

**Grants from the March 15, 2009 Application Deadline
Alphabetical by Institution**

Institution	Name	Research Field	Title
Appalachian State University	Rebecca Cooper	Cell Biology/Biochemistry	Role of potB and potC genes on polyamine transport and biofilm formation in <i>Vibrio cholerae</i>
Appalachian State University	Erin Singer	Conservation Biology	Mill dams effects on freshwater mussel growth rates in Alabama streams
Arizona State University	Sharon Kessler	Anthropology	Using living mouse lemurs to model the origins of primate sociality: Do wild mouse lemurs use vocalizations as a mechanism for recognizing kin and forming social groups?
Arizona State University	Melissa Meadows	Behavioral Ecology	Does dietary protein affect iridescent ornamentation in Anna's hummingbirds (<i>Calypte anna</i>)?
Arizona State University	Michelle Meighan	Chemistry	Separation of Proteins Utilizing a Novel Electrophoretic Exclusion Technique
Arizona State University	Alka Tripathy	Petrology/Geochemistry	Thermochronology of the Indus Molasse, Northwest Indian Himalaya: Constraining the timing of collision between India and Eurasia
Auburn University	Daniel Holt	Behavioral Ecology	The Effect of Noise On Acoustic Communication In <i>Cyprinella Venusta</i>
Auburn University	Austin Mercadante	Behavioral Ecology	Does male eastern bluebird coloration signal competitive ability?
Boston University	Thomas Laudate	Psychology	Eye Movements and Hemifield Spatial Biases in Parkinson's Disease: Functional and Structural Measures
Boston University	Jonathan Reichard	Physiology/Functional Morphology	Unique vasculature of the Brazilian free-tailed bat (<i>Molossidae</i>) facilitates heat and water balance for long distance flight in subtropical regions
Boston University	Daniel Seichepine	Psychology	Effects of Stimulus Contrast and Luminance on Visual Search in Normal Aging and Parkinson's Disease
Boston University School of Medicine	Catharine Culjis	Cell Biology/Biochemistry	Neuropeptide Expression by Epidermal Langerhans Cells
Bowling Green State University	Christopher Drummond	Cell Biology/Biochemistry	Second Messenger Effects on Larval-Pupal Reprogramming in the Tobacco Hornworm, <i>Manduca sexta</i>
Bowling Green State University	Andrew Holowiecki	Cell Biology/Biochemistry	Mitochondrial NADH utilization and NADH -> NAD ⁺ transhydrogenation in the adult parasitic nematode <i>Ascaris suum</i>
Bowling Green State University	Sean Ryan	Ecology	Examining the role of isothiocyanates and nitriles on insect "imprinting": Are you my host?
California State University-San Marcos	Steve Doo	Conservation Biology	Effects of Ocean Acidification on Planktonic Foraminifers

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Central Michigan University	Matthew Igleski	Conservation Biology	Determining if Human Disturbance affects Batrachochytrium dendrobatidis Infection of Green Frogs (Lithobates clamitans melanota) in Michigan
Central Michigan University	Eric Triezenberg	Conservation Biology	Investigations into the Existence of Sub-Species in Symphalangus syndactylus Using Mitochondrial DNA
City University of New York, Graduate Center	Jennifer Hodgson	Anthropology	A GIS-based approach to the study of carnivore damage to bones: an assessment of Plio-Pleistocene hominin-carnivore competition at Kanjera South, Kenya
College of William and Mary	Allyson Jackson	Conservation Biology	Survival in a created landscape: radio-tracking fledglings on golf courses
Cornell University	Rayna Bell	Systematics/Evolutionary Biology	Evaluating the Pleistocene forest refuge hypothesis in Hyperolius tree frogs of central Africa
Cornell University	Cayelan Carey	Ecology	The ecosystem and food web impacts of cyanobacterial Gloeotrichia echinulata blooms in an oligotrophic lake in the northeastern United States
Cornell University	Barbara Rojas-Ayala	Physics/Astronomy	Metallicity Effects on Planet Formation Around M Dwarfs
Dartmouth College	Mary Duryea	Ecology	Sexual selection at the molecular level: sperm competition and sperm sorting
Drexel University	Matthew Hood	Engineering	Enhancement of shape memory effect in remotely actuated magnetic nanoparticle functionalized carbon nanotube polyurethane composites
Duke University	Christopher Iacoboni	Ecology	Evaluating the Influence of Anthropogenic Nitrogen Deposition on Forest Succession
Duke University	Brian Lutz	Ecology	Direct quantification of organic nitrogen in natural waters: Validation of a new high-pressure, tangential-flow nanofiltration method
East Carolina University	Jesse Delia	Behavioral Ecology	Bat predator avoidance and resulting reproductive strategies of the Neotropical glassfrog Hyalinobatrachium fleischmanni (Anura: Centrolenidae)
East Stroudsburg University of Pennsylvania	Scott Collenburg	Conservation Biology	Development of a Yeast Estrogen Screen (YES) Assay to test for estrogenic substances near a Sewage Treatment Plant
Eastern Kentucky University	Nathan Malcomb	Ecology	Long-term tree-ring based productivity estimates of coastal forests in the Pacific Northwest
Florida International University	Indra Sen	Petrology/Geochemistry	Sulfides in Hawaiian Mantle: Can it Explain the Elevated 186Os-187Os Isotopes in Ocean Basalts ?

