

Grants from the October 15, 2007 Deadline  
 Alphabetical by Institution

Institution	Subject	Title	Student	Advisor
Albertson College of Idaho	Cell Biology/Biochemistry	Investigation of the Role of 17- $\beta$ Estradiol in Cadmium-Induced Osteotoxicity	Ashley McCartney	Heggland, Sara J.
American University	Ecology	Using Metabolic and Molecular Tests to Assess the Role of Polycyclic Aromatic Hydrocarbons in a Heavily Polluted Urban River	Evan Ewers	Bushaw-Newton, Karen L.
Arizona State University	Physiology/Functional Morphology	Immune function and development of sexual coloration in mallard ducks	Michael Butler	McGraw, Kevin J.
Arizona State University	Behavioral Ecology	Nutritional dynamics of leafcutter ant colonies: Characterizing the relationship between the fungal substrate and fungus growth	Rebecca Clark	Fewell, Jennifer H.
Arizona State University	Petrology/Geochemistry	Volcanic Conduit Conditions that Contribute to Shock Wave Formation: A Geochemical and Textural Analysis of Eruptive Products.	Kimberly Genareau	Hervig, Richard L.
Arizona State University	Ecology	Hybrid Endophytes Alter Host Response to Abiotic Variation	Cyd Hamilton	Faeth, Stanley H.
Arizona State University	Ecology	Effect of photoperiod and N-methyl-D-aspartate on temperate breeding Cassin's Sparrow ( <i>Aimophila cassinii</i> ): an intraspecies comparison to a desert population	Laura Hurley	Deviche, Pierre J.
Arizona State University	Physiology/Functional Morphology	An empirical test of the social efficiency hypothesis in ants	James Waters	Harrison, Jon F.
Auburn University	Behavioral Ecology	Exploring the intra-specific signaling function of juvenal plumage	Russell Ligon	Hill, Geoffrey E.
Boise State University	Chemistry	Probing cellular interactions of synthetic aziridinomitosenes through confocal microscopy	Emma McInturff	Warner, Don L.

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California State University-Fresno	Behavioral Ecology	Does social deprivation trigger stress-related hyper-aggression?	Jacqueline Ma	Earley, Ryan L.
California State University-Northridge	Conservation Biology	Geographic trends in photolyase activity and the sublethal effects of UV-B exposure in the Andean toad	Christine Bruno	Espinoza, Robert E.
Carleton College	Physics/Astronomy	The effect of alpha and beta Ta underlayers in giant magnetoresistance of permalloy/Cu thin films	Pinshane Huang	Eblen-Zayas, Melissa A.
Catawba College	Physiology/Functional Morphology	The Influence of Atmospheric CO <sub>2</sub> on the Calcification Rate of Developing Coral Planula.	Hayley Stafford	Rogers Lowery, Constance L.
Central Michigan University	Cell Biology/Biochemistry	Creation of a Calpain-Resistant Form of Tau in Drosophila	Sarah DeVos	Steinhilb, Michelle L.
Central Michigan University	Conservation Biology	Investigating population structure and philopatry in ringed seals ( <i>Phoca hispida</i> ) during the breeding season	Stephanie Sell	Swanson, Bradley J.
Central Washington University	Tectonics/Geophysics	Testing a channel-flow model using electron-backscatter diffraction investigations of middle-crustal rocks, Mabja Dome, southern Tibet	Jackie Langille	Lee, Jeffrey
Clemson University	Cell Biology/Biochemistry	Entamoeba histolytica: Characterization of the subcellular and ultracellular localization of phosphatidylinositol (3, 4, 5)-trisphosphate	Yevgeniya Byekova	Temesvari, Lesly
Clemson University	Physics/Astronomy	Environments of Long Gamma Ray Bursts	Adria Updike	Hartmann, Dieter H.
Colorado State University	Ecology	Does delayed seed germination act to facilitate Verbascum thapsus invasion in variable environments?	Christina Alba-Lynn	Detling, James K.
Colorado State University	Ecology	Functional genetic diversity and pathogen resistance in black-tailed prairie dogs	Liz Harp	Antolin, Michael F.

