# Grants-in-Aid of Research Awards
## March 15, 2011 Grant Cycle

Alphabetical by Subject

| | | | |
|---|---|---|---|
| Scott A. Blumenthal | Anthropology | The Graduate Center, The City University of New York | High resolution tooth enamel sampling using secondary ion mass spectrometry to recover short-term isotope shifts: implications for reconstructing paleoseasonality |
| Adrienne Bryan | Anthropology | Stanford University | The Politics of a Sacred Landscape: A Study of the Inca Ceque System |
| Jeffrey C. Dobereiner | Anthropology | Harvard University | Investigating the Role of Alcohol in Ancient Mesoamerican Societies Through Application of Novel Chemical Analytical Techniques |
| Tony A. Fitzpatrick | Anthropology | Georgia State University | Secular Change and Novel Methods of Stature Estimation: Research from Modern Skeletal Collections |
| Ryan M. Harke | Anthropology | University of South Florida | Understanding Prehistoric Shellfishing in Northwest Florida through the Sclerochronology of Busycon sinistrum and Triplofusus giganteus |
| Fumie Iizuka | Anthropology | University of Arizona | Monagrillo Ware, PanamaÆs First Pottery (ca. 4500-3200 B.P.): Gathering Clays for Pottery Sourcing |
| Elizabeth T. Johnson | Anthropology | University of Michigan-Ann Arbor | Vocal grooming: The form and function of gelada vocalizations |
| Stephanie N. Nutter | Anthropology | Eastern New Mexico University | Southwestern Alignments |
| Clayton D. Pilbro | Anthropology | University of New Mexico | Comparison of Early Eocene San Juan Basin, NM Phenacolemur jepseni with Phenacolemur citatus and Phenacolemur praecox from Bighorn Basin, WY -A study of the variation and validity of these Phenacolemur species |

# Grants-in-Aid of Research Awards
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| | | | |
|---|---|---|---|
| Oscar G. Prieto | Anthropology | Yale University | Studying Early Fishing Communities and the Rise of Social Complexity in the Andean World |
| Jess H. Senjem | Anthropology | University of Wisconsin-Madison | Taphonomic Analysis of a Probable Leopard Assemblage in South Africa |
| Brittany A. Singletary | Anthropology | Florida Atlantic University | Analyzing the acoustic characteristics of Avahi peyrierasi in southeast Madagascar. |
| Laura K. Stroik | Anthropology | Arizona State University | The Competitive Environment of the Origination and Early Diversification of Euprimates in North America |
| Caroline M. VanSickle | Anthropology | University of Michigan-Ann Arbor | Changes in Neandertal female pelvis morphology and their implication for the evolution of childbirth |
| Emily J. Artz | Behavioral Ecology | Iowa State University | Effects of seed dispersal in shed bison hair on seed predation by granivores |
| Nicholas Ballew | Behavioral Ecology | Michigan State University | Personality variation in largemouth bass and its ecological consequences |
| Amos Belmaker | Behavioral Ecology | Cornell University | Expected Longevity and Behavioral Syndromes in Tachycineta bicolor |
| Alexandra B. Bentz | Behavioral Ecology | Appalachian State University | Effects of social aggression on Tree Swallow (Tachycineta bicolor) offspring behavior and physiology |
| Sophia Callander | Behavioral Ecology | Australian National University | Keep your enemies close: can your neighbours affect your attractiveness? |
| Elizabeth D. Carlton | Behavioral Ecology | Indiana University - Bloomington | The Immunocompetence Handicap Hypothesis: Are energetics the missing link? |
| Ondi L. Crino | Behavioral Ecology | University of Montana | Developmental stress: physiological and reproductive consequences in the zebra finch |
| Kyle Elliott | Behavioral Ecology | University of Manitoba | How can wild birds work hard and live long? |

