

**Grants-in-Aid of Research Awards**  
**October 15, 2013 Grant Cycle**

Alphabetical by Institution

<b>Grant Recipient</b>	<b>Research Field</b>	<b>Institution</b>	<b>Study Title</b>
<b>Christina J. Watts</b>	Cell Biology/Biochemistry	Alfred University	The Effects of Chamomile on Stress in Sheep
<b>Corbin D. Ester</b>	Chemistry	Appalachian State University	Novel cobaloximes as electrocatalysts for hydrogen production
<b>Meghan Duell</b>	Behavioral Ecology	Arizona State University	Do miniaturized bees have reduced capacities for visual discrimination and learning?
<b>Rebecca E. Koch</b>	Behavioral Ecology	Auburn University	Experimental tests of the resource tradeoff hypothesis for signal honesty
<b>Amanda B. Edworthy</b>	Ecology	Australian National University	Impacts of climate and forest structure on parasite loads in an endangered songbird, the forty-spotted pardalote.
<b>Marcella R. Fremgen</b>	Ecology	Boise State University	The Herbivore's Dilemma: Obtaining Nutrition for Movement and Breeding in a Toxic Environment
<b>Nicole K. Reynolds</b>	Systematics/Evolutionary Biology	Boise State University	The Unicellular Relatives of Animals and Fungi: Toward a Multigene Phylogeny of an Order of Endosymbiont Protists, the Ichthyophonida
<b>Neda Shefa</b>	Cell Biology/Biochemistry	Boise State University	Investigating the mechanism of PTHrP control of growth plate maturation
<b>Tom C. Hogan</b>	Physics/Astronomy	Boston College	Construction of a Micro-Calorimeter for the Study of Meteorite Heat Capacities
<b>Derek S. Felli</b>	Physics/Astronomy	Brigham Young University	The Morphology and Uniformity of Circumstellar OH and H <sub>2</sub> O Maser Shells Surrounding OH/IR Stars
<b>Adam N. Spierer</b>	Systematics/Evolutionary Biology	Brown University	Surveying the genetic effects of exercise on mitochondrial heteroplasmy
<b>David B. Boerma</b>	Physiology/Functional Morphology	Brown University School of Medicine	Scapular motion across a range of speeds in Seba's Short Tailed Bat ( <i>Carollia perspicillata</i> )
<b>David A. Sleboda</b>	Physiology/Functional Morphology	Brown University School of Medicine	The Impact of Bulging on Skeletal Muscle Performance
<b>Jang W. Cho</b>	Cell Biology/Biochemistry	Carleton College	Understanding the mechanism of how BPA reduces the expression of KC chemokine and IFN-gamma cytokine.
<b>Zachary J. Resch</b>	Cell Biology/Biochemistry	Carthage College	Histone acetylation and decreased transcriptional activation in PD brains
<b>Jesse J. Wilson</b>	Cell Biology/Biochemistry	Carthage College	Immunoelectron Microscopy of Epileptogenic Gap Junctions in Cerebral Cortical Tissue
<b>Tuopu Ma</b>	Cell Biology/Biochemistry	Case Western Reserve University	Semaphorin3C in Glioblastoma Initiating Cell Survival and Invasion