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Columbia University	Physics/Astronomy	Mapping the Cosmological CMB Polarization Signal with QUIET	Laura Newburgh	Miller, Amber D.
Cornell University	Systematics/Evolutionary Biology	Expression of a tetrapod lung marker in the zebrafish swimbladder: evidence for homology?	Amanda Cass	McCune, Amy R.
Davidson College	Cell Biology/Biochemistry	Identification of the Unknown Transcription Factor of the CD4 Promoter	Matthew Surdel	Sarajova, Sophia D.
Drexel University	Physics/Astronomy	Can muon spallation and a lead target be used to create a fast neutron source?	Ryan McKeown	Lane, Charles D.
Drexel University	Engineering	Matrix level structure-property linkages in bone	Siddhartha Pathak	Kalidindi, Surya R.
Duke University	Cell Biology/Biochemistry	The Role of Antimalarial Drugs in the Spontaneous Uptake of Endogenous Human MicroRNAs by Erythrocyte-Stage Plasmodium falciparum: Unveiling Novel Molecular Components that Enhance Antimalarial Drug Efficacy	Lesley Chapman	Chi, Jen-Tsan A.
Duke University	Systematics/Evolutionary Biology	Germline sequestration and senescence: a test in sea urchins	David Garfield	Wray, Gregory A.
Duke University	Psychology	Appearance as Defining the Self: The Development of Structure and Centrality in the Self System	Melanie Hoy	Costanzo, Philip
Duke University	Ecology	Carbon and water tradeoffs from invasion of woody plants across the precipitation gradient in South Africa	John Kim	Jackson, Robert B.
Duke University	Behavioral Ecology	Investigating the Role of the Parietal Eye in Polarized Light Detection	Brian Powell	Leal, Manuel
Duke University	Behavioral Ecology	The function of chiton eyes: Predator detection and visual navigation.	Daniel Speiser	Johnsen, Sonke

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Duke University	Behavioral Ecology	Sex mediated affects on recombination rate in different environments	Laurie Stevison	Noor, Mohamed A.
Duke University	Ecology	Do wetland plant species shape soil emissions of the greenhouse gas methane via root carbon exudation?	Eileen Thorsos	Jackson, Robert B.
Eastern Michigan University	Chemistry	GC-MS Analysis of Possible Binders in Rock Paintings: Protein Extraction and Purification and Comparisons to Authentic Pictographs.	Melissa Doolin	Armitage, Ruth Ann
Florida Atlantic University	Anthropology	Skeletal Analysis of Human Remains from Plaza San Marcos, Quito, Ecuador: Evidence of Increases in Pathological Conditions and Injuries Associated with Colonialism and Capitalism	Ronda Graves	Brown, Clifford T.
Florida Atlantic University	Cell Biology/Biochemistry	Analyzing the role of Neuroglobin in the brain of the anoxia-tolerant turtle <i>Trachemys scripta elegans</i>	Gauri Nayak	Milton, Sarah L.
Florida Atlantic University	Ecology	Spatial-Temporal Variation in Crayfish ( <i>Procambarus fallax</i> ) Dispersal in Response to Hydrological Pulse	Craig van der Heiden	Noonburg, Erik G.
Florida Institute of Technology	Cell Biology/Biochemistry	Characterizing the Role of Transient Receptor Potential Ion Channels in Infrared Thermosensation of Python Pit Organs	William McLamb	Grace, Michael S.
George Mason University	Psychology	Hippocampal deficits due to elevated zinc consumption.	Teresa Micheli	Flinn, Jane M.
George Washington University	Anthropology	The faunal and ecological context of the Acheulean to Middle Stone Age transition	Catherine Haradon	Potts, Richard B.
Hobart and William Smith Colleges	Chemistry	Solid-Phase Synthesis of Biologically Active Nitrogen Heterocycles	Sarah Yoon-Miller	Pelkey, Erin T.

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Hunter College of The City University of New York	Psychology	Vocal Communication and Possible Use of Echolocation by the Hippopotamus ( <i>Hippopotamus amphibius</i> )	Maria Maust	Reiss, Diana L.
Indiana University Bloomington	Cell Biology/Biochemistry	Regulation of synaptic glutamate to restore striatal neuronal output in the R6/2 mouse model of Huntington's disease	Benjamin Miller	Rebec, George V.
Iowa State University	Anthropology	Causal Understanding of Tool Use by Orangutans	Kristina Walkup	Pruetz, Jill D.
J W Goethe-Universitat	Ecology	A systems biology approach to the study of the microbial community composition and host gene expression in the coral holobiont during thermal stress and disease events	Shinichi Sunagawa	Medina, Monica
Lehigh University	Behavioral Ecology	From individual behavior to population dynamics and back in the Comanche Springs pupfish ( <i>Cyprinodon elegans</i> )	Jennifer Gumm	Iitzkowitz, Murray
Lindenwood University	Psychology	Yesterweek: accuracy of delayed recall in the context of eyewitness testimony	Kathryn Borsheim	Nohara-LeClair, Michiko
Louisiana State University-Baton Rouge	Systematics/Evolutionary Biology	Comparative phylogeography of Neotropical birds: testing the role of biogeography, demography, and ecology in shaping geographic patterns of genetic differentiation.	Curtis Burney	Brumfield, Robb T.
McGill University	Ecology	The Energetic Costs of Mouth-brooding in Divergent Oxygen Environments	Erin Reardon	Chapman, Lauren J.
McGill University	Engineering	Stabilization of Metal-Water Nanofluids by Plasma Enhanced Surface Functionalization	Edward Swanson	Coulombe, Sylvain

