

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

Alphabetical by Subject

Jennifer L. Baker	Anthropology	George Washington University	A comparative genomic investigation of the role for the NMDA receptor gene GRIN3A in synaptic plasticity
Callista J. Holmes	Anthropology	Indiana University of Pennsylvania	Modeling Magnetic Signatures of Sunken Ships: 1750-1900
Jason L. Kupersmith	Anthropology	University of South Florida	Elemental Analysis and Human Diet: A PXR Analysis of Human Remains found at Choquepukio, Peru
Cari Lewis	Anthropology	Indiana University - Bloomington	Validating Noninvasive Measures of Immune Function in Nonhuman Primates
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
Erin J. Peregrine Antalis	Anthropology	University of Illinois at Chicago	Healthcare Access and Unauthorized Status: Urban Refugees in Tanzania
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
David R. Samson	Anthropology	Indiana University - Bloomington	GREAT APE SLEEP ARCHITECTURE: Using infra-red videography to generate sleep quotas in Pongo pygmaeus
Jessica T. Walz	Anthropology	Ohio State University	Do nonseasonal breeders challenge the challenge hypothesis? An initial test in olive baboons
Laura Alberici da Barbiano	Behavioral Ecology	Texas State University-San Marcos	Interaction between stress hormones and heterospecific encounters in an unisexual-bisexual mating complex

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Erika R. Arnold	Behavioral Ecology	University of Illinois at Chicago	Immunological responses in mice to larval tick infestation
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> ?
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
Andrea S. Grunst	Behavioral Ecology	University of California-Riverside	DOES ANTIOXIDANT PHYSIOLOGY MEDIATE CONDITION-DEPENDENT EXPRESSION OF SEXUAL PIGMENTATION AND ALTERNATIVE REPRODUCTIVE STRATEGIES?
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
Matthew F. Jones	Behavioral Ecology	University of Kansas	Neotechnology of Bats: Implications for Pterosaur Locomotion
Rebecca A. Kelley	Behavioral Ecology	Columbia University	Testing the epigenetic mechanisms of behavior in a cooperatively breeding bird
Katie LaBarbera	Behavioral Ecology	University of California-Berkeley	Cryptic elevational range shifts in response to climate change in the Dark-eyed Junco
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?
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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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
Malavika Rajeev	Behavioral Ecology	University of Georgia	Examining <i>Toxoplasma</i> Infection in a Wild Population of Grant's Gazelle
Elizabeth M. Schultz	Behavioral Ecology	University of California-Davis	Investigating Seasonal Modulation in the Sickness Response in an Opportunistic Breeder, the Red Crossbill
Brett M. Seymoure	Behavioral Ecology	Arizona State University	<i>Heliconius</i> mimicry rings in a new light
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>
Biz R. Turnell	Behavioral Ecology	Cornell University	Sperm allocation in a Hawaiian swordtail cricket
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>)
Molly C. Womack	Behavioral Ecology	Colorado State University	Losing Your Senses: The Evolution of "Earless" Frogs
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
Travis J. Bernardo	Cell Biology/Biochemistry	Fordham University	The Role of Enhancer-Promoter Interactions in the Hormonal Activation of <i>Drosophila</i> Gene Expression

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Timothy Break	Cell Biology/Biochemistry	University of North Texas	Delineating the impact of ecSOD on phagocytic and myeloid-derived suppressor cells during infection
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
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
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
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
Anna C. Cochrane	Cell Biology/Biochemistry	Appalachian State University	Characterization and embryonic expression of a novel gene linked to meis2.2 in zebrafish
Clayton M. Crabtree	Cell Biology/Biochemistry	Marshall University	Alpha7-nicotinic Receptor Antagonists in Retinal Angiogenesis
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
Kevin M. Dorn	Cell Biology/Biochemistry	University of Minnesota, Twin Cities	Characterization of microRNA networks controlling plant architecture
Bryan Ervin	Cell Biology/Biochemistry	California State University-Chico	Hot springs fungi: potential for cellulosic biofuels

