Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Lia Betti	Anthropology	University of Kent at Canterbury	Out of Africa and what happened next: The relative role of climate and demographic history in shaping the human pelvis and limbs.
Jennifer Cabotage	Anthropology	University of New Mexico	Learning to Forage in Infant Chimpanzees
Stephen G. Chester	Anthropology	Yale University	The Ancestral Euarchontan and the Origin of Primates
Zuzana Faltyskova	Anthropology	Cambridge University	Genetics of Patagonian Aborigines and the origin of Native Americans
Alejandro J. Figueroa	Anthropology	University of South Florida	Systematic Analysis of the Impacts of Modern Development on Archaeological Sites in Roatßn Island, Honduras
Michael T. Fisher	Anthropology	University of Chicago	Discovering the Origins of Social Complexity in the Late Chalcolithic 1 Period of Upper Mesopotamia at Tell Zeidan, Syria
Wenfeng Gong	Anthropology	Duke University	Febrile Pathogen Surveillance and Discovery Study in Sri Lanka
Nicholas V. Kessler	Anthropology	University of Kansas	Do carbon isotope ratios in archaeological common bean coherently record past growing conditions?
Cynthia S. Kwok	Anthropology	University of Calgary	Moving Beyond Childhood: Dietary Life-Histories of Bronze Age and Byzantine Greeks using Stable Isotope Analysis of Human Bone and Teeth
Sophie Makarov	Anthropology	UniversitΘ de MontrΘal	Development of traits linked to bipedality in theáAustralopithecus afarensis knee
Krisztina N. Mosdossy	Anthropology	University of Guelph	Micronutrient content in fruits consumed by white-faced capuchin monkeys (Cebus capucinus)
Elena Portacolone	Anthropology	University of California-San Francisco	THE MYTH OF INDENDENCE AMONG OLDER ADULTS LIVING ALONE IN SAN FRANCISCO

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Jennifer Weber	Anthropology	Georgia State University	An investigation of ancient Maya travelling routes in the Belize Valley: Predictive Spatial Analysis at Pacbitun
Andrea Acevedo	Behavioral Ecology	Oklahoma State University	Mate choice strategies in collared lizards: sexual selection in toddlers
Iulia Badescu	Behavioral Ecology	University of Calgary	The effect of female relatedness on allomothering in ursine colobus monkeys (Colobus vellerosus)
Jessica L. Barker	Behavioral Ecology	Cornell University	Cooperation, competition and policing in human societies
Alexandra B. Bentz	Behavioral Ecology	Appalachian State University	Maternal effects of tree swallows (Tachycineta bicolor) on offspring fitness
Emerson K. Bowers	Behavioral Ecology	Illinois State University	Variation in hatching synchrony and sex allocation within broods of house wrens (Troglodytes aedon)
Katy J. Califf	Behavioral Ecology	Michigan State University	Major histocompatibility complex variation and mate choice in a free living carnivore, the spotted hyena (Crocuta crocuta)
Nathan B. Dappen	Behavioral Ecology	University of Miami	Intralocus sexual conflict and male-typical color expression in female Ibiza wall lizards, Podarcis pityuensis
Eva K. Fischer	Behavioral Ecology	Colorado State University	ARE NEURAL BASES OF GENETIC AND PLASTIC VARIATION IN COMPLEX BEHAVIORS SHARED OR DISTINCT?
Morgan Gilmour	Behavioral Ecology	Bucknell University	Wintering ecology, individual quality,and reproductive effort in a migratory seabird
Adrea S. Gonzalez-Karlsson	Behavioral Ecology	University of California-Los Angeles	Sexual Selection and Chemical Communication in Ithomiine Butterflies

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Holly Holt	Behavioral Ecology	Pennsylvania State University	Chemical Regulation of Molecular and Social Immunity in Worker Honey Bees (Apis mellifera)
Anne C. Jacobs	Behavioral Ecology	University of California-Riverside	What Do Females Really Want? Immunity and Mate Choice in Western Bluebirds
Janice Kelly	Behavioral Ecology	Texas Tech University	Post-breeding public information and its effect on a ground-nesting avian community
Erin L. McCullough	Behavioral Ecology	University of Montana	Costs of flying with elaborate horns in a rhinoceros beetle
Andrew Melie	Behavioral Ecology	University of Nebraska at Lincoln	Predation Experience and Female Mate Choice in Green Swordtails
Loren Merrill	Behavioral Ecology	University of California-Santa Barbara	Do males trade-off investment in immunity against secondary sexual signals, and if so, do they suffer greater rates of parasitism? A thorough investigation of the Immunocompetence Handicap Hypothesis using Red-winged Blackbirds (Agelaius phoeniceus)
Richard Milner	Behavioral Ecology	Australian National University	CHOOSING YOUR ENEMIES BASED ON THEIR FRIENDS
Michael I. Sitvarin	Behavioral Ecology	Miami University Ohio	Evaluating the response of a predator to multiple intraguild predators
Boopathy Sivaraman	Behavioral Ecology	University of Alabama at Tuscaloosa	Neural mechanisms of territorial aggression in the convict cichlid (Amatitlania nigrofasciata)
Michelle Sparks	Behavioral Ecology	Trinity University	Ectoparasite Load in Lizards: Effects of Habitat Use and Behavior
Kimberly L. VanderWaal	Behavioral Ecology	University of California-Davis	Impacts of association patterns on bacterial transmission in giraffes
Joseph C. Waddell	Behavioral Ecology	University of Central Florida	Sexual signaling energetics and life history trade-offs in Brachyhypopomus, a genus of Neotropical electric fishes.

