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<th>Name</th>
<th>Discipline</th>
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<tr>
<td>Alexandra B. Bentz</td>
<td>Behavioral Ecology</td>
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<td>Maternal effects of tree swallows (Tachycineta bicolor) on offspring fitness</td>
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<td>Kyle C. Nelson</td>
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<td>Justin C. Havird</td>
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<td>CHOOSING YOUR ENEMIES BASED ON THEIR FRIENDS</td>
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<td>Phytoremediation of explosives-contaminated soils.</td>
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<td>Correlating earthquakes with faults, Tahoe Basin area of California and Nevada</td>
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<td>Ysabel M. Giraldo</td>
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<td>Macrophages Expedite Tumor Proliferation and Metastasis</td>
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<td>Zuzana Faltyskova</td>
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<td>Genetics of Patagonian Aborigines and the origin of Native Americans</td>
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<td>Documenting magma evolution of the Fossa delle Felci (Salina Island, Southern Tyrrenian Sea) volcanic sequence through integration of quantitative modeling and in situ chemical analysis</td>
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<td>Eva K. Fischer</td>
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<td>ARE NEURAL BASES OF GENETIC AND PLASTIC VARIATION IN COMPLEX BEHAVIORS SHARED OR DISTINCT?</td>
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<td>NaNa Keum</td>
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<td>Christine N. Bedore</td>
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## Grants-in-Aid of Research Awards
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<th>Name</th>
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<tr>
<td>Monica Zimmerman</td>
<td>Ecology</td>
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<td>Testing Pre-Columbian human impacts on western Amazonian forests</td>
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<td>Emily A. Field</td>
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<td>Disturbance or resource pulse?: Examining the interactive effects of wrack on Spartina alterniflora and associated species</td>
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<td>Gretchen L. Knaack</td>
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<td>The Effects of Chronic Unpredictable Stress on the Ability to Extinguish Fear: Zinc as a Mediator</td>
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<td>Amanda C. Zirzow</td>
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<td>Bioengineering of nanoscale DNA/albumin baskets for delivery of siRNA</td>
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<td>Tina L. Colbert</td>
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<td>Post-Orogenic Landscape Evolution in the Southern Appalachians</td>
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<td>Using PCR Techniques to Examine Phytoplankton Community Response to Changes in Inorganic Nutrients</td>
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<td>Jennifer Weber</td>
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<td>An investigation of ancient Maya travelling routes in the Belize Valley: Predictive Spatial Analysis at Pacbitun</td>
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<td>Christopher E. Laumer</td>
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<td>New and Known Prorhynchidae (Platyhelminthes: &quot;&quot;Turbellaria&quot;&quot;') from the State of Virginia</td>
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<td>Emerson K. Bowers</td>
<td>Behavioral Ecology</td>
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<td>Variation in hatching synchrony and sex allocation within broods of house wrens (Troglohydtes aedon)</td>
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<td>Cause of Bat Mortality at Wind Farms: Barotrauma vs. Collision</td>
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<td>Systematics/Evolutionary Biology</td>
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<td>Multiple paternity, hormonal regulation of fertility, and the evolution of life histories</td>
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<tr>
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<td>Rory S. Telemeco</td>
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<td>How did viviparity evolve in squamate reptiles? An experimental test of the maternal-manipulation hypothesis.</td>
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<td>James R. Ferrell</td>
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<td>The Effect of Spark-Based Nonthermal Plasma on Contaminated In-Vitro Constructed Human Skin Equivalents</td>
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<td>Method development for nonequilibrium sampling of trace VOCs in ambient air using solid-phase microextraction and GC/MS</td>
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<td>Rachael M. Roettenbacher</td>
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<td>Observations and Models of Non-Radial Pulsations in Be Stars</td>
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<td>Matthew K. Morantz</td>
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<td>Electronic Characterization of Novel Anthracenedicarboximides for use as Air-stable N-Channel Semiconductors</td>
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<td>The most recent magmatic eruption on Dominica, Lesser Antilles: A petrographic, geochemical and isotopic investigation of the Morne Patates eruption</td>
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<td>Boundary Dynamics: effects on ecosystem services</td>
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<td>Katy J. Califf</td>
