

Grants-in-Aid of Research Awards
October 15, 2005 Grant Cycle

Alphabetical by Recipient's Name

Grant Recipient	Research Field	Institution	Study Title
BriAnne A. Addison	Ecology	University of Missouri-St. Louis	Niche Partitioning by Fox and Song Sparrows: a Stable Isotopes Approach
Ezgi Akpınar	Hydrology/Geomorphology	University of Cincinnati	The Greek and Roman Settlement Patterns in the Ancient Province of Cilicia, and Their Impact on the Environment.
Marta P. Alfonso	Anthropology	State University of New York at Binghamton	Analysis of Harris Lies in Relation to Non-linear, Saltatory, Growth Patterns
Abbas A. Alibhoy	Behavioral Ecology	Elizabethtown College	Determining the Distribution of <i>Erwinia amylovora</i> in Soil in Relation to Fire Blight Infections in an Apple Orchard.
Holly Alpert	Ecology	University of California-Santa Cruz	Altered Precipitation and Shifting Ecotones in the Eastern Sierra Nevada, California
William H. Amidon	Hydrology/Geomorphology	California Institute of Technology	Production Rates of Cosmogenic ³ He at High Elevation
Najin S. Aryan	Physics/Astronomy	University of Colorado at Denver	Optical Analysis of Active Galactic Nuclei
Jaya Badhwar	Chemistry	Saint Louis University	Thermodynamics of RNA Oligonucleotides Containing 1 x 2 Internal Loops
Paromita Banerjee	Cell Biology/Biochemistry	Miami University Ohio	Role of KH RNA Binding Domains of Fragile X Protein in Regulating Protein Synthesis.
Jodi A. Barnes	Anthropology	American University	Examining the Landscape of the Fields of Everyday Life: The Historical Archaeology of Tenancy in Appalachia, 1850-192
Caitlín E. Barrett	Anthropology	Yale University	Archaeological and Technological Analysis of Egyptianizing Terracottas on Delos
Lindy M. Barrow	Conservation Biology	University of Florida	Capital vs. Income: Reproductive strategies of the Leatherback Sea Turtle (<i>Dermochelys coriacea</i>)

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Moni C. Berg	Systematics/Evolutionary Biology	University of Illinois at Urbana-Champaign	Somatic Mutations in Plants
Claire N. Berger	Ecology	Duke University	The Examination of Imperiled Coastal Plain Ponds across Martha's Vineyard: Spanning Temporal and Spatial Scales to Isolate Mechanisms of Community Dynamics
Philip J. Bergmann	Systematics/Evolutionary Biology	Tulane University	Functional Implications of the Evolution of Body Shortening and Limb Elongation
Michael J. Birnkrant	Engineering	Drexel University	Top-down Meets Bottom-up: Block Copolymer Bragg Reflectors
Jessica L. Blois	Ecology	Stanford University	Small Mammal Response to the Late Pleistocene Environmental Perturbation: The Role of the Survivors
Yelena Bogdanova	Psychology	Boston University	Number Processing in Parkinson Disease: Impact of Visual and Visuospatial Dysfunction.
Catherine P. Bollinger	Ecology	Western Washington University	Assessing Genetic Changes in Mayflies Exposed in situ to Heavy Metals
Anne H. Bothmer	Physics/Astronomy	Worcester Polytechnic Institute	Photo-Induced Nanophase Segregation in Dye-Doped Liquid Crystals
April M. Brennan	Physiology/Functional Morphology	University of Alaska Anchorage	Regulating Intake of Energy: Abundance of Glucose Transporters in the Small Intestine of the Red-backed Vole, <i>Clethrionomys rutilus</i>
Jamie A. Brown	Chemistry	Eastern Michigan University	Characterizing Organic Binders in Rock Paintings for Radiocarbon Analysis
Zachary W. Brown	Cell Biology/Biochemistry	Kansas State University	Albumin Flux Through Lens Epithelial Cell Monolayer- a Transwell Study
Benjamin T. Brown	Systematics/Evolutionary Biology	Williams College	Testing Ongoing Balancing Selection at the Human ALDH2 Locus through Sequence Based Analysis

