

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Rachel A. Balabuszko	Anthropology	Ohio State University	A Method for Differentiating Human and Nonhuman Fragmented Skeletal Remains and Species Identification
Kirsten M. Brown	Anthropology	Johns Hopkins University School of Medicine	A morphometric approach to obstetrical adaptation in a narrow-bodied population
Rachel F. Giraud	Anthropology	University of California-Berkeley	Community Anthropology in Practice: Mapping Intangible Heritage at the Tsodilo Hills
Lesley A. Gregoricka	Anthropology	Ohio State University	Isotopic Investigation of Mobility, Exchange, and Tomb Membership in a Bronze and Iron Age Arabian World-System
Jennifer A. Hodgson	Anthropology	The Graduate Center, The City University of New York	A GIS-based approach to the study of carnivore damage to bones: an assessment of Plio-Pleistocene hominin-carnivore competition at Kanjera South, Kenya
Sharon E. Kessler	Anthropology	Arizona State University	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?
Britney R. Kyle	Anthropology	Ohio State University	Reconstructing health and activity at ancient Apollonia, Albania: Impacts of Greek colonization
Virginia Mckay	Anthropology	University of Memphis	The Efficacy of an HIV Education Program: Kampala, Uganda
Nidia Merino Chavez	Anthropology	Ohio State University	Mexicanidad in Ohio: Identity and Stress in Columbus
Alex E. Morrison	Anthropology	University of Hawaii at Manoa	Environmental Variability and Island Settlement History: Easter Island Community Organization and Land Use

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Jason S. Nesbitt	Anthropology	Yale University	Radiocarbon Dating of El Niño Events at Huaca Cortada: Implications for Human-Environment Dynamics in Ancient Peru
Neeltje J. Boogert	Behavioral Ecology	McGill University	Are good singers better problem solvers? The link between song complexity and foraging skills in wild zebra finches
Alexali S. Brubaker	Behavioral Ecology	University of California-Davis	The influences of natural and artificial selection on temperament and post-release fitness in captive-bred endangered wild equids.
Maria L. Chazarreta	Behavioral Ecology	Universidad Nacional del Comahue	A KEY SPECIES FROM THE PATAGONIA FOREST: MAGELLANIC WOODPECKER CAMPEPHILUS MAGELLANICUS, FEEDING HABITAT SELECTION AND FORAGING BEHAVIOR
Henry G. Colmer	Behavioral Ecology	University of North Carolina at Charlotte	Manganese, the ðVibration Signal,ö and the Regulation of Communication in Honey Bees
Aron K. Costello	Behavioral Ecology	Miami University Ohio	Do male house mice (<i>Mus musculus</i>) alter their preference for a female based on the presence and dominance rank of another male?
Jesse Delia	Behavioral Ecology	East Carolina University	Bat predator avoidance and resulting reproductive strategies of the Neotropical glassfrog <i>Hyalinobatrachium fleischmanni</i> (Anura: Centrolenidae)
Maya S. deVries	Behavioral Ecology	University of California-Berkeley	Intraspecific differences in diet in the formidable marine predator, <i>Neogonodactylus bredini</i> (Stomatopoda, Crustacea)

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Sumit Dhole	Behavioral Ecology	University of North Carolina at Chapel Hill	Sexual selection in age-structured populations of <i>Drosophila pseudoobscura</i>
Christopher Flint	Behavioral Ecology	Virginia Polytechnic Institute and State University	Magnetic Orientation in <i>Drosophila Melanogaster</i> Follows Cryptochrome Action Spectrum
Daniel E. Holt	Behavioral Ecology	Auburn University	The Effect of Noise On Acoustic Communication In <i>Cyprinella Venusta</i> .
Melissa Kjelvik	Behavioral Ecology	Michigan State University	Population dynamics and mortality tradeoffs of "bold" and "shy" foraging behaviors: A field study with sunfish
Mark E. Laidre	Behavioral Ecology	Princeton University	Must lying always increase with greater temptation in nonhumans?
Kristen E. Lucia	Behavioral Ecology	Miami University Ohio	A field test of the effects of inbreeding on adult prairie voles (<i>Microtus ochrogaster</i>)
Melissa G. Meadows	Behavioral Ecology	Arizona State University	Does dietary protein affect iridescent ornamentation in Anna's hummingbirds (<i>Calypte anna</i>)?
Austin Mercadante	Behavioral Ecology	Auburn University	Does male eastern bluebird coloration signal competitive ability?
Gillian L. Moritz	Behavioral Ecology	University of California-Santa Cruz	The ecology and evolution of tarsier visual systems
Dana L. Moseley	Behavioral Ecology	University of Massachusetts Amherst	Sexual Selection and Signal Function in the Song of Swamp Sparrows
Zoltan Nemeth	Behavioral Ecology	University of Southern Mississippi	The price of information: decision-making in a novel environment
Kathleen T. Berg	Cell Biology/Biochemistry	University of Minnesota, Twin Cities	Intranasal Application of Neuroprotective Agents for Retinitis Pigmentosa
Binyue Chang	Cell Biology/Biochemistry	University of South Carolina	The involvement of transcription factors snail and slug in vitreous-mediated EMT in RPE cells using SiRNA