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Kara-Anne Ward	Behavioral Ecology	University of Windsor	Female mate search tactics in long-tailed manakins (Chiroxiphia linearis)
Tina W. Wey	Behavioral Ecology	University of California-Los Angeles	Does social conflict reduce female reproductive success in degus?
Lauren W. Wilmoth	Behavioral Ecology	University of Tennessee-Knoxville	A Defensive Benefit of Aggregative Feeding in Early Instar Pipevine Swallowtail, Battus philenor
Mallory B. Wilson	Behavioral Ecology	Sam Houston State University	Fitness Costs to Females in a Coercive Mating System: Bacterial Susceptibility and Immunity
Ellen M. Wisner	Behavioral Ecology	Syracuse University	The effects of anthropogenic noise on communication and mate choice in Eastern bluebirds
Christopher J. Antico	Cell Biology/Biochemistry	University of Alabama at Tuscaloosa	Using Quantitative Real-Time PCR to characterize chitin-response-protein 1 in Arabidopsis thaliana
Andrew R. Burke	Cell Biology/Biochemistry	Wake Forest University School of Medicine	Nanoparticle-mediated Thermal Therapy for Breast Cancer
Michele Burnham	Cell Biology/Biochemistry	University of Georgia	Analysis of Fusarium verticillioides genes associated with the production of spores.
Catharine G. Clark	Cell Biology/Biochemistry	University of Missouri-Columbia	The Role of Brain Derived Neurotrophic Factor (BDNF) in Chronic Hypertension
Alex L. Deal	Cell Biology/Biochemistry	Davidson College	Does a neuron's ability to produce an action potential affect its dendritic growth in vitro?
Brigitte DeLashmette	Cell Biology/Biochemistry	Brigham Young University-Provo	Macrophages Expedite Tumor Proliferation and Metastasis
William L. Donelan	Cell Biology/Biochemistry	University of Florida	Regulation of human HNF1a in pancreatic beta cells
Bridget M. Donovan	Cell Biology/Biochemistry	Washington and Lee University	Local Induction of T-cell Homing Molecules to Improve Cancer Immune Therapy
Tyler G. Drake	Cell Biology/Biochemistry	Lehigh University	Modeling Polarized Growth in Fission Yeast

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Eric C. Exner	Cell Biology/Biochemistry	University of Wisconsin-Oshkosh	Ground Squirrel Cone Shedding Halts During Torpor but Resumes During Interbout Arousal
James R. Ferrell	Cell Biology/Biochemistry	Kent State University	The Effect of Spark-Based Nonthermal Plasma on Contaminated In-Vitro Constructed Human Skin Equivalents
Patrick Hamoy	Cell Biology/Biochemistry	Viterbo University	Effects of 670 nm Photoirradiation on Paraquat-Induced Oxidative Stress in Drosophila Melanogaster
Leigh A. Harden	Cell Biology/Biochemistry	University of North Carolina at Wilmington	Seasonal variation in blood biochemistry of diamondback terrapins (Malaclemys terrapin) in southeastern North Carolina
Dare M. Imes	Cell Biology/Biochemistry	East Carolina University	The Pre-Metastatic Niche: An Inflammation Response?
Taniya Kaur	Cell Biology/Biochemistry	New York University	Understanding the regulation of the recombination rate domain structure of the C.elegans chromosome.
Michael G. Kearse	Cell Biology/Biochemistry	Lehigh University	Exploring Roles of Paralogous Genes in Drosophila melanogaster: In Vivo Knockdown of the L22e Ribosomal Protein Family in the Male Germline.
Austin K. Mattox	Cell Biology/Biochemistry	Duke University	The Role of the Novel Oncogene OTX2 in Retinoblastoma
Kyle C. Nelson	Cell Biology/Biochemistry	Appalachian State University	Identification of Gene Regulatory Element Associated with the Meis Family of Homeobox Genes
Tyler J. Schroeder	Cell Biology/Biochemistry	University of Wisconsin-Madison	Does mutant Kir 7.1 channel render a dominant negative function in Snowflake Vitreoretinal Degeneration (SVD)?

