

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Ashley E. McCartney	Cell Biology/Biochemistry	Albertson College of Idaho	Investigation of the Role of Estradiol in Cadmium-Induced Osteotoxicity
Evan C. Ewers	Ecology	American University	Using Metabolic and Molecular Tests to Assess the Role of Polycyclic Aromatic Hydrocarbons in a Heavily Polluted Urban River
Michael W. Butler	Physiology/Functional Morphology	Arizona State University	Immune function and development of sexual coloration in mallard ducks
Rebecca M. Clark	Behavioral Ecology	Arizona State University	Nutritional dynamics of leafcutter ant colonies: Characterizing the relationship between the fungal substrate and fungus growth
Kimberly D. Genareau	Petrology/Geochemistry	Arizona State University	Volcanic Conduit Conditions that Contribute to Shock Wave Formation: A Geochemical and Textural Analysis of Eruptive Products.
Cyd E. Hamilton	Ecology	Arizona State University	Hybrid Endophytes Alter Host Response to Abiotic Variation
Laura L. Hurley	Ecology	Arizona State University	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
James S. Waters	Physiology/Functional Morphology	Arizona State University	An empirical test of the social efficiency hypothesis in ants
Russell A. Ligon	Behavioral Ecology	Auburn University	Exploring the intra-specific signaling function of juvenal plumage
Emma L. McInturff	Chemistry	Boise State University	Probing cellular interactions of synthetic aziridinomitosenes through confocal microscopy
Jacqueline W. Ma	Behavioral Ecology	California State University-Fresno	Does social deprivation trigger stress-related hyper-aggression?

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Christine E. Bruno	Conservation Biology	California State University-Northridge	Geographic trends in photolyase activity and the sublethal effects of UV-B exposure in the Andean toad
Pinshane Y. Huang	Physics/Astronomy	Carleton College	The effect of alpha and beta Ta underlayers in giant magnetoresistance of permalloy/Cu thin films
Hayley K. Stafford	Physiology/Functional Morphology	Catawba College	The Influence of Atmospheric CO ₂ on the Calcification Rate of Developing Coral Planula.
Sarah L. DeVos	Cell Biology/Biochemistry	Central Michigan University	Creation of a Calpain-Resistant Form of Tau in <i>Drosophila</i>
Stephanie K. Sell	Conservation Biology	Central Michigan University	Investigating population structure and philopatry in ringed seals (<i>Phoca hispida</i>) during the breeding season
Jackie M. Langille	Tectonics/Geophysics	Central Washington University	Testing a channel-flow model using electron-backscatter diffraction investigations of middle-crustal rocks, Mabja Dome, southern Tibe
Yevgeniya Byekova	Cell Biology/Biochemistry	Clemson University	<i>Entamoeba histolytica</i> : Characterization of the subcellular and ultracellular localization of phosphatidylinositol (3, 4, 5)-trisphosphate
Adria C. Updike	Physics/Astronomy	Clemson University	Environments of Long Gamma Ray Bursts
Christina M. Alba-Lynn	Ecology	Colorado State University	Does delayed seed germination act to facilitate <i>Verbascum thapsus</i> invasion in variable environments?
Elizabeth M. Harp	Ecology	Colorado State University	Functional genetic diversity and pathogen resistance in black-tailed prairie dogs
Laura B. Newburgh	Physics/Astronomy	Columbia University	Mapping the Cosmological CMB Polarization Signal with QUIET