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Rebecca Cooper	Cell Biology/Biochemistry	Appalachian State University	Role of potB and potC genes on polyamine transport and biofilm formation in <i>Vibrio cholerae</i> .
Catharine A. Culjis	Cell Biology/Biochemistry	Boston University	Neuropeptide Expression by Epidermal Langerhans Cells
Lindsey M. Draper	Cell Biology/Biochemistry	Juniata College	A Study of Novel Chromosome Segregation Genes in a Filamentous Bacterium
Christopher A. Drummond	Cell Biology/Biochemistry	Bowling Green State University	Second Messenger Effects on Larval-Pupal Reprogramming in the Tobacco Hornworm, <i>Manduca sexta</i>
Kurtis Eisermann	Cell Biology/Biochemistry	Kent State University	Androgen Regulation of VEGF in Prostate Cancer
Andrea L. Hanick	Cell Biology/Biochemistry	Washington and Lee University	Time dependent TCR stimulation for induction of CXCR3 expression by CD8+ T cells
Andrew Holowiecki	Cell Biology/Biochemistry	Bowling Green State University	Mitochondrial NADH utilization and NADH → NAD ⁺ transhydrogenation in the adult parasitic nematode <i>Ascaris suum</i>
Ashley M. Iketani	Cell Biology/Biochemistry	University of Central Florida	Generation of Transgenic Flies to Identify a putative component of Rho Signaling pathway
Julia M. Jenkins	Cell Biology/Biochemistry	University of North Carolina at Wilmington	RNA interference as a tool for investigating the roles of cuticular proteins in biomineralization of the Atlantic Blue crab, <i>Callinectes sapidus</i> .
Ryan C. Johnson	Cell Biology/Biochemistry	Juniata College	A Biochemical Investigation of Motility-Associated Phosphodiesterases in Non-Motile <i>Streptomyces</i>
Cesar Kenaan	Cell Biology/Biochemistry	University of Michigan-Ann Arbor	The Functional Importance of Cytochrome P450 Conformational Dynamics
Emily A. Lambert	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	In vitro Analysis of the <i>Bacillus anthracis</i> Protein SleL

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

bhavani p. madakashira	Cell Biology/Biochemistry	Miami University Ohio	The Role of Frs2 β in Lens Development
Christine L. Moskalik	Cell Biology/Biochemistry	University of Cincinnati	Investigating the in vivo role of a cytosolic protein during thyroid hormone-dependent development
Arun G. Paul	Cell Biology/Biochemistry	Rosalind Franklin University of Medicine and Science	Therapeutic potential of COX-2 inhibitors in treating Kaposi's sarcoma associated herpes virus (KSHV) related Body cavity B cell lymphoma (BCBL)
Nina M. Poole	Cell Biology/Biochemistry	University of Memphis	Dermacentor variabilis: Tick Saliva Is a Potential Inhibitor of Breast Carcinoma Migration and Invasion
Aaron L. Stahl	Cell Biology/Biochemistry	University of Northern Iowa	A time course study in the development of embryos of "Pimephales promelas" exposed to atrazine.
Tamu C. Talton	Cell Biology/Biochemistry	University of Central Florida	The regulation of CXCL16 signaling in colorectal cancer metastasis
Hatim Thaker	Cell Biology/Biochemistry	Northwestern University	Bladder Regeneration Utilizing Autologous Sources of Ureteral Smooth Muscle Cells
Sara Thomas	Cell Biology/Biochemistry	University of Georgia	Role of reactive oxygen species and nitric oxide in blueberry flower infection by Monilinia vaccinii-corymbosi, a specialized flower-infecting fungus
Yao Yao	Cell Biology/Biochemistry	State University of New York at Stony Brook	The role of plasmin in MCP-1-induced BBB disruption and PBMC infiltration
Ming Zhu	Cell Biology/Biochemistry	Saint Louis University	Identifying the Critical Enzyme that Ubiquitinates G Protein in Yeast
JIE ZHU	Cell Biology/Biochemistry	Miami University Ohio	The role of Wnt signaling in retina regeneration
Jessica Greger	Chemistry	Hobart and William Smith Colleges	Regiocontrolled synthesis of 3,4-disubstituted-3-pyrrolin-2-ones via a convergent methodology