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<td>Major histocompatibility complex variation and mate choice in a free living carnivore, the spotted hyena (Crocuta crocuta)</td>
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<td>Emily S. Johnston</td>
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<td>Characterizing resistance and tolerance in three passerine birds in response to two zoonotic pathogens: Borrelia burgdorferi and West Nile virus</td>
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<td>Elizabeth H. Schultheis</td>
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<td>The role of plant-soil feedbacks in the biological invasion of Acer platanoides, and implications for native forests</td>
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<td>Benjamin R. Shepard</td>
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<td>Morphological consistency of the Horned Lizards (Phrynosoma) using Geometric Morphometric Analysis</td>
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<td>Taniya Kaur</td>
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<td>Understanding the regulation of the recombination rate domain structure of the C.elegans chromosome.</td>
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<td>Effect of Transfer with Younger and Older Adults on Control Solution Testing using Two Blood Glucometers</td>
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<td>New Turtle Fauna from the Cretaceous of Tanzania</td>
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<td>Systemic pesticides (neonicotinoids and chlorothalonil) as causative factors of Colony Collapse Disorder in honey bees.</td>
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<td>Holly Holt</td>
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<td>Chemical Regulation of Molecular and Social Immunity in Worker Honey Bees (Apis mellifera)</td>
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<td>Contrasting effects of non-native and native wood-boring crustaceans on the productivity and integrity of Panamanian mangroves</td>
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<td>Samson W. Smith</td>
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<td>Reactive Oxygen Species: Implications for Somatic Nuclear Mutation Rates and Aging</td>
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<td>Alison G. Goldberg</td>
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<td>Applying of a new system of summer bat inventory on the territory of Nature reserves of Ukraine</td>
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<td>Cameron E. Morissette</td>
<td>Paleontology/Sedimentation</td>
<td>Salem State University</td>
<td>Late Holocene regional climate variability as recorded by annually laminated sediments, Maine</td>
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<td>Mallory B. Wilson</td>
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<td>Fitness Costs to Females in a Coercive Mating System: Bacterial Susceptibility and Immunity</td>
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<td>Elaine Klein</td>
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<td>Estimating Skink Phylogeography to Test Hypotheses of Dispersal in the Pacific</td>
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<td>Alexis L. Pasulka</td>
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<td>The role of heterotrophic protists in methane-seep ecosystems</td>
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<td>Population and Community Consequences of Facilitation Across a Dune Stress Gradient</td>
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<td>Junbo Wu</td>
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<td>Investigation of Alternative Transparent Conductors for Organic Optoelectronic Devices</td>
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<td>Brooke Reeve</td>
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<td>Scaling stress from the lab to the landscape: Do stressors predict the impact of disease on wild populations?</td>
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<td>Katherine G. Leaveck</td>
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<td>Tarleton State University</td>
<td>Automated Classification of Light Curves of Eclipsing Binary Stars Using Fourier Descriptors and Artificial Neural Networks</td>
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<td>Katherine J. Papacostas</td>
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<td>Temple University</td>
<td>Tritrophic Interactions Impacting Biotic Resistance to Marine Epifaunal Invasions</td>
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<td>Hsiao-Ling Lu</td>
<td>Physiology/Functional Morphology</td>
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<td>Vitellogenin receptor and short neuropeptide F receptor involved in reproduction of the imported fire ant (Solenopsis invicta Buren) queens</td>
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<td>Vikram Shende</td>
<td>Cell Biology/Biochemistry</td>
<td>Texas A&amp;M University-College Station</td>
<td>Investigating the role of microRNAs in coordination of mammalian circadian rhythms.</td>
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<td>Ruifang Xie</td>
<td>Petrology/Geochemistry</td>
<td>Texas A&amp;M University-College Station</td>
<td>Implication of ITCZ Movement from Last Deglacial Dust Provenance Changes in the Eastern Equatorial Pacific</td>
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<td>Morgan J. Kilgour</td>
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<td>Galatheoids of the Gulf of Mexico: reproduction, connectivity and distribution</td>
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<td>Janice Kelly</td>
<td>Behavioral Ecology</td>
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<td>Post-breeding public information and its effect on a ground-nesting avian community</td>
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<td>Michelle Sparks</td>