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Harvard University	Yoel Stuart	Systematics/Evolutionary Biology	Competition, niche shift, and adaptive evolution: the response of <i>Anolis carolinensis</i> to competition with an invasive species, <i>Anolis sagrei</i>
Hobart and William Smith Colleges	Jessica Greger	Chemistry	Regiocontrolled synthesis of 3,4-disubstituted-3-pyrrolin-2-ones via a convergent methodology
I. Beritashvili Institute of Physiology	Lela Chilachava	Physiology/Functional Morphology	The Antipneumococcal Activity of K9 Killer Toxin and its Effect on the Alterations Provoked by <i>S pneumoniae</i> in the Gene Expression, Brain-Blood Barrier Permeability, Immune System and Neuro-immune Interactions of Mice
Idaho State University	Kevin Buffington	Ecology	Predicting climate-induced shifts of burying beetle distributions
Indiana State University	Amanda Jamison	Systematics/Evolutionary Biology	The Importance of Codependency: an Investigation into the Avian Host-Parasite Relationship
Indiana State University	Nathan Rathbun	Ecology	Choice, Copulation & Color: The Effect of Plumage on Alternative Strategies
Instituto de Ecología, A.C.	Miguel Villanueva	Ecology	Insect plant interactions mediated-extrafloral nectaries of the red cedar (<i>Cedrela odorata</i> , Meliaceae) in forest and plantations of central Veracruz
Iowa State University	Laura Christianson	Engineering	Denitrification Bioreactors for Treatment of Agricultural Drainage
Johns Hopkins University School of Medicine	Kirsten Brown	Anthropology	A morphometric approach to obstetrical adaptation in a narrow-bodied population
Juniata College	Lindsey Draper	Cell Biology/Biochemistry	A Study of Novel Chromosome Segregation Genes in a Filamentous Bacterium
Juniata College	Ryan Johnson	Cell Biology/Biochemistry	A Biochemical Investigation of Motility-Associated Phosphodiesterases in Non-Motile <i>Streptomyces</i>
Kent State University	Kurtis Eisermann	Cell Biology/Biochemistry	Androgen Regulation of VEGF in Prostate Cancer
Kent State University	Eric Floro	Ecology	Mitochondrial heteroplasmy in Yellow Monkeyflower (<i>Mimulus guttatus</i> , Phrymaceae)
Kent State University	Angela Hull	Tectonics/Geophysics	Testing Models of Paleoproterozoic Crust Formation in central North America
Louisiana State University-Baton Rouge	Brandon Edwards	Hydrology/Geomorphology	Field investigation of the effects of grain size distribution and surface moisture on the threshold shear velocity needed to initiate aeolian sand transport