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Mesa State College	Cell Biology/Biochemistry	Methylation and Membrane Association of Prenylated G-proteins	Bradley Winters	McQuade, Kyle J.
Miami University Ohio	Physics/Astronomy	Fluorescence-based Calcium-ion Sensing At High Hydrostatic Pressures	Eric Frey	Urayama, Paul K.
Miami University Ohio	Physiology/Functional Morphology	Investigation of Comparative Thigmotropic and Associated Morphologic Traits of Fusarium species and Aspergillus species, the Predominant Invasive Ocular Filamentous Fungi	Sehee Rim	Lee, Marcia R.
Miami University Ohio	Physiology/Functional Morphology	Prolactin as a mediator of hypothalamic-pituitary-adrenal cortex axis negative feedback	Kelly Zullig	Callahan, Phyllis
Middlebury College	Cell Biology/Biochemistry	The Expression of Catalase and Glutathione Peroxidase in Granulosa Cells: Variations during folliculogenesis and their implications for the development of good quality oocytes.	Qiaqia Wu	Combelles, Catherine M.
Montana State University-Bozeman	Tectonics/Geophysics	The interaction between climate, tectonics, and topography in the San Juan Mountains of southwestern Colorado, U.S.A.	Ryan McKeon	Lageson, David R.
New Mexico Highlands University	Tectonics/Geophysics	Paleomagnetic Baked Contact Test of a Permo-Carboniferous Dike Intruding the Ross of Mull Granite, Isle of Mull, NW Scotland	Joel Lowry	Petronis, Michael S.
Northwestern University	Anthropology	Household Spaces and Everyday Practices at Late Postclassic Xaltocan, Mexico	Lisa Overholtzer	Brumfiel, Elizabeth M.
Oregon State University	Cell Biology/Biochemistry	FLK guides RNA processes necessary for the initiation of flowering in Arabidopsis	Samuel Fox	Mockler, Todd C.

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Pomona College	Cell Biology/Biochemistry	Identifying Drosophila RabGDI interactors by tandem affinity purification – mass spectrometry	Palak Amin	Cheney, Clarissa M.
Pomona College	Paleontology/Sedimentation	Did Lake Elsinore (Riverside County, CA) experience a rapid regression during the Last Glacial Maximum (ca. 19,200 c.y. BP)?	Bradley Markle	Lackey, Hilary S.
Princeton University	Tectonics/Geophysics	Detailed magnetostratigraphy of Keweenaw volcanics at Mamainse Point: reevaluating reversal asymmetry of the paleo-geomagnetic field in the late Mesoproterozoic	Nicholas Swanson-Hysell	Maloof, Adam C.
Rice University	Ecology	Anoplolepis gracilipes invasion of the Samoan Archipelago: Can mutualisms with native plants amplify ecological consequences?	Amy Savage	Rudgers, Jennifer A.
Rutgers, The State University of New Jersey	Psychology	Gene Expression Changes in Ventral and Dorsal Hippocampus Induced By Trace Fear Conditioning	Kartik Ramamoorthi	Otto, Tim
Saint Louis University	Ecology	The impact of soil nitrogen on perennial grass establishment in an arid grassland	Ginger Allington	Valone, Thomas J.
Sam Houston State University	Anthropology	GIS as a tool in paleoenvironmental reconstruction in southern Africa	Timothy Campbell	Lewis, Patrick J.
Sam Houston State University	Conservation Biology	Analysis and comparison of invertebrate faunas from cave sites in Botswana	James Forson	Lewis, Patrick J.
San Diego State University	Petrology/Geochemistry	Evaluation of XRD and Raman peak broadening in shock-metamorphosed calcite and dolomite from selected carbonate-target bolide impact structures	Kean Bliss	Morrow, Jared R.