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Changxia Shao	Cell Biology/Biochemistry	Texas Tech University	Gene expression profiling: p53 signaling pathway dependent anticancer effects of Leptomycin B on human lung cancer
Vikram Shende	Cell Biology/Biochemistry	Texas A&M University-College Station	Investigating the role of microRNAs in coordination of mammalian circadian rhythms.
Samson W. Smith	Cell Biology/Biochemistry	Portland State University	Reactive Oxygen Species: Implications for Somatic Nuclear Mutation Rates and Aging
Daryl A. Taketa	Cell Biology/Biochemistry	University of California-Santa Barbara	Cdk5/p35 Versus Cdk5/Cyclin I: Analysis of Substrate Specificity
Amanda C. Zirzow	Cell Biology/Biochemistry	George Mason University	Bioengineering of nanoscale DNA/albumin baskets for delivery of siRNA
Navid Asbaghi	Chemistry	Ball State University	Phytoremediation of explosives-contaminated soils.
Pratik Chhetri	Chemistry	Central Michigan University	To synthesize a biocompatible polymer containing platinum(IV) based anti-tumor agents attached as pendants units.
Emily S. Maung	Chemistry	University of Delaware	Development and use of a novel method to detect bioaccumulation of endocrine disrupting compounds in Limulus polyphemus tissues
Matthew K. Morantz	Chemistry	McGill University	Electronic Characterization of Novel Anthracenedicarboximides for use as Air-stable N-Channel Semiconductors
Maria A. Zawadowicz	Chemistry	Lake Forest College	Method development for nonequilibrium sampling of trace VOCs in ambient air using solid-phase microextraction and GC/MS
Canan Gunes	Computer Science/Mathematics	Carnegie Mellon University	Reducing parameter uncertainty in large-scale stochastic simulations with correlated inputs

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Maria W. Barbosa de Oliveira Pil	Conservation Biology	University of Missouri-St. Louis	Comparative phylogeography of mangrove tree species in Brazil: conservation implications
Bradley E. Carlson	Conservation Biology	Pennsylvania State University	POOL COMMUNITIES IN ABANDONED MINE LANDS: LARVAL AMPHIBIANS, PREDATORS, AND PARASITES
Timothy J. Ciarlo	Conservation Biology	Pennsylvania State University	Systemic pesticides (neonicotinoids and chlorothalonil) as causative factors of Colony Collapse Disorder in honey bees.
Laura Eierman	Conservation Biology	Cornell University	Effects of Habitat Heterogeneity on Survival and Genetic Differentiation in the Eastern Oyster (Crassostrea virginica)
Stephanie K. Garvis	Conservation Biology	University of Central Florida	Synergistic effects of oyster mat restoration on shoal grass (Halodule wrightii) recruitment and establishment in the Indian River Lagoon
Alona Gukasova	Conservation Biology	Saint Petersburg State University	Applying of a new system of summer bat inventory on the territory of Nature reserves of Ukraine
Brittney Hopkins	Conservation Biology	Virginia Polytechnic Institute and State University	The physiological effects of maternal and dietary mercury in snapping turtles
Luis A. Juarez Casil	Conservation Biology	Universidad Nacional Autonoma de Mexico	GENETIC DIVERSITY AND GEN FLOW BETWEEN THE MEXICAN POPULATION OF BLACK BEAR (Ursus americanus)
Tiffany A. Kosch	Conservation Biology	East Carolina University	Evaluation of the Population Genetic structure of Bactrachochytrium dendrobatidis in Peru
Hila Levy	Conservation Biology	University of Oxford	Inferring Population Trends of Gentoo Penguins (Pygoscelis papua) in the South Atlantic

