

**Grants from the October 15, 2011 Application Deadline
Alphabetical by Research Field**

Research Field	Name	Institution	Title
Anthropology	Jennifer Baker	George Washington University	A comparative genomic investigation of the role for the NMDA receptor gene GRIN3A in synaptic plasticity
Anthropology	Callista Holmes	Indiana University of Pennsylvania	Modeling Magnetic Signatures of Sunken Ships: 1750-1900
Anthropology	Jason Kupersmith	University of South Florida	Elemental Analysis and Human Diet: A PXRf Analysis of Human Remains found at Choquepukio, Peru.
Anthropology	Cari Lewis	Indiana University - Bloomington	Validating Noninvasive Measures of Immune Function in Nonhuman Primates
Anthropology	Theodore Marks	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.
Anthropology	Erin Peregrine Antalis	University of Illinois at Chicago	Healthcare Access and Unauthorized Status: Urban Refugees in Tanzania
Anthropology	Kendra Philmon	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.
Anthropology	David Samson	Indiana University - Bloomington	GREAT APE SLEEP ARCHITECTURE: Using infra-red videography to generate sleep quotas in Pongo pygmaeus
Anthropology	Jessica Walz	The Ohio State University	Do nonseasonal breeders challenge the "challenge hypothesis"? An initial test in olive baboons
Behavioral Ecology	Laura Alberici da Barbiano	Texas State University-San Marcos	Interaction between stress hormones and heterospecific encounters in an unisexual-bisexual mating complex.
Behavioral Ecology	Erika Arnold	University of Illinois at Chicago	Immunological responses in mice to larval tick infestation
Behavioral Ecology	Carolyn Bauer	Tufts University	Does plural breeding with communal care buffer post-natal stress in the caviomorph rodent, Octodon degus?

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Behavioral Ecology	Ondi Crino	University of Montana	The forgetful finch: the effects of developmental stress on learning and hippocampal volume in the zebra finch
Behavioral Ecology	Andrea Grunst	University of California-Riverside	DOES ANTIOXIDANT PHYSIOLOGY MEDIATE CONDITION-DEPENDENT EXPRESSION OF SEXUAL PIGMENTATION AND ALTERNATIVE REPRODUCTIVE STRATEGIES?
Behavioral Ecology	Katherine Heldt	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
Behavioral Ecology	Matthew Jones	University of Kansas	Neoichnology of Bats: Implications for Pterosaur Locomotion
Behavioral Ecology	Rebecca Kelley	Columbia University	Testing the epigenetic mechanisms of behavior in a cooperatively breeding bird
Behavioral Ecology	Katie LaBarbera	University of California-Berkeley	Cryptic elevational range shifts in response to climate change in the Dark-eyed Junco
Behavioral Ecology	Joshua LaPergola	Cornell University	Sexual selection in cooperatively breeding societies
Behavioral Ecology	Kevin Loope	Cornell University	Why do some vespine wasp colonies kill their queens?
Behavioral Ecology	Erin McCullough	University of Montana	Elaborate animal weapons: mechanical constraints on horn size in a giant rhinoceros beetle
Behavioral Ecology	Leah Nettle	State University of New York at Binghamton	Food or fertility?: Functional study of the female American Crow (<i>Corvus brachyrhynchos</i>) nest call
Behavioral Ecology	Malavika Rajeev	University of Georgia	Examining <i>Toxoplasma</i> Infection in a Wild Population of Grant's Gazelle
Behavioral Ecology	Elizabeth Schultz	University of California-Davis	Investigating Seasonal Modulation in the Sickness Response in an Opportunistic Breeder, the Red Crossbill
Behavioral Ecology	Brett Seymoure	Arizona State University	Heliconius mimicry rings in a new light