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Leone M. Brown	Ecology	State University of New York at Stony Brook	Pre-migration body condition of a Neotropical migrant in undisturbed and disturbed wintering habitats
Amanda J. Bruesch	Cell Biology/Biochemistry	Boise State University	Retinal Pigment Epithelial Tumors: An in vivo Role for Oncostatin M in Tumor Progression
Jeffrey P. Bruesewitz	Petrology/Geochemistry	University of Wisconsin-Milwaukee	Mafic Enclaves in the Cary Mound Granite, Central Wisconsin: Evidence for magma mixing?
Sarah Bryson	Ecology	University of California-Los Angeles	The Effects of an Epiphytic Bryozoan on Kelp Herbivores
Elizabeth S. Bryson	Ecology	Northeastern University	Latitudinal Variation in the Role of Temperature Stress on Rocky Intertidal Community Dynamics in the Gulf of Maine
Dylan O. Burge	Systematics/Evolutionary Biology	Duke University	Fungal Host Specificity in Myco-heterotrophic Gentianaceae
Curtis W. Burney	Systematics/Evolutionary Biology	Louisiana State University-Baton Rouge	Testing Divergence Hypotheses Across the Andes and the Amazon River: a Comparative Phylogeographic Analysis of South American Avifauna
Karen M. Bussard	Cell Biology/Biochemistry	Pennsylvania State University	The Role of Osteoblast-Derived Inflammatory Chemokine SDF-1 in Bone Metastatic Breast Cancer
Charles B. Caston	Ecology	Texas State University-San Marcos	Spatial and Temporal Variation in Relationships Between Macroinvertebrate Distributions and Hydraulic Conditions
Yi Chen	Engineering	State University of New York at Stony Brook	Defect Studies of Liquid Phase Epitaxy and Chemical Vapor Deposition Silicon Carbide Films
Cory K. Chen	Psychology	University of North Carolina at Chapel Hill	The Relationship Between Attachment and Expressed Emotion Among Caregivers of Individuals with Dementia

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October 15, 2005 Grant Cycle

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Ranida Chomsung	Physiology/Functional Morphology	University of Louisville	Synaptic organization of pathways that connect the superior colliculus, pulvinar nucleus and temporal cortex in the tree shrew
Martha E. Christiansen	Chemistry	Saint Louis University	A Thermodynamic Study of Naturally Occurring 2x2 RNA Loops
Sara L. Chun	Ecology	Duke University	Fruiting output of isolated <i>Dipteryx panamensis</i> trees within Costa Rica's San Juan-La Selva Biological Corridor
Catherine A. Cooke	Anthropology	Ohio State University	The foraging behavior of <i>Cercocebus torquatus</i> in Sette Cama, Gabon
Timothy J. Cooney	Ecology	James Madison University	Effects of organic matter quality and invertebrate grazing on microbial communities in cave streams
Kendra G. Coonse	Cell Biology/Biochemistry	Albertson College	The Effect of Cadmium on Runx2 mRNA Expression in a Human Osteoblast-like Cell Line Saos-2
Meggan E. Craft	Ecology	University of Minnesota, Twin Cities	Viral Transmission Dynamics among Serengeti Carnivores
DeeAnn K. Cranston	Cell Biology/Biochemistry	University of California-Santa Barbara	Molecular Mechanisms of the Microtubule-associated Protein Tau as well as Amyloid-beta Induced Effects on Tau
Kelsey J. Dahl	Ecology	University of Minnesota, Twin Cities	Fluctuating asymmetry and morphometrics in Minnesota's Eastern cottontail rabbit, <i>Sylvilagus floridanus</i>
Elizabeth A. Dame	Conservation Biology	University of Cincinnati	Restoring populations of <i>D. antillarum</i> to the reefs of Curacao
Timothy M. Davidson	Ecology	University of Oregon	Density and substrate preference of the introduced bioeroder, <i>Sphaeroma quoianum</i> , in Coos Bay, Oregon.
Markus Dieser	Ecology	Montana State University-Bozeman	Microbial Diversity and Metabolic Activity in an Antarctic Coastal Lake

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October 15, 2005 Grant Cycle

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Alexander J. Diesl	Computer Science/Mathematics	University of California-Berkeley	Unifying the Theories of Exchange Rings and Quasi-Frobenius Rings
Kimberly A. Dingess	Anthropology	Indiana University - Bloomington	Monogamy and Territoriality in the Bolivian Gray Titi Monkey, <i>Callicebus donacophilus</i>
Tracy L. Dolan	Behavioral Ecology	California State University-Long Beach	How do Birds See the World? Effects of Visual Perception on Acquiring Information About Predation
Sarah A. Eisenstein	Psychology	University of Georgia	Monoacylglycerol lipase: a Possible Target for Enhancement of Stress-induced Analgesia Mediated by the Endocannabinoid 2-Arachidonoylglycerol
Kristen J. Epp	Behavioral Ecology	Texas State University-San Marcos	Predator Recognition in <i>Eurycea nana</i> : Learned or Inherited?
Vivian R. Ericson	Cell Biology/Biochemistry	University of California-Santa Barbara	Investigation of Fibulin 5 as a Retinal Extracellular Matrix Organizer
Alejandra A. Estrin Dashe	Anthropology	University of Wisconsin-Milwaukee	Madres Mexicanas de Milwaukee: Stress and the Social Support of Women
Tyesha L. Farmer	Cell Biology/Biochemistry	University of Alabama at Birmingham	Comparison and Characterization of Chromosomal Aberrations in Early Onset Breast Cancer Tumors of Alabama African-American and Caucasian Women
Robin N. Feeney	Anthropology	Ohio State University	Sexual Dimorphism in Human Enamel and Dentin: Evolutionary Implications and Forensic Applications
Kevin Fiest	Physics/Astronomy	University of North Carolina - Chapel Hill	The development of the ASTRIX software suite
Matthew C. Fleenor	Physics/Astronomy	University of North Carolina at Chapel Hill	Galaxy Clusters and the Filamentary Network Within Superclusters
Thomas R. Fleming	Computer Science/Mathematics	University of California-Berkeley	Virtual Spatial Graph Theory