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<b>Shannon M. Torstrom</b>	Ecology	Central Michigan University	Island connectivity and population structure of terrestrial blue racer snakes ( <i>Coluber constrictor foxii</i> )
<b>Melissa A. Johnson</b>	Systematics/Evolutionary Biology	Claremont Graduate University	Testing the non-adaptive speciation hypothesis on islands: Pacific <i>Cyrtandra</i> (Gesneriaceae) as a model of species radiation decoupled from ecological diversification
<b>Kelly M. Diamond</b>	Physiology/Functional Morphology	Clemson University	Modeling relationships of water velocity on predator-prey interactions in Goby fish from Hawaiian streams
<b>Amanpreet Kaur</b>	Physics/Astronomy	Clemson University	Modeling the Spectral Energy Distributions (SEDs) of BL Lac objects to Probe the Opacity of the Universe
<b>Juliet S. Lamb</b>	Conservation Biology	Clemson University	Comparing stress in Brown Pelican nestlings across a gradient of oil development levels in the Northern Gulf of Mexico
<b>Emily C. Cunningham</b>	Psychology	College of William and Mary	A Brief Neurometric Battery: EEG Methods for the Early Detection of Age-Related Changes in Brain Function
<b>Cooper M. Farr</b>	Ecology	Colorado State University	The Effects of Conservation Development Design and Stewardship on Birds and Mammals in Northern Colorado
<b>Monica Kaushik</b>	Conservation Biology	Colorado State University	Seed-dispersal dynamics among native and non-native birds on Kauai Island
<b>Marissa G. Cardillo</b>	Physiology/Functional Morphology	Cornell University	Developmental differences between social and solitary spiders within the family Sparassidae.
<b>Erin M. Eggleston</b>	Ecology	Cornell University	Tracking microbial respiration in a seasonally anoxic bay
<b>Maya P. Lim</b>	Ecology	Cornell University	Heavy Metal Uptake By Plants: An Inducible Defense Against Herbivory?
<b>Michael L. Smith</b>	Behavioral Ecology	Cornell University	How do worker honey bees sense the size of their colony?
<b>Ciaran A. Shaughnessy</b>	Physiology/Functional Morphology	DePaul University	Gill ion transport protein localization in white sturgeon simultaneously acclimating to CO <sub>2</sub> and salinity stressors
<b>Laura E. Bagge</b>	Physiology/Functional Morphology	Duke University	Clearly camouflaged crustaceans: a newly documented anti-reflective biofilm
<b>Fanny M. Besem</b>	Engineering	Duke University	Preliminary Design Methods for Aerodynamics Instabilities in Jet Engines
<b>Eleanor M. Caves</b>	Behavioral Ecology	Duke University	Photosensitivity, Spectral Sensitivity, and Temporal Resolution in Six Caribbean Cleaner Shrimp Species
<b>Brenna R. Forester</b>	Ecology	Duke University	Evaluating the relative importance of local adaptation and directed dispersal under global change

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<b>Yeh-Hsing Lao</b>	Engineering	Duke University	Aptamer-Chemotherapeutic Drug-Polycation Nanoconjugates Designed for Targeted Anticancer Therapy and Related Inflammation Control
<b>Kate N. Thomas</b>	Physiology/Functional Morphology	Duke University	Do bioluminescent beetle larvae have private searchlights on their heads?
<b>T. S. Viehman</b>	Ecology	Duke University	Biophysical controls on coral reef recovery from disturbance
<b>Dorothy L. Dobbins</b>	Cell Biology/Biochemistry	East Carolina University	Identification of Circulating miRNAs as Biomarkers for Mild Traumatic Brain Injuries.
<b>Heather N. Lancaster</b>	Petrology/Geochemistry	East Carolina University	Genesis of the late Archean-early Proterozoic Valentines Iron Formation, Eastern Uruguay, and significance for redox conditions of early Earth's oceans.
<b>Erica Serna</b>	Petrology/Geochemistry	East Carolina University	Geochemistry and genesis of 1.69 Ga iron formations spatially associated with the giant Broken Hill Pb-Zn-Ag deposit, Curnamona Province, Australia
<b>Jason Yonts</b>	Petrology/Geochemistry	East Carolina University	The composition of zincian spinel as an indicator of magma evolution in granitic pegmatites.
<b>Yanqiong Zhang</b>	Cell Biology/Biochemistry	East Carolina University	MicroRNA-mediated regulatory mechanisms and biochemical pathways during crude oil-dispersant mixture induced reproductive toxicity in <i>Caenorhabditis elegans</i>
<b>Parker B. Dabbs</b>	Cell Biology/Biochemistry	East Tennessee State University	Verification of the role of the Avocado WRINKLED1-like gene in regulating oil accumulation
<b>Erin S. Cubley</b>	Ecology	Eastern Washington University	Vegetation response following dam removal and sediment release on the Elwha River, Washington.
<b>Susanna C. Masecar</b>	Conservation Biology	Elon University	Effects on Small Mammal Diversity: Conventional versus Organic Agriculture
<b>Elizabeth Tapanes</b>	Anthropology	Florida Atlantic University	A study of female mate recognition in a social group of Red-Tailed monkeys ( <i>Cercopithecus ascanius</i> ), Blue Monkeys ( <i>C. mitis</i> ), and Hybrids ( <i>C. ascanius</i> x <i>C. mitis</i> ) at Gombe National Park.
<b>Amanda M. Makkay</b>	Conservation Biology	Fordham University	Patterns of relatedness and genetic of diversity North American AZA Snow Leopards ( <i>Uncia uncia</i> ) through non-invasive techniques
<b>Joel J. Credle</b>	Cell Biology/Biochemistry	Georgetown University	Neurobiology of Parkinson's Disease
<b>Leslie D. Moore</b>	Conservation Biology	Georgia Southern University	Canopy Structural Alterations to Nitrogen Functions of the Soil Microbial Community in a <i>Quercus virginiana</i> Forest