# Grants-in-Aid of Research Awards
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Alphabetical by Subject

| | | | |
|---|---|---|---|
| Angela R. Freeman | Behavioral Ecology | University of Manitoba | Infrasound as a signal in mate selection by Pavo cristatus |
| Kristin A. Hook | Behavioral Ecology | Cornell University | Spermatophore Leks and Sperm Competition in a Pseudoscorpion (Cheiridium museorum) |
| Brittany R. Jenkins | Behavioral Ecology | University of Colorado at Boulder | Information content of sexual signals: a temporal investigation of stress responsiveness |
| Andrea L. Liebl | Behavioral Ecology | University of South Florida | Behavioral Syndromes in Invasive Species: Using a Recently Introduced House Sparrow Population as a Model |
| Keoleboge M. Malela | Behavioral Ecology | University of Botswana | Social networks in the Little Scrub Island ground lizard (Ameiva corax) |
| James O'Hanlon | Behavioral Ecology | Macquarie University | Floral mimicry in the orchid mantis (Hymenopus coronatus) |
| Kathleen Rudolph | Behavioral Ecology | University of Florida | Enslaved, Ejected or Cannibalized : The æSpoils of WarÆ in Acacia Ants |
| Joseph R. Sapp | Behavioral Ecology | University of California-Santa Cruz | Raiding behavior of Slave-making ants |
| Caitlin A. Stern | Behavioral Ecology | Cornell University | Reproductive skew in kin neighborhoods |
| Brian Stucky | Behavioral Ecology | University of Colorado at Boulder | Is this host taken? Acoustic parasitoids and detection of already-parasitized hosts |
| Cynthia A. Tedore | Behavioral Ecology | Duke University | Tracking visual attention to infer cognitive processes guiding species and sex recognition in jumping spiders |
| Natasha Tigreros | Behavioral Ecology | Tufts University | Every maleÆs dilemma: allocation to good looks vs. nuptial gifts? |
| Beck A. Wehrle | Behavioral Ecology | California State University-Northridge | Why do lizards lounge? The role of sociality in exchanging microbial communities among hatchling green iguanas (Iguana iguana) |

# Grants-in-Aid of Research Awards
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Alphabetical by Subject

| | | | |
|---|---|---|---|
| Angel A. Alvarez | Cell Biology/Biochemistry | University of Alabama at Birmingham | The role of NFKBIA in regulating glioblastoma-derived stem cell |
| Karla Y. Barbosa-Sabanero | Cell Biology/Biochemistry | Miami University Ohio | Canonical Shh signaling:A Key for Retina Regeneration |
| Tamar R. Berger | Cell Biology/Biochemistry | Thomas Jefferson University | Profiling polyglutamine-expanded AR aggregates in spinal and bulbar muscular atrophy |
| Edna C. Bonilla | Cell Biology/Biochemistry | Universidad de los Andes | Axon guidance in Boninia divae and its association with neuroregeneration |
| Simran K. Brar | Cell Biology/Biochemistry | University of Wisconsin-Madison | Understanding how the N296H bestrophin mutation contributes to the development of BestÆs Disease mechanisms due to cytoplasmic point mutation |
| Jingyi Cao | Cell Biology/Biochemistry | Miami University Ohio | Establishment of a Protocol for Collecting Cell-type Specific Poly (A) Sites in Arabidopsis Roots |
| Erica A. Fishel | Cell Biology/Biochemistry | Washington University in St. Louis | Identification of the Arabidopsis EB1-binding proteins |
| Osric A. Forrest | Cell Biology/Biochemistry | Hampden-Sydney College | The Influence of Melanoma Tumor-Altered Dendritic Cells on T Cell Activation |
| Stephanie M. Frahs | Cell Biology/Biochemistry | Boise State University | Effects of Microgravity on Parathyroid Hormone-Related Peptide Expression in Cultured Osteocytes through Activation of the Calcium-Ion Channel |
| Christina P. Godfried Sie | Cell Biology/Biochemistry | Lehigh University | RNA Editing in IGFBP7 changes the amino acid sequence with potential consequences for its functions |
| Nealia C. House | Cell Biology/Biochemistry | Tufts University | The contribution of histone H3 and H4 modifications to the maintenance of CAG repeat stability |
| Sunjatha Jagannathan | Cell Biology/Biochemistry | Duke University | Understanding cellular mRNA partitioning by tracking newly synthesized RNA |