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Amanda N. Cass	Systematics/Evolutionary Biology	Cornell University	Expression of a tetrapod lung marker in the zebrafish swimbladder: evidence for homology?
Matthew C. Surdel	Cell Biology/Biochemistry	Davidson College	Identification of the Unknown Transcription Factor of the CD4 Promoter
Ryan W. McKeown	Physics/Astronomy	Drexel University	Can muon spallation and a lead target be used to create a fast neutron source?
Siddhartha Pathak	Engineering	Drexel University	Matrix level structure-property linkages in bone
Lesley M. Chapman	Cell Biology/Biochemistry	Duke University	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
David A. Garfield	Systematics/Evolutionary Biology	Duke University	Germline sequestration and senescence: a test in sea urchins
Melanie B. Hoy	Psychology	Duke University	Appearance as Defining the Self: The Development of Structure and Centrality in the Self System
John H. Kim	Ecology	Duke University	Carbon and water tradeoffs from invasion of woody plants across the precipitation gradient in South Africa
Brian J. Powell	Behavioral Ecology	Duke University	Investigating the Role of the Parietal Eye in Polarized Light Detection
Daniel I. Speiser	Behavioral Ecology	Duke University	The function of chiton eyes: Predator detection and visual navigation.
Laurie S. Stevison	Behavioral Ecology	Duke University	Sex mediated affects on recombination rate in different environments
Eileen R. Thorsos	Ecology	Duke University	Do wetland plant species shape soil emissions of the greenhouse gas methane via root carbon exudation?

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Melissa A. Doolin	Chemistry	Eastern Michigan University	GC-MS Analysis of Possible Binders in Rock Paintings: Protein Extraction and Purification and Comparisons to Authentic Pictographs.
Ronda R. Graves	Anthropology	Florida Atlantic University	Skeletal Analysis of Human Remains from Plaza San Marcos, Quito, Ecuador: Evidence of Increases in Pathological Conditions and Injuries Associated with Colonialism and Capitalism
Gauri H. Nayak	Cell Biology/Biochemistry	Florida Atlantic University	Analyzing the role of Neuroglobin in the brain of the anoxia-tolerant turtle <i>Trachemys scripta elegans</i>
Craig A. van der Heiden	Ecology	Florida Atlantic University	Spatial-Temporal Variation in Crayfish (<i>Procambarus fallax</i>) Dispersal in Response to Hydrological Pulse
William T. McLamb	Cell Biology/Biochemistry	Florida Institute of Technology	Characterizing the Role of Transient Receptor Potential Ion Channels in Infrared Thermosensation of Python Pit Organs
Teresa L. Micheli	Psychology	George Mason University	Hippocampal deficits due to elevated zinc consumption.
Catherine M. Haradon	Anthropology	George Washington University	The faunal and ecological context of the Acheulean to Middle Stone Age transition
Sarah J. Yoon-Miller	Chemistry	Hobart and William Smith Colleges	Solid-Phase Synthesis of Biologically Active Nitrogen Heterocycles
Maria L. Maust-Mohl	Psychology	Hunter College of The City University of New York	Vocal Communication and Possible Use of Echolocation by the Hippopotamus (<i>Hippopotamus amphibius</i>)
Benjamin R. Miller	Cell Biology/Biochemistry	Indiana University - Bloomington	Regulation of synaptic glutamate to restore striatal neuronal output in the R6/2 mouse model of Huntington's disease
Kristina R. Walkup	Anthropology	Iowa State University	Causal Understanding of Tool Use by Orangutans

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Shinichi Sunagawa	Ecology	J W Goethe-Universitat	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 event
Jennifer M. Gumm	Behavioral Ecology	Lehigh University	From individual behavior to population dynamics and back in the Comanche Springs pupfish (<i>Cyprinodon elegans</i>)
Kathryn A. Borsheim	Psychology	Lindenwood University	Yesterweek: accuracy of delayed recall in the context of eyewitness testimony
Curtis W. Burney	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Comparative phylogeography of Neotropical birds: testing the role of biogeography, demography, and ecology in shaping geographic patterns of genetic differentiation.
Erin E. Reardon	Ecology	McGill University	The Energetic Costs of Mouth-brooding in Divergent Oxygen Environments
Edward J. Swanson	Engineering	McGill University	Stabilization of Metal-Water Nanofluids by Plasma Enhanced Surface Functionalization
Bradley D. Winters	Cell Biology/Biochemistry	Mesa State College	Methylation and Membrane Association of Prenylated G-proteins
Eric W. Frey	Physics/Astronomy	Miami University Ohio	Fluorescence-based Calcium-ion Sensing At High Hydrostatic Pressures
Sehee S. Rim	Physiology/Functional Morphology	Miami University Ohio	Investigation of Comparative Thigmotropic and Associated Morphologic Traits of <i>Fusarium</i> species and <i>Aspergillus</i> species, the Predominant Invasive Ocular Filamentous Fungi