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<b>Mitchell A. Ellison</b>	Cell Biology/Biochemistry	Hood College	Differential hsp70 expression in the symbiotic sea anemone <i>Aiptasia pallida</i> and its intracellular symbiont <i>Symbiodinium</i> sp. in response to salinity stress.
<b>John A. Whiting</b>	Hydrology/Geomorphology	Idaho State University	Understanding plant water use across the snow-rain transition in Idaho's wilderness watersheds in the Salmon River Basin.
<b>Lisa A. Treidel</b>	Physiology/Functional Morphology	Illinois State University	The effect of variable incubation temperature on antioxidants and oxidative in hatchling Red-eared Slider ( <i>Trachemys scripta elegans</i> ) turtles.
<b>Eric C. Shattuck</b>	Anthropology	Indiana University - Bloomington	Behavioral Correlates of Vaccination in Travelers
<b>Heather E. Ahrens</b>	Systematics/Evolutionary Biology	Johns Hopkins University School of Medicine	Diversity, Disparity, and the Evolution of North American Creodonts
<b>Susan E. Liao</b>	Cell Biology/Biochemistry	Johns Hopkins University School of Medicine	Identifying novel factors in the endogenous siRNA pathway
<b>Matthew Gallart</b>	Ecology	Kansas State University	Long-term field selection of big bluestem ecotypes in reciprocal gardens planted across the Great Plains precipitation gradient: A novel test for the strength of local adaptation
<b>Alison R. Gerken</b>	Ecology	Kansas State University	How do fluctuating environments impact the rapid cold hardening response compared to stable environments?
<b>Melissa Edler</b>	Anthropology	Kent State University	Are neurodegenerative disorders human-specific? A study of Alzheimer's pathology in aged chimpanzees
<b>Cameron P. Venable</b>	Ecology	Lebanon Valley College	The effects of coarse woody debris on small mammal populations.
<b>Hongtian Yang</b>	Cell Biology/Biochemistry	Louisiana State University Medical Center	Determining of the molecular mechanism of inhibitor-2 (I-2) in regulating protein phosphatase-1 (PP1) in learning and memory
<b>Keo E. Corak</b>	Physiology/Functional Morphology	Macalester College	Quantification of differently expressed cold responsive genes in pennycress lines isolated from different latitudes
<b>Ashkbiz Danehkar</b>	Physics/Astronomy	Macquarie University	Evolution of planetary nebulae with WR-type central stars
<b>Theresa M. Cantu</b>	Cell Biology/Biochemistry	Medical University of South Carolina	Lipidomic analysis of eicosanoid signaling in inflammation and endometrial cancer
<b>Anna K. Miller</b>	Ecology	Miami University Ohio	Long-term Forest Dynamics of the Harvey N. Ott Biological Preserve, Calhoun County, MI