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Andrew J. Huisman	Chemistry	University of Wisconsin-Madison	Atmospheric dicarbonyl detection via analysis of a spectrally broad laser-induced phosphorescence signal
Rebecca A. Jarrell	Chemistry	State University of New York College of Environmental Science and Forestry	Development of a Real-time Optical Sensor for Trace Organic Pollutants
Michelle M. Meighan	Chemistry	Arizona State University	Separation of Proteins Utilizing a Novel Electrophoretic Exclusion Technique
Ukwatta Jayarathna	Computer Science/Mathematics	Texas State University-San Marcos	Human Oculomotor Plant Signature Modeling: are there unique and person specific physiological and behavioral features in oculomotor plant eye movement parameters?
Rijo Santhosh	Computer Science/Mathematics	Tarleton State University	Autonomous self balancing robot
Amy L. Bridges	Conservation Biology	Rice University	Creating an historic record of cyclones from forest trees ring isotopes in southeastern Madagascar rain forest; implications for lemur demography and climate change
Jack D. Buckland	Conservation Biology	University of Bristol	Status and conservation of Mauritian fauna and flora threatened by the invading Madagascar giant day gecko, <i>Phelsuma grandis</i> .
Scott A. Collenburg	Conservation Biology	East Stroudsburg University of Pennsylvania	Development of a Yeast Estrogen Screen (YES) Assay to test for estrogenic substances near a Sewage Treatment Plant
Ryan Cooper	Conservation Biology	University of Alaska Fairbanks	Clarifying the taxonomy and conservation status of a poorly-studied Arctic alpine small mammal
Steve Doo	Conservation Biology	California State University-San Marcos	Effects of Ocean Acidification on Planktonic Foraminifers

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Catherine G. Haase	Conservation Biology	SUNY College of Environmental Science and Forestry	A thermal balance and habitat suitability model for moose (<i>Alces alces</i>) in the Adirondack Region of New York State.
Matthew J. Iglesias	Conservation Biology	Central Michigan University	Determining if Human Disturbance affects <i>Batrachochytrium dendrobatidis</i> Infection of Green Frogs (<i>Lithobates clamitans melanota</i>) in Michigan
Allyson K. Jackson	Conservation Biology	College of William and Mary	Survival in a created landscape: radio-tracking fledglings on golf courses
Lance G. La Pierre	Conservation Biology	University of Hawaii at Manoa	Genetic variation and population structure of <i>Caesalpinia kavaensis</i> H. Mann (Fabaceae) or uhiuhi, a rare, endemic tree of Hawaiian dry and mesic forests
Randi Rhodes	Conservation Biology	University of Hawaii at Manoa	The effects of dispersal on the population dynamics of the Hawaiian Coot, <i>Fulica alai</i>
Natalia M. Schroeder	Conservation Biology	Universidad Nacional de Cuyo	Interaction between guanaco (<i>Lama guanicoe</i>) and livestock in Payunia Reserve (Mendoza, Argentina). Towards an integrated proposal for sustainable management.
Erin Singer	Conservation Biology	Appalachian State University	Mill dams effects on freshwater mussel growth rates in Alabama streams
Eric L. Triezenberg	Conservation Biology	Central Michigan University	Investigations into the Existence of Sub-Species in <i>Symphalangus syndactylus</i> Using Mitochondrial DNA
Yiwei Wang	Conservation Biology	University of California-Santa Cruz	Are Dingoes Heroes or Villains in the Bridled Nailtail Wallaby story? Evaluating the mesopredator release theory in the context of endangered species management.