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Pei-Luen Lu	Conservation Biology	University of Hawaii at Manoa	Conservation genetics of the endangered endemic Hawaiian plant species Pleomele hawaiiensis
Katherine Rollins	Conservation Biology	Illinois State University	Cause of Bat Mortality at Wind Farms: Barotrauma vs. Collision
Yosuke Sakamachi	Conservation Biology	Appalachian State University	Evaluation of toxic elements released from the Tennessee Valley Authority coal fly ash spill on aquatic life and ecosystem health
Tyler R. Sanders	Conservation Biology	Missouri State University	Physiological Plasticity of Ectotherms in a Changing Environment
Christian W. Torres-Santana	Conservation Biology	University of Hawaii at Manoa	Pollination Ecology and Breeding Systems of the Endangered Kadua coriacea (Rubiaceae)
Benjamin J. Wainwright	Conservation Biology	University of Hawaii at Manoa	Indonesian Gene Flow and Implications for Potential Marine Conservation Strategies.
Virginia L. Winder	Conservation Biology	University of North Carolina at Wilmington	Mercury (Hg) levels in feathers and blood of two species of coastal sparrows (Ammodramus nelsoni and A. caudacutus) from over-wintering and breeding sites (salt marshes along the North Carolina coast and habitat in northern U.S. and Canada, respectively).
Melissa L. Aikens	Ecology	University of Virginia	Ecological and Evolutionary Limits to the Distribution of a High-Elevation Southern Appalachian Endemic
Athena R. Anderson	Ecology	University of Georgia	Bumble Bee Foraging Ecology
Thomas R. Barnum	Ecology	University of Georgia	Consequences of Algal-Grazing Tadpoles Infected with Batrachochytrium dendrobatidis on Tropical Stream Algal Communities
Kylla Benes	Ecology	Northeastern University	Associations Between Genetic Diversity and Species Diversity

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Benjamin Blonder	Ecology	University of Arizona	Does leaf venation control plant function?
Steven P. Brady	Ecology	Yale University	The influence of runoff on wetland amphibians
Kathleen Bridges	Ecology	University of Georgia	Effects of increased soil temperatures on mycorrhizal symbiosis
Nathan L. Brouwer	Ecology	University of Pittsburgh	Why do parasites decrease the long-term survival of their hosts? Testing a seasonality hypothesis
Karen E. Brun	Ecology	University of Florida	Coral Reefs Post Acanthaster planci Outbreak: does mutualism dictate coral survival?
Nicola Bryson	Ecology	University of Kent at Canterbury	Primate Community Edge Response in Kibale National Park, Uganda.
Kristen A. Byler	Ecology	University of Mississippi	Coral's Maternal Gift: What symbionts do brooding larvae receive?
Timothy T. Caughlin	Ecology	University of Florida	Seeds move but trees stand still: spatial population dynamics of a long-lived tree species at the Huai Kha Khaeng Wildlife Sanctuary, Thailand
Zacharia J. Costa	Ecology	Virginia Commonwealth University	Tadpole functional roles: Resource use, indirect effects and responses to predation threats
Timothy M. Davidson	Ecology	Portland State University	Contrasting effects of non-native and native wood-boring crustaceans on the productivity and integrity of Panamanian mangroves
Katherine L. Dosch	Ecology	University of Colorado at Boulder	Diversity and disease: how do changes in pathogen communities influence disease risk for amphibians?
Margaret R. Douglas	Ecology	Pennsylvania State University	Testing the Enemy Release Hypothesis with native and invasive slugs

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Sara J. Dunaj	Ecology	University of Massachusetts Lowell	The role of soil organic matter, nutrients, and the diversity of the microbial community on the performance of microbial fuel cells (MFCs)
Emily A. Field	Ecology	Florida State University	Disturbance or resource pulse?: Examining the interactive effects of wrack on Spartina alterniflora and associated species
David J. Gonthier	Ecology	University of Toledo	Impacts of coffee genetic variation on the population dynamics of predator and prey of a tropical insect food web
Ian M. Grettenberger	Ecology	Pennsylvania State University	Exploiting genotypic diversity for sustainable insect pest management
Justin C. Havird	Ecology	Auburn University	Quantifying ecological disturbance in the Hawaiian anchialine ecosystem due to invasive fishes
Christine Holdredge	Ecology	University of Florida	Does Spanish moss drive canopy arthropod diversity patterns across the southeastern U.S.?
Glen R. Hood	Ecology	University of Notre Dame	Cascading host race formation across a guild of sympatric parasitoid wasps
Jessica Hua	Ecology	University of Pittsburgh	Mixing it up: The role insecticide mixtures in aquatic wetlands
Emily S. Johnston	Ecology	Michigan State University	Characterizing resistance and tolerance in three passerine birds in response to two zoonotic pathogens: Borrelia burgdorferi and West Nile virus
Camila A. Kass	Ecology	Universidad Nacional de La Plata	Incubatory inquilinism in Squamata (Reptilia) from the center-east of Buenos Aires province, Argentina.
La Toya T. Kissoon	Ecology	North Dakota State University	Variation in Aquatic Plant Communities in Shallow Lakes: Relationships to Lake Ecology and Biogeochemistry