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Behavioral Ecology	Tyler Sloan	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> .
Behavioral Ecology	Biz Turnell	Cornell University	Sperm allocation in a Hawaiian swordtail cricket
Behavioral Ecology	Kim Valenta	University of Toronto	The role of colour vision and olfaction in foraging by brown lemurs (<i>Eulemur fulvus fulvus</i>)
Behavioral Ecology	Molly Womack	Colorado State University	Losing Your Senses: The Evolution of 'Earless' Frogs
Cell Biology/Biochemistry	Subhasree Basu	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
Cell Biology/Biochemistry	Travis Bernardo	Fordham University	The Role of Enhancer-Promoter Interactions in the Hormonal Activation of <i>Drosophila</i> Gene Expression
Cell Biology/Biochemistry	Timothy Break	University of North Texas Health Science Center	Delineating the impact of ecSOD on phagocytic and myeloid-derived suppressor cells during infection
Cell Biology/Biochemistry	Carl Breidenbach	Bowling Green State University	Phospholipid Dependency of Membrane-Associated Pyridine Nucleotide Utilizing Activities of Adult <i>Hymenolepis diminuta</i> (Cestoda) Mitochondria
Cell Biology/Biochemistry	Kelsey Calhoun	Middlebury College	The Effects of Testosterone on Different Stages of Neural Development in the Dentate Gyrus of Adult Male Rats
Cell Biology/Biochemistry	Gregory Capece	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
Cell Biology/Biochemistry	Chester Chia	Rutgers, The State University of New Jersey	Arc (Arg3.1) Protein Up-Regulation in Dorsal and Ventral Hippocampus is Critical for Memory Reconsolidation
Cell Biology/Biochemistry	Anna Cochrane	Appalachian State University	Characterization and embryonic expression of a novel gene linked to <i>meis2.2</i> in zebrafish

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Cell Biology/Biochemistry	Clayton Crabtree	Marshall University	Alpha7-nicotinic Receptor Antagonists in Retinal Angiogenesis
Cell Biology/Biochemistry	Joel Credle	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.
Cell Biology/Biochemistry	Kevin Dorn	University of Minnesota, Twin Cities	Characterization of microRNA networks controlling plant architecture
Cell Biology/Biochemistry	Bryan Ervin	California State University-Chico	Hot springs fungi: potential for cellulosic biofuels
Cell Biology/Biochemistry	Rebekah Gullberg	George Washington University	Endotoxemia and Neurogenic Inflammation
Cell Biology/Biochemistry	Susan John	University of Louisiana at Lafayette	Determination of Location and Dynamics of Lipid Droplets in Chara Internodal Cells
Cell Biology/Biochemistry	Amrita Koushik	Clemson University	Role of Phosphatidylinositol-4,5-bisphosphate in Virulence in the Protozoan Parasite, Entamoeba histolytica
Cell Biology/Biochemistry	Molly McQuilken	Cedar Crest College	Analysis of the role of Replication Protein A phosphorylation in maintaining telomere length in the budding yeast <i>Saccharomyces cerevisiae</i>
Cell Biology/Biochemistry	Rangarajan Padmanabhan	University of Maryland, College Park	Role of endocytosis in Post-Translational Down-regulation of Cadherin6B in Premigratory Neural Crest Cells
Cell Biology/Biochemistry	Brandt Pence	University of Illinois at Urbana-Champaign	Macrophage function in obesity and influenza infection
Cell Biology/Biochemistry	Christopher Petersen	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
Cell Biology/Biochemistry	Devon Ptak	Purdue University-West Lafayette	A novel Egr1 gene network for photoreceptor development and function
Cell Biology/Biochemistry	Myurajan Rubaharan	George Mason University	Genetic analysis of miRNA mediated regulation of dendrite development

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Cell Biology/Biochemistry	Elizabeth Shuler	Bowling Green State University	Effects of plant flavonoids on the mitochondrial NADPH ⁺ NAD transhydrogenase of adult <i>Hymenolepis diminuta</i> (Cestoda)
Cell Biology/Biochemistry	Levent Sipahi	Wayne State University School of Medicine	Methylation variation in de novo DNA methyltransferases is associated with traumatic stress in the Detroit Neighborhood Health Study.
Cell Biology/Biochemistry	Emilia Sogin	University of Hawaii at Manoa	Using Metabolomics to Investigate Implications of Diversity in Coral-Symbiodinium Unions
Cell Biology/Biochemistry	Anjali Soni	Villanova University	The Low Fluid Shear Response in Enterobacteria
Cell Biology/Biochemistry	Robert Stanley	Appalachian State University	Characterization of the Chemotactic Properties of VEGF on Leukocytes During Postpartum Repair of the Birth Canal
Cell Biology/Biochemistry	Kevin Urstadt	University of California-Riverside	GABA-receptive Nucleus Accumbens Shell Neurons Project Directly to the Tuberal Lateral Hypothalamus
Cell Biology/Biochemistry	Eoin Whelan	Old Dominion University	Do gain-of-function mutations in the RET tyrosine kinase provide spermatogonial stem cells with a selective advantage?
Chemistry	Robert Cakounes	Worcester Polytechnic Institute	Quantitative Analysis of the Adhesion Strength of Silver Nanoparticles to Substrates
Chemistry	Zach Gilbert	Appalachian State University	Synthesis and Characterization of Cobaloximes as Hydrogen Catalysts
Chemistry	Michael Lynch	Emmanuel College	Investigation into the role of copper in the enzyme lysyl oxidase
Chemistry	Nidia Rivera Reyna	Universidad Autónoma de Nuevo León	PHOTOCATALYTIC REMOVAL OF ARSENIC SPECIES FROM WATER SAMPLES USING ZnO AS CATALYST
Chemistry	Junpeng Wang	Duke University	A Universal Handle for SMFS
Chemistry	Yisheng Xu	University of Massachusetts Amherst	Effects of Heparin on Insulin Amyloidogenesis: Inhibition vs Promotion
Chemistry	Estella Yee	Willamette University	NMR Spectroscopy Investigation of a Phase Diagram Anomaly in the o-toluidine + n-hexane Binary Liquid-Liquid System