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Virginia L. Winder	Conservation Biology	University of North Carolina at Wilmington	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 U.S. and Canada, respectively).
Christopher M. Asquith	Ecology	Virginia Commonwealth University	Effect of predator foraging and prey population size-structure on prey growth strategies
Ashley K. Baldrige	Ecology	University of Notre Dame	When predator becomes prey: intraguild predation in an invaded ecosystem
Thomas Bentley	Ecology	Pennsylvania State University	Does Cucumber mosaic virus manipulate the phenotype of tobacco to increase its transmission?
Christopher Bertram	Ecology	University of Illinois at Urbana-Champaign	What mechanisms control the prevalence of the micro-parasite <i>Spirobacillus cienkowskii</i> in <i>Daphnia pulicaria</i> (Crustacea: cladoceran) populations?
William R. Brogan	Ecology	University of Pittsburgh	Wetland Security: Can submerged aquatic vegetation increase community resistance to insecticide exposure?
Kevin J. Buffington	Ecology	Idaho State University	Predicting climate-induced shifts of burying beetle distributions
Cayelan C. Carey	Ecology	Cornell University	The ecosystem and food web impacts of cyanobacterial <i>Gloeotrichia echinulata</i> blooms in an oligotrophic lake in the northeastern United States
Rachel J. Clausing	Ecology	University of California-Los Angeles	Effects of anthropogenic nutrient inputs on rocky intertidal algal community dynamics

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Nathan B. Dappen	Ecology	University of Miami	The significance of male-typical coloration in female Ibiza wall lizards, <i>Podarcis pityuensis</i>
Laura Dugan	Ecology	University of Texas at Austin	Spread of an Invasive Cichlid in a Desert Spring System in an Important Protected Area in MØxico
Mary C. Duryea	Ecology	Dartmouth College	Sexual selection at the molecular level: sperm competition and sperm sorting
Eric R. Floro	Ecology	Kent State University	Mitochondrial heteroplasmy in Yellow Monkeyflower (<i>Mimulus guttatus</i> , Phrymaceae)
Christopher J. Freeman	Ecology	University of Alabama at Birmingham	Experimental manipulation of nutrient exchange from cyanobacterial symbionts to marine sponges
David J. Gonthier	Ecology	University of Toledo	Nutrition, caffeine, and coffee: the influences of plant chemistry on herbivores, ant-mutualists, and predators
Sarah Gray	Ecology	State University of New York at Stony Brook	Microbial metagenomics meets community ecology
Maya Groner	Ecology	University of Pittsburgh	Effects of predator stress on immune function and susceptibility of leopard frogs to the amphibian pathogen <i>Batrachochytrium dendrobatidis</i>
Nyeema Harris	Ecology	North Carolina State University	Does change beget change: impacts of carnivore rarity on ectoparasite community dynamics?
Andrew Hein	Ecology	University of Florida	Do general rules structure ecological communities?
Katherine D. Heineman	Ecology	University of Nebraska at Lincoln	The Effect of Below-Ground Resources on Woody Density Variation and Above-Ground Biomass Estimates in a Bornean Tropical Forest.

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Erin R. Hotchkiss	Ecology	University of Wyoming	Quantifying the patterns and drivers of aquatic ecosystem respiration: Looking beyond common assumptions to understand stream carbon cycling
Christopher A. Howey	Ecology	Ohio University	The Affects of Prescribed Burning on Reptile Abundances, Movement Rates, and Habitat Selection.
Kristina E. Hultgren	Ecology	St. Olaf College	Impaired waters: The role of biogeochemical, ecological, and hydrological processes that influence stream water quality
Christopher J. Iacoboni	Ecology	Duke University	Evaluating the Influence of Anthropogenic Nitrogen Deposition on Forest Succession
Matthew A. Kaproth	Ecology	University of Vermont	Effect of intraspecific competition density on dispersal kernel variation in natural populations of invasive plants: Implications for spread
Tyler R. Kartzinel	Ecology	University of Georgia	Understanding Epiphytic Plants is Prerequisite to Conservation of Tropical Biodiversity.
Mike R. Levine	Ecology	Western Washington University	The effects of season and microhabitat on the distribution and nutritional contributions of two algal symbionts in the intertidal anemone <i>Anthopleura xanthogrammica</i> .
Eric A. Lewallen	Ecology	University of Toronto at Scarborough	Does the Eastern Pacific Barrier limit epipelagic fish dispersal? A population genetic analysis of 12 Pacific flyingfish (<i>Exocoetidae</i>) species
Brian D. Lutz	Ecology	Duke University	Direct quantification of organic nitrogen in natural waters: Validation of a new high-pressure, tangential-flow nanofiltration method