<td>Behavioral Ecology</td>
<td>Trinity University</td>
<td>Ectoparasite Load in Lizards: Effects of Habitat Use and Behavior</td>
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<td>Luis A. Juarez Casil</td>
<td>Conservation Biology</td>
<td>Universidad Nacional Autonoma de Mexico</td>
<td>GENETIC DIVERSITY AND GEN FLOW BETWEEN THE MEXICAN POPULATION OF BLACK BEAR (Ursus americanus)</td>
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<td>Camila A. Kass</td>
<td>Ecology</td>
<td>Universidad Nacional de La Plata</td>
<td>Incubatory inquilinism in Squamata (Reptilia) from the center-east of Buenos Aires province, Argentina.</td>
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<td>Kayla Bieser</td>
<td>Physiology/Functional Morphology</td>
<td>University of Alabama at Birmingham</td>
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<td>Using Quantitative Real-Time PCR to characterize chitin-response-protein 1 in Arabidopsis thaliana</td>
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<td>Neural mechanisms of territorial aggression in the convict cichlid (Amatitlania nigrofasciata)</td>
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<td>Benjamin Blonder</td>
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<td>Does leaf venation control plant function?</td>
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<td>Paleolake-level fluctuations in closed basins of the Southwest USA during the latest Pleistocene: understanding evolution of the modern climate system</td>
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<td>Iulia Badescu</td>
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<td>The effect of female relatedness on allomothering in ursine colobus monkeys (Colobus vellerosus)</td>
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<td>Cynthia S. Kwok</td>
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<td>Moving Beyond Childhood: Dietary Life-Histories of Bronze Age and Byzantine Greeks using Stable Isotope Analysis of Human Bone and Teeth</td>
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<td>Scanning electron microscopy of terrestrial hermit crab antennules (Coenobita sp.)</td>
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<td>A phylogenetic study of the role of sit-and-wait predation in the evolution of monogamy in the Lysiosquilloidea, a clade of mantis shrimps</td>
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<td>Does social conflict reduce female reproductive success in degus?</td>
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<td>Cooperative Breeding in Kalij Pheasant (Lophura leucomelanos): Basic Ecology and the Role of Habitat Saturation</td>
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<td>THE MYTH OF INDEPENDENCE AMONG OLDER ADULTS LIVING ALONE IN SAN FRANCISCO</td>
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<td>Loren Merrill</td>
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<td>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)</td>
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<td>Daryl A. Taketa</td>
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<td>Cdk5/p35 Versus Cdk5/Cyclin I: Analysis of Substrate Specificity</td>
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<td>Christy A. Hipsley</td>
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<td>Life history response to infection and the potential for dishonest signals.</td>
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<td>Synergistic effects of oyster mat restoration on shoal grass (Halodule wrightii) recruitment and establishment in the Indian River Lagoon</td>
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<td>Joseph C. Waddell</td>
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<td>Sexual signaling energetics and life history trade-offs in Brachyhypopomus, a genus of Neotropical electric fishes.</td>
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<td>Katherine C. Brooks</td>
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<td>Proximate mechanisms for the evolution of sociality in ground squirrels</td>
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<td>Michael T. Fisher</td>
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<td>University of Chicago</td>
<td>Discovering the Origins of Social Complexity in the Late Chalcolithic 1 Period of Upper Mesopotamia at Tell Zeidan, Syria</td>
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<td>William Honsaker</td>
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<td>Glacier fluctuations in East Greenland during the Little Ice Age: Patterns and causes</td>
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<td>Reuben B. Dodson</td>
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<td>University of Colorado at Boulder</td>
<td>Systemic arterial biochemical and biomechanical changes in an animal model of hypertensive diseases in pregnancy</td>
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<td>Katherine L. Dosch</td>
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<td>University of Colorado at Boulder</td>
<td>Diversity and disease: how do changes in pathogen communities influence disease risk for amphibians?</td>
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<td>Benjamin M. Spannuth</td>
<td>Physiology/Functional Morphology</td>
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<td>Identification of neural circuits regulating stress-induced activation of serotonergic systems nucleus during fear-potentiated startle</td>
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<td>Elizabeth Wade</td>
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<td>University of Connecticut</td>
<td>Microsatellite identification to assess reproductive isolation vs. genetic divergence in the New Zealand cicada genus Kikihia Dugdale 1971 (Hemiptera:Cicadidae)</td>
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## Grants-in-Aid of Research Awards
### March 15, 2010 Grant Cycle

#### Alphabetical by Institution

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<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<th>摘要</th>