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Loyola Marymount University	Maria Frye	Physiology/Functional Morphology	Energy availability and bone mineral density in runners, dancers, and controls
McGill University	Neeltje Boogert	Behavioral Ecology	Are good singers better problem solvers? The link between song complexity and foraging skills in wild zebra finches
McGill University	Benoit Lessard	Engineering	Block Copolymer Based Organic Photovoltaic Cells by nitroxide mediated controlled radical polymerization (NMP)
Miami University Ohio	Aron Costello	Behavioral Ecology	Do male house mice (<i>Mus musculus</i>) alter their preference for a female based on the presence and dominance rank of another male?
Miami University Ohio	Kristen Lucia	Behavioral Ecology	A field test of the effects of inbreeding on adult prairie voles (<i>Microtus ochrogaster</i>)
Miami University Ohio	Bhavani Madakashira	Cell Biology/Biochemistry	The Role of Frs2 α in Lens Development
Miami University Ohio	Jason Nelson	Ecology	The Roles of Managed Grasslands in the Biodiversity and Ecosystems Services of Beneficial Insects in Agricultural Landscapes
Miami University Ohio	Jie Zhu	Cell Biology/Biochemistry	The role of Wnt signaling in retina regeneration
Michigan State University	Melissa Kjelvik	Behavioral Ecology	Population dynamics and mortality tradeoffs of "bold" and "shy" foraging behaviors: A field study with sunfish
Michigan State University	Tomomi Suwa	Ecology	Effects of herbicide on plant-rhizobium mutualism: how rapid evolutionary change influences the outcome of mutualism
Michigan State University	Mridul Thomas	Systematics/Evolutionary Biology	Rapid evolutionary responses of phytoplankton to rising temperatures
Michigan State University	Kevin Wyatt	Ecology	Enhanced Algal Production and Carbon Cycling in Northern Peatlands: Substrate Controls on Decomposition
Montana State University-Bozeman	Robert Boessenecker	Paleontology/Sedimentation	Comparative taphonomy of marine vertebrate fossil assemblages in the Mio-Pliocene Purisima Formation of Central California
Montana State University-Bozeman	Karen Williams	Hydrology/Geomorphology	Organization of stream channels in channel form and energy expenditure
North Carolina State University	Nyeema Harris	Ecology	Does change beget change: impacts of carnivore rarity on ectoparasite community dynamics?
Northwestern University	Hatim Thaker	Cell Biology/Biochemistry	Bladder Regeneration Utilizing Autologous Sources of Ureteral Smooth Muscle Cells

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Ohio State University	Lesley Gregoricka	Anthropology	Isotopic Investigation of Mobility, Exchange, and Tomb Membership in a Bronze and Iron Age Arabian World-System
Ohio State University	Britney Kyle	Anthropology	Reconstructing health and activity at ancient Apollonia, Albania: Impacts of Greek colonization
Ohio State University	Nidia Merino Chavez	Anthropology	Mexicanidad in Ohio: Identity and Stress in Columbus
Ohio University	Christopher Howey	Ecology	The Affects of Prescribed Burning on Reptile Abundances, Movement Rates, and Habitat Selection
Pennsylvania State University	Thomas Bentley	Ecology	Does Cucumber mosaic virus manipulate the phenotype of tobacco to increase its transmission?
Pennsylvania State University	Jason Smith	Ecology	Odor-Mediated Foraging in Parasitic Plants
Princeton University	Mark Laidre	Behavioral Ecology	Must lying always increase with greater temptation in nonhumans?
Rhodes College	Elizabeth Hook	Physics/Astronomy	Investigation of U-236 Using the Surrogate Reaction Method
Rice University	Amy Bridges	Conservation Biology	Creating an historic record of cyclones from forest trees ring isotopes in southeastern Madagascar rain forest; implications for lemur demography and climate change
Rosalind Franklin University of Medicine and Science	Arun Paul	Cell Biology/Biochemistry	Therapeutic potential of COX-2 inhibitors in treating Kaposi's sarcoma associated herpes virus (KSHV) related Body cavity B cell lymphoma (BCBL)
Saint Louis University	Ming Zhu	Cell Biology/Biochemistry	Identifying the Critical Enzyme that Ubiquitinates G Protein in Yeast
Sam Houston State University	Richard Tutalo	Paleontology/Sedimentation	Variation in owl pellets from the Koanaka Hills, Botswana and the implications for regional paleoenvironmental reconstruction
San Diego State University	Lauren Sutton	Petrology/Geochemistry	Shocked metamorphic effects on feldspar and quartz in siliceous volcanic rocks from the El'Gygytgyn impact crater, Russia
San Francisco State University	Tricia Goulding	Systematics/Evolutionary Biology	Understanding the evolution of marine parasites by examining genetic diversity of acanthocephalan parasites from sand crabs
School of Earth and Atmospheric Sciences, Georgia Institute of Technology	Ming-Chu Chen	Hydrology/Geomorphology	Tectonic, climatic, and anthropogenic influences on ultra-high rate of bedrock incision, Ta-An River Gorge, Taiwan