# Grants-in-Aid of Research Awards
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Alphabetical by Subject

| | | | |
|---|---|---|---|
| Venkatesh Krishnan | Cell Biology/Biochemistry | Pennsylvania State University | Visualizing matrix-proteases in a novel tri-culture mimicking vicious cycle of metastatic cancer to bone |
| Stephanie L. Moon | Cell Biology/Biochemistry | Colorado State University | A potential role for a highly structured, non-coding RNA derived from the dengue virus genome in modulating host mRNA decay |
| Brett H. Mueller | Cell Biology/Biochemistry | University of North Texas Health Science Center at Fort Worth | Neuroprotective Properties of Sigma-1 Receptors in Primary Retinal Ganglion Cells |
| Bhavik B. Nathwani | Cell Biology/Biochemistry | Columbia University | Morpholometric analysis of dendritic spines using superresolution microscopy |
| Robert H. Nichol | Cell Biology/Biochemistry | University of California-Riverside | Do PBDEs affect microtubule synthesis and synaptogenesis? |
| Kirsten Nole | Cell Biology/Biochemistry | Cedar Crest College | Examination of the role of Replication Protein A phosphorylation in the cellular response to Ultraviolet-induced DNA damage |
| Autum N. Pairett | Cell Biology/Biochemistry | Iowa State University | Identification of the G-protein binding partners of scallop eye opsins |
| Yong H. Park | Cell Biology/Biochemistry | University of North Texas | Upregulation of Brain-Derived Neurotrophic Factor, Through Ampakines, Protects Primary Rat Retinal Ganglion Cells From Neurodegeneration |
| Aaron E. Robinson | Cell Biology/Biochemistry | University of Wisconsin-Oshkosh | YY1 EXPRESSION IN GROUND SQUIRREL RETINA |
| Maureen A. Shaw | Cell Biology/Biochemistry | Loyola University Chicago | Spartin protein associates with phospholipids via its senescence domain and acts as a lipid transfer protein |
| Kevin J. Spring | Cell Biology/Biochemistry | University of Houston | A stochastic model of macronuclear division in the Ciliate Chilodonella uncinata. |
| Lindsey Steiner | Cell Biology/Biochemistry | Ball State University | Virulence of Bacillus cereus during ocular infections in a mouse model |

# Grants-in-Aid of Research Awards
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| | | | |
|---|---|---|---|
| Jennifer Yeung | Cell Biology/Biochemistry | Thomas Jefferson University | 12-HETrE regulates hemostasis and thrombosis via DGLA in the human platelet |
| Ying Bao | Chemistry | University of South Dakota | Density dependent plasmonic properties of gold nanorod thin films |
| Elise Cowley | Chemistry | Oregon State University | Bioassay Guided Fractionation of a Red Sea Strain of Lyngbya majuscula |
| Michael M. Krause | Chemistry | McGill University | Investigation of the existence of Carrier multiplication in CdSe Quantum dots |
| Sarah R. Nathan | Chemistry | Idaho State University | Synthesis of Cisplatin Analogs by Chiral Grignard Addition of 4-chloropyridine |
| Faye M. Walker | Chemistry | University of California-Santa Barbara | Incorporating Polyvalent Therapeutics into Six- and Ten-Stranded RNA Nanocubes |
| Corey Holland | Computer Science/Mathematics | Texas State University-San Marcos | Human Oculomotor Plant Modeling: Can human eye movements be accurately and precisely modeled/predicted by a two-dimensional linear homeomorphic model of the oculomotor plant? |
| Amy Freitag | Conservation Biology | Duke University | The Geography of Toxicity: A Collaborative Study of Estuarine Water Quality |
| Cecibel Katherine Inga Pacheco | Conservation Biology | Universidad Central del Ecuador | Jaguar (Panthera onca), Puma (Puma concolor) and Human Interrelations in Guanacaste, Costa Rica |
| Jordan G. Kueneman | Conservation Biology | University of Colorado at Boulder | Community Ecology of Amphibian Microbes in the Presence of a Pathogen |
| Martina Lagatierra-Wellington | Conservation Biology | University of Cambridge | The effect of foraging and environmental enrichment on the expression of stereotypical behaviour in common marmosets |
| Rebecca M. Lauer | Conservation Biology | Ohio State University | Tracking Injured Snakes Rescued from Snake Charmers, Rehabilitated and Released in Nepal |