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Nathan Malcomb	Ecology	Eastern Kentucky University	Long-term tree-ring based productivity estimates of coastal forests in the Pacific Northwest
Avni Malhotra	Ecology	Villanova University	EFFECTS OF HYDROLOGICAL DISTURBANCES ON THE CARBON CYCLE OF A POOR FEN IN ALBERTA, CANADA
Eduardo Martin	Ecology	Universidad Nacional de Tucum�n	Promiscuity among birds with cooperative breeding: ecological and evolutionary implications in <i>Coryphistera alaudina</i> (Furnariidae)
Erynn E. Maynard	Ecology	University of Mississippi	Restoring <i>Andropogon virginicus</i> and <i>Schizachyrium scoparium</i> to upland forests in northern Mississippi
Nicole E. Miller	Ecology	Washington University in St. Louis	Stress-adaptation and competition for pollinators: Implications for endemic plants
Jason M. Nelson	Ecology	Miami University Ohio	The Roles of Managed Grasslands in the Biodiversity and Ecosystems Services of Beneficial Insects in Agricultural Landscapes
Jane E. Ogilvie	Ecology	University of Toronto	Pollination Facilitation in Subalpine Gentians
Nathan A. Rathbun	Ecology	Indiana State University	Choice, Copulation & Color: The Effect of Plumage on Alternative Strategies
Alexandra S. Rohde	Ecology	University of Pittsburgh	Temperature and Water Effects on Phenology and Opportunity for Positive Assortative Mating in <i>Plantago</i>
Sean F. Ryan	Ecology	Bowling Green State University	Examining the role of isothiocyanates and nitriles on insect �imprinting�: Are you my host?
Jason A. Ryndock	Ecology	University of Mississippi	The Impact of Ecological Restoration on Spider Communities of an Upland, Deciduous Forest in Northern Mississippi

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Brian E. Sedio	Ecology	University of Michigan-Ann Arbor	DNA Barcoding Psychotria-Insect Interactions: Are Herbivores of Species-Rich Plant Genera Specialized Enough to Promote Coexistence?
Jason D. Smith	Ecology	Pennsylvania State University	Odor-Mediated Foraging in Parasitic Plants
Jennifer N. Smith	Ecology	University of Montana	Fecundity and body size in a native spider after an exotic plant invasion
Erin R. Spear	Ecology	University of Utah	The role of soil pathogens in determining the distribution and abundance of tropical plant species across a rainfall gradient
Olivia D. Stanzer	Ecology	Southwestern University	The Persistence of Pink: Potential ecological influences of ovorubin in egg clutches of <i>Pomacea insularum</i>
Tomomi Suwa	Ecology	Michigan State University	Effects of herbicide on plant-rhizobium mutualism: how rapid evolutionary change influences the outcome of mutualism
Linda M. Svensson	Ecology	University of Missouri-St. Louis	INTERACTIONS BETWEEN BIRDS AND PIGMENTED HAEMOSPORIDIAN PARASITES (HAEMOSPORIDA) IN WESTERN AMAZONIA
Brian M. Thompson	Ecology	University of Maryland, College Park	Effect of microbial community composition on European woodwasp fecundity and behavior: a metagenomic approach to evaluating competition and resource allocation.
Judit Ungvari-Martin	Ecology	University of Florida	Bird community structure along a tropical productivity gradient: bottom-up effects examined by integrating ecology, behavior and genetics