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Chemistry	Zhun Zhao	Rice University	Modulating the catalysis for glycerol oxidation using bimetallic M-on-gold colloidal catalysts (M=Pt, Cu, Fe, Ni, Co, Zn)
Computer Science/Mathematics	Alireza Goudarzi	Portland State University	On the Effets of Heterogeneity in Random Dynamical Networks
Conservation Biology	Monette Auman	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
Conservation Biology	Jason Baumsteiger	University of California-Merced	Impact of dams on species boundaries in freshwater sculpin (<i>Cottus</i>)
Conservation Biology	Anthony Caragiulo	Fordham University	Landscape genetics of puma (<i>Puma concolor</i>) populations in the Neotropics
Conservation Biology	Cassie Dresser	Central Michigan University	Genetic assessment of invasive rusty crayfish in the Upper Susquehanna River Basin and the role of anthropogenic introductions
Conservation Biology	Anthony Giordano	Texas Tech University	Status, Ecology, and Genetic Population Structure of Jaguars (<i>Panthera onca</i>) in the Paraguayan Chaco
Conservation Biology	Alona Gukasova	Saint Petersburg State University	Application of new system of bat fauna inventory in Gorgany Nature Reserve (Western Ukraine)
Conservation Biology	Tabitha Hui	Hokkaido University	Spatial, temporal and dietary overlap between harbour seals and fisheries in Japan: Conflict at sea?
Conservation Biology	Keng-Lou Hung	University of California-San Diego	Investigating foraging ecology of native bees (Hymenoptera: Anthophila) in habitats fragmented by urbanization via stable isotope analysis
Conservation Biology	Suzanne Macey	Fordham University	The Genetics of Bog Turtle Breeding Ecology and Implications for Conservation
Conservation Biology	Karine Posbic	Louisiana State University-Baton Rouge	Genetic diversity of an introduced coral species, <i>Oculina patagonica</i>
Conservation Biology	Jessica Sherburne	Boise State University	Food Chain Differences Affect Heavy Metals in Bird Eggs in Boise, Idaho

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Conservation Biology	Jennifer Smith	New Mexico State University	Habitat and habits of the Chihuahuan Desert mud turtle, <i>Kinosternon hirtipes</i>
Conservation Biology	Annalisa Stephens	University of Alaska Fairbanks	The potential for adaptation of <i>Papaver alboroseum</i> , a rare endemic poppy, to projected climate change in Alaska
Conservation Biology	Jessica Stephens	University of Georgia	Comparative phylogeography of <i>Darlingtonia californica</i> fens: Implications for conservation
Conservation Biology	Kevin Tewell	Western Kentucky University	Comparative landscape genetics of the marbled salamander, <i>Ambystoma opacum</i>
Conservation Biology	Jana Van den Abbeele	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?
Conservation Biology	Katherine Wyman	University of Minnesota, Twin Cities	Impacts of Double-crested Cormorants and their Management on Co-nesting Wading Birds
Ecology	Elizabeth Barnes	University of Denver	Host-plant preference variability in the calleta silkmoth (<i>Eupackardia calleta</i>): A transition to dietary specialization?
Ecology	Rosalind Becker	Fordham University	Impact of soil nutrients on ectomycorrhizal fungal community structure along the New York City urbanization gradient
Ecology	Lindsey Carr	University of North Carolina at Chapel Hill	Physical Forcing of the Spatiotemporal Dynamics of the Galapagos Marine Ecosystem
Ecology	Benjamin Carter	Syracuse University	Using a Synthetic Mutualism to Evaluate the Evolutionary Ecology of Mutualism
Ecology	Ellee Cook	Trinity University	Parasite-mediated sexual displays in lizards
Ecology	Christelle Couchoux	University of Helsinki	How effective is the post-oviposition marking behaviour of the parasitoid wasp <i>Hyposoter horticola</i> ?
Ecology	Emily Dangremond	University of California-Berkeley	Seed predation and recruitment of a rare mangrove