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 Alphabetical by Institution

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San Francisco State University	Petrology/Geochemistry	Petrologic analysis and material characterization of atypical blocky graphite from the southern Ural Mountains, Russia	Molly Cornell	Leech, Mary L.
Southern Illinois University-Carbondale	Ecology	"Vegetated Rooftops in Urban Communities with Emphasis on Quality of Stormwater Runoff"	Sarah Donnelly	Ebbs, Stephen
Southern Utah University	Physiology/Functional Morphology	The effect of diabetes mellitus on venous wall structure	Joshua Dekker	Smetanka, Rachel D.
St Mary's College of Maryland	Psychology	The Potential Benefits of Free-running Exercise in the Acquisition of a Learning Set in Long-Evans Rats with Quisqualic Acid Lesions to the Nucleus Basalis Magnocellularis	Jenalee Coster	Bailey, Aileen M.
St. Mary's College of Maryland	Psychology	The Effect of Continuous Beta-amyloid Protein Infusion into the Rat Cerebral Ventricle on Learning Set Acquisition	Trevor Logan	Bailey, Aileen M.
Stanford University	Engineering	Validation of a Stretchable Electromechanical Membrane for Regenerating Cardiac Cells	Jennifer Blundo	Pruitt, Beth L.
Stanford University	Ecology	Geographic variation in individual performance: effects of oceanographic conditions on bioenergetic tradeoffs in benthic marine herbivores	Rebecca Martone	Micheli, Fiorenza
Stanford University	Ecology	Amphibian Population Responses to Habitat Variation and Climatic Change in the World's Oldest National Park	Sarah McMenamin	Hadly, Elizabeth A.
State University of New York at Stony Brook	Cell Biology/Biochemistry	Exploring the Role of A disintegrin and Metalloprotease-10 (ADAM-10) and the Notch Pathway in Pancreatic Development and Tumorigenesis	Christine Ardito	Crawford, Howard C.

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State University of New York at Stony Brook	Computer Science/Mathematics	Comparative evaluation of the HearSay non-visual Web browser in navigation, form filling, and online transactions.	Yevgen Borodin	Ramakrishnan, IV
State University of New York College of Environmental Science and Forestry	Ecology	Assessing recovery and composition of a potential macroinvertebrate community following remediation in a polluted urban lake	Brandeis Brown	Schulz, Kimberly L.
Syracuse University	Paleontology/Sedimentation	Is molluscan turnover related to increased seasonality at the middle-late Eocene boundary in the U.S. Gulf Coastal Plain?	Heather Wall	Ivany, Linda C.
Texas A&M University-College Station	Anthropology	Lake Ontario Maritime Cultural Landscape Project	Ben Ford	Crisman, Kevin J.
Texas A&M University-College Station	Systematics/Evolutionary Biology	Hox gene expression and the evolution of body pattern in pipefishes	Kimberly Paczolt	Jones, Adam G.
Texas State University-San Marcos	Systematics/Evolutionary Biology	Homoploid hybrid speciation in Louisiana Iris	Sunni Taylor	Martin, Noland H.
Texas Tech University	Ecology	Interaction of predator stressors and the insecticide malathion on larval West Nile virus vector mosquitoes	Guangqiu Qin	Maul, Jonathan D.
The University of Louisiana at Monroe	Behavioral Ecology	Testing the effects of food resource distribution and abundance on the spatial ecology and sociality of Octodon degus	Joseph Burger	Hayes, Loren D.
Tufts University	Conservation Biology	Understanding the "stress" of translocation: how a commonly used conservation tool impacts a wild animal's Fight-or-Flight response.	Molly Dickens	Romero, L. M.