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Jonathan P. Velotta	Ecology	University of Connecticut	The effects of land-locking on the osmoregulatory physiology of alewife (<i>Alosa pseudoharengus</i>) populations in Connecticut
Miguel H. Villanueva	Ecology	Instituto de Ecologia, A.C.	Insect plant interactions mediated-extrafloral nectaries of the red cedar (<i>Cedrela odorata</i> , Meliaceae) in forest and plantations of central Veracruz
Bonnie G. Waring	Ecology	University of Texas at Austin	Environmental Drivers of Fungal-to-Bacterial Ratios in Tropical Forest Soils
Clemence P. William	Ecology	Utah State University	A definitive water budget for a shrub-steppe ecosystem
Bill D. Wills	Ecology	University of Illinois at Urbana-Champaign	The role of body size distributions in outcomes of interspecific interactions in social insects
Kevin H. Wyatt	Ecology	Michigan State University	ENHANCED ALGAL PRODUCTION AND CARBON CYCLING IN NORTHERN PEATLANDS: SUBSTRATE CONTROLS ON DECOMPOSITION
Laura E. Christianson	Engineering	Iowa State University	Denitrification Bioreactors for Treatment of Agricultural Drainage
Matthew A. Hood	Engineering	Drexel University	Enhancement of shape memory effect in remotely actuated magnetic nanoparticle functionalized carbon nanotube polyurethane composites
Benoit Lessard	Engineering	McGill University	Block Copolymer Based Organic Photovoltaic Cells by nitroxide mediated controlled radical polymerization (NMP)
Ming-Chu Chen	Hydrology/Geomorphology	Georgia Institute of Technology	Tectonic, climatic, and anthropogenic influences on ultra-high rate of bedrock incision, Ta-An River Gorge, Taiwan

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Brandon L. Edwards	Hydrology/Geomorphology	Louisiana State University-Baton Rouge	Field investigation of the effects of grain size distribution and surface moisture on the threshold shear velocity needed to initiate aeolian sand transport
Andrew Kowler	Hydrology/Geomorphology	University of Arizona	Paleolake-level fluctuations in closed basins of the Southwest USA during the Pleistocene-Holocene transition: paleohydrologic analogs to modern global warming
Karen Williams	Hydrology/Geomorphology	Montana State University-Bozeman	Organization of stream channels in channel form and energy expenditure
Christina L. Belanger	Paleontology/Sedimentation	University of Chicago	Biological Responses to Climate Change: Physiological and Community-level Responses to the Miocene Climate Optimum (Early Miocene Astoria Formation, Oregon)
Robert W. Boessenecker	Paleontology/Sedimentation	Montana State University-Bozeman	Comparative taphonomy of marine vertebrate fossil assemblages in the Mio-Pliocene Purisima Formation of Central California
Hilary B. Christensen	Paleontology/Sedimentation	University of Chicago	The Mammalian Transition to Herbivory in the Early Cenozoic
Robyn M. Dahl	Paleontology/Sedimentation	University of California-Riverside	Paleoecology and taxonomic composition of Middle Ordovician Laurentian bivalves
Miles A. Henderson	Paleontology/Sedimentation	University of Tennessee-Knoxville	Understanding the biological origins of Grypania: Implications for early Earth evolution.
Paula J. Mejia-Velasquez	Paleontology/Sedimentation	University of Florida	Determining floristic patterns and paleoclimatic conditions in the tropics during the early radiation of flowering plants

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Catalina Pimiento	Paleontology/Sedimentation	University of Florida	Panama as a Paleo-Nursery Area for Giant Shark Babies (<i>Carcharocles megalodon</i>)
Joshua S. Slattery	Paleontology/Sedimentation	University of South Florida	Faunal Responses to Late Cretaceous (early Maastrichtian) Ocean/Climate Change in the Western Interior Seaway
Richard S. Tutalo	Paleontology/Sedimentation	Sam Houston State University	Variation in owl pellets from the Koanaka Hills, Botswana and the implications for regional paleoenvironmental reconstruction
James J. Zambito	Paleontology/Sedimentation	University of Cincinnati	Testing the effects of sea-surface temperature variation on faunal migrations using the fossil record: implications for climate change on geologic timescales
Charissa J. Johnson	Petrology/Geochemistry	University of Minnesota, Twin Cities	Magnetic Sourcing
Indra S. Sen	Petrology/Geochemistry	Florida International University	Sulfides in Hawaiian Mantle: Can it Explain the Elevated 186Os-187Os Isotopes in Ocean Basalts ?
Mark E. Stelten	Petrology/Geochemistry	University of California-Davis	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?
Lauren A. Sutton	Petrology/Geochemistry	San Diego State University	Shocked metamorphic effects on feldspar and quartz in siliceous volcanic rocks from the El'Gygytgyn impact crater, Russia
Alka Tripathy	Petrology/Geochemistry	Arizona State University	Thermochronology of the Indus Molasse, Northwest Indian Himalaya: Constraining the timing of collision between India and Eurasia