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Rebekah C. Gullberg	Cell Biology/Biochemistry	George Washington University	Endotoxemia and Neurogenic Inflammation
Susan P. John	Cell Biology/Biochemistry	University of Louisiana at Lafayette	Determination of Location and Dynamics of Lipid Droplets in Chara Internodal Cells
Amrita B. Koushik	Cell Biology/Biochemistry	Clemson University	Role of Phosphatidylinositol-4,5-bisphosphate in Virulence in the Protozoan Parasite, <i>Entamoeba histolytica</i>
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>
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
Brandt D. Pence	Cell Biology/Biochemistry	University of Illinois at Urbana-Champaign	Macrophage function in obesity and influenza infection
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
Devon M. Ptak	Cell Biology/Biochemistry	Purdue University-West Lafayette	A novel Egr1 gene network for photoreceptor development and function
Myurajan Rubaharan	Cell Biology/Biochemistry	George Mason University	Genetic analysis of miRNA mediated regulation of dendrite development
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)

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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
Emilia M. Sogin	Cell Biology/Biochemistry	University of Hawaii at Manoa	Using Metabolomics to Investigate Implications of Diversity in Coral-Symbiodinium Unions
Anjali Soni	Cell Biology/Biochemistry	Villanova University	The Low Fluid Shear Response in Enterobacteria
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
Kevin Urstadt	Cell Biology/Biochemistry	University of California-Riverside	GABA-receptive Nucleus Accumbens Shell Neurons Project Directly to the Tuberal Lateral Hypothalamus
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?
Barry M. Zee	Cell Biology/Biochemistry	Princeton University	Histone methylation dynamics across the cell cycle
Robert N. Cakounes	Chemistry	Worcester Polytechnic Institute	Quantitative Analysis of the Adhesion Strength of Silver Nanoparticles to Substrates
Zach W. Gilbert	Chemistry	Appalachian State University	Synthesis and Characterization of Cobaloximes as Hydrogen Catalysts
Michael J. Lynch	Chemistry	Emmanuel College	Investigation into the role of copper in the enzyme lysyl oxidase
Nidia N. Rivera Reyna	Chemistry	Universidad Autnoma de Nuevo Len	PHOTOCATALYTIC REMOVAL OF ARSENIC SPECIES FROM WATER SAMPLES USING ZnO AS CATALYST
Junpeng Wang	Chemistry	Duke University	A Universal Handle for SMFS

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Yisheng Xu	Chemistry	University of Massachusetts Amherst	Effects of Heparin on Insulin Amyloidogenesis: Inhibition vs Promotion
Estella Yee	Chemistry	Willamette University	NMR Spectroscopy Investigation of a Phase Diagram Anomaly in the o-toluidine + n-hexane Binary Liquid-Liquid System
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)
Alireza Goudarzi	Computer Science/Mathematics	Portland State University	On the Effects of Heterogeneity in Random Dynamical Networks
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
Jason Baumsteiger	Conservation Biology	University of California-Merced	Impact of dams on species boundaries in freshwater sculpin (<i>Cottus</i>)
Anthony Caragiulo	Conservation Biology	Fordham University	Landscape genetics of puma (<i>Puma concolor</i>) populations in the Neotropics
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
Anthony J. Giordano	Conservation Biology	Texas Tech University	Status, Ecology, and Genetic Population Structure of Jaguars (<i>Panthera onca</i>) in the Paraguayan Chaco
Alona Gukasova	Conservation Biology	Saint Petersburg State University	Application of new system of bat fauna inventory in Gorgany Nature Reserve (Western Ukraine)
Tabitha C. Hui	Conservation Biology	Hokkaido University	Spatial, temporal and dietary overlap between harbour seals and fisheries in Japan: Conflict at sea?

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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
Suzanne K. Macey	Conservation Biology	Fordham University	The Genetics of Bog Turtle Breeding Ecology and Implications for Conservation
Karine E. Posbic	Conservation Biology	Louisiana State University-Baton Rouge	Genetic diversity of an introduced coral species, <i>Oculina patagonica</i>
Jessica Sherburne	Conservation Biology	Boise State University	Food Chain Differences Affect Heavy Metals in Bird Eggs in Boise, Idaho
Jennifer Smith	Conservation Biology	New Mexico State University	Habitat and habits of the Chihuahuan Desert mud turtle, <i>Kinosternon hirtipes</i>
Annalisa Stephens	Conservation Biology	University of Alaska Fairbanks	The potential for adaptation of <i>Papaver alboroseum</i> , a rare endemic poppy, to projected climate change in Alaska
Jessica D. Stephens	Conservation Biology	University of Georgia	Comparative phylogeography of <i>Darlingtonia californica</i> fens: Implications for conservation
Kevin J. Tewell	Conservation Biology	Western Kentucky University	Comparative landscape genetics of the marbled salamander, <i>Ambystoma opacum</i>
Jana Van den Abbeele	Conservation Biology	University of Bristol	How do blue-eyed black lemurs (<i>Eulemur flavifrons</i>) in Sahamalaza, North-western Madagascar, deal with the particularly low protein content of their fruit diet?
Katherine E. Wyman	Conservation Biology	University of Minnesota, Twin Cities	Impacts of Double-crested Cormorants and their Management on Co-nesting Wading Birds