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Ecology	Sydney Everhart	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
Ecology	Christa Fettig	Colorado State University	Does competition or water availability influence population fluctuations of the invasive weed <i>Hyoscyamus niger</i> ?
Ecology	Juan Gomez	University of Florida	Detecting mechanisms that drive species diversity along a forest moisture gradient in Colombia
Ecology	Eric Griffin	University of Pittsburgh	The last frontier of biodiversity: On the abundance and impact of bacteria on arboreal species within a tropical forest.
Ecology	Rebecca Heiss	University of Memphis	Oxidative damage and early life trade-offs in the cooperatively breeding Florida Scrub-Jay (<i>Aphelocoma coerulescens</i>)
Ecology	Anna Holtvoigt	Wright State University	Habitat preferences of pileated woodpeckers (<i>Drocopus pileatus</i>)
Ecology	Tyler Hoskins	Miami University Ohio	Variation in pesticide tolerance between diploid and tetraploid treefrogs: does a duplicate genome confer increased resistance?
Ecology	Matthew Koski	University of Pittsburgh	Understanding the evolution of a widespread ultraviolet floral pattern: a phylogenetic approach
Ecology	Matthew Lattanzio	Ohio University	Fluctuating asymmetry, performance, and fitness of tree lizards across a habitat-disturbance gradient
Ecology	Katie Lemay	University of West Alabama	Effects of Cyanobacteria-Sensitive and Cyanobacteria-Tolerant <i>Daphnia</i> in Freshwater Ecosystems with Toxic Cyanobacterial Blooms
Ecology	Samantha Mears	East Carolina University	Diversification and Speciation in the <i>Fundulus diaphanus</i> Complex
Ecology	Maria Melnechuk	University of Wisconsin-Madison	Shifts in functional diversity as a result of land-use history: implications for ecosystem function and restoration success
Ecology	Tracy Misiewicz	University of California-Berkeley	Ecological Speciation in an Amazon Tree: <i>Protium subserratum</i> (Burseraceae)

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Ecology	Kimberly Morrell	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?
Ecology	James O'Donnell	University of California-Santa Cruz	Connectivity of isolated island populations of an anemonefish in the Western Indian Ocean
Ecology	Itai Opatovsky	Ben-Gurion University of the Negev	Pest consumption and niche separation by common agrobiont and immigrant spider species in the semi-desert wheat fields
Ecology	Rebekah Outman	University of Miami	Environmental Factors Contributing to Invasive Plant Success
Ecology	Reena Palanivel	Villanova University	Microbes Mend Oil Spills? - Investigating How Nitrogen Impacts Oil Breakdown
Ecology	Justin Pool	Fordham University	Blacklegged tick (<i>Ixodes scapularis</i>) survival: Do vector-borne pathogens help?
Ecology	Lisa Powers	University of Illinois at Urbana-Champaign	Effects of non-lethal <i>Geomyces destructans</i> infection on female bat reproductive condition
Ecology	Jessica Pratt	University of California-Irvine	Local adaptation of <i>Artemisia californica</i> populations: implications for insect communities and restoration in a changing environment
Ecology	Jamie Rafter	University of Rhode Island	Effect of ground-foraging beetle on the impacts of adult vs larval ladybeetles on aphid population growth
Ecology	Christie Sampson	Clemson University	The Role of Fire in Maintaining Asian Elephant Habitat in Sri Lanka
Ecology	Lauren Smith	Indiana University - Bloomington	Multi-factor manipulation of invasion mechanisms for garlic mustard (<i>Alliaria petiolata</i>)
Ecology	Lily Tarjan	University of California-Santa Cruz	Determinants of territory quality and male reproductive success in Southern sea otters (<i>Enhydra lutris nereis</i>)
Ecology	Deborah Visco	Tulane University	Demographic mechanisms for population decline in understory insectivorous passerine birds occupying fragmented tropical rainforest
Ecology	Jason Warner	California State University-Northridge	Cold-Hardiness of Liolaemid Lizards along an Elevation Gradient

