stimulated Luminescence Dating of Sediments at Erb Tanks Rockshelter, A Middle and Later Stone Age Archaeological Site in the Central Namib Desert, Namibia
Matthew F. Jones	Behavioral Ecology	University of Kansas	Neochirology of Bats: Implications for Pterosaur Locomotion
Oscar Toro-Nunez	Systematics/Evolutionary Biology	University of Kansas	Plant Diversification Mediated by Extreme Aridity in the Atacama Desert: Dynamic Population Genetics in <i>Schizopetalon</i> (Brassicaceae)
Susan P. John	Cell Biology/Biochemistry	University of Louisiana at Lafayette	Determination of Location and Dynamics of Lipid Droplets in Chara Internodal Cells
Chi Zhang	Physiology/Functional Morphology	University of Louisville	Glycine receptor alpha 2 subunit specific inhibition in mouse retina

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Rangarajan Padmanabhan	Cell Biology/Biochemistry	University of Maryland, College Park	Role of endocytosis in Post-Translational Down-regulation of Cadherin6B in Premigratory Neural Crest Cells
Yisheng Xu	Chemistry	University of Massachusetts Amherst	Effects of Heparin on Insulin Amyloidogenesis: Inhibition vs Promotion
Sandra Correa	Systematics/Evolutionary Biology	University of Massachusetts Lowell	Evolutionary relationships between spider silks and the silk-like venom from the spitting spider <i>Scytodes thoracica</i>
Rebecca S. Heiss	Ecology	University of Memphis	Oxidative damage and early life trade-offs in the cooperatively breeding Florida Scrub-Jay (<i>Aphelocoma coerulescens</i>)
Rebekah Outman	Ecology	University of Miami	Environmental Factors Contributing to Invasive Plant Success
Ke-Jung Chen	Physics/Astronomy	University of Minnesota, Twin Cities	The First Galaxies: Formation and Observational Signature
Kevin M. Dorn	Cell Biology/Biochemistry	University of Minnesota, Twin Cities	Characterization of microRNA networks controlling plant architecture
Katherine E. Wyman	Conservation Biology	University of Minnesota, Twin Cities	Impacts of Double-crested Cormorants and their Management on Co-nesting Wading Birds
Stuart V. Nielsen	Systematics/Evolutionary Biology	University of Mississippi	Understanding Speciation in Southern Africa: A comparative approach using broadly distributed and distantly related squamate reptiles
Ondi L. Crino	Behavioral Ecology	University of Montana	The forgetful finch: the effects of developmental stress on learning and hippocampal volume in the zebra finch
Erin L. McCullough	Behavioral Ecology	University of Montana	Elaborate animal weapons: mechanical constraints on horn size in a giant rhinoceros beetle

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Lindsey A. Carr	Ecology	University of North Carolina at Chapel Hill	Physical Forcing of the Spatiotemporal Dynamics of the Galapagos Marine Ecosystem
Adam C. Curry	Petrology/Geochemistry	University of North Carolina at Chapel Hill	The role of shear heating in producing crystal-free obsidian
Roger L. Putnam	Petrology/Geochemistry	University of North Carolina at Chapel Hill	Understanding plutons in the vertical realm: field and geochemical relations on the southeast face of El Capitan, Yosemite National Park, California
Justin M. Eichinger	Physiology/Functional Morphology	University of North Carolina at Wilmington	Neuromuscular Facilitation and Swimming Behavior in Box Jellyfish (Cubozoa)
Alexandra Goodell	Systematics/Evolutionary Biology	University of North Carolina at Wilmington	Identification and comparison of opsin genes of hamlet (<i>Hypoplectrus</i> spp.) color-morphs
Brandy P. Velten	Physiology/Functional Morphology	University of North Carolina at Wilmington	Comparative morphology of the swimming muscle of extreme deep-diving cetaceans
Timothy Break	Cell Biology/Biochemistry	University of North Texas	Delineating the impact of ecSOD on phagocytic and myeloid-derived suppressor cells during infection
Eric A. Griffin	Ecology	University of Pittsburgh	The last frontier of biodiversity: On the abundance and impact of bacteria on arboreal species within a tropical forest
Matthew H. Koski	Ecology	University of Pittsburgh	Understanding the evolution of a widespread ultraviolet floral pattern: a phylogenetic approach
Ben Smit	Physiology/Functional Morphology	University of Pretoria	The role of water availability in thermoregulation at high temperatures
Juleen M. Dickson	Systematics/Evolutionary Biology	University of Rhode Island	Reduced lateral line canal development in the round goby, <i>Neogobius melanostomus</i>