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<b>Adam F. Parlin</b>	Conservation Biology	Miami University Ohio	Linking physiology to habitat use: a turtle's perspective
<b>Alida M. Bailleul</b>	Paleontology/Sedimentation	Montana State University-Bozeman	OSTEO-HISTOLOGY OF CRANIAL SUTURAL FUSION IN THE ARCHOSAURIA: IMPLICATIONS FOR MATURITY ASSESSMENT IN NON-AVIAN DINOSAURS
<b>Catalina I. Villamil</b>	Anthropology	New York University	Variation in the Vertebral Canal of Extinct and Extant Hominins
<b>Reed M. Brodnik</b>	Ecology	Ohio State University	Regulation of phenotypic expression and reproductive performance by climate warming and hypoxia: short- and long-term perspectives
<b>Dulcie A. Head</b>	Petrology/Geochemistry	Pomona College	Investigating Diffusion and Dissolution of Garnet in Fluid Rich Environments
<b>Brittney M. Davidge</b>	Cell Biology/Biochemistry	Portland State University	Examining the role of the Cul3 ubiquitin ligase in cell cycle progression and exit from quiescence
<b>Annette M. Trierweiler</b>	Ecology	Princeton University	Biogeochemical controls of Mo and P availability for N <sub>2</sub> -fixing trees across the Amazon Basin
<b>Kelly L. Ronald</b>	Ecology	Purdue University-West Lafayette	Estrogen and multimodal sensory processing: implications for mate-choice
<b>Bhagya K. Wijayawardena</b>	Systematics/Evolutionary Biology	Purdue University-West Lafayette	The role of genomic stress in the new world invasion by <i>Schistosoma mansoni</i>
<b>Lauren Blachorsky</b>	Cell Biology/Biochemistry	Queens College of The City University of New York	Inflammation within the Mouse Hippocampus Following Mold Exposure.
<b>Hyun-Seung Lee</b>	Cell Biology/Biochemistry	Rutgers University-Graduate School Newark	Pak4 <sup>Δ</sup> in <sup>Δ</sup> C2C12 <sup>Δ</sup> skeletal <sup>Δ</sup> myoblast <sup>Δ</sup> differentiation
<b>Charles A. Johnson</b>	Chemistry	Saint Louis University	Identifying the specific binding site of naphthalimide derivatives to DNA using DNase I footprinting assays
<b>Julia S. Nims</b>	Cell Biology/Biochemistry	Saint Louis University	The role of glutathione in the virulence of Gram-positive bacteria in a mouse model of sepsis
<b>Elena S. Favre</b>	Behavioral Ecology	San Jose State University	Investigation of octopamine as a mediator of a maternal effect in anti predator behavior
<b>Sarah A. Friedman</b>	Tectonics/Geophysics	Southern Illinois University-Carbondale	Contrasting geothermal rate, tectonic setting plays a role in mantle contribution to satellite altitude magnetic anomalies
<b>Lindley B. Ballen</b>	Ecology	Southern Illinois University-Edwardsville	Evaluating the success of bottomland forest restoration in the Upper Mississippi Valley

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<b>Paul T. Le</b>	Ecology	Southern Illinois University-Edwardsville	Avian habitat use in a chronosequence of bottomland hardwood forest restoration sites
<b>Jamay L. Michael</b>	Physiology/Functional Morphology	Southern Illinois University-Edwardsville	A Comparison of Aquatic and Terrestrial Landing in Leiopelmatid and Lalagobatrachian Frogs.
<b>Carson E. Savrick</b>	Ecology	Southwestern University	Determining the genetic diversity of native and invasive populations of <i>Pomacea maculata</i>
<b>Claire T. Hemingway</b>	Behavioral Ecology	St. Edward's University	Adaptive behavioral syndromes as a potential mechanism of invasion and competitive abilities in two livebearing fishes
<b>Michael L. Satcher</b>	Conservation Biology	St. Edward's University	Effects of Variable Flow Regimes on Competition for Resources in <i>Gambusia geiseri</i> and <i>Gambusia nobilis</i> .
<b>Jeries J. Al-Sahoury</b>	Ecology	St. Xavier University	Effects of <i>Metriocnemus knabi</i> larvae on <i>Habrotricha rosa</i> Population Growth in <i>Sarracenia purpurea</i> Pitcher Leaves
<b>Simone Hoffmann</b>	Systematics/Evolutionary Biology	State University of New York at Stony Brook	New Cretaceous Mammals from Madagascar and their implications for the systematics of Mesozoic Mammaliaformes
<b>Ying Su</b>	Chemistry	State University of New York at Stony Brook	Structural characterization of cellulose crystalline nanofibers by combined X-ray scattering and electron microscopy techniques
<b>Nathan E. Thompson</b>	Anthropology	State University of New York at Stony Brook	Function of the Lumbar Lordosis in Hominins
<b>Laurel R. Yohe</b>	Systematics/Evolutionary Biology	State University of New York at Stony Brook	Vomeronasal Transcriptome Diversity and Adaptation in Leaf-Nosed Bats
<b>Lauren E. Graniero</b>	Petrology/Geochemistry	Texas A&M University-College Station	Using nitrogen isotopes to characterize the nutrient conditions of coastal environments in Panama
<b>M. Aaron Owen</b>	Behavioral Ecology	The Graduate Center, The City University of New York	Deciphering evolutionary patterns in the invasive small Indian mongoose
<b>Adrian M. Price-Whelan</b>	Physics/Astronomy	The Graduate Center, The City University of New York	Measuring the Galactic Potential with Tidal Streams