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Kelsey Winsor	Petrology/Geochemistry	University of Wisconsin-Madison	A Mg/Ca-based northwest Atlantic sea surface temperature record for the last two deglaciations
Guillermo A. Blanc	Physics/Astronomy	University of Texas at Austin	The VIRUS-P Exploration of Nearby Galaxies (VENGA)
Jean-Rene Gauthier	Physics/Astronomy	University of Chicago	The Growth of Massive Galaxies
Elizabeth A. Hook	Physics/Astronomy	Rhodes College	Investigation of U-236 Using the Surrogate Reaction Method
Jian Liu	Physics/Astronomy	University of Arkansas at Fayetteville	Search for Novel High-Temperature Superconductivity and Exotic Magnetism in Complex Oxide Superlattices of ReNiO ₃ /LaAlO ₃ (Re=La, Pr, Nd and Eu)
Jamie R. Lomax	Physics/Astronomy	University of Denver	Mass Transfer and the Structure of Beta Lyrae's Accretion Disk
Barbara D. Rojas-Ayala	Physics/Astronomy	Cornell University	Metallicity Effects on Planet Formation Around M Dwarfs
Matti P. Asuma	Physiology/Functional Morphology	University of Wisconsin-Madison	The Effects of Oxytocin and Cortisol on Muscarinic and G-Protein Coupled Receptor Signaling in Retinal Pigment Epithelial Cells
Lela Chilachava	Physiology/Functional Morphology	I. Beritashvili Institute of Physiology	The Antipneumococcal Activity of K9 Killer Toxin and its Effect on the Alterations Provoked by S. pneumoniae in the Gene Expression, Brain-Blood Barrier Permeability, Immune System and Neuro-immune Interactions of Mice
Sarah E. DuRant	Physiology/Functional Morphology	Virginia Polytechnic Institute and State University	Immunocompetence driven tradeoffs mediated by incubation temperature in wood duck (Aix sponsa) ducklings

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Andrew Fogel	Physiology/Functional Morphology	University of Southern California	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
Maria R. Frye	Physiology/Functional Morphology	Loyola Marymount University	Energy availability and bone mineral density in runners, dancers, and controls
Andrea Holzbauer	Physiology/Functional Morphology	University of Wisconsin-Oshkosh	Energetic Cost of an Immune Challenge in Chickadees During Cold Exposure
Andris Kronbergs	Physiology/Functional Morphology	University of Delaware	Role of T-type (<i>Cav3.2</i>) Voltage Sensitive Calcium Channel in bone formation in suspended and re-loaded mice.
Leilani b. Pasicolan	Physiology/Functional Morphology	University of Central Florida	The influence of temperature on electrolocation performance in electric fishes: constraints on sensory system design
Jonathan D. Reichard	Physiology/Functional Morphology	Boston University	Unique vasculature of the Brazilian free-tailed bat (<i>Molossidae</i>) facilitates heat and water balance for long distance flight in subtropical regions.
Michael Q. Steinman	Physiology/Functional Morphology	University of California-Davis	Glial regulation of gonadotrophin releasing hormone secretion and reproductive function in response to food availability.
Eric Vaillancourt	Physiology/Functional Morphology	University of Ottawa	The metabolic fuel selection and lipid mobilization capacity of a long-distance migrant, the Greater Snow Goose (<i>Chen caerulescens atlantica</i>)
Julie T. Widholm	Physiology/Functional Morphology	University of Wisconsin-Oshkosh	Thermoregulation and Habitat Preference in Two Species of Tropical Rodents