# Grants-in-Aid of Research Awards
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| | | | |
|---|---|---|---|
| Ramiro J. Ovejero | Conservation Biology | Instituto Argentino de Investigaciones de las Zonas ⊥ridas | Conservation endocrinology: a noninvasive tool to understand relationships between natural history, environmental and human activities with physiological stress responses in wild guanacos (Lama guanicoe) of the Northern Patagonia. |
| Ashley N. Ragan | Conservation Biology | Sam Houston State University | Potential Behavioral Reproductive Isolation between the Endangered Pecos Gambusia and the Introduced Largespring Gambusia |
| Natalia A. Rossi | Conservation Biology | Columbia University | Preliminary Assessment of American crocodileÆs reproductive dynamics and its impacts on population persistence and inter-specific coexistence with Cuban crocodiles in Cuba |
| Daniel J. Russo | Conservation Biology | University of North Carolina at Wilmington | ""Effects of feeding frequency on larval growth, survival, fatty acid profiles and resistance to hyposaline stress in southern flounder Paralichthys lethostigma"" |
| Robert L. Stanton | Conservation Biology | University of Nebraska at Omaha | Recolonization ability, plant host associations, and effects of anthropogenic background noise on the cicada, Tibicen dorsatus, in tallgrass prairies. |
| Marie L. VanZandt | Conservation Biology | University of Hawaii at Hilo | The spatial distribution and habitat restrictions of the Hawaiian Petrel on the Island of LΓnaæi. |
| Alexa R. Warwick | Conservation Biology | Florida State University | Phylogeography and conservation genetics of the Pine Barrens Treefrog (Hyla andersonii) |
| Christie L. Wilcox | Conservation Biology | University of Hawaii at Manoa | Insight into an invastion: phylogeography of lionfishes |

# Grants-in-Aid of Research Awards
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| | | | |
|---|---|---|---|
| Lina M. Arcila Hernandez | Ecology | University of Toronto | Dietary implications of interactions between ants and endosymbionts |
| David W. Armitage | Ecology | University of California-Berkeley | Functional aspects of the inquiline food webs of carnivorous pitcher plants |
| Matthew J. Cashman | Ecology | Fordham University | Biochemical composition of algal periphyton as affected by light and nutrient availability |
| Elise L. Chapman | Ecology | University of Alabama at Tuscaloosa | The relationships between nutrient cycling and ecosystem metabolism in the shoals of the Cahaba River, AL. |
| Tanya E. Cheeke | Ecology | Portland State University | Evaluating the effects of transgenic Bt maize on arbuscular mycorrhizal fungi in the soil ecosystem |
| Grant M. Connette | Ecology | University of Missouri-Columbia | Exploring the consequences of behavior in altered landscapes: linking individual survival and population dynamics |
| Paul A. DeSalles | Ecology | Stanford University | Exploring linkages between terrestrial ecology and behavior of the Giant Manta Ray, Manta birostris, at a remote Pacific atoll |
| Mitchell B. East | Ecology | Missouri State University | DIET OF MACROCHELYS TEMMINCKII AND GRAPTEMYS OUACHITENSIS IN EASTERN OKLAHOMA |
| Katherine Ennis | Ecology | University of Toledo | Drivers of pattern and change: Does one ant species cause shifts in patterns of ant richness? |
| Alexander J. Forde | Ecology | University of Maryland, College Park | Interactive effects of vertebrate top predators and abiotic resources on productivity and community structure in Caribbean mangrove forests |
| Megan L. Fork | Ecology | Florida International University | Direct and Indirect Effects of Organic Matter Sources on Denitrification in Florida Rivers |

# Grants-in-Aid of Research Awards
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| | | | |
|---|---|---|---|
| Victoria A. Gray | Ecology | California State University-Long Beach | Physiological consequences of thermal stress in the rocky intertidal zone on the marine snail, Lottia gigantea |
| Alison N. Hale | Ecology | University of Pittsburgh | Testing the mutualism disruption hypothesis: a physiological mechanism for invasion of intact perennial plant communities |
| Elizabeth Harrison | Ecology | Florida International University | Analyzing the invasion success of Cichlasoma urophthalmus (Mayan cichlid) in south Florida |
| Rebecca Heinig | Ecology | Pennsylvania State University | The Effect of Diurnal Temperature Variation on the Efficacy of Fungal Biopesticides |
| Kristopher J. Hennig | Ecology | University of Mississippi | Examining the effects of genotypic variation upon soil feedbacks within Monterey pine (Pinus radiata) |
| Nicole M. Hergott | Ecology | University of Mississippi | Linking the functional diversity of ectomycorrhizal fungal species to soil carbon dynamics and the genetics of foundational tree species |
| Susan K. King | Ecology | Eastern Kentucky University | Differential fitness and nest site characteristics of four-toed salamanders (Hemidactylium scutatum) in natural and constructed ponds |
| Erica J. Kistner | Ecology | University of Notre Dame | The role of global climate change in entomopathogen regulated rangeland pests: a model system of fungal insect pathogens |
| Michelle D. Laskowski | Ecology | Boise State University | Using Molecular Techniques to Assess Haemosporidian Parasites and their Phylogenetic Relationships in Migrating Raptors |