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Andrew R. Kleinhesselink	Ecology	Sonoma State University	Population and Community Consequences of Facilitation Across a Dune Stress Gradient
Kevin D. Kohl	Ecology	University of Utah	Investigating the role of intestinal microbes in the metabolism of plant toxins
Serenella Linares	Ecology	University of Maryland, College Park	FUNGAL TRANSPORT IN THE SAHARAN DUST STORMS: A JOURNEY FROM AFRICA TO THE AMERICAS
Ari E. Martinez	Ecology	University of Florida	The role of variation in foraging ecology on the organization of Amazonian mixed species flocks
George A. Meindl	Ecology	University of Pittsburgh	Assessing the potential for cascading effects of soil heavy metals: plants and pollinators
Marvin V. Morales Jacinto	Ecology	University of Florida	Do austral migratory birds expand their range in the Amazon wintering habitats?
Jeffrey D. Muehlbauer	Ecology	University of North Carolina at Chapel Hill	Stream Signatures: Developing a method for understanding the spatial importance of river subsidies to floodplain foodwebs
Jocelyn Olney	Ecology	University of Nebraska at Lincoln	Do tree species in mixed Dipterocarp forests show preferential uptake of different forms of Nitrogen?
Katherine J. Papacostas	Ecology	Temple University	Tritrophic Interactions Impacting Biotic Resistance to Marine Epifaunal Invasions
Darren J. Parris	Ecology	Georgia Southern University	Using PCR Techniques to Examine Phytoplankton Community Response to Changes in Inorganic Nutrients
Alexis L. Pasulka	Ecology	Scripps Institution of Oceanography	The role of heterotrophic protists in methane-seep ecosystems
Luanna B. Prevost	Ecology	University of Georgia	Habitat fragmentation effects on plant biodiversity and microclimate in tropical premontane forest

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Andrew P. Rayburn	Ecology	Utah State University	Does facilitation by moss significantly affect performance and fecundity of a threatened endemic primrose?
Brooke Reeve	Ecology	SUNY College of Environmental Science and Forestry	Scaling stress from the lab to the landscape: Do stressors predict the impact of disease on wild populations?
Pamela L. Reynolds	Ecology	University of North Carolina at Chapel Hill	Cascading effects of predator diversity on oyster reefs: the role of behavior
Elizabeth H. Schultheis	Ecology	Michigan State University	The role of plant-soil feedbacks in the biological invasion of Acer platanoides, and implications for native forests
Moira S. Sombra	Ecology	University of Illinois at Chicago	Food and Safety Trade offs in the Socially Complex Dolichotis patagonum.
Robert L. Stanton	Ecology	University of Nebraska at Omaha	Nutrient Cycling and Microhabitat Creation by Burying Beetles (Silphidae: Nicrophorus) of the Great Plains
Anna M. Stewart Ibarra	Ecology	SUNY College of Environmental Science and Forestry	Dengue fever dynamics as a function of climate in Ecuador
Stephanie A. Stuart	Ecology	University of California-Berkeley	Adaptation and niche conservatism of functional traits in Australian rainforests
Rory S. Telemeco	Ecology	Iowa State University	How did viviparity evolve in squamate reptiles? An experimental test of the maternal-manipulation hypothesis.
Margaret A. Van Guilder	Ecology	Central Michigan University	Changes in Double-crested Cormorant (Phalacrocorax auritus) reproductive success and chick bioenergetics after the invasion of the Round Goby (Neogobius melanostomus)

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Hannah B. Vander Zanden	Ecology	University of Florida	Ecology of individuals: Loggerhead dietary specialization
Katie E. Vazquez	Ecology	University of Pennsylvania	Hidden diversity among the Western Atlantic ecotypes of the dog whelk, Nucella lapillus (Neogastropoda: Muricidae): examination of a chromosomal polymorphism across wave exposure gradients
Martine Wagstaff	Ecology	University of Massachusetts Boston	The response of invasive species to novel habitats in the Gulf of Maine
Marjorie G. Weber	Ecology	Cornell University	Do plants that offer both food and housing rewards receive more protection from arthropod mutualists?
Alyssa Whu	Ecology	Miami University Ohio	Boundary Dynamics: effects on ecosystem services
Carrie L. Woods	Ecology	Clemson University	Physiological and morphological traits of epiphytes along a rainfall gradient, Panama
Lijin Zeng	Ecology	University of California-Riverside	Cooperative Breeding in Kalij Pheasant (Lophura leucomelanos): Basic Ecology and the Role of Habitat Saturation
Monica Zimmerman	Ecology	Florida Institute of Technology	Testing Pre-Columbian human impacts on western Amazonian forests
Reuben B. Dodson	Engineering	University of Colorado at Boulder	Systemic arterial biochemical and biomechanical changes in an animal model of hypertensive diseases in pregnancy
Chia-Pin Liang	Engineering	University of Maryland, College Park	Shot Noise in Laser Speckle Contrast Imaging
Brina M. Mortensen	Engineering	University of California-Davis	Sustainable Building Materials Utilizing Microbial Induced Calcite Precipitation
G. T. Sales	Engineering	University of Illinois at Urbana-Champaign	Environmental Conditions and Microbial Population in Laying Hens Facilities