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<b>Jason C. You</b>	Cell Biology/Biochemistry	Thomas Jefferson University	?FosB, Neuroprotection at the Cost of Synaptic Plasticity in AlzheimerÆs Disease
<b>Lauren M. Davis</b>	Behavioral Ecology	Trinity University	Neural and Behavioral Correlates of Invasive Ability in Lizards
<b>Natasha Jhala</b>	Ecology	Union College, New York	Study of Effect of Environmental Mercury on Songbirds in Upstate New York
<b>Corey D. Cates</b>	Ecology	University of Alabama at Birmingham	Do Developmental Conditions Prepare Offspring for Environments Later in Life?
<b>Kathryn M. Schoenrock</b>	Ecology	University of Alabama at Birmingham	Climate change impacts on Antarctic macroalgae
<b>Julie B. Schram</b>	Ecology	University of Alabama at Birmingham	Investigation of the impacts of ocean acidification and increasing temperature on marine benthic mesograzers of the central western Antarctic Peninsula
<b>Paul C. Eskridge</b>	Systematics/Evolutionary Biology	University of Arizona	Notch evolution and the loss of antennal segmentation in paussine beetles
<b>Daigo Yamamura</b>	Paleontology/Sedimentation	University of Arkansas at Fayetteville	Investigating the effects of concretion formation on the isotopic composition of fossil bones from the Late Cretaceous Hell Creek Formation, eastern Montana
<b>Jesyka Melendez</b>	Behavioral Ecology	University of California-Berkeley	MHC mediated mate choice in wild populations of two behaviorally distinct Peromyscus rodents
<b>Taichi A. Suzuki</b>	Ecology	University of California-Berkeley	Microbial variation and Bergmann's rule: clinal variation of gut microbes in house mice across North America
<b>Andranik Khachaturov</b>	Cell Biology/Biochemistry	University of California-Riverside	Osmosensory activation may produce cGMP signals after TRPV1 activation
<b>Simon Kim</b>	Cell Biology/Biochemistry	University of California-Riverside	Investigating the Role of D-Serine in NMDAR-mediated Vasopressin Release
<b>Luke E. Miller</b>	Psychology	University of California-San Diego	The Neural Mechanisms Underlying Tool Embodiment: An ERP Investigation
<b>Rajarshi Dasgupta</b>	Petrology/Geochemistry	University of Cincinnati	Assessing vehicle-related pollution along the Manali-Leh Highway, northwestern Himalaya, India
<b>Kali E. Block</b>	Physiology/Functional Morphology	University of Connecticut	Monk Parakeets
<b>Holly K. Brown</b>	Behavioral Ecology	University of Connecticut	Conquering air-water interfaces; successful foraging despite glare and refraction.