# Grants-in-Aid of Research Awards
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| | | | |
|---|---|---|---|
| Megan B. Machmuller | Ecology | University of Georgia | The consequences of experimental warming on soil organic matter dynamics along a latitudinal gradient: carbon lost versus carbon retained. |
| Anne A. Madden | Ecology | Tufts University | Location versus host species determinants of fungal communities associated with an invasive paper wasp |
| Rachel D. Mahan | Ecology | University of Georgia | Interactive Effects of Land Use and Climate on Gene Flow |
| Joseph R. Mihaljevic | Ecology | University of Colorado at Boulder | Ecological and evolutionary dynamics of multi-host pathogens: Ranaviruses of amphibians |
| Jessica E. Moody | Ecology | Fordham University | Assessing the conservation and taxonomic status of the Indochinese Silvered Langur in two protected sites in Cambodia |
| Maitreyee Mukherjee | Ecology | Bowling Green State University | IDENTIFICATION AND ENUMERATION OF NITRIFYING ARCHAEA BY FLUORESCENCE IN-SITU HYBRIDIZATION IN LAKE SUPERIOR |
| Katherine J. Papacostas | Ecology | Temple University | Predator Diversity Dampens Invasive-Induced Trophic Cascades in the Subtropical Indian River Lagoon |
| Brian Park | Ecology | University of California-San Diego | Pollination ecology of the honeybee (Apis mellifera) in fragmented habitats |
| Susan B. Parsons | Ecology | Idaho State University | GENE FLOW PATTERNS AND PARENTAGE IN A BURYING BEETLE: USING MOLECULAR GENETICS TO STUDY CRYPTIC BEHAVIORS |
| Michael J. Polito | Ecology | University of North Carolina at Wilmington | Oxidative Stress, Sexual Signals and Life History Trade-Offs in the Gentoo Penguin Pygoscelis papua |
| Ravin Poudel | Ecology | Truman State University | Effects of domestication in the fungal endophytes inhabiting roots of Zea mays. |

# Grants-in-Aid of Research Awards
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| | | | |
|---|---|---|---|
| Jessica M. Rack | Ecology | University of Connecticut | Does predator-prey chemical communication evolve across a geographic landscape? Behavioral responses of the spotted salamander (Ambystoma maculatum) to predators and predatory diet cues from geographically stratified ponds |
| Emily Rose | Ecology | Texas A&M University-College Station | The Effects of Endocrine Disrupting Compounds on Gulf Pipefish |
| Kelly D. Schradin | Ecology | Wright State University | The role of plant-soil feedback in exotic plant invasion: soil type, biotic or abiotic factors? |
| Kristy M. Segal | Ecology | University of Georgia | EFFECTS OF RICE FIELD CULTIVATION ON HEALTH AND COMMUNITY DYNAMICS OF AMPHIBIAN COMMUNITIES WITH A FOCUS ON BUFO MARINUS |
| Heather M. Shaffery | Ecology | University of Pittsburgh | The Role of the Major Histocompatibility Complex in the Mate Choice Decisions of the Wood Frogs (Rana sylvatica) |
| Barbara C. Shock | Ecology | University of Georgia | Field study to identify the vector of a novel Babesia found only in the endangered Florida panther population |
| Ann M. Showalter | Ecology | Miami University Ohio | Effects of nutritional food quality on the growth, behavior, and physiology of an insect that links aquatic and terrestrial food webs |
| Aaron B. Stoler | Ecology | University of Pittsburgh | Leaf litter to the rescue: how forest composition may naturally mitigate sub-lethal impacts of pesticide introduction to wetlands |
| Tatiana Straatmann | Ecology | Instituto Nacional de Pesquisas da Amaz⌠nia | An assessment of site-fidelity among three species of resident understory birds from the central Amazon |