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Elizabeth E. Barnes	Ecology	University of Denver	Host-plant preference variability in the calleta silkmoth (<i>Eupackardia calleta</i>): A transition to dietary specialization?
Rosalind A. Becker	Ecology	Fordham University	Impact of soil nutrients on ectomycorrhizal fungal community structure along the New York City urbanization gradient
Lindsey A. Carr	Ecology	University of North Carolina at Chapel Hill	Physical Forcing of the Spatiotemporal Dynamics of the Galapagos Marine Ecosystem
Benjamin E. Carter	Ecology	Syracuse University	Using a Synthetic Mutualism to Evaluate the Evolutionary Ecology of Mutualism
Ellee G. Cook	Ecology	Trinity University	Parasite-mediated sexual displays in lizards
Christelle Couchoux	Ecology	University of Helsinki	How effective is the post-oviposition marking behaviour of the parasitoid wasp <i>Hyposoter hortocola</i> ?
Emily M. Dangremond	Ecology	University of California-Berkeley	Seed predation and recruitment of a rare mangrove
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
Christa E. Fettig	Ecology	Colorado State University	Does competition or water availability influence population fluctuations of the invasive weed <i>Hyoscyamus niger</i> ?
Juan Pablo Gomez	Ecology	University of Florida	Detecting mechanisms that drive species diversity along a forest moisture gradient in Colombia
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

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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>)
Anna L. Holtvoigt	Ecology	Wright State University	Habitat preferences of pileated woodpeckers (<i>Drocopus pileatus</i>)
Tyler D. Hoskins	Ecology	Miami University Ohio	Variation in pesticide tolerance between diploid and tetraploid treefrogs: does a duplicate genome confer increased resistance?
Matthew H. Koski	Ecology	University of Pittsburgh	Understanding the evolution of a widespread ultraviolet floral pattern: a phylogenetic approach
Matthew S. Lattanzio	Ecology	Ohio University	Fluctuating asymmetry, performance, and fitness of tree lizards across a habitat-disturbance gradient
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
Samantha A. Mears	Ecology	East Carolina University	Diversification and Speciation in the <i>Fundulus diaphanus</i> Complex
Tracy Misiewicz	Ecology	University of California-Berkeley	Ecological Speciation in an Amazon Tree: <i>Protium subserratum</i> (Burseraceae)
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?
James L. O'Donnell	Ecology	University of California-Santa Cruz	Connectivity of isolated island populations of an anemonefish in the Western Indian Ocean
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

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Rebekah Outman	Ecology	University of Miami	Environmental Factors Contributing to Invasive Plant Success
Reena U. Palanivel	Ecology	Villanova University	Microbes Mend Oil Spills? - Investigating How Nitrogen Impacts Oil Breakdown
Justin R. Pool	Ecology	Fordham University	Blacklegged tick (<i>Ixodes scapularis</i>) survival: Do vector-borne pathogens help?
Lisa Powers	Ecology	University of Illinois at Urbana-Champaign	Effects of non-lethal <i>Geomyces destructans</i> infection on female bat reproductive condition
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
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
Christie L. Sampson	Ecology	Clemson University	The Role of Fire in Maintaining Asian Elephant Habitat in Sri Lanka
Lauren M. Smith	Ecology	Indiana University - Bloomington	Multi-factor manipulation of invasion mechanisms for garlic mustard (<i>Alliaria petiolata</i>)
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>)
Deborah M. Visco	Ecology	Tulane University	Demographic mechanisms for population decline in understory insectivorous passerine birds occupying fragmented tropical rainforest
Jason R. Warner	Ecology	California State University-Northridge	Cold-Hardiness of <i>Liolaemid</i> Lizards along an Elevation Gradient