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<b>Jeffrey N. Divino</b>	Ecology	University of Connecticut	Evaluating physiological performance in salinity-divergent populations of threespine sticklebacks
<b>Alison Melville-Mant</b>	Anthropology	University of Connecticut	Experimental Testing of Projectile Performance and Diagnostic Impact Fractures on Replica Middle Stone Age Basalt Points
<b>Vinu Krishnan</b>	Engineering	University of Delaware	Bioengineering Anticancer Nanomedicine to Alleviate Chemotherapy Induced Ocular Toxicity in Childhood Leukemia Therapy.
<b>Carissa G. McKinney</b>	Cell Biology/Biochemistry	University of Delaware	Analysis of neurite formation mediated by Rab35 and Arf6 in the sea urchin embryo.
<b>Kelly Speer</b>	Systematics/Evolutionary Biology	University of Florida	A fly on the cave wall: using parasite genetics to infer patterns of host dispersal
<b>Alex A. Blacutt</b>	Cell Biology/Biochemistry	University of Georgia	Transcriptional response of <i>Fusarium verticillioides</i> to antagonism by <i>Bacillus mojavensis</i> lipopeptides
<b>Shan Gao</b>	Systematics/Evolutionary Biology	University of Georgia	Global Analysis of Horizontal Gene Transfer in <i>Fusarium verticillioides</i>
<b>Eric W. Goolsby</b>	Ecology	University of Georgia	Transgenerational phenotypic plasticity of serpentine tolerance in <i>Mimulus guttatus</i>
<b>Rachael E. Derbyshire</b>	Ecology	University of Guelph	Examining the hoard-rot hypothesis in a boreal songbird: an experimental test of the food limitation assumption.
<b>Alex X. Wang</b>	Conservation Biology	University of Hawaii at Hilo	Dispersal of an Endangered Hawaiian Honeycreeper: An Ecological Trap
<b>Áki J. Láruson</b>	Systematics/Evolutionary Biology	University of Hawaii at Manoa	Comparative phylogeny of the pan-tropical urchin genus <i>Tripneustes</i> .
<b>John M. Maddux</b>	Ecology	University of Illinois at Urbana-Champaign	Müllerian Mimicry in Bumble Bees: Birds as Selective Agents
<b>Rachael F. Lane</b>	Chemistry	University of Kansas	Fate of Bisphenol A, Bisphenol F, and BADGE leached from epoxy coatings into chlorinated drinking water.
<b>Susanna K. Campbell</b>	Systematics/Evolutionary Biology	University of Maryland, Baltimore County	Testing For Female Song in the Newly Recognized Species: Puerto Rican Oriole
<b>Cora A. Johnston</b>	Ecology	University of Maryland, College Park	Species expansion in shifting ecosystems: does passive dispersal preempt active habitat tracking?
<b>Saptarni Bandyopadhyay</b>	Cell Biology/Biochemistry	University of Miami	To identify the role of transcription factor <i>Cdx4</i> in tail bud progenitor cell movements, essential for development of vertebrate trunk and tail.
<b>Sharmila J. Giri</b>	Petrology/Geochemistry	University of Miami	Determining the effect of seawater chemistry on magnesium partitioning in scleractinian corals



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<b>Kirk R. Amundson</b>	Cell Biology/Biochemistry	University of Minnesota, Twin Cities	High efficiency TILLING for targeted agronomic improvement of field pennycress ( <i>Thlaspi arvense</i> L.)
<b>Jacob B. Anderson</b>	Chemistry	University of Minnesota, Twin Cities	Preparation of Fluorescent Squaramide-Based Chloride Sensors via Click Chemistry
<b>Mayank Verma</b>	Cell Biology/Biochemistry	University of Minnesota, Twin Cities	Amelioration of the muscular dystrophy phenotype from an increase in angiogenesis through an inhibition of microRNA 92a.
<b>Cindy W. Kyi</b>	Physiology/Functional Morphology	University of Missouri-Columbia	Axonal Regeneration of Reticulospinal(RS) neurons after Chronic Spinal Cord Injury(SCI) in Lamprey
<b>Shivani V. Jadeja</b>	Ecology	University of Nebraska at Lincoln	Are invasive plant species better than natives? Comparing trade-offs in allocation of resources to reproduction and survival
<b>Horacio P. Guerra</b>	Cell Biology/Biochemistry	University of Nevada-Las Vegas	A Novel Approach for Targeting HIV Proviral DNA
<b>Ashley D. Baker</b>	Physics/Astronomy	University of North Carolina at Chapel Hill	Exploring the Dependence of Galaxy Properties on Group Halo Environment in RESOLVE
<b>Lisa M. Bono</b>	Systematics/Evolutionary Biology	University of North Carolina at Chapel Hill	The genetic basis of viral adaptation to a novel host
<b>Thomas E. Chapman</b>	Petrology/Geochemistry	University of North Carolina at Chapel Hill	The role of deep crustal anatexis in the generation of high silica rhyolite.
<b>Ryan E. Frazer</b>	Petrology/Geochemistry	University of North Carolina at Chapel Hill	Magma mush thermal history as revealed by zircon-titanite thermochronology
<b>Sara L. Juengst</b>	Anthropology	University of North Carolina at Chapel Hill	Community and Health in the Titicaca Basin 800 BC-AD 200
<b>Kelly W. Sheppard</b>	Psychology	University of North Carolina at Chapel Hill	The relation of the omega-6 to omega-3 fatty acid ratio to working memory and planning in children 7 to 9 years old
<b>Victor Lin</b>	Cell Biology/Biochemistry	University of North Texas Health Science Center at Fort Worth	Characterizing iPSC Pluripotency and Differentiation by Inorganic Elemental Concentration Profiles
<b>Kirstin S. Meyer</b>	Ecology	University of Oregon	Does distance matter?: Community ecology and succession of intermittent hard substratum fauna