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Ecology	Sarah Whorley	Fordham University	EFFECT OF AGRICULTURAL BEST MANAGEMENT PRACTICES ON STREAM PERIPHYTON NUTRITIONAL QUALITY AND FOOD WEB STABILITY.
Ecology	Carol Yang	University of Virginia	Deuterium Isotopic Signatures of Terrestrial Vegetation Undergoing Decomposition in Aquatic Systems
Ecology	John Zaharick	Towson University	An experimental test of small mammal dispersal of mycorrhizal fungi spores
Ecology	Jenny Zambrano	University of Illinois at Chicago	Effects of forest fragmentation in the life history of an animal dispersed tree at Los Tuxtlas, Mexico
Engineering	Jeremy Anderson	Milwaukee School of Engineering	Solar Thermal Biomass Processor
Engineering	Nikolaos Apsilidis	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
Engineering	Siyao Huang	North Carolina State University	Visualizations of Stress Distributions in Heart Valve Tissues
Engineering	Ivan Ivanov	Worcester Polytechnic Institute	Developing and Characterizing a Novel Antimicrobial Surface Coating Technique
Engineering	Atul Kajale	University of Alabama at Birmingham	Estimation of Condensate Recovery from air handling units of medical buildings at University of Alabama at Birmingham
Engineering	Manjari Kulkarni	Portland State University	Memristor-based Reservoir Computing: A New Computing Paradigm
Engineering	Chao-Xuan Liu	Louisiana State University-Baton Rouge	Template-free Micropatterning of Elastomer Composites via Laser Ablation
Engineering	Alan Westbay	Mercer University	Flywheel Regenerative Braking Employing a Continuously Variable Transmission
Hydrology/Geomorphology	Katherine Potter	Utah State University	Detrital zircon provenance: evidence for an evolving Snake River watershed in the wake of the Yellowstone hotspot

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Hydrology/Geomorphology	Kathryn Semmens	Lehigh University	Monitoring short term snowmelt events in high latitude drainage basins
Paleontology/Sedimentation	Jamie Fearon	Montana State University-Bozeman	Comparative Shoulder and forelimb morphology of Ornithopoda: Does <i>Oryctodromeus cubicularis</i> exhibit specialization for digging?
Paleontology/Sedimentation	Michelle Labbe	Sam Houston State University	Impact of Diet and Size on the Bone Robusticity of Southern High Plains Bison
Paleontology/Sedimentation	Subhronil Mondal	University of South Florida	Do Mass Extinction Events Disrupt Evolutionary Arms Races? A Test Using the Neogene Molluscan Fossil Record of Florida
Paleontology/Sedimentation	Shubhabrata Paul	University of South Florida	Analysis of Selectivity of the Late Neogene Extinctions using Decision Tree Analysis (DAT): a Novel Multivariate Approach
Paleontology/Sedimentation	William Porter	Ohio University	Physiological and behavioral implications of dinosaur vascular systems
Petrology/Geochemistry	Hannah Aird	Duke University	A Study of the accessory mineral assemblages in the Stillwater Complex, Montana
Petrology/Geochemistry	Adam Curry	University of North Carolina at Chapel Hill	The role of shear heating in producing crystal-free obsidian
Petrology/Geochemistry	Cole Edwards	Ohio State University	$\delta^{34}\text{S}$ 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)
Petrology/Geochemistry	Sharmila Giri	University of Cincinnati	Selective Transport of Terpenoid Biomarkers: Defining the Mechanism
Petrology/Geochemistry	Pin-Chin Hsu	Lehigh University	Factors Influencing Mercury Photoreactions in Fresh Waters: An Experimental Approach Using Light, DOC, Halogen, pH, and Temperature.