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Kelly L. Zullig	Physiology/Functional Morphology	Miami University Ohio	Prolactin as a mediator of hypothalamic-pituitary-adrenal cortex axis negative feedback
Qiaqia Wu	Cell Biology/Biochemistry	Middlebury College	The Expression of Catalase and Glutathione Peroxidase in Granulosa Cells: Variations during folliculogenesis and their implications for the development of good quality oocytes.
Ryan E. McKeon	Tectonics/Geophysics	Montana State University-Bozeman	The interaction between climate, tectonics, and topography in the San Juan Mountains of southwestern Colorado, U.S.A.
Joel W. Lowry	Tectonics/Geophysics	New Mexico Highlands University	Paleomagnetic Baked Contact Test of a Permo-Carboniferous Dike Intruding the Ross of Mull Granite, Isle of Mull, NW Scotland
Lisa M. Overholtzer	Anthropology	Northwestern University	Household Spaces and Everyday Practices at Late Postclassic Xaltocan, Mexico
Samuel E. Fox	Cell Biology/Biochemistry	Oregon State University	FLK guides RNA processes necessary for the initiation of flowering in Arabidopsis
Palak Amin	Cell Biology/Biochemistry	Pomona College	Identifying Drosophila RabGDI interactors by tandem affinity purification \hat{u} mass spectrometry
Bradley R. Markle	Paleontology/Sedimentation	Pomona College	Did Lake Elsinore (Riverside County, CA) experience rapid regression during the Last Glacial Maximum (ca. 19,200 c.y. BP)
Nicholas L. Swanson-Hysell	Tectonics/Geophysics	Princeton University	Detailed magnetostratigraphy of Keweenawan volcanics at Mamainse Point: reevaluating reversal asymmetry of the paleo-geomagnetic field in the late Mesoproterozoic

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Amy M. Savage	Ecology	Rice University	Anoplolepis gracilipes invasion of the Samoan Archipelago: Can mutualisms with native plants amplify ecological consequences?
Kartik Ramamoorthi	Psychology	Rutgers, The State University of New Jersey	Gene Expression Changes in Ventral and Dorsal Hippocampus Induced By Trace Fear Conditioning
Ginger R. Allington	Ecology	Saint Louis University	The impact of soil nitrogen on perennial grass establishment in an arid grassland
Timothy L. Campbell	Anthropology	Sam Houston State University	GIS as a tool in paleoenvironmental reconstruction in southern Africa
James K. Forson	Conservation Biology	Sam Houston State University	Analysis and comparison of invertebrate faunas from cave sites in Botswana
Kean M. Bliss	Petrology/Geochemistry	San Diego State University	Evaluation of XRD and Raman peak broadening in shock-metamorphosed calcite and dolomite from selected carbonate-target bolide impact structures
Molly R. Cornell	Petrology/Geochemistry	San Francisco State University	Petrologic analysis and material characterization of atypical blocky graphite from the southern Ural Mountains, Russia
Sarah E. Donnelly	Ecology	Southern Illinois University-Carbondale	"Vegetated Rooftops in Urban Communities with Emphasis on Quality of Stormwater Runoff"
Joshua A. Dekker	Physiology/Functional Morphology	Southern Utah University	The effect of diabetes mellitus on venous wall structure
Jenalee N. Coster	Psychology	St Mary's College of Maryland	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