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|---|---|---|---|
| Amber D. Stubler | Ecology | State University of New York at Stony Brook | The impacts of pH and temperature on the growth and bioerosion rate of Cliona sp.; implications for the coral reef ecosystem. |
| Brian M. Thompson | Ecology | University of Maryland, College Park | Testing genomic predictions by quantifying microbial inputs on host nutrition |
| Brett T. Wolfe | Ecology | University of Utah | The determinants of drought response in tropical trees |
| Kyle Wright | Ecology | Fordham University | Terrestrial Birds as Hosts of Ticks and Reservoirs for Diseases |
| Alexandra Wright | Ecology | University of Wisconsin-Milwaukee | The shifting importance of competition vs. facilitation along diversity, environmental severity, and plant ontogenetic gradients. |
| Christine P. Zolnik | Ecology | Fordham University | Influence of host community structure on disease dynamics in blacklegged ticks (Ixodes scapularis) using molecular identification of bloodmeal sources |
| Josephine Bones | Engineering | Montana State University-Bozeman | Determining the effectiveness of explosives for avalanche control: experiential and analytical modeling |
| Salvatore Campione | Engineering | University of California-Irvine | Use of collective resonances in arrays of plasmonic nanospheres with active gain materials for spectroscopy and imaging applications |
| Zi Chen | Engineering | Princeton University | On Rapid Motion of the Venus flytrap: Darwin's ""one of the most wonderful plants in the world"" |
| Kathryn Dorst | Engineering | State University of New York at Stony Brook | Surface-Modified Materials Toward the Improvement of Tissue Engineered Substrates for Bone |

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|---|---|---|---|
| Christopher L. Grigsby | Engineering | Duke University | Oral delivery of the factor VIII gene to hemophilia A rodents with speciality gelatin capsules |
| Jason L. Juhala | Engineering | Washington State University - Vancouver | A Comparative Analysis of Transistors Based on Dielectrophoresis-Aligned Carbon Nanotubes (CNTs) and Self-assembled Random-Network CNTs |
| Riju Singhal | Engineering | Drexel University | Single carbon nanotube based multifunctional devices for intracellular analysis and component separation |
| Shraddha J. Vachhani | Engineering | Drexel University | Establishing the 3-D grain boundary character by serial sectioning using the PoliMat2 by Buehler┬«, GmbH |
| Allen J. Pope | Hydrology/Geomorphology | Cambridge University | Spectral Classification of Glacier Surfaces on Langj÷kull Icecap, Iceland |
| Mark T. Voli | Hydrology/Geomorphology | North Carolina State University | Total Suspended Sediment Source Contributions to a Regionally Important Municipal Drinking Water Source, Falls Lake North Carolina: A Sediment Fingerprinting Approach |
| Jack Hutchings | Paleontology/Sedimentation | University of South Florida | Experimental evaluation of a paleontological proxy used to document long-term adaptive trends |
| Heather N. Johnson | Paleontology/Sedimentation | Sam Houston State University | Impact of Grassland Shifts on Southern Plains Bison Morphology |
| Daniel R. Lawver | Paleontology/Sedimentation | Montana State University-Bozeman | Fossil and modern turtle eggshell: testing the validity of eggshell characters in cladistic analyses |

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| | | | |
|---|---|---|---|
| Aaron D. Sappenfield | Paleontology/Sedimentation | University of California-Riverside | Sequence stratigraphic and ichnologic constraints in the Prospect Mountain Quartzite (western U.S.): Implications for regional and global correlation of the Precambrian-Cambrian transition. |
| Angela C. Cota | Petrology/Geochemistry | Western Washington University | Evidence for Heat Flow Control in Metamorphic Crystallization in the Bugaboo Aureole, British Columbia |
| Jill E. Ghelerter | Petrology/Geochemistry | Georgia State University | Bioremediation of Hydrocarbons in Salt Marsh Sediments Using Clay Minerals |
| Michelle A. Harris | Petrology/Geochemistry | Central Washington University | Documenting Magmatic Processes at Filicudi Island, Aeolian Arc, Italy: Integrating Quantitative Modeling and Plagioclase Textural and In Situ Compositional Data |
| Leslie Keiser | Petrology/Geochemistry | University of Oklahoma | ASSESSING CLIMATE FROM WEATHERING SIGNALS IN MODERN AND ANCIENT GRANITIC-DERIVED FLUVIAL SEDIMENTS |
| Ashley Russell | Petrology/Geochemistry | University of Wisconsin-Madison | Pressure, temperature, time, and fluids metamorphic paths for garnet from eclogite |
| Maya Wildgoose | Petrology/Geochemistry | University of California-Davis | Using 40Ar/39Ar and Lu-Hf isotopic dates to further understand the deformational history of an ancient subduction zone in Alaska |
| Priyanka Bhattacharya | Physics/Astronomy | Clemson University | Investigating the Physico-chemical Properties of a Novel Tris-Dendrimer for Environmental Applications |
| Jean-Rene Gauthier | Physics/Astronomy | University of Chicago | The physical origin of the cool gas detected around massive red galaxies |