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Union College	Ecology	Test of a specific technique to reduce the impact of <i>Alliaria petiolata</i> on growth of a native tree seedling	Emily Follansbee	Corbin, Jeffrey D.
Universidad de Buenos Aires	Physiology/Functional Morphology	Leptin regulation on its receptors in the hypothalamus-pituitary-ovarian axis during the ovulatory process	María Di Yorio	Faletti, Alicia G.
Universidad de los Andes	Systematics/Evolutionary Biology	Genetic connectivity across the deep ocean: Phylogeography and genetic diversity of the cosmopolitan bubblegum coral <i>Paragorgia arborea</i> (Linnaeus)	Santiago Herrera	Sanchez, Juan A.
Universidad Nacional Autonoma de Mexico	Ecology	Population genetics and dispersal pattern of the nine-banded armadillo ( <i>Dasyus novemcinctus</i> ) in Mexican ecosystems	Maria Arteaga	Medellin, Rodrigo
University of Arkansas at Fayetteville	Ecology	Stable isotopic enrichment as a function of life history stage and diet quality in laboratory populations of <i>Solenopsis invicta</i> (Hymenoptera: Formicidae)	Paola Barriga	Sagers, Cynthia L.
University of Auckland	Ecology	Improving the success of house mouse eradication attempts on islands	Jamie MacKay	Hauber, Mark E.
University of British Columbia	Physiology/Functional Morphology	The Contributions of Growth Hormone Upregulation to the Muscle Physiology of Transgenic Coho Salmon	Peter Dimoulas	Shadwick, Robert E.
University of British Columbia	Anthropology	Using Percussion Coring to Explore the Developmental Sequence of a Early-Late Holocene Shell Midden on the Northern Northwest Coast	Bryn Letham	Martindale, Andrew

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University of California-Berkeley	Systematics/Evolutionary Biology	Coevolution and diversification in an obligate mutualism: Glochidion trees (Phyllanthaceae) and their pollinating moths (Gracillariidae: Epicephala) in the Society Islands, French Polynesia	David Hembry	Gillespie, Rosemary G.
University of California-Berkeley	Behavioral Ecology	The effects of social parasitism by the slave-making ant, <i>Polyergus breviceps</i> , on the nestmate recognition system of its host <i>Formica altipetens</i>	Candice Torres	Tsutsui, Neil
University of California-Davis	Ecology	Comparison of soil sterilization methods for rhizobial research	Megan Linthicum	Stanton, Maureen L.
University of California-Irvine	Behavioral Ecology	Male parental care as a sexually selected trait in a sea spider (Class Pycnogonida: Arthropoda)	Felipe Barreto	Avise, John C.
University of California-Los Angeles	Psychology	The Effect of Language on Children's Landmark Search Strategies	Amber Ankowski	Blaisdell, Aaron P.
University of California-Los Angeles	Behavioral Ecology	Ultrasonic communication by a Bornean frog.	Victoria Arch	Narins, Peter M.
University of California-Los Angeles	Physiology/Functional Morphology	ELECTROPHYSIOLOGY AND HEMODYNAMICS OF WORKING MEMORY	Allen Ardestani	Fuster, Joaquin M.
University of California-Merced	Ecology	A genomic and physiological approach to the study of coral bleaching tolerance	Michael DeSalvo	Medina, Monica
University of California-Riverside	Cell Biology/Biochemistry	Isoform specific phosphorylation of HNF4 alpha by Src palya a role in Human colon cancer	Karthikeyani Chellappa	Sladek, Frances M.
University of California-San Francisco	Anthropology	The meaning of independence and interdependence among older adults	Elena Portacolone	Newcomer, Robert J.

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University of California-Santa Barbara	Cell Biology/Biochemistry	The Role of Integrins in the Differentiation of Human Embryonic Stem Cells to Retinal Pigment Epithelial Cells	Teisha Rowland	Clegg, Dennis O.
University of California-Santa Cruz	Ecology	Antarctic fur seal reproductive biology: Impacts of maternal traits on reproductive effort	Birgitte McDonald	Costa, Daniel P.
University of Connecticut	Systematics/Evolutionary Biology	Investigating species boundaries and the role of mating signals during lineage divergence in European green lacewings of the <i>Chrysoperla carnea</i> group (Neuroptera: Chrysopidae)	Suegene Noh	Henry, Charles S.
University of Delaware	Cell Biology/Biochemistry	The role of the Unfolded Protein Response in cataractogenesis	ZEYNEP FIRTINA	Duncan, Melinda K.
University of Florida	Ecology	Corals, algae and microbes: using molecular tools to illuminate an ecological interaction	Carol Chaffee	Osenberg, Craig W.
University of Florida	Physiology/Functional Morphology	Localization of 3-beta-hydroxysteroid dehydrogenase in the Chick Chorioallantoic Membrane	Jacob Fyda	Guillette, Louis J.
University of Florida	Ecology	Evaluating the effects of reforestation on aquatic foodwebs and ecosystem function in riparian zones	Marcus Griswold	Crisman, Thomas L.
University of Florida	Behavioral Ecology	Does group size affect male reproductive success in the golden orb spider?	Clare Rittschof	Brockmann, H. J.
University of Florida	Ecology	Behavior, mimicry, and chemical ecology as joint forces driving speciation in tropical mimicry systems	Christian Salcedo	Emmel, Thomas C.
University of Georgia	Cell Biology/Biochemistry	Viral genes as candidate inhibitors of insect growth	Andrea Pruijssers	Strand, Michael R.