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Trevor T. Logan	Psychology	St. Mary's College of Maryland	The Effect of Continuous Beta-amyloid Protein Infusion into the Rat Cerebral Ventricle on Learning Set Acquisition
Jennifer T. Blundo	Engineering	Stanford University	Validation of a Stretchable Electromechanical Membrane for Regenerating Cardiac Cells
Rebecca L. Martone	Ecology	Stanford University	Geographic variation in individual performance: effects of oceanographic conditions on bioenergetic tradeoffs in benthic marine herbivores
Sarah K. McMenamain	Ecology	Stanford University	Amphibian Population Responses to Habitat Variation and Climatic Change in the World's Oldest National Park
Christine M. Ardito	Cell Biology/Biochemistry	State University of New York at Stony Brook	Exploring the Role of A disintegrin and Metalloprotease-10 (ADAM-10) and the Notch Pathway in Pancreatic Development and Tumorigenesis
Yevgen Borodin	Computer Science/Mathematics	State University of New York at Stony Brook	Comparative evaluation of the HearSay non-visual Web browser in navigation, form filling, and online transactions.
Brandeis L. Brown	Ecology	State University of New York College of Environmental Science and Forestry	Assessing recovery and composition of a potential macroinvertebrate community following remediation in a polluted urban lake
Heather L. Wall	Paleontology/Sedimentation	Syracuse University	Is molluscan turnover related to increased seasonality at the middle-late Eocene boundary in the U.S. Gulf Coastal Plain?
Ben L. Ford	Anthropology	Texas A&M University-College Station	Lake Ontario Maritime Cultural Landscape Project
Kimberly A. Paczolt	Systematics/Evolutionary Biology	Texas A&M University-College Station	Hox gene expression and the evolution of body pattern in pipefishes

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Sunni J. Taylor	Systematics/Evolutionary Biology	Texas State University-San Marcos	Homoploid hybrid speciation in Louisiana Iris
Guangqiu Qin	Ecology	Texas Tech University	Interaction of predator stressors and the insecticide malathion on larval West Nile virus vector mosquitoes
Molly J. Dickens	Conservation Biology	Tufts University	Understanding the "stress" of translocation: how a commonly used conservation tool impacts a wild animal's Fight-or-Flight response.
Emily E. Follansbee	Ecology	Union College, New York	Test of a specific technique to reduce the impact of <i>Alliaria petiolata</i> on growth of a native tree seedling
María P. Di Yorio	Physiology/Functional Morphology	Universidad de Buenos Aires	Leptin regulation on its receptors in the hypothalamus-pituitary-ovarian axis during the ovulatory process
Santiago Herrera	Systematics/Evolutionary Biology	Universidad de los Andes	Genetic connectivity across the deep ocean: Phylogeography and genetic diversity of the cosmopolitan bubblegum coral <i>Paragorgia arborea</i> (Linnaeus)
Maria C. Arteaga	Ecology	Universidad Nacional Autonoma de Mexico	Population genetics and dispersal pattern of the nine-banded armadillo (<i>Dasyus novemcinctus</i>) in Mexican ecosystems
Paola A. Barriga	Ecology	University of Arkansas at Fayetteville	Stable isotopic enrichment as a function of life history stage and diet quality in laboratory populations of <i>Solenopsis invicta</i> (Hymenoptera: Formicidae)
Jamie W. MacKay	Ecology	University of Auckland	Improving the success of house mouse eradication attempts on islands
Peter M. Dimoulas	Physiology/Functional Morphology	University of British Columbia	The Contributions of Growth Hormone Upregulation to the Muscle Physiology of Transgenic Coho Salmon