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|---|---|---|---|
| David Hendel | Physics/Astronomy | University of North Carolina at Chapel Hill | A Second Generation Image Slicer for the SOAR Telescope |
| Amber N. Marsh | Physics/Astronomy | Lehigh University | The B and Be Star Populations of h and chi Persei |
| Robin S. Petruzielo | Physics/Astronomy | Cornell University | Compositional Heterogeneity and Peptide Partitioning in Models for the Cell Membrane |
| Cody M. Rude | Physics/Astronomy | University of North Dakota | Exploring the Nature of Extended ChaMP Sources |
| Rick Russotto | Physics/Astronomy | Yale University | Arctic Lidar Observations of Atmospheric Aerosols and Cirrus Clouds |
| Eva Wuyts | Physics/Astronomy | University of Chicago | Characterizing gravitationally lensed galaxies at high redshift |
| Christopher B. Yaluma | Physics/Astronomy | Berea College | The Identification of Graphene Layers through Optical Reflectivity |
| Christopher V. Anderson | Physiology/Functional Morphology | University of South Florida | Spring-loaded movements in an ecological context: contrasting thermal effects in chameleons along seasonal temperature gradients |
| Christine N. Bedore | Physiology/Functional Morphology | Florida Atlantic University | Visual temporal resolution in batoid elasmobranchs |
| Deborah J. Bird | Physiology/Functional Morphology | University of California-Los Angeles | Does Cribriform Morphology Predict Olfactory Function |
| Heather M. Bryner | Physiology/Functional Morphology | Miami University Ohio | Immune Regulation of Adult Neurogenesis |
| Abigail A. Curtis | Physiology/Functional Morphology | University of California-Los Angeles | Morphological Variation of Frontal Sinuses in Domestic Dogs (Canis familiaris) |
| Jillian S. Davis | Physiology/Functional Morphology | Ohio University | Feeding Morphology in Frugivorous and Carnivorous Mammals |
| Emily K. Elderbrock | Physiology/Functional Morphology | University of Memphis | Long-term effects of increased corticosterone during development of Florida Scrub-Jays |
| Michael Goblirsch | Physiology/Functional Morphology | University of Minnesota, Twin Cities | The effects of Nosema ceranae infection on honey bee longevity. |

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|---|---|---|---|
| Daniel O. Hassumani | Physiology/Functional Morphology | Portland State University | The CCAAT/enhancer-binding protein δ and its response to hypoxia in the zebrafish, Danio rerio |
| Antony Kaprielian | Physiology/Functional Morphology | University of California-Riverside | Involvement of central PACAP system in cardiovascular and autonomic responses to psychosocial stress |
| Chi-Yun Kuo | Physiology/Functional Morphology | University of Massachusetts Amherst | The role of vertebral morphology in determining the facility of caudal autotomy in lizards |
| Boriana K. Tchernookova | Physiology/Functional Morphology | University of Illinois at Chicago | Testing the proton hypothesis of lateral inhibition in the vertebrate retina |
| Jin Lee | Psychology | University of Oxford | How fast can we see? The development of visual evoked potential latency in human infants to pattern, orientation, and direction selectivity |
| Brendan D. Murray | Psychology | Boston College | The effects of emotion and encoding strategy on associative memory across the lifespan |
| Michael Q. Steinman | Psychology | University of California-Davis | The role of estrogen receptor-alpha and beta in the development of social withdrawal in female California mice |
| Denise Werchan | Psychology | University of Arizona | The Formation of Transitive Inferences and Relational Memories Over Time |
| Kaitlyn M. Werner | Psychology | University of Rochester | The Effect of Autonomy Support on Conscious Thought in Complex Decision Making |
| Salene Wu | Psychology | Ohio State University | Relationship of General and Health-related Anxiety and Worry to Markers of Inflammation in Women with Recurrent Cancer |
| Elizabeth J. Beckman | Systematics/Evolutionary Biology | University of New Mexico | Gene Flow & Phylogenetic History in a Rapid Continental Radiation: the South American Siskins. |