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Petrology/Geochemistry	Roger Putnam	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
Petrology/Geochemistry	Adam Sarafian	University of Georgia	Apatite from eucrites: Implications for the volatile budget of the HED parent body
Physics/Astronomy	Jacob Arnold	University of California-Santa Cruz	Kinematic Evidence for the Role of Minor Mergers in Building Early-type Galaxy Haloes
Physics/Astronomy	Heather Cegla	Queen's University Belfast	The Effects of Astrophysical Noise: Towards Detecting Low-mass Planets
Physics/Astronomy	Ke-Jung Chen	University of Minnesota, Twin Cities	The First Galaxies: Formation and Observational Signature
Physics/Astronomy	Rebecca Gaddis	Worcester Polytechnic Institute	Determining the Parameters of Force Curves on <i>Pseudomonas aeruginosa</i> : Is "s" the Root Spacing or the Mesh Spacing?
Physics/Astronomy	Joseph Lambert	Drexel University	Macroscopic Quantum Effects in AI/Graphene/AI Josephson Junctions
Physics/Astronomy	Ryan Terrien	Pennsylvania State University	Spectroscopic Determination of M Dwarf Metallicities
Physics/Astronomy	Gawain Thomas	Worcester Polytechnic Institute	Does Controlled Roughening of a Surface Increase its Capacitance?
Physiology/Functional Morphology	Jacob Andrew	Eastern Washington University	Is recovery from L4 arrest in <i>Caenorhabditis elegans</i> a fitness component?
Physiology/Functional Morphology	Henry Astley	Brown University	Jumping with your ancestor's legs: the influence of phylogeny and function on musculoskeletal properties in anurans.
Physiology/Functional Morphology	Stanley Bartkowiak	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
Physiology/Functional Morphology	Michael Colgan	Widener University	Effects of Temperature Acclimation on Growth Rates, Diving Times, and Water Temperature Preference in <i>Malaclemys terrapin</i>
Physiology/Functional Morphology	Jose Crespo	University of Utah	Influence of varying sensory input on behavioral performance of animals

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Physiology/Functional Morphology	Maria Clara do Amaral	Miami University	Molecular and physiological basis for geographical variation of freeze tolerance in the wood frog (<i>Rana sylvatica</i>)
Physiology/Functional Morphology	Justin Eichinger	University of North Carolina at Wilmington	Neuromuscular Facilitation and Swimming Behavior in Box Jellyfish (Cubozoa)
Physiology/Functional Morphology	Sherri Emer	Florida Institute of Technology	Determining the behavioral sensitivity of the infrared imaging system in Burmese pythons using thermal discrimination training and operant conditioning
Physiology/Functional Morphology	Dennis Evangelista	University of California-Berkeley	Aerial righting and directed aerial descent during ontogeny in Chukars (<i>Alectoris chukar</i>)
Physiology/Functional Morphology	Matthew Kolmann	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?
Physiology/Functional Morphology	Paloma Larrain Gonzalez	Ben-Gurion University of the Negev	Cutaneous and Respiratory Water Loss in Desert and Mesic Bats in Israel
Physiology/Functional Morphology	Gayani Nanayakkara	Auburn University	Cardioprotective Mechanism of PPAR delta-HIF1 signaling in the Ischemic Diabetic Heart
Physiology/Functional Morphology	Beth Reinke	Indiana University	The purpose of plastron coloration in the painted turtle, <i>Chrysemys picta</i>
Physiology/Functional Morphology	Kristen Roosa	Cornell University	In vitro analysis of seasonal differences in ovarian primordial follicle recruitment rate.
Physiology/Functional Morphology	Ben Smit	University of Pretoria	The role of water availability in thermoregulation at high temperatures
Physiology/Functional Morphology	Alyssa Teat	Appalachian State University	Influence of biochar on physiological responses and drought tolerance of <i>Miscanthus x giganteus</i>
Physiology/Functional Morphology	Brandy Velten	University of North Carolina at Wilmington	Comparative morphology of the swimming muscle of extreme deep-diving cetaceans
Physiology/Functional Morphology	Kit Wilkinson	Northern Arizona University	Propulsive force calculations of a frog jumping from the water's surface
Physiology/Functional Morphology	Chi Zhang	University of Louisville	Glycine receptor alpha 2 subunit specific inhibition in mouse retina