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October 15, 2005 Grant Cycle

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Kimberly A. Franklin	Ecology	University of Arizona	Diversity and Succession of Ant Communities in Sonora, Mexico after Land Conversion to Exotic Grass Pasture
Helen R. Freyberger	Cell Biology/Biochemistry	Pennsylvania State University	A Role for DKK-1 in Osteolytic Breast Cancer Metastasis
Nicholas R. Friedman	Systematics/Evolutionary Biology	St. Mary's College of Maryland	Reconstructing Vocal Evolution in Orioles (Icterus)
Bayron M. Gómez Gómez	Paleontology/Sedimentation	Universidad de Antioquia	Revision of the Molar Fossil Record and the Distribution of the Mastodons (Proboscidea: Gomphotheriidae) from the Colombian Quaternary
Michael S. Gaffrey	Psychology	University of Wisconsin-Milwaukee	Early Autism Phenotype: Head Circumference Growth and Emerging Executive Functioning
William A. Gaines	Cell Biology/Biochemistry	Clemson University	Spidroin-Intein-CBD Constructs for Production and Purification of Spidroins from Plant Bioreactors
Efrat Gavish	Ecology	Ben-Gurion University of the Negev	The Role of Spider Functional Groups in Suppressing Insect Pests in Arid Agroecosystems
Joseph P. Gerdt	Chemistry	University of Illinois at Urbana-Champaign	Controlling Macromolecular RNA Structure with DNA Constraints
Jennifer H. Gillespie	Ecology	University of Texas at Austin	A Novel Tool for Studying Interspecific Trophic Interactions: Use of Stable Isotopes to Investigate Feeding Ecology in the Endangered Barton Springs Salamander (<i>Eurycea sosorum</i>)
Anna Goldina	Behavioral Ecology	Florida International University	Endocrine and Social Consequences of Eavesdropping Among Electric Fis
Shannon L. Gourley	Psychology	Yale University	Long-lasting Modulation of Mesolimbic Dopamine Systems After Prior Chronic Corticosterone: Relevance to Depression

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October 15, 2005 Grant Cycle

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Tony Grace	Systematics/Evolutionary Biology	Kansas State University	Molecular Population Genetics and Breeding Structure of the Indianmeal moth, <i>Plodia interpunctell</i>
Alison P. Grand	Psychology	University of Georgia	Long-term Consequences of Maternal Maltreatment on Fear Behavior and HPA Reactivity in Juvenile Rhesus Macaques
Jia Guo	Cell Biology/Biochemistry	University of Southern Mississippi	Comparison of Beta-2-Microglobulin with CEA, CA15-3, CA27.29, CA549, and AFP for the Serodiagnosis of Breast Cancer
Tannia Gutierrez	Psychology	University of Georgia	Cannabinoid Drug Self-administration in Animal Model of Neuropathic Pain
Vanessa A. Guzman	Chemistry	Stanford University	Synthesis of Photoactivatable Amino Acids for Use in Protein-Protein Interaction Assays
Celia N. Hagan	Conservation Biology	Whitman College	Species Status and Genetic Variation in an Endemic Fish, <i>Cottus marginatus</i>
Jennifer A. Hancock	Physiology/Functional Morphology	Ohio University	The Evolutionary History of Foveation in Birds
Kristin M. Hardy	Physiology/Functional Morphology	University of North Carolina at Wilmington	The Effects of Cell Size on the Post-Contractile Depletion of Glycogen and Recovery of Arginine Phosphate in the Blue Crab, <i>Callinectes sapidus</i> : Measured and Modeled
Allison C. Hargett	Behavioral Ecology	University of Nevada, Reno	Do Hormones Affect Dominance Relationships in an Asocial Species, Merriam's Kangaroo Rat?
Cris D. Hein	Conservation Biology	University of Georgia	Winter Roost-site Selection of Seminole Bats in an Intensively-managed Forest in the Lower Coastal Plain of South Carolina
Houri Hintiryan	Psychology	University of Southern California	The Pontine Lateral Parabrachial Nucleus and Estrogen-induced Anorexia

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October 15, 2005 Grant Cycle