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University of Hawaii at Manoa	Conservation Biology	Multiple paternity in a rare deep-water shark ( <i>Squalus mitsukurii</i> )	Toby Daly-Engel	Gavey, Karen A.
University of Idaho	Behavioral Ecology	Sex ratio bias in pronghorn ( <i>Antilocapra americana</i> ): results of a physiological process or an evolutionary adaptation?	Erin Clancey	Byers, John A.
University of Illinois at Springfield	Ecology	Using redox potential to culture sediment bacteria	Ryan Roy	Lemke, Michael J.
University of Kansas Medical Center	Cell Biology/Biochemistry	MUTATIONS IN CYTOCHROME P450 OXIDOREDUCTASE INFLUENCE MICROSOMAL P450-CATALYZED DRUG METABOLISM	Steven Hart	Zhong, Xiaobo
University of Kent at Canterbury	Psychology	The influence of culture and religiosity on morality	Valeschka Guerra	Giner-Sorolla, Roger S.
University of Kentucky	Conservation Biology	Application of genetic techniques for detection of prey of forest-dwelling bats.	Luke Dodd	Rieske-Kinney, Lynne K.
University of Kentucky	Ecology	Single-tree effects of savanna trees and invasive species on soil biota	Megan Poulette	Crowley, Philip H.
University of Kentucky	Behavioral Ecology	Causes and consequences of individual variation in parental care in the Eastern Bluebird.	Daniel Wetzel	Westneat, David F.
University of Maine, Orono	Hydrology/Geomorphology	Glacier fluctuations and climate change in the southern Peruvian Andes	Gordon Bromley	Hall, Brenda L.
University of Maryland, College Park	Systematics/Evolutionary Biology	A window into the past: Using reproductive soldiers of the ancient termite genus <i>Archotermopsis</i> to elucidate the evolution of eusociality in insects.	Susan Johnson	Thorne, Barbara L.

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University of Massachusetts Amherst	Conservation Biology	Using camera-traps and surveys of traditional knowledge to estimate population abundance, density, and occupancy of threatened and endangered carnivores in southeastern Madagascar to best design landscape level conservation strategies.	Brian Gerber	Karpanty, Sarah M.
University of Massachusetts Amherst	Systematics/Evolutionary Biology	Differential Genome Processing in Foraminifera	Laura Wegener Parfrey	Katz, Laura A.
University of Miami	Conservation Biology	Recruitment of Loggerhead Turtles ( <i>Caretta caretta</i> ) to a Foraging Area in Quintana Roo, Mexico.	Janne Thoft Nielsen	Gaines, Michael S.
University of Minnesota, Twin Cities	Ecology	Modeled Organic Matter Processing in Arctic Hillslopes	Kyle Whittinghill	Hobbie, Sarah E.
University of Mississippi	Physiology/Functional Morphology	Investigation into the Integrated Primary and Secondary Stress Response of Three Gulf of Mexico Species of Shark: <i>Rhizoprionodon terraenovae</i> (sharpnose shark), <i>Carcharhinus limbatus</i> (blacktip shark), <i>Carcharhinus isodon</i> (finetooth shark)	Jill Hendon	Parsons, Glenn R.
University of Mississippi	Chemistry	Transmucosal Matrix Patch as a delivery system for $\Delta^9$ -Tetrahydrocannabinol hemisuccinate prodrug of $\Delta^9$ -Tetrahydrocannabinol	Sampada Upadhye	Repka, Michael A.
University of Missouri-Columbia	Conservation Biology	Long-Term Changes in Prevalence of Hellbender Abnormalities	Catherine Bodinof	Millsbaugh, Joshua J.
University of Montana	Cell Biology/Biochemistry	Effects of 5'UTR splicing and 5' UTR Long-Distance Interactions (LDI) on HIV-2 translation	Christy Strong	Lodmell, J. Stephen
University of Nebraska at Omaha	Systematics/Evolutionary Biology	Sensory Information and Sitting Postural Control of Infants	Anastasia Kyvelidou	Stergiou, Nick