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School of Medicine, University of South Carolina	Binyue Chang	Cell Biology/Biochemistry	The involvement of transcription factors snail and slug in vitreous-mediated EMT in RPE cells using SiRNA
Southwestern University	Olivia Stanzer	Ecology	The Persistence of Pink: Potential ecological influences of ovorubin in egg clutches of <i>Pomacea insularum</i>
St. Mary	Christopher Heiland	Psychology	Toward a comprehensive animal model of schizophrenia: A comparison of behavioral phenotypes between male and female rats
St. Mary's College of Maryland	Elizabeth Smith	Psychology	Effects of chronic stress duration on behavioral deficits and neuronal activity in a neurodevelopmental model of schizophrenia
St. Olaf College	Kristina Hultgren	Ecology	Impaired waters: The role of biogeochemical, ecological, and hydrological processes that influence stream water quality
State University of New York at Stony Brook	Sarah Gray	Ecology	Microbial metagenomics meets community ecology
State University of New York at Stony Brook	Yao Yao	Cell Biology/Biochemistry	The role of plasmin in MCP-1-induced BBB disruption and PBMC infiltration
State University of New York, College of Environmental Science and Forestry	Rebecca Jarrell	Chemistry	Development of a Real-time Optical Sensor for Trace Organic Pollutants
SUNY College of Environmental Science and Forestry	Catherine Haase	Conservation Biology	A thermal balance and habitat suitability model for moose (<i>Alces alces</i>) in the Adirondack Region of New York State
Tarleton State University	Rijo Santhosh	Computer Science/Mathematics	Autonomous self balancing robot
Texas State University-San Marcos	Vincent Farallo	Systematics/Evolutionary Biology	Evolution of color polymorphism in mottled rock rattlesnakes (<i>Crotalus lepidus lepidus</i>)
Texas State University-San Marcos	Ukwatta Jayarathna	Computer Science/Mathematics	Human Oculomotor Plant Signature Modeling: are there unique and person specific physiological and behavioral features in oculomotor plant eye movement parameters?
The Ohio State University	Rachel Balabuszko	Anthropology	A Method for Differentiating Human and Nonhuman Fragmented Skeletal Remains and Species Identification
The University of Texas	Guillermo Blanc	Physics/Astronomy	The VIRUS-P Exploration of Nearby Galaxies (VENGA)

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Universidad Nacional de Cuyo	Natalia Schroeder	Conservation Biology	Interaction between guanaco (<i>Lama guanicoe</i>) and livestock in Payunia Reserve (Mendoza, Argentina) Towards an integrated proposal for sustainable management
Universidad Nacional de Tucuman	Eduardo Martin	Ecology	Promiscuity among birds with cooperative breeding: ecological and evolutionary implications in <i>Coryphistera alaudina</i> (Furnariidae)
Universidad Nacional del Comahue	Maria Chazarreta	Behavioral Ecology	A Key Species from the Patagonia Forest: Magellanic Woodpecker <i>Campephilus magellanicus</i> , Feeding Habitat Selection and Foraging Behavior
University of Alabama at Birmingham	Christopher Freeman	Ecology	Experimental manipulation of nutrient exchange from cyanobacterial symbionts to marine sponges
University of Alaska Fairbanks	Ryan Cooper	Conservation Biology	Clarifying the taxonomy and conservation status of a poorly-studied Arctic alpine small mammal
University of Arizona	Andrew Kowler	Hydrology/Geomorphology	Paleolake-level fluctuations in closed basins of the Southwest USA during the Pleistocene-Holocene transition: paleohydrologic analogs to modern global warming
University of Arkansas at Fayetteville	Jian Liu	Physics/Astronomy	Search for Novel High-Temperature Superconductivity and Exotic Magnetism in Complex Oxide Superlattices of $\text{ReNiO}_3/\text{LaAlO}_3$ (Re=La, Pr, Nd and Eu)
University of Bristol	Jack Buckland	Conservation Biology	Status and conservation of Mauritian fauna and flora threatened by the invading Madagascar giant day gecko, <i>Phelsuma grandis</i>
University of California-Berkeley	Maya deVries	Behavioral Ecology	Intraspecific differences in diet in the formidable marine predator, <i>Neogonodactylus bredini</i> (Stomatopoda, Crustacea)
University of California-Berkeley	Rachel Giraud	Anthropology	Community Anthropology in Practice: Mapping Intangible Heritage at the Tsodilo Hills
University of California-Berkeley	Adriane Soehner	Psychology	Waking Up on the Wrong Side of the Bed: The Effect of Mood Context on Decision Making Following Sleep Deprivation
University of California-Davis	Alexali Brubaker	Behavioral Ecology	The influences of natural and artificial selection on temperament and post-release fitness in captive-bred endangered wild equids