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Aaron C. Hirsch	Tectonics/Geophysics	University of Nevada-Las Vegas	An Integrated Geophysical Study of Hidden Valley, Central McCullough Range, NV: Characterization of a Volcanotectonic Terrain
Christopher S. Holm	Tectonics/Geophysics	Florida State University	Characterization of the Most Inboard Paleozoic Accreted Terranes of the Southernmost Appalachian Blue Ridge: Georgia and Alabama Appalachians
Avram J. Holmes	Psychology	Harvard University	Task Adjustment and Feedback Related Processing in Major Depressive Disorder
Angela M. Horner	Physiology/Functional Morphology	Ohio University	Fossorial Locomotion in a Fossorial Specialist: the Kinematics and Kinetics of the Ferret (<i>Mustela putorius furo</i>)
Matthew R. Hrabak	Physiology/Functional Morphology	James Madison University	Tail Function in <i>Propithecus verreauxi</i> During Terrestrial Bipedalism
Marcos Huerta	Physics/Astronomy	Rice University	Young Stars and the Brown Dwarf Desert
Reynier D. Jacinto	Physiology/Functional Morphology	University of California-Irvine	Keeping an Open Mind, Investigating Poacher Functional Morphology
Xinli Ji	Ecology	Huazhong Agricultural University	Food Quality Effects on Zooplankton Growth and Population Competition
Sheri L. Johnson	Systematics/Evolutionary Biology	University of Maine, Orono	Cell lineage Competition in the Colonial Ascidian, <i>Botryllus schlosseri</i> , as Influenced by Variation in Life History Traits
Edward A. Jolie	Anthropology	University of New Mexico	A Perishable Perspective on Cultural Diversity in Chaco Canyon, New Mexico: An Examination of Chacoan Basketry
Cara J. Joos	Ecology	New Mexico State University	Are Shrub Encroached Grasslands Sub-optimal Habitat for Wintering Sage Sparrows (<i>Amphispiza belli</i>)?

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October 15, 2005 Grant Cycle

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Kristin A. Juhasz	Anthropology	Indiana University of Pennsylvania	How Effective and Accurate are Healthcare Messages in the Eastern Rural Cape?
Aurora K. Kagawa-Viviani	Ecology	University of Hawaii at Manoa	Transpiration From Tree to Stand: Do Invasive Species Matter?
Mark A. Kahrhoff	Physiology/Functional Morphology	University of Missouri-St. Louis	Holographic Interferometric Analysis: A Novel Technique for Measuring the Deformation Characteristics of the Aging Human Lens
Walid S. Kamoun	Physiology/Functional Morphology	University of North Carolina at Charlotte	Endothelin-1 and Hepatocellular Carcinoma Blood Flow Regulation
Sivakumar Kandasami	Engineering	University of Dundee	Investigation of Carbonation Resistance and Chloride Ingress in Sustainable New Generation Concretes
Vinay A. Kapoor	Ecology	Cornell University	The effect of artificial ambient noise on song and reproduction in the nightingale.
Saradasri R. Karri	Chemistry	Saint Louis University	Thermodynamics of RNA Oligomers Containing 1x2 Internal Loops
Elizabeth A. Kelley	Anthropology	Washington University in St. Louis	A Pre-Dissertation Survey of Lemur catta, Ring-tailed Lemurs, at Cap Sainte-Marie Special Reserve, Madagascar
Joanna L. Kelley	Systematics/Evolutionary Biology	University of Washington	Evolutionary Analysis of Enamelin in Worldwide Human Populations
Ailsa P. Kerswell	Ecology	James Cook University	Transitions from Coral to Algal Dominated Reefs: Nature, Scale and Competition Along the East Coast of Australia
Irene S. Khavin	Ecology	University of Kansas	Stoichiometry of Conocephalus Grasshoppers in Response to Grassland Fertilization
Shelby B. Kimmel	Physics/Astronomy	Williams College	High Frequency Oscillations in the Solar Corona
Seth M. Klein	Computer Science/Mathematics	University of Louisville	Coverage Modeling in Mobile Robot Sensing and Surveillance Networks

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October 15, 2005 Grant Cycle