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Junbo Wu	Engineering	Stanford University	Investigation of Alternative Transparent Conductors for Organic Optoelectronic Devices
William Honsaker	Hydrology/Geomorphology	University of Cincinnati	Glacier fluctuations in East Greenland during the Little Ice Age: Patterns and causes
Andrew Kowler	Hydrology/Geomorphology	University of Arizona	Paleolake-level fluctuations in closed basins of the Southwest USA during the latest Pleistocene: understanding evolution of the modern climate system
Daniel Murray	Hydrology/Geomorphology	University of Wisconsin-Madison	Late-Glacial to Early Holocene Glacial History and Regional Climate Reconstruction: Southern Patagonia, Argentina
Peter C. Schillig	Hydrology/Geomorphology	University of Kansas	Hydrogeologic Controls on Bioactive Zone Development
Matt B. Jarrett	Paleontology/Sedimentation	University of South Florida	The Lilliput Effect: Evolution During a Crisis
Nathan A. Jud	Paleontology/Sedimentation	University of Maryland, College Park	Quantifying the diversity-abundance relationship among early angiosperms in Western North America
Tristan Kloss	Paleontology/Sedimentation	University of Wisconsin-Milwaukee	The paleoenvironmental context of middle Cambrian shales: comparisons between ichnofabrics and geochemistry
Benjamin Linzmeier	Paleontology/Sedimentation	University of Wisconsin-Madison	Seasonality of Epicontinental Seas recorded in Epithecal Banding of Paleozoic Rugose Coral
Cameron E. Morissette	Paleontology/Sedimentation	Salem State University	Late Holocene regional climate variability as recorded by annually laminated sediments, Maine

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Haley D. O'Brien	Paleontology/Sedimentation	Ohio University	Ampullariidae: A Gastropod Model of Mesozoic and Cenozoic Macroevolutionary Patterns in the East African Rift Valley
Carrie L. Tyler	Paleontology/Sedimentation	Virginia Polytechnic Institute and State University	A Test of the Validity of Repair Scars as a Proxy for Predation Intensity
Hannah M. Aird	Petrology/Geochemistry	Duke University	A study of the accessory mineral assemblages in the Stillwater Complex, Montana, USA.
Kyle R. Colburn	Petrology/Geochemistry	University of Wisconsin-Oshkosh	How does the mantle beneath the Ring of Fire change through time?: a trace element study of primitive basalts erupted in a small area in the Southern Cascades
George E. Daly	Petrology/Geochemistry	Miami University Ohio	The most recent magmatic eruption on Dominica, Lesser Antilles: A petrograghic, geochemical and isotopic investigation of the Morne Patates eruption
Sarah L. Evans	Petrology/Geochemistry	University of Kansas	Tectonic evolution of a Tethyan rift margin and ocean-continent transition in the Eastern Alps: an integrated magnetite and zircon (U-Th)/He thermochronometric approach
Dawn Hayes	Petrology/Geochemistry	Utah State University	Evidence for a mid-Neoproterozoic eutrophication event in the Uinta Mountain Group?
Lindsay A. MacKenzie	Petrology/Geochemistry	University of Montana	Geochemistry and sedimentology of the Chengjiang fossil fauna

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Aaron Mayfield	Petrology/Geochemistry	Central Washington University	Documenting magma evolution of the Fossa delle Felci (Salina Island, Southern Tyrrhenian Sea) volcanic sequence through integration of quantitative modeling and in situ chemical analysis
Ruifang Xie	Petrology/Geochemistry	Texas A&M University-College Station	Implication of ITCZ Movement from Last Deglacial Dust Provenance Changes in the Eastern Equatorial Pacific
David Brotman	Physics/Astronomy	Fairfield University	Regional Measurements of Left Ventricular Rotation Using Slice Following Harmonic Phase (SF-HARP) Imaging
Steve Carabello	Physics/Astronomy	Drexel University	A study of the superconducting energy gaps of magnesium diboride
Kristen L. Erickson	Physics/Astronomy	University of Missouri-St. Louis	Star formation in the Serpens Molecular Cloud
Katherine G. Leaveck	Physics/Astronomy	Tarleton State University	Automated Classification of Light Curves of Eclipsing Binary Stars Using Fourier Descriptors and Artificial Neural Networks
JoEllen McBride	Physics/Astronomy	University of North Carolina at Chapel Hill	Building a Novel Deployable Integral-Field Spectrometer to Study AGN Outflows and Winds
Rachael M. Roettenbacher	Physics/Astronomy	Lehigh University	Observations and Models of Non-Radial Pulsations in Be Stars
Alexander Tokarev	Physics/Astronomy	Clemson University	X-ray imaging of dynamic wetting in microfluidics
Thomas T. Baldwin	Physiology/Functional Morphology	University of Georgia	Characterization of the Mechanisms behind Fumonisin Insensitivity in Maize
Christine N. Bedore	Physiology/Functional Morphology	Florida Atlantic University	Evolution of color vision in basal batoids
Kayla Bieser	Physiology/Functional Morphology	University of Alabama at Birmingham	Evaluation of DMRT1 as the male sex determining switch in reptiles with TSD.