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|---|---|---|---|
| Nicholas Block | Systematics/Evolutionary Biology | University of Chicago | Exploring a novel scenario of cryptic diversity in an endemic Malagasy passerine |
| Serena A. Caplins | Systematics/Evolutionary Biology | Virginia Commonwealth University | Species Delimitation in Ribbon Worms of the Genus Nemertopsis (Nemertea, Hoplonemertea) |
| Gerardo A. Cordero | Systematics/Evolutionary Biology | Iowa State University | Developmental Genetics and the Evolution of Plastral Kinesis in Turtles |
| Jessica DeCandia | Systematics/Evolutionary Biology | Miami University Ohio | Validity of present subspecies classification and degree of genetic differentiation in prairie vole (Microtus ochrogaster) populations. |
| Kathleen G. Ferris | Systematics/Evolutionary Biology | Duke University | The adaptive significance of leaf shape in M. laciniatus |
| Anthony J. Geneva | Systematics/Evolutionary Biology | University of Rochester | Speciation in Bahamian Trunk Anoles |
| Amanda K. Gibson | Systematics/Evolutionary Biology | Indiana University - Bloomington | Does transmission mode influence the evolution of virulence in parasites of terrestrial isopods? |
| Francois D. Gould | Systematics/Evolutionary Biology | Johns Hopkins University School of Medicine | Morphological indicators of locomotor specialization in distal femoral articular surfaces of Paleocene and Eocene Ungulates |
| Sarah M. Hird | Systematics/Evolutionary Biology | Louisiana State University-Baton Rouge | Gut microbiota of parasitic bird hosts |
| Julie A. Lee-Yaw | Systematics/Evolutionary Biology | University of British Columbia | Evaluating selection against hybrids in a natural contact zone between cryptic lineages of the long-toed salamander |
| Jose R. Lopez Arriaza | Systematics/Evolutionary Biology | Colorado State University | Transposable elements and speciation in the plethodon salamander Ensatina eschscholtzii |
| Danielle E. Peters | Systematics/Evolutionary Biology | Marshall University | Characterization of the Hox-12 and Hox-13 gene region in amphibians and reptiles |
| William A. Russey | Systematics/Evolutionary Biology | University of Houston | Quantifying selection by predators on relative wing size |

# Grants-in-Aid of Research Awards
## March 15, 2011 Grant Cycle

Alphabetical by Subject

| | | | |
|---|---|---|---|
| Erin M. Sigel | Systematics/Evolutionary Biology | Duke University | Patterns of Gene Expression in Allotetraploid Ferns of Recurrent and Reciprocal Origins |
| Oscar M. Vargas | Systematics/Evolutionary Biology | University of Texas at Austin | UNRAVELING THE EVOLUTIONARY HISTORY OF HIGH ANDEAN PLANTS: EVOLUTION AND SYSTEMATICS OF THE GENUS DIPLOSTEPHIUM (ASTERACEAE) |
| Maggie R. Wagner | Systematics/Evolutionary Biology | Duke University | Polymorphism and evolutionary dynamics of an ecologically important enzyme |
| Akinobu Watanabe | Systematics/Evolutionary Biology | Florida State University | The Effect of Ontogeny on Phylogenetic Inference: A Case Study Using Extant and Fossil Crocodylia |
| Jennifer Yost | Systematics/Evolutionary Biology | University of California-Santa Cruz | Biochemical adaptation in the Lasthenia californica species complex |
| James Ayrer | Tectonics/Geophysics | University of South Florida | Constraining Active Tectonics and Faulting in Western Armenia using Geophysical and Geomorphological Techniques |
| Meilani Bowman-Kamaha'o | Tectonics/Geophysics | Central Washington University | Extrusion as a mechanism for dome emplacement, Himalayan orogen: 40Ar/39Ar thermochronology studies in Gianbul Dome, NW India |
| Tracy Compton | Tectonics/Geophysics | University of California-Davis | Discovering offset landforms to build a Holocene slip history along the Mojave section of the San Andreas Fault (MSAF) using ground-based LiDAR and virtual-reality visualization. |
| Brian P. Ferwerda | Tectonics/Geophysics | University of South Florida | Pre-magmatic Fold Control of Sill Distribution in the San Rafael Volcanic Field, Utah |

# Grants-in-Aid of Research Awards
## March 15, 2011 Grant Cycle

Alphabetical by Subject

| | | | |
|---|---|---|---|
| Harold E. Johnson | Tectonics/Geophysics | Texas A&M University-College Station | Retrodeformable cross sections for the 3-dimensional structural analysis of the Ouachita orogen, Arkansas |
| Allison L. Teletzke | Tectonics/Geophysics | Lehigh University | HIGH-RESOLUTION FAULT RESTORATION USING ROCK MAGNETIC CYCLOSTRATIGRAPHY IN RED BEDS, PYRENEAN THRUST FRONT, SPAIN |