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Jeffrey A. Klomp	Conservation Biology	Central Michigan University	A Population Genetic Analysis of the Northern River Otter (<i>Lontra canadensis</i>) in the State of Oregon
Page E. Klug	Ecology	Kansas State University	Interactions Between Grassland Birds and their Snake Predators: the Potential for Conservation Benefits or Conflicts in the Tallgrass Prairie
Dorothea L. Koh	Chemistry	Northwestern University	Enhancing DNA Detection: Small Molecule DNA Hybrids
Dylan M. Kollman	Psychology	Boston University	The Construct Validity of Acceptance: A Multitrait, Multimethod Investigation
Marisa L. Korody	Behavioral Ecology	Indiana State University	Parent-offspring Conflict and Sibling Rivalry in a Polymorphic Passerine the White-throated Sparrow (<i>Zonotrichia albicollis</i>)
Krushnamegh J. Kunte	Systematics/Evolutionary Biology	University of Texas at Austin	Evolution of Sexual Dimorphism and Sex-limited Mimicry in <i>Papilio Swallowtail</i> Butterflies
Richard K. Kutschera	Psychology	Ramapo College of New Jersey	Do Hands Free Cellphone Conversations Degrade Driving Proficiency?
Kideok Kwon	Petrology/Geochemistry	Pennsylvania State University	Thermal Effect on the Coordination of Cu(II) in Smectite: Electron Paramagnetic Resonance (EPR) and Density Function Theory (DFT) Calculation Study
Norberto D. Lanzillotti Kimura	Physics/Astronomy	Universidad Nacional de Cuyo	Phonon Engineering with THz Acoustic Nanocavities
Kate C. Larson	Physics/Astronomy	University of Massachusetts Dartmouth	TiO ₂ Coatings for Dye-Sensitized Solar Cells
Joseph A. Letizia	Chemistry	Northwestern University	Effect of Molecular Weight and Polydispersity on Electron Mobility in Phenacyl-Polythiophene Derivatives: Understanding the Relationship Between Reaction Conditions and Electrical Properties

Grants-in-Aid of Research Awards
October 15, 2005 Grant Cycle

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Elizabeth J. Liggins	Systematics/Evolutionary Biology	Victoria University of Wellington	The Phylogeography of New Zealand: a General Insight Using the Common Skink (<i>Oligosoma nigriplantare</i>)
Heather C. Lis	Ecology	University of Massachusetts Boston	Effects of Warming and Increased Precipitation on Plant and Nutrient Dynamics of New England Salt Marshes
Jacqueline J. Lis	Engineering	Saint Louis University	Developing Novel Materials for Nerve Regeneration: Determination of Factors Important for Nerve Growth
Andrea P. Loayza	Ecology	University of Missouri-St. Louis	The Role of Avian Seed Dispersers on Recruitment Probabilities of <i>Guettarda viburnoides</i> (Rubiaceae) in a Naturally Fragmented Landscape
Clayton W. Loehn	Petrology/Geochemistry	Virginia Polytechnic Institute and State University	Nanoscale Characterization of Polyphase Monazite Compositional Domains with High Resolution Transmission Electron Microscopy
Dagan A. Loisel	Systematics/Evolutionary Biology	Duke University	Segregating Functional Variation in Wild Baboons: Promoter Polymorphism of the Immune Gene, DQA1, Drives Differential Gene Expression
Meepe A. Lokuge	Cell Biology/Biochemistry	Miami University Ohio	Dehydrin Protein Expression and Cold Tolerance in Needle Palm (<i>Rhapidophyllum hystrix</i> - Family, <i>Arecaceae</i>)
Henry M. Loope	Hydrology/Geomorphology	University of Toledo	Deglacial Chronology and Till Geochemistry of Northwest Ontario
Jin Ma	Cell Biology/Biochemistry	Eastern Illinois University	Molecular Analysis of Hepatic Gene Silencing
Kelly A. Marsack	Conservation Biology	Central Michigan University	Effects of Habitat Fragmentation on the Eastern Box Turtle (<i>Terrapene c. carolina</i>)
Vittoria G. Marzot	Behavioral Ecology	Boise State University	Early Dietary Stress, Body Condition, and Mate Choice in Captive American Kestrels (<i>Falco sparverius</i>)

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Matthew D. Mastropaolo	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	Role of Escherichia coli Cytochrome Oxidases in Providing Synergy to Anaerobes During Polymicrobial Infections
Brent Matteson	Chemistry	Oregon State University	Speciation of Uranium and Other Actinides in Extraction Systems
Heather Maughan	Systematics/Evolutionary Biology	University of Arizona	The Influence of Complexity on Genomic Change During Evolution II. Verification of Microarray Results
Kristin M. McCurdy	Tectonics/Geophysics	Bates College	Thermal History of the Appalachian Mountain Belt: Exhumation and Tectonic Events in Maine
Joshua C. McKinnon	Cell Biology/Biochemistry	Campbell University	Analysis of Interactions between Podocin, Nephrin, and the Cytoskeleton by Using RNAi to Block Nephrin Synthesis in a Podocyte Cell Line
Cameron L. McNeil	Anthropology	The Graduate Center, The City University of New York	Investigating the Classic Maya Collapse at Copan, Honduras
Amy L. Mertl	Ecology	Boston University	Causes and Ecological Correlates of Abundance in a Community of Tropical Ground-Foraging Ants (Genus: Pheidole)
Cindy A. Miller	Psychology	Wichita State University	Documenting Age-Related changes in Cognitive and Sensory Function Among General Aviation Pilots
Ewa S. Mroczek	Cell Biology/Biochemistry	Utica College	The Effects of Sphinganine on Biofilm Formation in Candida albicans
Nandita Mullapudi	Cell Biology/Biochemistry	University of Georgia	Gene Regulation in Toxoplasma gondii: From Computer to Bench
Amanda Nicodemus	Behavioral Ecology	Villanova University	Does Social Dominance Effect Patterns of Hybridization in Chickadees?