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Sarah B. Whorley	Ecology	Fordham University	EFFECT OF AGRICULTURAL BEST MANAGEMENT PRACTICES ON STREAM PERIPHYTON NUTRITIONAL QUALITY AND FOOD WEB STABILITY
Carol Yang	Ecology	University of Virginia	Deuterium Isotopic Signatures of Terrestrial Vegetation Undergoing Decomposition in Aquatic Systems
John G. Zaharick	Ecology	Towson University	An experimental test of small mammal dispersal of mycorrhizal fungi spores
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
Jeremy R. Anderson	Engineering	Milwaukee School of Engineering	Solar Thermal Biomass Processor
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
Siyao Huang	Engineering	North Carolina State University	Visualizations of Stress Distributions in Heart Valve Tissues
Ivan E. Ivanov	Engineering	Worcester Polytechnic Institute	Developing and Characterizing a Novel Antimicrobial Surface Coating Technique
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
Manjari S. Kulkarni	Engineering	Portland State University	Memristor-based Reservoir Computing: A New Computing Paradigm
Chao-Xuan Liu	Engineering	Louisiana State University-Baton Rouge	Template-free Micropatterning of Elastomer Composites via Laser Ablation

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Alan Westbay	Engineering	Mercer University	Flywheel Regenerative Braking Employing a Continuously Variable Transmission
Katherine Potter	Hydrology/Geomorphology	Utah State University	Detrital zircon provenance: evidence for an evolving Snake River watershed in the wake of the Yellowstone hotspot
Kathryn A. Semmens	Hydrology/Geomorphology	Lehigh University	Monitoring short term snowmelt events in high latitude drainage basins
Jamie Fearon	Paleontology/Sedimentation	Montana State University-Bozeman	Comparative Shoulder and forelimb morphology of Ornithopoda: Does <i>Oryctodromeus cubicularis</i> exhibit specialization for digging?
Michelle Labbe	Paleontology/Sedimentation	Sam Houston State University	Impact of Diet and Size on the Bone Robusticity of Southern High Plains Bison
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
William R. Porter	Paleontology/Sedimentation	Ohio University	Physiological and behavioral implications of dinosaur vascular systems
Hannah M. Aird	Petrology/Geochemistry	Duke University	A Study of the accessory mineral assemblages in the Stillwater Complex, Montana
Adam C. Curry	Petrology/Geochemistry	University of North Carolina at Chapel Hill	The role of shear heating in producing crystal-free obsidian

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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)
Sharmila J. Giri	Petrology/Geochemistry	University of Cincinnati	Selective Transport of Terpenoid Biomarkers: Defining the Mechanism
Pin-Chin Hsu	Petrology/Geochemistry	Lehigh University	Factors Influencing Mercury Photoreactions in Fresh Waters: An Experimental Approach Using Light, DOC, Halogen, pH, and Temperature
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
Adam R. Sarafian	Petrology/Geochemistry	University of Georgia	Apatite from eucrites: Implications for the volatile budget of the HED parent body
Jacob Arnold	Physics/Astronomy	University of California-Santa Cruz	Kinematic Evidence for the Role of Minor Mergers in Building Early-type Galaxy Haloes
Heather M. Cegla	Physics/Astronomy	Queen's University Belfast	The Effects of Astrophysical Noise: Towards Detecting Low-mass Planets
Ke-Jung Chen	Physics/Astronomy	University of Minnesota, Twin Cities	The First Galaxies: Formation and Observational Signature
Rebecca L. Gaddis	Physics/Astronomy	Worcester Polytechnic Institute	Determining the Parameters of Force Curves on <i>Pseudomonas aeruginosa</i> : Is the Root Spacing or the Mesh Spacing?
Joseph G. Lambert	Physics/Astronomy	Drexel University	Macroscopic Quantum Effects in Al/Graphene/Al Josephson Junctions

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Ryan C. Terrien	Physics/Astronomy	Pennsylvania State University	Spectroscopic Determination of M Dwarf Metallicities
Gawain Thomas	Physics/Astronomy	Worcester Polytechnic Institute	Does Controlled Roughening of a Surface Increase its Capacitance?
Jacob R. Andrew	Physiology/Functional Morphology	Eastern Washington University	Is recovery from L4 arrest in <i>Caenorhabditis elegans</i> a fitness component?
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
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
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>
Jose G. Crespo	Physiology/Functional Morphology	University of Utah	Influence of varying sensory input on behavioral performance of animals
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>)
Justin M. Eichinger	Physiology/Functional Morphology	University of North Carolina at Wilmington	Neuromuscular Facilitation and Swimming Behavior in Box Jellyfish (<i>Cubozoa</i>)
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
Dennis J. Evangelista	Physiology/Functional Morphology	University of California-Berkeley	Aerial righting and directed aerial descent during ontogeny in Chukars (<i>Alectoris chukar</i>)