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Bryn A. Letham	Anthropology	University of British Columbia	Using Percussion Coring to Explore the Developmental Sequence of a Early-Late Holocene Shell Midden on the Northern Northwest Coast
David H. Hembry	Systematics/Evolutionary Biology	University of California-Berkeley	Coevolution and diversification in an obligate mutualism: Glochidion trees (Phyllanthaceae) and their pollinating moths (Gracillariidae: Epicephala) in the Society Islands, French Polynesia
Candice W. Torres	Behavioral Ecology	University of California-Berkeley	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>
Megan K. Linthicum	Ecology	University of California-Davis	Comparison of soil sterilization methods for rhizobial research
Felipe S. Barreto	Behavioral Ecology	University of California-Irvine	Male parental care as a sexually selected trait in a sea spider (Class Pycnogonida: Arthropoda)
Amber N. Ankowski	Psychology	University of California-Los Angeles	The Effect of Language on Children's Landmark Search Strategies
Victoria S. Arch	Behavioral Ecology	University of California-Los Angeles	Ultrasonic communication by a Bornean frog.
Allen Ardestani	Physiology/Functional Morphology	University of California-Los Angeles	ELECTROPHYSIOLOGY AND HEMODYNAMICS OF WORKING MEMORY
Michael K. DeSalvo	Ecology	University of California-Merced	A genomic and physiological approach to the study of coral bleaching tolerance
Karthikeyani Chellappa	Cell Biology/Biochemistry	University of California-Riverside	Isoform specific phosphorylation of HNF4 alpha by Src paly a role in Human colon cancer
Elena Portacolone	Anthropology	University of California-San Francisco	The meaning of independence and interdependence among older adults

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Teisha J. Rowland	Cell Biology/Biochemistry	University of California-Santa Barbara	The Role of Integrins in the Differentiation of Human Embryonic Stem Cells to Retinal Pigment Epithelial Cells
Birgitte I. McDonald	Ecology	University of California-Santa Cruz	Antarctic fur seal reproductive biology: Impacts of maternal traits on reproductive effort
Suegene Noh	Systematics/Evolutionary Biology	University of Connecticut	Investigating species boundaries and the role of mating signals during lineage divergence in European green lacewings of the Chrysoperla carnea group (Neuroptera: Chrysopidae)
Zeynep Firtina	Cell Biology/Biochemistry	University of Delaware	The role of the Unfolded Protein Response in cataractogenesis
Carol L. Chaffee	Ecology	University of Florida	Corals, algae and microbes: using molecular tools to illuminate an ecological interaction
Jacob P. Fyda	Physiology/Functional Morphology	University of Florida	Localization of 3-beta-hydroxysteroid dehydrogenase in the Chick Chorioallantoic Membrane
Marcus W. Griswold	Ecology	University of Florida	Evaluating the effects of reforestation on aquatic foodwebs and ecosystem function in riparian zones
Clare C. Rittschof	Behavioral Ecology	University of Florida	Does group size affect male reproductive success in the golden orb spider?
Christian Salcedo	Ecology	University of Florida	Behavior, mimicry, and chemical ecology as joint forces driving speciation in tropical mimicry systems
Andrea J. Pruijssers	Cell Biology/Biochemistry	University of Georgia	Viral genes as candidate inhibitors of insect growth
Toby S. Daly-Engel	Conservation Biology	University of Hawaii at Manoa	Multiple paternity in a rare deep-water shark (<i>Squalus mitsukurii</i>)

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Erin Clancey	Behavioral Ecology	University of Idaho	Sex ratio bias in pronghorn (<i>Antilocapra americana</i>): results of a physiological process or an evolutionary adaptation?
Ryan S. Roy	Ecology	University of Illinois at Springfield	Using redox potential to culture sediment bacteria
Steven N. Hart	Cell Biology/Biochemistry	University of Kansas Medical Center	MUTATIONS IN CYTOCHROME P450 OXIDOREDUCTASE INFLUENCE MICROSOMAL P450-CATALYZED DRUG METABOLISM
Valeschka M. Guerra	Psychology	University of Kent at Canterbury	The influence of culture and religiosity on morality
Luke E. Dodd	Conservation Biology	University of Kentucky	Application of genetic techniques for detection of prey of forest-dwelling bats.
Megan M. Poulette	Ecology	University of Kentucky	Single-tree effects of savanna trees and invasive species on soil biota
Daniel P. Wetzel	Behavioral Ecology	University of Kentucky	Causes and consequences of individual variation in parental care in the Eastern Bluebird.
Joseph R. Burger	Behavioral Ecology	University of Louisiana at Monroe	Testing the effects of food resource distribution and abundance on the spatial ecology and sociality of <i>Octodon degus</i>
Gordon R. Bromley	Hydrology/Geomorphology	University of Maine, Orono	Glacier fluctuations and climate change in the southern Peruvian Andes
Susan E. Johnson	Systematics/Evolutionary Biology	University of Maryland, College Park	A window into the past: Using reproductive soldiers of the ancient termite genus <i>Archotermopsis</i> to elucidate the evolution of eusociality in insects.