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October 15, 2005 Grant Cycle**

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Zia Nisani	Behavioral Ecology	Loma Linda University	The Tale of One Scorpion and its Two Venoms: Use and Regeneration of Prevenom and Venom by the Scorpion, <i>Parabuthus transvaalicus</i>
Katharine M. Nolan	Ecology	Bates College	Implications for Climate Change Based on the Growth Rates of Modern and Fossilized <i>Hiatella arctica</i> from Svalbard
Bukola Ojo	Cell Biology/Biochemistry	Widener University	Serum Amyloid P Component Mediator in the Atrazine Induced Immunosuppression of <i>Rana Pipiens</i> ?
Suzanne M. Opalka	Petrology/Geochemistry	Hobart and William Smith Colleges	Evaluating Bedrock Arsenic Sources near Hollis, NH
Craig B. Opper	Ecology	University of Central Arkansas	Trenching Behavior of <i>Enigmogramma basigera</i> on <i>Lobelia Cardinalis</i> (Campanulaceae): Quantifying Trans-trench Alkaloid Exposure Utilizing Microwave Facilitated Extraction
Luis Ortiz-Catedral	Behavioral Ecology	Massey University	Reproductive Biology of the Red-crowned Parakeet (<i>Cyanoramphus novaezelandiae</i>): Hatching Asynchrony, Sex Ratios and Reproductive Output
Stesha A. Pasachnik	Conservation Biology	Earlham College	Molecular Investigation of the Iguanids of Nuclear Central America: Insights into Conservation, Diversity and Management
Kendra L. Phelps	Ecology	Oklahoma State University	Population Dynamics and Community Structure of Small Mammals Inhabiting Tar Creek Superfund Site, Oklahoma
Robert A. Ramsey	Physics/Astronomy	University of Texas at Arlington	Electrically Switchable Active Photonic Bandgap Materials Formed via Holographic Photopolymerization
David J. Ramsey	Cell Biology/Biochemistry	University of Illinois at Chicago	The Molecular Basis for Visual Dysfunction in the GABA Signaling Pathway in Diabete

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October 15, 2005 Grant Cycle

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April M. Randle	Systematics/Evolutionary Biology	University of Pittsburgh	The Evolution of Reproductive Barriers Among Species within the Tribe Collinsieae
Megan M. Rashid	Psychology	University of Florida	Priming Effects of Reading Misspellings While Reading for Comprehension Versus Reading for Misspellings
Dawn M. Reding	Conservation Biology	University of Hawaii at Manoa	Historical and Current Genetic Diversity and Structure in the Endangered Hawaii Akepa (<i>Loxops coccineus</i>)
Hannah T. Reynolds	Ecology	Duke University	Investigating the Life History of a Sooty Mold, <i>Scorias spongiosa</i>
Margaret G. Rheude	Ecology	University of Arizona	Are Urban Areas a Genetic Sink for Dispersing Mesocarnivores?
Jessica L. Richardson	Cell Biology/Biochemistry	University of California-Los Angeles	Structural Differences between Eukaryotic and Prokaryotic Voltage Dependent K ⁺ Channels
Ashley R. Richmond	Behavioral Ecology	Miami University Ohio	The Relationship of Polymorphism of the avpr1a Microsatellite and Indicators of Monogamy in the Male Prairie Vole (<i>Microtus ochrogaster</i>)
Rodrigo Rios	Ecology	Saint Louis University	Interaction Between <i>Attalea</i> Palms and Burchid Beetles: Geographic Variation in Reciprocal Selection
John D. Risetto	Anthropology	University of New Mexico	Redefining Late Pleistocene-Early Holocene Hunter-Gatherer Social Interaction in Northern Spain Through the Geochemical Sourcing of Chert Artifacts
Andre J. Riveros	Physiology/Functional Morphology	University of Arizona	Correlations Between Brain Anatomy and Complex Behavior in Bumblebees
Lauren E. Robinson	Tectonics/Geophysics	Baylor University	Using New Methods to find Unmapped Seismogenic Potentially Active Faults, Santa Monica Mountains, Southern California