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<tr>
<td>Emily S. Maung</td>
<td>Chemistry</td>
<td>University of Delaware</td>
<td>Development and use of a novel method to detect bioaccumulation of endocrine disrupting compounds in Limulus polyphemus tissues</td>
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<td>Karen E. Brun</td>
<td>Ecology</td>
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<td>Coral Reefs Post Acanthaster planci Outbreak: does mutualism dictate coral survival?</td>
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<td>Timothy T. Caughlin</td>
<td>Ecology</td>
<td>University of Florida</td>
<td>Seeds move but trees stand still: spatial population dynamics of a long-lived tree species at the Huai Kha Khaeng Wildlife Sanctuary, Thailand</td>
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<td>William L. Donelan</td>
<td>Cell Biology/Biochemistry</td>
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<td>Regulation of human HNF1a in pancreatic beta cells</td>
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<td>Christine Holdredge</td>
<td>Ecology</td>
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<td>Does Spanish moss drive canopy arthropod diversity patterns across the southeastern U.S.?</td>
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<td>Ari E. Martinez</td>
<td>Ecology</td>
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<td>The role of variation in foraging ecology on the organization of Amazonian mixed species flocks</td>
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<td>Marvin V. Morales Jacinto</td>
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<td>Do austral migratory birds expand their range in the Amazon wintering habitats?</td>
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<td>Elena Ortiz</td>
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<td>Molecular systematics of the butterfly tribe Preponini (Nymphalidae: Charaxinae)</td>
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<td>Sabra D. Pelham</td>
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<td>How bilingual is bilingual enough? Evaluating Lexical Access and Executive Function in Monolinguals, Intermediate Bilinguals, and Lifelong Bilinguals</td>
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<td>Jorge L. Pino</td>
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<td>University of Florida</td>
<td>Thermoregulation constraints in Mesoamerican montane rodents</td>
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<td>Julio A. Soto-Centeno</td>
<td>Systematics/Evolutionary Biology</td>
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<td>A multi-locus approach to estimating inter-island genetic diversity, migration, and population structure in an endemic West Indian bat</td>
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<tr>
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<td>Hannah B. Vander Zanden</td>
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<td>Ecology of individuals: Loggerhead dietary specialization</td>
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<td>Athena R. Anderson</td>
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<td>Bumble Bee Foraging Ecology</td>
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<td>Characterization of the Mechanisms behind Fumonisin Insensitivity in Maize</td>
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<td>Consequences of Algal-Grazing Tadpoles Infected with Batrachochytrium dendrobatidis on Tropical Stream Algal Communities</td>
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<td>Effects of increased soil temperatures on mycorrhizal symbiosis</td>
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<td>Analysis of Fusarium verticillioides genes associated with the production of spores.</td>
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<td>Luanna B. Prevost</td>
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<td>Habitat fragmentation effects on plant biodiversity and microclimate in tropical premontane forest</td>
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<td>Cannabinoid CB2 Mediated Suppression of the Development of Paclitaxel-induced Neuropathy</td>
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<td>Krisztina N. Mosdossy</td>
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<td>Micronutrient content in fruits consumed by white-faced capuchin monkeys (Cebus capucinus)</td>
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<td>Potential sites for arginine vasotocin modulation of sensory systems differ with phase in a sex changing teleost (Thalassoma duperrey).</td>
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<td>Pei-Luen Lu</td>
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<td>Conservation genetics of the endangered endemic Hawaiian plant species Pleomele hawaiensis</td>
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<td>Pollination Ecology and Breeding Systems of the Endangered Kadua coriacea (Rubiaceae)</td>
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<td>Indonesian Gene Flow and Implications for Potential Marine Conservation Strategies.</td>
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<td>Food and Safety Trade offs in the Socially Complex Dolichotis patagonum.</td>
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<td>Boriana K. Tchernookova</td>
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<td>Modulation of signal processing in the retina.</td>
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<td>Merla J. Hubler</td>
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<td>Opossums Give Insight into Mammalian Limb Development</td>
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<td>Melinda S. Jensen</td>
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<td>Blind, Blinder, Blindest; Individual differences in visual awareness</td>
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<td>G. T. Sales</td>