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Alena Chin-Curtis	Physiology/Functional Morphology	California State University-Chico	Potassium Chloride Induced Excitotoxicity in FVB and B6 Mice: Cyclosporine A is Neuroprotective
Sandrine G. Clairardin	Physiology/Functional Morphology	Illinois State University	Effects of Bisphenol-A on steroid metabolism during sex determination in the red-eared slider turtle
Sara L. Conner	Physiology/Functional Morphology	University of Louisiana at Lafayette	The histological development of Cabirops sp. from cryptoniscus larva to a functional male stage to a functional male stage.
Nicholas J. Gidmark	Physiology/Functional Morphology	Brown University	Muscle physiology as a limitation of jaw performance in cyprinid fish
Ysabel M. Giraldo	Physiology/Functional Morphology	Boston University	Neurodegeneration in worker and queen castes of the ant, Solenopsis invicta
Alison G. Goldberg	Physiology/Functional Morphology	Rutgers, The State University of New Jersey	Androgen sensitivity in the brain: implications for the evolutionary diversification of sex-limited behavior
Kasie Groom	Physiology/Functional Morphology	University of Hawaii at Manoa	Potential sites for arginine vasotocin modulation of sensory systems differ with phase in a sex changing teleost (Thalassoma duperrey).
Merla J. Hubler	Physiology/Functional Morphology	University of Illinois at Urbana-Champaign	Opossums Give Insight into Mammalian Limb Development
Catherine L. Jarrett	Physiology/Functional Morphology	Arizona State University	Characterization of vasodilation in avian arteries
Mike E. Jorgensen	Physiology/Functional Morphology	Ohio University	Muscle variation in the pelvic system across locomotor modes in frogs.
Hsiao-Ling Lu	Physiology/Functional Morphology	Texas A&M University-College Station	Vitellogenin receptor and short neuropeptide F receptor involved in reproduction of the imported fire ant (Solenopsis invicta Buren) queens

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Lillian R. McCormick	Physiology/Functional Morphology	Eckerd College	Vision in the fast lane: Evaluating the effects of lateral asymmetry and polarization sensitivity on predatory efficiency in the squid Lolliguncula brevis
Daria Monaenkova	Physiology/Functional Morphology	Clemson University	Natural solution for cell probing
Benjamin M. Spannuth	Physiology/Functional Morphology	University of Colorado at Boulder	Identification of neural circuits regulating stress-induced activation of serotonergic systems nucleus during fear-potentiated startle
Boriana K. Tchernookova	Physiology/Functional Morphology	University of Illinois at Chicago	Modulation of signal processing in the retina.
Lindsay D. Waldrop	Physiology/Functional Morphology	University of California-Berkeley	Scanning electron microscopy of terrestrial hermit crab antennules (Coenobita sp.)
Eric D. Carpenter	Psychology	North Carolina State University	Effect of Transfer with Younger and Older Adults on Control Solution Testing using Two Blood Glucometers
Michelle D. Hsieh	Psychology	University of Texas at Austin	The Relationship Between Behavioral and Physiological Sensitivity to Amplitude and Frequency Modulation
Melinda S. Jensen	Psychology	University of Illinois at Urbana-Champaign	Blind, Blinder, Blindest; Individual differences in visual awareness
NaNa Keum	Psychology	Columbia University	Contribution of Sugar and Fat Containing ""Snacks"" to Total Caloric Intake and the Development of Obesity in Rats
Gretchen L. Knaack	Psychology	George Mason University	The Effects of Chronic Unpredictable Stress on the Ability to Extinguish Fear: Zinc as a Mediator
Stella Li	Psychology	University of New South Wales	The neural circuitry underlying memory loss in rats.