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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?
Gayani K. Nanayakkara	Physiology/Functional Morphology	Auburn University	Cardioprotective Mechanism of PPAR delta-HIF1 signaling in the Ischemic Diabetic Heart
Beth A. Reinke	Physiology/Functional Morphology	Indiana University - Bloomington	The purpose of plastron coloration in the painted turtle, <i>Chrysemys picta</i>
Kristen A. Roosa	Physiology/Functional Morphology	Cornell University	In vitro analysis of seasonal differences in ovarian primordial follicle recruitment rate
Ben Smit	Physiology/Functional Morphology	University of Pretoria	The role of water availability in thermoregulation at high temperatures
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
Alyssa Teat	Physiology/Functional Morphology	Appalachian State University	Influence of biochar on physiological responses and drought tolerance of <i>Miscanthus x giganteus</i>
Brandy P. Velten	Physiology/Functional Morphology	University of North Carolina at Wilmington	Comparative morphology of the swimming muscle of extreme deep-diving cetaceans
Kit C. Wilkinson	Physiology/Functional Morphology	Northern Arizona University	Propulsive force calculations of a frog jumping from the water's surface
Chi Zhang	Physiology/Functional Morphology	University of Louisville	Glycine receptor alpha 2 subunit specific inhibition in mouse retina
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
Steven R. Boomhower	Psychology	Idaho State University	Haloperidol's effects on impulsive choice in the genetically obese Zucker rat

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Lisa M. Burks	Psychology	University of Wisconsin-Milwaukee	Transition Readiness and Health Literacy in Young Adults with Sickle Cell Disease
Aniruddha K. Deshpande	Psychology	University of Cincinnati	Tinnitus Mapping of Auditory and Psychological Areas in Humans using fMRI/DTI
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
Jamie N. Hershaw	Psychology	College of William and Mary	ERP Neurometrics for Detection of Early-Stage Alzheimer's Disease
Nakieta M. Lankster	Psychology	Argosy University	Treatment Affects for Intergenerational Trauma in Survivors of Genocide Residing in South Africa
Lawrence Patihis	Psychology	University of California-Irvine	False Memory in Highly Superior Autobiographical Memory Individuals
Maria M. Santos	Psychology	University of Wisconsin-Milwaukee	Measuring Activation and Avoidance in Latinos with Depression
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
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
Felicia M. Aronson	Systematics/Evolutionary Biology	Colby College	The Genetics of Innate Immunity and Disease Resistance in Reef-Building Corals
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>

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Juleen M. Dickson	Systematics/Evolutionary Biology	University of Rhode Island	Reduced lateral line canal development in the round goby, <i>Neogobius melanostomus</i>
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>)
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
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
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>)
Fay-Wei Li	Systematics/Evolutionary Biology	Duke University	Seeing the light: does the molecular evolution of a chimeric photoreceptor underlie fern diversification?
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
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

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

Alphabetical by Subject

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
Diego E. Reyes	Systematics/Evolutionary Biology	University of Texas at El Paso	THE EXTENT OF CRYPTIC SPECIATION WITHIN Epiphanes chihuahuensis (MONOGONONTA: ROTIFERA)
Craig E. Stanley	Systematics/Evolutionary Biology	Temple University	ôIslandö speciation of the grassland anole, Anolis auratus, in disturbed vs. undisturbed habitats
Oscar Toro-Nunez	Systematics/Evolutionary Biology	University of Kansas	Plant Diversification Mediated by Extreme Aridity in the Atacama Desert: Dynamic Population Genetics in Schizopetalon (Brassicaceae)
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
Jonathan R. Pratt	Tectonics/Geophysics	University of South Carolina	Detrital thermochronology of the Taza-Guercif Basin, Morocco and Initiation of the Messinian Salinity Crisis
Guangyu Xu	Tectonics/Geophysics	Rutgers, The State University of New Jersey	The investigation of acoustic scattering from a deep-sea hydrothermal plume