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Pooja R. Rohatgi	Cell Biology/Biochemistry	Rice University	Investigation of Post-translational Stress-induced Modification of DinB in Stationary-phase Mutagenesis
Benjamin H. Rossi	Behavioral Ecology	University of California-Los Angeles	Sexual Coercion and Male Mate Choice in the Alfalfa Leafcutting Bee
Volker H. Rudolf	Ecology	University of Virginia	The Impact of Cannibalism on Food Web Structure and Dynamics
Sean Saladin	Physics/Astronomy	Unknown Institution	Gas-assisted Capture of Earth-like Satellites by Migrating Exosolar Planets
Navid B. Saleh	Engineering	Carnegie Mellon University	Target Delivery of Polymer-modified Nanoiron to Subsurface NAPL Contaminants
Carl F. Salk	Ecology	Duke University	Do Tree Seedlings Phenologically Avoid Overstory Shading in Seasonal Tropical Climates?
Heather L. Sanders	Systematics/Evolutionary Biology	Ohio University	A Genetic Approach to the Evolution of Plant Form
Sarah A. Sebring	Cell Biology/Biochemistry	Virginia Polytechnic Institute and State University	Inhibitor Binding Sites on the Eg5 Mitotic Kinesin
Arunima Sengupta	Physiology/Functional Morphology	Miami University Ohio	Roles of the Na,K-ATPase, the Na/H Exchanger, pH, and Protein Kinase A in Sperm Motility
Sweta Shah	Physics/Astronomy	Ithaca College	Telescopic Observations of Asteroids
Olga Shcheslavskaya	Psychology	University of Wisconsin-Milwaukee	Individual Differences in the Physiology of Human Stress Responding: A Clarification of Hardiness Effect on Health
Mohamed Ashraf A. Sheik Nainar	Engineering	North Carolina State University	Situation Awareness and Gait Control in Mixed Cognitive and Physical Task Performance under Perturbations
Laurie A. Shuman	Cell Biology/Biochemistry	Pennsylvania State University	Mechanisms By Which Bone Metastatic Breast Cancer Cells Inhibit Osteoblast Differentiation

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October 15, 2005 Grant Cycle

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Tatiana Y. Shvareva	Chemistry	Auburn University	Development of Novel Uranium-Based Materials for Selective Ion Exchange Applications
Pia Simonetti	Behavioral Ecology	Universidad de Buenos Aires	Paternity and Male Parental Care in a Neotropical Swallow
Sheldon A. Skaggs	Anthropology	University of Georgia	An Isotopic Study of the Provenance of Defixiones from Carthage
Graham J. Slater	Systematics/Evolutionary Biology	University of California-Los Angeles	Morphologic Evolution and Biomechanics of the Skull of Machairodontine Saber-Toothed Felids
Emilie C. Snell-Rood	Systematics/Evolutionary Biology	University of Arizona	Coevolution of Plasticity and Life History Mediated by Developmental Cost
Ignacio M. Soto	Ecology	Universidad de Buenos Aires	The Role of Cacti in Maintaining Arthropod Biodiversity
Lesley A. Spokas	Engineering	University of Massachusetts Amherst	Evaluation, Calibration, and Verification of a Compartmental Simulation Model for Top Loading Vertical Flow Submerged Bed Artificial Wetland Treatment Systems.
ShashiKanth M. Sriram	Cell Biology/Biochemistry	Louisiana Tech University	Affinity Based Proteomic Approach to Identify Recognition E3 Components of the Ubiquitin-Dependent N-End Rule Pathway
Jason R. Stephenson	Cell Biology/Biochemistry	Illinois State University	Use of Site-Directed Mutagenesis to Determine Role of Conserved Amino Acids in Substrate Binding and Catalysis of Coproporphyrinogen Oxidase
Dustin E. Sweet	Paleontology/Sedimentation	University of Oklahoma	Searching for Ice in the Ancestral Rocky Mountains: A Sedimentological and Geochemical Investigation
Adam D. Swick	Cell Biology/Biochemistry	Middlebury College	Investigation of Dlg/SloR Metalloregulation of the Oxidative Stress Response in Streptococcus Mutans