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Jamie L. Rafter	Ecology	University of Rhode Island	Effect of ground-foraging beetle on the impacts of adult vs larval ladybeetles on aphid population growth
Jonathan R. Pratt	Tectonics/Geophysics	University of South Carolina	Detrital thermochronology of the Taza-Guercif Basin, Morocco and Initiation of the Messinian Salinity Crisis
Jason L. Kupersmith	Anthropology	University of South Florida	Elemental Analysis and Human Diet: A PXR Analysis of Human Remains found at Chokepukio, Peru
Subhronil Mondal	Paleontology/Sedimentation	University of South Florida	Do Mass Extinction Events Disrupt Evolutionary Arms Races? A Test Using the Neogene Molluscan Fossil Record of Florida
Shubhabrata Paul	Paleontology/Sedimentation	University of South Florida	Analysis of Selectivity of the Late Neogene Extinctions using Decision Tree Analysis (DAT): a Novel Multivariate Approach
Diego E. Reyes	Systematics/Evolutionary Biology	University of Texas at El Paso	THE EXTENT OF CRYPTIC SPECIATION WITHIN <i>Epiphanes chihuahuaensis</i> (MONOGONONTA: ROTIFERA)
Kim L. Valenta	Behavioral Ecology	University of Toronto	The role of colour vision and olfaction in foraging by brown lemurs (<i>Eulemur fulvus fulvus</i>)
Jose G. Crespo	Physiology/Functional Morphology	University of Utah	Influence of varying sensory input on behavioral performance of animals
Carol Yang	Ecology	University of Virginia	Deuterium Isotopic Signatures of Terrestrial Vegetation Undergoing Decomposition in Aquatic Systems
Katie G. Lemay	Ecology	University of West Alabama	Effects of Cyanobacteria-Sensitive and Cyanobacteria-Tolerant <i>Daphnia</i> in Freshwater Ecosystems with Toxic Cyanobacterial Blooms

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Lisa M. Burks	Psychology	University of Wisconsin-Milwaukee	Transition Readiness and Health Literacy in Young Adults with Sickle Cell Disease
Andrew Parisi	Tectonics/Geophysics	University of Wisconsin-Milwaukee	Analysis of deformed dikes in the Rainy Lake Region of Ontario, Canada: an application of a new method for understanding the kinematics of deformation
Maria M. Santos	Psychology	University of Wisconsin-Milwaukee	Measuring Activation and Avoidance in Latinos with Depression
Lauren E. Taubitz	Psychology	University of Wisconsin-Milwaukee	Reward Facilitation of Visual Selective Attention for Emotional Facial Expressions and its Relationship to Major Depressive Disorder
Katherine Potter	Hydrology/Geomorphology	Utah State University	Detrital zircon provenance: evidence for an evolving Snake River watershed in the wake of the Yellowstone hotspot
Reena U. Palanivel	Ecology	Villanova University	Microbes Mend Oil Spills? - Investigating How Nitrogen Impacts Oil Breakdown
Anjali Soni	Cell Biology/Biochemistry	Villanova University	The Low Fluid Shear Response in Enterobacteria
Nikolaos Apsilidis	Engineering	Virginia Polytechnic Institute and State University	Can we mitigate the vulnerability of bridges against hydraulically-induced erosion by investigating the physics of the phenomenon? Insights from high-resolution experiments
Levent Sipahi	Cell Biology/Biochemistry	Wayne State University	Methylation variation in de novo DNA methyltransferases is associated with traumatic stress in the Detroit Neighborhood Health Study
Kevin J. Tewell	Conservation Biology	Western Kentucky University	Comparative landscape genetics of the marbled salamander, <i>Ambystoma opacum</i>

Grants-in-Aid of Research Awards
October 15, 2011 Grant Cycle

Alphabetical by Institution

Michael J. Colgan	Physiology/Functional Morphology	Widener University	Effects of Temperature Acclimation on Growth Rates, Diving Times, and Water Temperature Preference in <i>Malaclemys terrapin</i>
Estella Yee	Chemistry	Willamette University	NMR Spectroscopy Investigation of a Phase Diagram Anomaly in the o-toluidine + n-hexane Binary Liquid-Liquid System
Robert N. Cakounes	Chemistry	Worcester Polytechnic Institute	Quantitative Analysis of the Adhesion Atrength of Silver Nanoparticles to Substrates
Rebecca L. Gaddis	Physics/Astronomy	Worcester Polytechnic Institute	Determining the Parameters of Force Curves on <i>Pseudomonas aeruginosa</i> : Is ôsö the Root Spacing or the Mesh Spacing?
Ivan E. Ivanov	Engineering	Worcester Polytechnic Institute	Developing and Characterizing a Novel Antimicrobial Surface Coating Technique
Gawain Thomas	Physics/Astronomy	Worcester Polytechnic Institute	Does Controlled Roughening of a Surface Increase its Capacitance?
Anna L. Holtvoigt	Ecology	Wright State University	Habitat preferences of pileated woodpeckers (<i>Drocopus pileatus</i>)
Connor A. Moseley	Systematics/Evolutionary Biology	Yale University	Determination of population genetic structure of the ctenophore, <i>Mnemiopsis leidyi</i> , an invasive marine species: development of new genetic markers for field studies