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Mark Mills	Psychology	University of Nebraska at Lincoln	Cognitive Control of Eye Movements and Fixations: Object-Independent Viewing Strategies Influence Eye Movements during Real-World Scene Viewing
Sabra D. Pelham	Psychology	University of Florida	How bilingual is bilingual enough? Evaluating Lexical Access and Executive Function in Monolinguals, Intermediate Bilinguals, and Lifelong Bilinguals
Elizabeth J. Rahn	Psychology	University of Georgia	Cannabinoid CB2 Mediated Suppression of the Development of Paclitaxel-induced Neuropathy
Kristen Brochu	Systematics/Evolutionary Biology	University of Toronto at Scarborough	Phylogenetics of the Neotropical electric knifefish genus Gymnotus (Gymnotidae, Teleostei): biogeography and signal evolution of trans-Andean species
Katherine C. Brooks	Systematics/Evolutionary Biology	University of Chicago	Proximate mechanisms for the evolution of sociality in ground squirrels
Emily K. Copeland	Systematics/Evolutionary Biology	University of Central Florida	Life history response to infection and the potential for dishonest signals.
Emily V. Daniels	Systematics/Evolutionary Biology	University of California-Irvine	The Flying Rainbow: Geographical Variation in Seasonal Butterfly Wing Colors.
Ryan N. Felice	Systematics/Evolutionary Biology	Ohio University	New Turtle Fauna from the Cretaceous of Tanzania
Kayla M. Hardwick	Systematics/Evolutionary Biology	University of Idaho	Behavioral Mechanisms of Reproductive Isolation in Ecologically Distinct Populations of Desert Lizards.
Christy A. Hipsley	Systematics/Evolutionary Biology	University of California-Santa Cruz	Evolutionary consequences of Cenozoic climate change on African reptile diversification
Lara K. Jarvis	Systematics/Evolutionary Biology	University of North Carolina at Wilmington	Narrowing the window of reproductive isolation between hybridizing blue mussels

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

David W. Kikuchi	Systematics/Evolutionary Biology	University of North Carolina at Chapel Hill	THE EVOLUTION OF IMPERFECT MIMICRY
Morgan J. Kilgour	Systematics/Evolutionary Biology	Texas A&M University-Corpus Christi	Galatheoids of the Gulf of Mexico: reproduction, connectivity and distribution
Elaine Klein	Systematics/Evolutionary Biology	San Diego State University	Estimating Skink Phylogeography to Test Hypotheses of Dispersal in the Pacific
Christopher E. Laumer	Systematics/Evolutionary Biology	Harvard University	New and Known Prorhynchidae (Platyhelminthes: ""Turbellaria"") from the State of Virginia
Megan B. Manes	Systematics/Evolutionary Biology	Iowa State University	Multiple paternity, hormonal regulation of fertility, and the evolution of life histories
Shannon R. McDermott	Systematics/Evolutionary Biology	Duke University	Mapping Variation in Strength of Meiotic Drive
Elena Ortiz	Systematics/Evolutionary Biology	University of Florida	Molecular systematics of the butterfly tribe Preponini (Nymphalidae: Charaxinae)
Jorge L. Pino	Systematics/Evolutionary Biology	University of Florida	Thermoregulation constraints in Mesoamerican montane rodents
Benjamin R. Shepard	Systematics/Evolutionary Biology	Mississippi State University	Morphological consistency of the Horned Lizards (Phrynosoma) using Geometric Morphometric Analysis
Julio A. Soto-Centeno	Systematics/Evolutionary Biology	University of Florida	A multi-locus approach to estimating inter-island genetic diversity, migration, and population structure in an endemic West Indian bat
Holly F. Swift	Systematics/Evolutionary Biology	University of California-Merced	Rapid adaptive radiation of two species of copepods in a marine peripheral environment
Frank J. Tulenko	Systematics/Evolutionary Biology	Wesleyan University, Connecticut	A Lineage Analysis of Somitic and Lateral Mesoderm in Lamprey: Implications for the Origin of Paired Appendages

Grants-in-Aid of Research Awards
March 15, 2010 Grant Cycle

Alphabetical by Subject

Elizabeth Wade	Systematics/Evolutionary Biology	University of Connecticut	Microsatellite identification to assess reproductive isolation vs. genetic divergence in the New Zealand cicada genus Kikihia Dugdale 1971 (Hemiptera:Cicadidae)
Mary L. Wright	Systematics/Evolutionary Biology	University of California-Berkeley	A phylogenetic study of the role of sit-and-wait predation in the evolution of monogamy in the Lysiosquilloidea, a clade of mantis shrimps
Tina L. Colbert	Tectonics/Geophysics	Georgia Institute of Technology	Post-Orogenic Landscape Evolution in the Southern Appalachians
Ryan Lindsay	Tectonics/Geophysics	Baylor University	Correlating earthquakes with faults, Tahoe Basin area of California and Nevada
Keith F. Ma	Tectonics/Geophysics	Yale University	Constraining the strength of a glacial buzzsaw in the Patagonian Andes
Erin A. Stoesz	Tectonics/Geophysics	University of Wisconsin-Madison	Structural Controls on Fault Zone Velocity Signatures at Meter-Centimeter Length Scales