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University of Nevada, Reno	Ecology	Family Planning in the American Kestrel: Experimental Manipulation of Parent Condition and its Effects on Reproductive Decisions	Jessi Brown	Collopy, Michael W.
University of New Hampshire	Hydrology/Geomorphology	A high-resolution chronology of Holocene glaciation in the central Alaska Range using in situ-produced cosmogenic Be-10 and lichenometry.	Michael Howley	Licciardi, Joseph M.
University of North Carolina at Wilmington	Systematics/Evolutionary Biology	Gamete Incompatibility and the Sexual Conflict Hypothesis in Hybridizing Blue Mussels	Victor Schmidt	McCartney, Michael A.
University of North Carolina at Wilmington	Paleontology/Sedimentation	Latitudinal Variation in Drilling Predation of Eastern South American Mollusks: Spatial Implications for Patterns of Evolution in the Fossil Record	Christy Visaggi	Kelley, Patricia H.
University of Notre Dame	Physics/Astronomy	The study of the alpha-p and rp-processes through (p,t) reactions.	Shawn O'Brien	Wiescher, Michael
University of Pittsburgh	Ecology	Facilitation of invasion by a mutualism to parasitism shift in the arbuscular mycorrhizae-native plant relationship	Alison Hale	Kalisz, Susan
University of Portland	Cell Biology/Biochemistry	New Approaches to Huntington's Disease Therapy: Combined Drug and Intracellular Antibody Treatments in a Drosophila Model	Sarah Bortvedt	Ahern-Rindell, Amelia J.
University of Rhode Island	Physiology/Functional Morphology	The Evolution of Asynchronous Jaw Muscle Activity in Elasmobranchs	Shannon Gerry	Wilga, Cheryl D.
University of South Dakota	Cell Biology/Biochemistry	The Effects of Repeated Amphetamine on Adult Neurogenesis in the Rat Hippocampus	Jeffrey Barr	Forster, Gina L.
University of South Dakota	Cell Biology/Biochemistry	Autophagy in Diabetic Cardiomyopathy	Kai Mao	Liang, Qiangrong

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University of South Florida	Anthropology	Supplementary Feeding and the Perception of Benefits in Malaysian Borneo	Elizabeth Cooper	Himmelgreen, David
University of South Florida	Ecology	Reproductive isolation in sympatric Bursera (Burseraceae) species in a tropical dry forest, Mexico	Maria del Pilar Lopera Blair	Fox, Gordon A.
University of South Florida	Physiology/Functional Morphology	Inhibition of autoimmune pathology in the Type I diabetic mouse	Seunghoo Park	Nolan, Michael F.
University of South Florida	Psychology	Are All Good Soldiers Created Equal? Examining the "Why" that Underlies Organizational Citizenship Behavior: The Development of an OCB Motives Scale	Anna Tolentino	Johnson, Russell E.
University of Tennessee-Knoxville	Paleontology/Sedimentation	A 12,000 Year Record of Pre-Columbian Environmental Change from Highland Guatemala	Maria Caffrey	Horn, Sally P.
University of Texas at Austin	Physiology/Functional Morphology	Social Modulation of Cell Proliferation in the Brain of the Adult Green Treefrog ( <i>Hyla cinerea</i> )	Lynn Almlie	Wilczynski, Walter
University of Texas at Austin	Ecology	Global change impacts on species' range and community structure of plants in the Himalayas	Kumar Mainali	Parmesan, Camille
University of Toledo	Ecology	The Occurrence and Survival of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) in Fresh Water.	Issmat Kassem	Sigler, Von
University of Toronto	Systematics/Evolutionary Biology	Differential rates of evolution in marine and freshwater lineages of fishes	Devin Bloom	Lovejoy, Nathan R.
University of Utah	Engineering	Nanoreactors for Hydrogen Peroxide Detection in Blood	Yen-chi Chen	Ostafin, Agnes E.
University of Utah	Behavioral Ecology	Is sunning behavior an adaptation for controlling ectoparasitic arthropods and microbes in bird plumage?	Jennifer Hutchens	Clayton, Dale H.