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<td>Environmental Conditions and Microbial Population in Laying Hens Facilities</td>
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<td>Sarah L. Evans</td>
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<td>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</td>
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<td>Out of Africa and what happened next: The relative role of climate and demographic history in shaping the human pelvis and limbs.</td>
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<td>The histological development of Cabirops sp. from cryptoniscus larva to a functional male stage to a functional male stage.</td>
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<td>Nathan A. Jud</td>
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<td>Quantifying the diversity-abundance relationship among early angiosperms in Western North America</td>
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<td>Shot Noise in Laser Speckle Contrast Imaging</td>
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<td>FUNGAL TRANSPORT IN THE SAHARAN DUST STORMS: A JOURNEY FROM AFRICA TO THE AMERICAS</td>
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<td>Sara J. Dunaj</td>
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<td>The role of soil organic matter, nutrients, and the diversity of the microbial community on the performance of microbial fuel cells (MFCs)</td>
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<td>Intralocus sexual conflict and male-typical color expression in female Ibiza wall lizards, Podarcis pityuensis</td>
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<td>Coral's Maternal Gift: What symbionts do brooding larvae receive?</td>
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<td>The Role of Brain Derived Neurotrophic Factor (BDNF) in Chronic Hypertension</td>
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<td>Geochemistry and sedimentology of the Chengjiang fossil fauna</td>
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<td>Erin L. McCullough</td>
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<td>Costs of flying with elaborate horns in a rhinoceros beetle</td>
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<td>Andrew Melie</td>
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<td>Mark Mills</td>
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<td>Cognitive Control of Eye Movements and Fixations: Object-Independent Viewing Strategies Influence Eye Movements during Real-World Scene Viewing</td>
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<td>Jocelyn Olney</td>
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<td>Do tree species in mixed Dipterocarp forests show preferential uptake of different forms of Nitrogen?</td>
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<td>Robert L. Stanton</td>
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<td>Nutrient Cycling and Microhabitat Creation by Burying Beetles (Silphidae: Nicrophorus) of the Great Plains</td>
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<td>Learning to Forage in Infant Chimpanzees</td>
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<td>Stella Li</td>
<td>Psychology</td>
<td>University of New South Wales</td>
<td>The neural circuitry underlying memory loss in rats.</td>
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<td>David W. Kikuchi</td>
<td>Systematics/Evolutionary Biology</td>
<td>University of North Carolina at Chapel Hill</td>
<td>THE EVOLUTION OF IMPERFECT MIMICRY</td>
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<td>JoEllen McBride</td>
<td>Physics/Astronomy</td>
<td>University of North Carolina at Chapel Hill</td>
<td>Building a Novel Deployable Integral-Field Spectrometer to Study AGN Outflows and Winds</td>
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<td>Jeffrey D. Muehlbauer</td>
<td>Ecology</td>
<td>University of North Carolina at Chapel Hill</td>
<td>Stream Signatures: Developing a method for understanding the spatial importance of river subsidies to floodplain foodwebs</td>
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<td>Pamela L. Reynolds</td>
<td>Ecology</td>
<td>University of North Carolina at Chapel Hill</td>
<td>Cascading effects of predator diversity on oyster reefs: the role of behavior</td>
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<td>Leigh A. Harden</td>
<td>Cell Biology/Biochemistry</td>
<td>University of North Carolina at Wilmington</td>
<td>Seasonal variation in blood biochemistry of diamondback terrapins (Malaclemys terrapin) in southeastern North Carolina</td>
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<td>Lara K. Jarvis</td>
<td>Systematics/Evolutionary Biology</td>
<td>University of North Carolina at Wilmington</td>
<td>Narrowing the window of reproductive isolation between hybridizing blue mussels</td>
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<td>Virginia L. Winder</td>
<td>Conservation Biology</td>
<td>University of North Carolina at Wilmington</td>
<td>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).</td>
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<td>Cascading host race formation across a guild of sympatric parasitoid wasps.</td>
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<td>Hila Levy</td>
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<td>University of Oxford</td>
<td>Inferring Population Trends of Gentoo Penguins (Pygoscelis papua) in the South Atlantic</td>
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<td>Katie E. Vazquez</td>
<td>Ecology</td>
<td>University of Pennsylvania</td>
<td>Hidden diversity among the Western Atlantic ecotypes of the dog whelk, Nucella lapillus (Neogastropoda: Muricidae): examination of a chromosomal polymorphism across wave exposure gradients</td>
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<td>Nathan L. Brouwer</td>
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<td>Tristan Kloss</td>
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