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Brian D. Gerber	Conservation Biology	University of Massachusetts Amherst	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.
Laura E. Wegener Parfrey	Systematics/Evolutionary Biology	University of Massachusetts Amherst	Differential Genome Processing in Foraminifera
Janne T. Nielsen	Conservation Biology	University of Miami	Recruitment of Loggerhead Turtles (<i>Caretta caretta</i>) to a Foraging Area in Quintana Roo, Mexico.
Kyle A. Whittinghill	Ecology	University of Minnesota, Twin Cities	Modeled Organic Matter Processing in Arctic Hillslopes
Jill M. Hendon	Physiology/Functional Morphology	University of Mississippi	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)
Sampada B. Upadhye	Chemistry	University of Mississippi	Transmucosal Matrix Patch as a delivery system for Δ^9 -Tetrahydrocannabinol hemisuccinate prodrug of Δ^9 -Tetrahydrocannabinol
Catherine M. Bodinof	Conservation Biology	University of Missouri-Columbia	Long-Term Changes in Prevalence of Hellbender Abnormalities
Christy L. Strong	Cell Biology/Biochemistry	University of Montana	Effects of 5'UTR splicing and 5' UTR Long-Distance Interactions (LDI) on HIV-2 translation
Anastasia Kyvelidou	Systematics/Evolutionary Biology	University of Nebraska at Omaha	Sensory Information and Sitting Postural Control of Infants

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

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

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Maria del Pilar Lopera Blair	Ecology	University of South Florida	Reproductive isolation in sympatric <i>Bursera</i> (<i>Burseraceae</i>) species in a tropical dry forest, Mexico
Seunghoo Park	Physiology/Functional Morphology	University of South Florida	Inhibition of autoimmune pathology in the Type I diabetic mouse
Anna L. Tolentino	Psychology	University of South Florida	Are All Good Soldiers Created Equal? Examining the δ Why δ that Underlies Organizational Citizenship Behavior: The Development of an OCB Motives Scale
Maria Caffrey	Paleontology/Sedimentation	University of Tennessee-Knoxville	A 12,000 Year Record of Pre-Columbian Environmental Change from Highland Guatemala
Lynn M. Almlie	Physiology/Functional Morphology	University of Texas at Austin	Social Modulation of Cell Proliferation in the Brain of the Adult Green Treefrog (<i>Hyla cinerea</i>)
Kumar P. Mainali	Ecology	University of Texas at Austin	Global change impacts on species' range and community structure of plants in the Himalayas
Issmat Kassem	Ecology	University of Toledo	The Occurrence and Survival of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) in Fresh Water
Devin D. Bloom	Systematics/Evolutionary Biology	University of Toronto	Differential rates of evolution in marine and freshwater lineages of fishes
Yen-chi Chen	Engineering	University of Utah	Nanoreactors for Hydrogen Peroxide Detection in Blood
Jennifer A. Hutchens	Behavioral Ecology	University of Utah	Is sunning behavior an adaptation for controlling ectoparasitic arthropods and microbes in bird plumage?
Chang-won Lee	Engineering	University of Utah	Infrared emitting gold quantum dots for in vitro imaging
Jessica L. Waite	Ecology	University of Utah	Blood parasite biodiversity in China: predicting species coextinction rates