Grants-in-Aid of Research Awards
October 15, 2005 Grant Cycle

Alphabetical by Recipient's Name

Grant Recipient	Research Field	Institution	Study Title
Melissa C. Tallman	Anthropology	Lehman College of The City University of New York	Postcranial Variation in Plio-Pleistocene Hominins of Africa
Lisa Taylor	Behavioral Ecology	Arizona State University	Color as an Indicator of Mate Quality in Jumping Spiders (Family Salticidae)
Jacob S. Thompson	Ecology	Georgia Southern University	The Impacts of White-tailed Deer Herbivory and <i>Lonicera japonica</i> on Spring Ephemeral Communities in Southern Deciduous Forests
Matthew B. Toomey	Behavioral Ecology	Arizona State University	Bird's Eye View: Quantifying Individual Variation in the Biochemistry of Avian Vision
Paula A. Trillo	Behavioral Ecology	University of Montana	The Evolution of Primary and Secondary Sexual Characters in the Tortoise Beetle <i>Acromis sparsa</i> (Chrysomelidae: Coleoptera)
Erin A. Tripp	Systematics/Evolutionary Biology	Duke University	Patterns of reproductive isolation across multiple sister taxon pairs in <i>Ruellia</i> (Acanthaceae)
Yasemin I. Tulu	Paleontology/Sedimentation	Michigan State University	A Faunal Investigation of the late Cretaceous Shark Fauna From the Judith River Formation (Campanian), Fergus County, Montana
Amy S. Turmelle	Ecology	University of Tennessee	Immunology and epidemiology in the Brazilian Free-Tail Bat (<i>Tadarida brasiliensis</i>)
Karin E. Ulstrup	Ecology	University of Technology, Sydney	Functional and Genetic Complexities of Coral Bleaching at Multiple Scales
Kim L. Valenta	Ecology	University of Calgary	Measuring the Germination Potential of Capuchin-dispersed Seeds
Sarah M. Veeder	Psychology	Saint Bonaventure University	The Effect of Estrogen and Progesterone on an Animal Model of Depression
Anna J. Versluis	Conservation Biology	Clark University	Remote Detection of Forest Loss and Modification Using a Combined Multiple Endmember Spectral Analysis and Classification Trees

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Laura S. Vogel	Conservation Biology	University of New Orleans	Impacts of Habitat Degradation and Expansion of an Invasive Congeneric on the Decline of Fowler's Toad (<i>Bufo fowleri</i>) in Southeastern Louisiana
Edward Vul	Psychology	Massachusetts Institute of Technology	From Retina to Awareness: Tracking the Stages of Processing in the Visual System
Jonathan J. Wagner	Conservation Biology	University of Minnesota, Twin Cities	Changes in Fish Community Composition in the Punta Leona Biological Reserve (Gulf of Nicoya, Costa Rica) Over a Decade of Intensified Exploitation
Kyle M. Walker	Physics/Astronomy	University of Toledo	Probing Lithium Production from the Earliest Moments to the Present
Matthew C. Warwick	Anthropology	University of Wisconsin-Milwaukee	Zooarchaeology of the Pukara Polity: Subsistence, Economy, and Sociopolitical Development in the Northern Lake Titicaca Basin
Gregory A. Wassel	Physics/Astronomy	University of Georgia	Convective Snowfall Events and Their Signatures on Radar from 1961-2002 in the Contiguous United States
Allison V. Watts	Ecology	James Madison University	A Study of Population Structure of Mottled Sculpin, <i>Cottus bairdi</i> , in a Heavily Agricultural Stream in Rockingham County, Virginia
Michael F. Westphal	Systematics/Evolutionary Biology	Oregon State University	The Evolution of Bright Coloration in Garter Snakes
Ashley A. Wick	Ecology	Drake University	Assessing Relative Importance of Soil Nutrient Stocks and Carbon Ammendment on Germentation Rates: tests on Prairie Plants in Iowa
Margaret C. Will	Systematics/Evolutionary Biology	University of Canterbury	Variation of Gamete Recognition Proteins (VERL and lysin) in New Zealand abalone (<i>Haliotis</i> spp.)

Grants-in-Aid of Research Awards
October 15, 2005 Grant Cycle

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Amanda J. Williams	Ecology	University of Southern Mississippi	The Influence of Testosterone and Migration on the Relapse of Plasmodium Relictum in Experimentally Infected Gray Catbirds (<i>Dumetella carolinensis</i>)
Christopher T. Winne	Ecology	University of Georgia	Adaptive Plasticity in the Reproductive Strategy of a Snake: Can Prolonged Increased Prey Abundance Induce a Switch from Income to Capital Breeding?
Robert A. Wittenmyer	Physics/Astronomy	University of Texas at Austin	Narrow-band observations of the solar corona during the total eclipse of 2006 March 29
Yul W. Yang	Cell Biology/Biochemistry	Yale University	Antiviral Adaptor: Construction of Zero Fitness Sinks against the Human Immunodeficiency Virus (HIV)
Christopher W. Yee	Physiology/Functional Morphology	University of Louisville	Can Retinal Implants Replace Degenerated Photoreceptors in a Rodent Model of Human Retinitis Pigmentosa?
Heather A. York	Systematics/Evolutionary Biology	University of Kansas	A Phylogenetic Approach to Identifying Competition in the Short-Tailed Fruit Bats (Mammalia: Chiroptera: Phyllostomidae: Carollia)
James J. Zambito	Paleontology/Sedimentation	State University of New York at Buffalo	A Test of Environmental and Community Stability within the Ambocoelia-Chonetes biofacies
Sarah M. Zoller	Psychology	College of Charleston	Production of Homophone Spelling Errors by Young and Older Adults
Olga Zubkovskaya	Anthropology	Central European University	(Feminist) Identities in (Knowledge) Production: A Comparative Study of Feminist Academic Groups in Belarus and Kazakhstan