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Elizabeth N. Andresen	Psychology	University of Wisconsin-Milwaukee	The Roles of External Incentive, Working Memory, and Processing Speed on Continuous Performance Test Performance in College Students with Attention Deficit Hyperactivity Disorder
Chin Lin A. Fulmer	Psychology	University of Maryland, College Park	Are All Trust Violations the Same? A Dynamical Approach to Trust Dissolution, Trust Recovery, and Cross-Cultural Differences
Christopher Heiland	Psychology	St Mary's College of Maryland	Toward a comprehensive animal model of schizophrenia: A comparison of behavioral phenotypes between male and female rats
Steven J. Holochwost	Psychology	University of North Carolina at Chapel Hill	Joint Activation of Physiological Systems as a Predictor of Executive Function
Thomas Laudate	Psychology	Boston University	Eye Movements and Hemifield Spatial Biases in Parkinson's Disease: Functional and Structural Measures
Daniel R. Seichepine	Psychology	Boston University	Effects of Stimulus Contrast and Luminance on Visual Search in Normal Aging and Parkinson's Disease.
Elizabeth S. Smith	Psychology	St. Mary's College of Maryland	Effects of chronic stress duration on behavioral deficits and neuronal activity in a neurodevelopmental model of schizophrenia.
Adriane Soehner	Psychology	University of California-Berkeley	Waking Up on the Wrong Side of the Bed: The Effect of Mood Context on Decision Making Following Sleep Deprivation

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Rayna C. Bell	Systematics/Evolutionary Biology	Cornell University	Evaluating the Pleistocene forest refuge hypothesis in <i>Hyperolius</i> tree frogs of central Africa
Kevin J. Burls	Systematics/Evolutionary Biology	University of Nevada, Reno	Conditions for the emergence of isolated subpopulations due to genetic drift
Vincent R. Farallo	Systematics/Evolutionary Biology	Texas State University-San Marcos	Evolution of color polymorphism in mottled rock rattlesnakes (<i>Crotalus lepidus lepidus</i>)
Tricia C. Goulding	Systematics/Evolutionary Biology	San Francisco State University	Understanding the evolution of marine parasites by examining genetic diversity of acanthocephalan parasites from sand crabs
Adam Green	Systematics/Evolutionary Biology	University of Rochester	The roles of genetic pre-adaptation and human history on the success of invasive ivy (<i>Hedera</i> spp., Araliaceae) in North America.
Michael B. Hawkins	Systematics/Evolutionary Biology	University of Colorado at Boulder	The evolution and development of fish barbels
Chih-Ming Hung	Systematics/Evolutionary Biology	University of Minnesota, Twin Cities	Phylogeography of the Eurasian nuthatch: a multi-gene test of mtDNA patterns
Amanda P. Jamison	Systematics/Evolutionary Biology	Indiana State University	The Importance of Codependency: an Investigation into the Avian Host-Parasite Relationship
Chandreyee Mitra	Systematics/Evolutionary Biology	University of Nebraska at Lincoln	Is phenotypic plasticity costly? Examining flight-muscle polymorphism in the field cricket <i>Gryllus lineaticeps</i>
Jamie R. Oaks	Systematics/Evolutionary Biology	University of Kansas	Comparative Phylogeography of Southern Indochina
Frank W. Stearns	Systematics/Evolutionary Biology	University of Maryland, College Park	Approaching an optimum: The effects of random mutation on fitness in natural <i>Arabidopsis thaliana</i> ecotypes

Grants-in-Aid of Research Awards
March 15, 2009 Grant Cycle

Alphabetical by Subject

Yoel E. Stuart	Systematics/Evolutionary Biology	Harvard University	Competition, niche shift, and adaptive evolution: the response of <i>Anolis carolinensis</i> to competition with an invasive species, <i>Anolis sagrei</i>
Mridul K. Thomas	Systematics/Evolutionary Biology	Michigan State University	Rapid evolutionary responses of phytoplankton to rising temperatures
Evan A. Bargnesi	Tectonics/Geophysics	University of Kansas	Thermochronometric constraints on detrital provenance and source thermal evolution from a supradetachment basin in Paros, Greece
Summer J. Brown	Tectonics/Geophysics	Virginia Polytechnic Institute and State University	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.
Angela L. Hull	Tectonics/Geophysics	Kent State University	Testing Models of Paleoproterozoic Crust Formation in central North America
Gus B. Seixas	Tectonics/Geophysics	Wesleyan University, Connecticut	Extensional deformation associated with the Wheeler Fault, Lake Mead, USA.