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University of California-Davis	Michael Steinman	Physiology/Functional Morphology	Glial regulation of gonadotrophin releasing hormone secretion and reproductive function in response to food availability
University of California-Davis	Mark Stelten	Petrology/Geochemistry	Comparison of U-series crystal ages for zircon and plagioclase from the Rock Mesa eruption of South Sister volcano, Oregon: are these crystals recording the same information?
University of California-Los Angeles	Rachel Clausing	Ecology	Effects of anthropogenic nutrient inputs on rocky intertidal algal community dynamics
University of California-Riverside	Robyn Dahl	Paleontology/Sedimentation	Paleoecology and taxonomic composition of Middle Ordovician Laurentian bivalves
University of California-Santa Cruz	Gillian Moritz	Behavioral Ecology	The ecology and evolution of tarsier visual systems
University of California-Santa Cruz	Yiwei Wang	Conservation Biology	Are Dingoes Heroes or Villains in the Bridled Nailtail Wallaby story? Evaluating the mesopredator release theory in the context of endangered species management
University of Central Florida	Ashley Iketani	Cell Biology/Biochemistry	Generation of Transgenic Flies to Identify a putative component of Rho Signaling pathway
University of Central Florida	Leilani Pasicolan	Physiology/Functional Morphology	The influence of temperature on electrolocation performance in electric fishes: constraints on sensory system design
University of Central Florida	Tamu Talton	Cell Biology/Biochemistry	The regulation of CXCL16 signaling in colorectal cancer metastasis
University of Chicago	Christina Belanger	Paleontology/Sedimentation	Biological Responses to Climate Change: Physiological and Community-level Responses to the Miocene Climate Optimum (Early Miocene Astoria Formation, Oregon)
University of Chicago	Hilary Christensen	Paleontology/Sedimentation	The Mammalian Transition to Herbivory in the Early Cenozoic
University of Chicago	Jean-Rene Gauthier	Physics/Astronomy	The Growth of Massive Galaxies
University of Cincinnati	Christine Moskalik	Cell Biology/Biochemistry	Investigating the in vivo role of a cytosolic protein during thyroid hormone-dependent development
University of Cincinnati	James Zambito	Paleontology/Sedimentation	Testing the effects of sea-surface temperature variation on faunal migrations using the fossil record: implications for climate change on geologic timescales
University of Colorado at Boulder	Michael Hawkins	Systematics/Evolutionary Biology	The evolution and development of fish barbels