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<b>Shilpaa Mukundan</b>	Engineering	University of Pittsburgh at Titusville	Fabrication and characterization of PCL-Graphene nanocomposite scaffolds for skeletal muscle tissue engineering
<b>Bikash KC</b>	Psychology	University of South Dakota	Force modulation errors in object manipulation following MCA stroke
<b>Eagappanath Thiruppathi</b>	Engineering	University of South Dakota	A Molecular Non-Fouling Coating For Cardiovascular Metallic Biomaterials.
<b>Martyna Boruta</b>	Behavioral Ecology	University of South Florida	Differential Developmental Stressors and Impacts on Female Preference in Zebra Finches ( <i>Poephila guttata</i> )
<b>Claire K. Flannagan</b>	Paleontology/Sedimentation	University of South Florida	The impact of the emergence of grasslands as a major biome on terrestrial sediment mobility and global nutrient flux in terrestrial and marine ecosystems
<b>Christine M. McNiff</b>	Hydrology/Geomorphology	University of South Florida	Improved Understanding of Saline Water Cycling Through Mangroves Via Geophysical Surveys, With Implications for Anthropogenically Altered Wetland Evolution
<b>Shri Nageshvari A. Verrill</b>	Ecology	University of Southern Maine	Tidal restoration, rising sea-level, and the influence of increased flooding frequency on competitive interactions in a high marsh transition zone dominated by <i>Typha angustifolia</i> L.
<b>Joel B. Corush</b>	Ecology	University of Tennessee-Knoxville	Effects of matrix heterogeneity on population structure and movement of freshwater and estuarine fishes through marine systems.
<b>Renjie Zhou</b>	Tectonics/Geophysics	University of Toronto	Exhumation of the Laguna Blanca Mountain, southern Puna Plateau, central Andes
<b>Rachel L. Brunner</b>	Ecology	University of Wisconsin-Madison	Plant nutrition and 40 years of observed vegetation changes on windward Haleakala.
<b>Anna L. Williams</b>	Physics/Astronomy	University of Wisconsin-Madison	Disentangling Magnetic Fields in Spiral Galaxies
<b>Charlotte G. Gabrielsen</b>	Ecology	University of Wyoming	Climate change effects on wetland ecosystem services across the Prairie Pothole Region
<b>Ryan J. Haupt</b>	Ecology	University of Wyoming	Use of Dental Microwear as an Indicator of Wolf Social Status
<b>Cassandra S. Koontz</b>	Anthropology	Vanderbilt University Medical Center	Biogeochemistry of Trophy Heads and Injured Males from the Wari-era Site of Uraca, Majes Valley, Arequipa, Peru (AD 600 - 1000)
<b>Courtney M. Curran</b>	Ecology	Villanova University	How does Deepwater Horizon oil impact salt marsh microbial communities?
<b>Jennifer A. Fjelsted</b>	Ecology	Virginia Commonwealth University	A cross-disciplinary look at how changes in ploidy level effects development and response to environmental changes in <i>Xenopus laevis</i> .

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<b>Stephanie Y. Chin</b>	Ecology	Virginia Institute of Marine Sciences, College of William and Mary	The effect of dietary methylmercury on parental care of a model avian species
<b>Michael S. Painter</b>	Behavioral Ecology	Virginia Polytechnic Institute and State University	Magnetic guidance of predatory behavior in foxes?
<b>David W. Mixter</b>	Anthropology	Washington University in St. Louis	Dating the Rate of Socio-political Transformations after the Maya Collapse
<b>Miguel Correa</b>	Chemistry	Willamette University	Exploring Pre-Transition Droplet Formation and the Effect of Secondary Isotopomeric Abundance Percentage
<b>Meredith A. Atwood</b>	Ecology	Yale University	Temporary Pond Food Webs
<b>Josephine B. Smit</b>	Systematics/Evolutionary Biology	Yale University	Multi-locus phylogenetics and the evolutionary lability of niche and shell shape through time in giant Galapagos tortoises