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 Alphabetical by Institution

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University of Utah	Engineering	Infrared emitting gold quantum dots for in vitro imaging	Chang-won Lee	Ostafin, Agnes E.
University of Utah	Ecology	Blood parasite biodiversity in China: predicting species coextinction rates	Jessica Waite	Clayton, Dale H.
University of Virginia	Cell Biology/Biochemistry	Structural Determinants in the Gating and Surface Expression of Low Voltage-activated Calcium Channels	Joel Baumgart	Perez, Enrique E.
University of Washington	Systematics/Evolutionary Biology	Functional analysis of adaptive diversification in type III antifreeze proteins	Joanna Kelley	Swanson, Willie J.
University of Wisconsin-Madison	Cell Biology/Biochemistry	Investigating the role of viral envelope glycolipids in the inhibition Vaccinia virus entry by a novel antiviral peptide.	Sharon Altmann	Brandt, Curtis R.
University of Wisconsin-Madison	Cell Biology/Biochemistry	Exploration of a Novel Vaccine Adjuvant for Highly Virulent H5N1 Influenza Viruses	Jeremy Jones	Schultz-Cherry, Stacey L.
University of Wisconsin-Madison	Psychology	Improving Women's Health by Using an Electronic Pelvic Floor Questionnaire	C. Schussler-Fiorenza	Gangnon, Ronald
University of Wisconsin-Milwaukee	Psychology	Executive Functioning in Young Children with Williams Syndrome	Frank Gallo	Klein-Tasman, Bonita P.
Vanderbilt University	Engineering	Fabrication of Macroscopic Freestanding All-Nanoparticle Thin Films and Investigation of their Physical Properties	Saad Hasan	Dickerson, James H.
Vanderbilt University	Physics/Astronomy	Structural and optical characterization of sub-3 nm Eu <sub>2</sub> O <sub>3</sub> and Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanocrystals	Sameer Mahajan	Dickerson, James H.
Vanderbilt University	Engineering	Porous Silicon Electro-osmotic Pumps with Gate Controlled Flow Rate Modulation	Saumitra Vajandar	LI, DEYU
Victoria University of Wellington	Ecology	Resource Use, Phylogeny, and Priority Effects in Reef Fishes	Shane Geange	Shima, Jeffrey S.

Grants from the October 15, 2007 Deadline  
 Alphabetical by Institution

Institution	Subject	Title	Student	Advisor
Villanova University	Systematics/Evolutionary Biology	Morphological Systematics of the Geckos of New Zealand	Stuart Nielsen	Bauer, Aaron M.
Villanova University	Behavioral Ecology	Influence of male song on mate choice in the Black-capped Chickadee ( <i>Poecile atricapillus</i> ) and Carolina Chickadee ( <i>P. carolinensis</i> ) hybrid zone	Samantha Slattery	Curry, Robert L.
Virginia Polytechnic Institute and State University	Behavioral Ecology	Does cultural divergence drive genetic divergence? A test in a tropical bird.	Julie Castner	Moore, Ignacio T.
Virginia Polytechnic Institute and State University	Ecology	The effect of morphological restoration on the fish and macroinvertebrate assemblage structure in a fragmented river system.	Ryan McManamay	Orth, Donald J.
Virginia Polytechnic Institute and State University	Engineering	Use of Biodiesel-Derived Crude Glycerol for Production of Omega-3 Fatty Acids by Algal Fermentation	Denver Pyle	Wen, Zhiyou
Wake Forest University	Cell Biology/Biochemistry	Deciphering the Role of Sub-cellular Compartmentalization of Proteins involved in Oxalate Metabolism	Jennifer Kiger	Holmes, Ross P.
Warren Wilson College	Conservation Biology	Thyroid Hormone, Epinephrine, Norepinephrine, and Ca <sup>2+</sup> Concentration Changes in Blood Plasma of the American alligator ( <i>Alligator mississippiensis</i> ) in Response to Acute Stress	Chelsea Maier	Collins, Victoria P.
Washington University in St. Louis	Ecology	Generalization and specialization of plant-pollinator interactions in <i>Oenothera</i>	Kyra Krakos	Raven, Peter H.

Grants from the October 15, 2007 Deadline  
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Institution	Subject	Title	Student	Advisor
West Virginia University	Systematics/Evolutionary Biology	Exploring synergistic activities among the microbial symbionts, <i>Wigglesworthia glossinidia</i> and <i>Sodalis glossinidius</i> , in the tsetse fly (Diptera: Glossinidae).	Jason DeBerry	Rio, Rita V.
Western Washington University	Petrology/Geochemistry	Metamorphic and Structural Evolution of the Northwest Chelan Block, North Cascades, WA	Aaron Fitts	Hirsch, David M.
Widener University	Cell Biology/Biochemistry	The effect of acid exposure on bactericidal action of blood in <i>Rana pipiens</i> .	Jonathon Diulio	Vatnick, Itzick
Worcester Polytechnic Institute	Physics/Astronomy	Mean-Value Method for Lateral Force Calibration	Derek Eggiman	Burnham, Nancy A.