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Joel P. Baumgart	Cell Biology/Biochemistry	University of Virginia	Structural Determinants in the Gating and Surface Expression of Low Voltage-activated Calcium Channels
Joanna L. Kelley	Systematics/Evolutionary Biology	University of Washington	Functional analysis of adaptive diversification in type III antifreeze proteins
Sharon E. Altmann	Cell Biology/Biochemistry	University of Wisconsin-Madison	Investigating the role of viral envelope glycolipids in the inhibition Vaccinia virus entry by a novel antiviral peptide.
Jeremy C. Jones	Cell Biology/Biochemistry	University of Wisconsin-Madison	Exploration of a Novel Vaccine Adjuvant for Highly Virulent H5N1 Influenza Viruses
Sophia S. Rose	Psychology	University of Wisconsin-Madison	Improving Women's Health by Using an Electronic Pelvic Floor Questionnaire
Frank J. Gallo	Psychology	University of Wisconsin-Milwaukee	Executive Functioning in Young Children with Williams Syndrome
Saad Hasan	Engineering	Vanderbilt University	Fabrication of Macroscopic Freestanding All-Nanoparticle Thin Films and Investigation of their Physical Properties
Sameer V. Mahajan	Physics/Astronomy	Vanderbilt University	Structural and optical characterization of sub-3 nm Eu ₂ O ₃ and Gd ₂ O ₃ :Eu ³⁺ nanocrystals
Saumitra K. Vajandar	Engineering	Vanderbilt University	Porous Silicon Electro-osmotic Pumps with Gate Controlled Flow Rate Modulation
Shane W. Geange	Ecology	Victoria University of Wellington	Resource Use, Phylogeny, and Priority Effects in Reef Fishes
Stuart V. Nielsen	Systematics/Evolutionary Biology	Villanova University	Morphological Systematics of the Geckos of New Zealand
Samantha J. Slattery	Behavioral Ecology	Villanova University	Influence of male song on mate choice in the Black-capped Chickadee (<i>Parus atricapillus</i>) and Carolina Chickadee (<i>P. carolinensis</i>) hybrid zone

Grants-in-Aid of Research Awards
October 15, 2007 Grant Cycle

Alphabetical by Institution

Julie E. Castner	Behavioral Ecology	Virginia Polytechnic Institute and State University	Does cultural divergence drive genetic divergence? A test in a tropical bird.
Ryan A. McManamay	Ecology	Virginia Polytechnic Institute and State University	The effect of morphological restoration on the fish and macroinvertebrate assemblage structure in a fragmented river system.
Denver J. Pyle	Engineering	Virginia Polytechnic Institute and State University	Use of Biodiesel-Derived Crude Glycerol for Production of Omega-3 Fatty Acids by Algal Fermentation
Jennifer R. Kiger	Cell Biology/Biochemistry	Wake Forest University	Deciphering the Role of Sub-cellular Compartmentalization of Proteins involved in Oxalate Metabolism
Chelsea R. Maier	Conservation Biology	Warren Wilson College	Thyroid Hormone, Epinephrine, Norepinephrine, and Ca ²⁺ Concentration Changes in Blood Plasma of the American alligator (<i>Alligator mississippiensis</i>) in Response to Acute Stress
Kyra N. Krakos	Ecology	Washington University in St. Louis	Generalization and specialization of plant-pollinator interactions in <i>Oenothera</i>
Jason W. DeBerry	Systematics/Evolutionary Biology	West Virginia University	Exploring synergistic activities among the microbial symbionts, <i>Wigglesworthia glossinidia</i> and <i>Sodalis glossinidius</i> , in the tsetse fly (Diptera: Glossinidae).
Aaron A. Fitts	Petrology/Geochemistry	Western Washington University	Metamorphic and Structural Evolution of the Northwest Chelan Block, North Cascades, WA
Jonathon J. Diulio	Cell Biology/Biochemistry	Widener University	The effect of acid exposure on bactericidal action of blood in <i>Rana pipiens</i> .
Derek J. Eggiman	Physics/Astronomy	Worcester Polytechnic Institute	Mean-Value Method for Lateral Force Calibration