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University of Connecticut	Jonathan Velotta	Ecology	The effects of land-locking on the osmoregulatory physiology of alewife (<i>Alosa pseudoharengus</i>) populations in Connecticut
University of Delaware	Andris Kronbergs	Physiology/Functional Morphology	Role of T-type (Cav32) Voltage Sensitive Calcium Channel in bone formation in suspended and re-loaded mice
University of Denver	Jamie Lomax	Physics/Astronomy	Mass Transfer and the Structure of Beta Lyrae's Accretion Disk
University of Florida	Andrew Hein	Ecology	Do general rules structure ecological communities?
University of Florida	Paula Mejia-Velasquez	Paleontology/Sedimentation	Determining floristic patterns and paleoclimatic conditions in the tropics during the early radiation of flowering plants
University of Florida	Catalina Pimiento	Paleontology/Sedimentation	Panama as a Paleo-Nursery Area for Giant Shark Babies (<i>Carcharocles megalodon</i>)
University of Florida	Judit Ungvari-Martin	Ecology	Bird community structure along a tropical productivity gradient: bottom-up effects examined by integrating ecology, behavior and genetics
University of Georgia	Tyler Kartzinel	Ecology	Understanding Epiphytic Plants is Prerequisite to Conservation of Tropical Biodiversity
University of Georgia	Sara Thomas	Cell Biology/Biochemistry	Role of reactive oxygen species and nitric oxide in blueberry flower infection by <i>Monilinia vaccinii-corymbosi</i> , a specialized flower-infecting fungus
University of Hawaii at Manoa	Lance La Pierre	Conservation Biology	Genetic variation and population structure of <i>Caesalpinia kavaiensis</i> H Mann (Fabaceae) or uhiuhi, a rare, endemic tree of Hawaiian dry and mesic forests
University of Hawaii at Manoa	Randi Rhodes	Conservation Biology	The effects of dispersal on the population dynamics of the Hawaiian Coot, <i>Fulica alai</i>
University of Hawaii, Manoa-Hawaii	Alex Morrison	Anthropology	Environmental Variability and Island Settlement History: Easter Island Community Organization and Land Use
University of Illinois	Christopher Bertram	Ecology	What mechanisms control the prevalence of the micro-parasite <i>Spirobacillus cienkowskii</i> in <i>Daphnia pulex</i> (Crustacea: cladoceran) populations?
University of Illinois at Urbana-Champaign	Bill Wills	Ecology	The role of body size distributions in outcomes of interspecific interactions in social insects

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University of Kansas	Evan Bargnesi	Tectonics/Geophysics	Thermochronometric constraints on detrital provenance and source thermal evolution from a supradetachment basin in Paros, Greece
University of Kansas	Jamie Oaks	Systematics/Evolutionary Biology	Comparative Phylogeography of Southern Indochina
University of Maryland, College Park	Chin Lin Fulmer	Psychology	Are All Trust Violations the Same? A Dynamical Approach to Trust Dissolution, Trust Recovery, and Cross-Cultural Differences
University of Maryland, College Park	Frank Stearns	Systematics/Evolutionary Biology	Approaching an optimum: The effects of random mutation on fitness in natural <i>Arabidopsis thaliana</i> ecotypes
University of Maryland, College Park	Brian Thompson	Ecology	Effect of microbial community composition on European woodwasp fecundity and behavior: a metagenomic approach to evaluating competition and resource allocation
University of Massachusetts Amherst	Dana Moseley	Behavioral Ecology	Sexual Selection and Signal Function in the Song of Swamp Sparrows
University of Memphis	Virginia Mckay	Anthropology	The Efficacy of an HIV Education Program: Kampala, Uganda
University of Memphis	Nina Poole	Cell Biology/Biochemistry	<i>Dermacentor variabilis</i> : Tick Saliva Is a Potential Inhibitor of Breast Carcinoma Migration and Invasion
University of Miami	Nathan Dappen	Ecology	The significance of male-typical coloration in female Ibiza wall lizards, <i>Podarcis pityuensis</i>
University of Michigan-Ann Arbor	Cesar Kenaan	Cell Biology/Biochemistry	The Functional Importance of Cytochrome P450 Conformational Dynamics
University of Michigan-Ann Arbor	Brian Sedio	Ecology	DNA Barcoding Psychotria-Insect Interactions: Are Herbivores of Species-Rich Plant Genera Specialized Enough to Promote Coexistence?
University of Minnesota, Twin Cities	Kathleen Berg	Cell Biology/Biochemistry	Intranasal Application of Neuroprotective Agents for Retinitis Pigmentosa
University of Minnesota, Twin Cities	Chih-Ming Hung	Systematics/Evolutionary Biology	Phylogeography of the Eurasian nuthatch– a multi-gene test of mtDNA patterns
University of Minnesota, Twin Cities	Charissa Johnson	Petrology/Geochemistry	Magnetic Sourcing
University of Mississippi	Erynn Maynard	Ecology	Restoring <i>Andropogon virginicus</i> and <i>Schizachyrium scoparium</i> to upland forests in northern Mississippi