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Psychology	Sandra Alvarado	California State University-San Marcos	A collaborative cross-cultural study with an Ixil, Maya sample: Investigating evolutionary influence on visual information processing.
Psychology	Steven Boomhower	Idaho State University	Haloperidol's effects on impulsive choice in the genetically obese Zucker rat
Psychology	Lisa Burks	University of Wisconsin-Milwaukee	Transition Readiness and Health Literacy in Young Adults with Sickle Cell Disease
Psychology	Aniruddha Deshpande	University of Cincinnati	Tinnitus Mapping of Auditory and Psychological Areas in Humans using fMRI/DTI
Psychology	Caitlin Groeber	George Mason University	An Examination of Copper's Ability to Protect Against Iron Overload in the Etiology of Alzheimer's Disease.
Psychology	Jamie Hershaw	College of William and Mary	ERP Neurometrics for Detection of Early-Stage Alzheimer's Disease
Psychology	Nakieta Lankster	Argosy University San Francisco Bay Area campus	Treatment Affects for Intergenerational Trauma in Survivors of Genocide Residing in South Africa
Psychology	Lawrence Patihis	University of California-Irvine	False Memory in Highly Superior Autobiographical Memory Individuals
Psychology	Maria Santos	University of Wisconsin-Milwaukee	Measuring Activation and Avoidance in Latinos with Depression
Psychology	Meghan Swanson	The Graduate Center, The City University of New York	Eye Gaze, Pupillary Response, and Social Cognition in Children with Autism Spectrum Disorder
Psychology	Lauren Taubitz	University of Wisconsin-Milwaukee	Reward Facilitation of Visual Selective Attention for Emotional Facial Expressions and its Relationship to Major Depressive Disorder
Systematics/Evolutionary Biology	Felicia Aronson	Colby College	The Genetics of Innate Immunity and Disease Resistance in Reef-Building Corals
Systematics/Evolutionary Biology	Sandra Correa	University of Massachusetts Lowell	Evolutionary relationships between spider silks and the silk-like venom from the spitting spider <i>Scytodes thoracica</i>
Systematics/Evolutionary Biology	Juleen Dickson	University of Rhode Island	Reduced lateral line canal development in the round goby, <i>Neogobius melanostomus</i>

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Systematics/Evolutionary Biology	Adam Ferguson	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>)
Systematics/Evolutionary Biology	Alexandra Goodell	University of North Carolina at Wilmington	Identification and comparison of opsin genes of hamlet (<i>Hypoplectrus</i> spp.) color-morphs
Systematics/Evolutionary Biology	Bin He	University of Chicago	Characterizing Molecular Effect of a GWAS Discovered non-coding SNP by Pyro-Sequencing in a Fly Model of Human Complex Disease
Systematics/Evolutionary Biology	Brian Lavin	Sonoma State University	A survey of nuclear protein coding markers in the Northern Alligator Lizard (<i>Elgaria coerulea</i>)
Systematics/Evolutionary Biology	Fay-Wei Li	Duke University	Seeing the light: does the molecular evolution of a chimeric photoreceptor underlie fern diversification?
Systematics/Evolutionary Biology	Connor Moseley	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
Systematics/Evolutionary Biology	Stuart Nielsen	University of Mississippi	Understanding Speciation in Southern Africa: A comparative approach using broadly distributed and distantly related squamate reptiles.
Systematics/Evolutionary Biology	Cristina Isabel Pokorny Montero	Duke University	Integrating Phylogenomic and Ecological Data to Understand Biodiversity Latitudinal Gradients. A Case Study in a Non-Model Organism: The Moss Genus <i>Calyptrochaeta</i> .
Systematics/Evolutionary Biology	Diego Reyes	University of Texas at El Paso	THE EXTENT OF CRYPTIC SPECIATION WITHIN <i>Epiphanes chihuahuaensis</i> (MONOGONONTA: ROTIFERA)
Systematics/Evolutionary Biology	Craig Stanley	Temple University	"Island" speciation of the grassland anole, <i>Anolis auratus</i> , in disturbed vs. undisturbed habitats

Grants from the October 15, 2011 Application Deadline
Alphabetical by Research Field

Research Field	Name	Institution	Title
Systematics/Evolutionary Biology	Oscar Toro-Nunez	University of Kansas	Plant Diversification Mediated by Extreme Aridity in the Atacama Desert: Dynamic Population Genetics in Schizopetalon (Brassicaceae)
Tectonics/Geophysics	Andrew Parisi	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.
Tectonics/Geophysics	Jonathan Pratt	University of South Carolina	Detrital thermochronology of the Taza-Guercif Basin, Morocco and Initiation of the Messinian Salinity Crisis.
Tectonics/Geophysics	Guangyu Xu	Institute of Marine and Coastal Sciences at Rutgers University	The investigation of acoustic scattering from a deep-sea hydrothermal plume