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University of Mississippi	Jason Ryndock	Ecology	The Impact of Ecological Restoration on Spider Communities of an Upland, Deciduous Forest in Northern Mississippi
University of Missouri-St. Louis	Linda Svensson	Ecology	Interactions between Birds and Pigmented Haemosporidian Parasites (Maemosporidia) in Western Amazonia
University of Montana	Jennifer Smith	Ecology	Fecundity and body size in a native spider after an exotic plant invasion
University of Nebraska at Lincoln	Katherine Heineman	Ecology	The Effect of Below-Ground Resources on Woody Density Variation and Above-Ground Biomass Estimates in a Bornean Tropical Forest
University of Nebraska at Lincoln	Chandreyee Mitra	Systematics/Evolutionary Biology	Is phenotypic plasticity costly? Examining flight-muscle polymorphism in the field cricket <i>Gryllus lineaticeps</i>
University of Nevada, Reno	Kevin Burls	Systematics/Evolutionary Biology	Conditions for the emergence of isolated subpopulations due to genetic drift
University of North Carolina at Chapel Hill	Sumit Dhole	Behavioral Ecology	Sexual selection in age-structured populations of <i>Drosophila pseudoobscura</i>
University of North Carolina at Chapel Hill	Steven Holochwest	Psychology	Joint Activation of Physiological Systems as a Predictor of Executive Function
University of North Carolina at Charlotte	Henry Colmer	Behavioral Ecology	Manganese, the "Vibration Signal," and the Regulation of Communication in Honey Bees
University of North Carolina at Wilmington	Julia Jenkins	Cell Biology/Biochemistry	RNA interference as a tool for investigating the roles of cuticular proteins in biomineralization of the Atlantic Blue crab, <i>Callinectes sapidus</i>
University of North Carolina at Wilmington	Virginia Winder	Conservation Biology	Mercury (Hg) levels in feathers and blood of two species of coastal sparrows (<i>Ammodramus nelsoni</i> and <i>A. caudacutus</i>) from over-wintering and breeding sites (salt marshes along the North Carolina coast and habitat in northern US and Canada, respectively)
University of Northern Iowa	Aaron Stahl	Cell Biology/Biochemistry	A time course study in the development of embryos of " <i>Pimephales promelas</i> " exposed to atrazine
University of Notre Dame	Ashley Baldrige	Ecology	When predator becomes prey: intraguild predation in an invaded ecosystem
University of Ottawa	Eric Vaillancourt	Physiology/Functional Morphology	The metabolic fuel selection and lipid mobilization capacity of a long-distance migrant, the Greater Snow Goose (<i>Chen caerulescens atlantica</i>)

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University of Pittsburgh	William Brogan	Ecology	Wetland Security: Can submerged aquatic vegetation increase community resistance to insecticide exposure?
University of Pittsburgh	Maya Groner	Ecology	Effects of predator stress on immune function and susceptibility of leopard frogs to the amphibian pathogen <i>Batrachochytrium dendrobatidis</i>
University of Pittsburgh	Alexandra Rohde	Ecology	Temperature and Water Effects on Phenology and Opportunity for Positive Assortative Mating in <i>Plantago</i>
University of Rochester	Adam Green	Systematics/Evolutionary Biology	The roles of genetic pre-adaptation and human history on the success of invasive ivy (<i>Hedera</i> spp, Araliaceae) in North America
University of South Florida	Joshua Slattery	Paleontology/Sedimentation	Faunal Responses to Late Cretaceous (early Maastrichtian) Ocean/Climate Change in the Western Interior Seaway
University of Southern California	Andrew Fogel	Physiology/Functional Morphology	Differences in gut microbiome communities of two sympatric lemur species (<i>Lemur catta</i> and <i>Propithecus verreauxi</i>) as a function of different dietary strategies
University of Southern Mississippi	Zoltan Nemeth	Behavioral Ecology	The price of information: decision-making in a novel environment
University of Tennessee-Knoxville	Miles Henderson	Paleontology/Sedimentation	Understanding the biological origins of <i>Grypania</i> : Implications for early Earth evolution
University of Texas at Austin	Laura Dugan	Ecology	Spread of an Invasive Cichlid in a Desert Spring System in an Important Protected Area in México
University of Texas at Austin	Bonnie Waring	Ecology	Environmental Drivers of Fungal-to-Bacterial Ratios in Tropical Forest Soils
University of Toledo	David Gonthier	Ecology	Nutrition, caffeine, and coffee: the influences of plant chemistry on herbivores, ant-mutualists, and predators
University of Toronto	Jane Ogilvie	Ecology	Pollination Facilitation in Subalpine Gentians
University of Toronto Scarborough	Eric Lewallen	Ecology	Does the Eastern Pacific Barrier limit epipelagic fish dispersal? A population genetic analysis of 12 Pacific flyingfish (<i>Exocoetidae</i>) species
University of Utah	Erin Spear	Ecology	The role of soil pathogens in determining the distribution and abundance of tropical plant species across a rainfall gradient

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University of Vermont	Matthew Kaproth	Ecology	Effect of intraspecific competition density on dispersal kernel variation in natural populations of invasive plants: Implications for spread
University of Wisconsin-Madison	Matti Asuma	Physiology/Functional Morphology	The Effects of Oxytocin and Cortisol on Muscarinic and G-Protein Coupled Receptor Signaling in Retinal Pigment Epithelial Cells
University of Wisconsin-Madison	Andrew Huisman	Chemistry	Atmospheric dicarbonyl detection via analysis of a spectrally broad laser-induced phosphorescence signal
University of Wisconsin-Madison	Kelsey Winsor	Petrology/Geochemistry	A Mg/Ca-based northwest Atlantic sea surface temperature record for the last two deglaciations
University of Wisconsin-Milwaukee	Elizabeth Andresen	Psychology	The Roles of External Incentive, Working Memory, and Processing Speed on Continuous Performance Test Performance in College Students with Attention Deficit Hyperactivity Disorder
University of Wisconsin-Oshkosh	Andrea Holzbauer	Physiology/Functional Morphology	Energetic Cost of an Immune Challenge in Chickadees During Cold Exposure
University of Wisconsin-Oshkosh	Julie Widholm	Physiology/Functional Morphology	Thermoregulation and Habitat Preference in Two Species of Tropical Rodents
University of Wyoming	Erin Hotchkiss	Ecology	Quantifying the patterns and drivers of aquatic ecosystem respiration: Looking beyond common assumptions to understand stream carbon cycling
Utah State University	Clemence William	Ecology	A definitive water budget for a shrub-steppe ecosystem
Villanova University	Avni Malhotra	Ecology	Effects of Hydrological Disturbances on the Carbon Cycle of a Poor Fen in ALberta, Canada
Virginia Commonwealth University	Christopher Asquith	Ecology	Effect of predator foraging and prey population size-structure on prey growth strategies
Virginia Polytechnic Institute and State University	Summer Brown	Tectonics/Geophysics	Integrating apatite (U-Th)/He and fission-track dating for a comprehensive thermochronological analysis: refining the temporal and spatial history of the Teton Range, Wyoming
Virginia Polytechnic Institute and State University	Sarah DuRant	Physiology/Functional Morphology	Immunocompetence driven tradeoffs mediated by incubation temperature in wood duck (<i>Aix sponsa</i>) ducklings
Virginia Polytechnic Institute and State University	Christopher Flint	Behavioral Ecology	Magnetic Orientation in <i>Drosophila Melanogaster</i> Follows Cryptochrome Action Spectrum

**Grants from the March 15, 2009 Application Deadline
Alphabetical by Institution**

Institution	Name	Research Field	Title
Virginia Polytechnic Institute and State University	Emily Lambert	Cell Biology/Biochemistry	In vitro Analysis of the Bacillus anthracis Protein SleL
Washington and Lee University	Andrea Hanick	Cell Biology/Biochemistry	Time dependent TCR stimulation for induction of CXCR3 expression by CD8+ T cells
Washington University	Nicole Miller	Ecology	Stress-adaptation and competition for pollinators: Implications for endemic plants
Wesleyan University	Gus Seixas	Tectonics/Geophysics	Extensional deformation associated with the Wheeler Fault, Lake Mead, USA
Western Washington University	Mike Levine	Ecology	The effects of season and microhabitat on the distribution and nutritional contributions of two algal symbionts in the intertidal anemone Anthopleura xanthogrammica
Yale University	Jason Nesbitt	Anthropology	Radiocarbon Dating of El Niño Events at Huaca Cortada: Implications for Human-Environment Dynamics in Ancient Peru